: AG˙E-Review˙&$$) Cover Sheet

$+/%˙/%&

							Ŝ[æå:	
Review ID:		Ŝã^Ő˘&¦^K		ŽŒ˘ŒE		DO-178 Level:	
Review Type:		ACM Project:				Rework Effort (hours):	
Produced:		ACM Subproject:				Closure Effort (hours):	

Ü^çã˛: Date | Time		Meeting Duration:		Moderator Closure →
Ü^çã˛ ŠŜ[&ææã} :		# Ü^çã˛ Participants:		**APPROVED** *By Louis.Lu at 4:13 pm, Jan 16, 2014*
Ő[}-^¦^}&^ÄÜ[[{ K		Date Complete:		Audit: Stamp Here
Telephone | Participant Code:		Review Status: (result of review)		

Work Product Type(s):   Supporting˙ A aterial(s) / Comments:

Ú¦[å˘&^¦ÁÒ{]][^^¦A	Uç^¦•ã @Ò¦ãã¦^K
# of Ú¦[å˘&^¦Áechnical Ŏefects:	¦ fÁUç^¦•ã @Œ¦ &æÁechnical Ŏefects:
# of Ú¦[å˘&^¦Áon-technical Ŏefects:	# of Uç^¦•ã @Œ¦ &æÁon-technical Ŏefects:
# of Ú¦[å˘&^¦Árocess Ŏefect•:	# of Uç^¦•ã @Œ¦ &æÁrocess Ŏefects:

Work Products Under Review

Reuse Scope:

Problem Report	File Name	File Version	Review Size	Size Units	Approved Version

Participants

Name	Function (discipline)/ Responsibility	Review Time (hours)	Role in review	Attend	Will Close	Signature check complete
						REVIEWED *By Lin Ye at 9:48 am, Jan 06, 2014*
						REVIEWED *By Lous.Lu at 4:12 pm, Jan 16, 2014*
						REVIEWED *By Yuzeng.Li at 4:13 pm, Jan 16, 2014*

Assignee's signature (stamp) confirms that a review was performed and any action Items and markups were incorporated or dispositioned.
Participant's signature (stamp) confirms participation in the review. A lack of signature (stamp) indicates nonparticipation.
Moderator's signature (stamp) indicates record is complete.
Uç^¦•ã @ÄÜ^çã˛ ^¦ŒÁã}æ˘¦^Ág ̨ æ{]Dœã åą̃æ^•ǼæÜ˘]]¦ã¦ÁUç^¦•ã @Ấ æ•Á&[}å˘&^¦åÄ
Ùæ^ć ÁŒ¦ &æ¦ÇÁã}æ˘¦^Ág ̨ æ{]Dœã åą̃æ^•Á¦ æ¢cæ¦] æ{ã} Á¦-Ǽæ̂Ùæ^ć ÁŒ¦ &æ¦Ạ

Coversheet Continued

Name	Function (discipline)/ Responsibility	Review Time (hours)	Role in review	Attend	Will Close	Signature check complete

Component Test Procedure (CTP) Checklist **(CTP_CHECKLIST_WORD.doc 10/24/07)**	ACM Project:	
	ACM Sub-Project:	
	SCR Number:	
	Affected Area:	

Overview: CTPs are generated to verify an individual software element or group of elements properly implement requirements the software element(s) trace to. Use this checklist to inspect test cases and associated test procedures, drivers, and stubs against requirements the software element(s) implement. The CTP(s) are verified to conform to standards, and fully test requirements with appropriate structural coverage. The associate tracing data and test coverage analysis/disposition data (if any) is also verified.

Misc Info Reference: FMS Test Process C71-5780-043, Section 5.

Yes   No   N/A   Administrative

1.   Do the CTPs elements follow the standard naming conventions?

    CTP_<A/C>_<FAREA>_<FUNC-NAME>.TDF file – CTP Test Definition File
    CTP_< A/C >_<FAREA>_< FUNC-NAME >.ZIP file – miscellaneous test related files
    CTP_< A/C >_<FAREA>_< FUNC-NAME>.TRT file – CTP Trace file(Core only)

CTP elements configured in the CM tool:

2.   Is *.TDF file – CTP Test Definition File present?

3.   Is *.ZIP file present?

4.   Is *.TRT file – CTP Trace file present (Core only)?

Review Packet information details:

5.   Is SCR Number and a copy of the SCR (Sec state) present?

6.   Is TDF, TRT(If present), ZIP files with correct generation information present?

7.   Support files (SRD, SDD, and Checklist) with Generation information.

8.   Does the review packet contain a difference listing of the old test to the new test and are the differences limited to the changes specified in this SCR?

9.   Is the version of the material under review and supporting material correct for the SCR(s)?

10. Has the material/version been identified on the cover sheet of the review packet (may reference SCR)?

11. Have all SCR fields (e.g. Analysis/Solution) been filled out properly?

Yes   No   N/A   TDF (CTP Test Definition File)

Does the TDF header include the following fields:

12. Does the TDF header include the following fields:

- Filename

- Title

- Author

- Creation Date

- Modification History

- Source

- Description of TDF

13. Is the SCR number and description updated for this SCR?

14. Does the TDF header include a unique ANCHOR name for this CTP?

15. Is the list of SRD/SDD element references (and their generation numbers) updated and correct? (including formatting of this information)

Yes   No   N/A   ZIP File (CTP Related Miscellaneous Files)

16. Does the ZIP file contain the updated necessary test files ?

- *.BAT

- *.CUL

- ~~*.DRV~~ (*_D.ADA)

- ~~*.VER~~ (*.RST)

- *.RPT

- Optional files: STB, DSP, and INC (if necessary).

- Has the *.CUL file been updated to show the correct span of source code procedures/functions that are being tested by this CTP?

Component Test Procedure (Ctp) Checklist

Yes   No   N/A   TRT File (Core only)

17. Does the TRT header include the following fields:

- Filename

- Title

- Author

- Creation Date

- Modification History

- Is the modification history with date, author, SCR number, and description updated?

18.   Has the traceability matrix been updated/verified (trace to the correct requirements)??

Yes   No   N/A   Test Case Design

19. Are the test case ID numbers present in sequential order?

20. Does the test script have test case descriptions which describe the objectives, intent, and operation for each test case?

21. Are all the allocated requirements tested?

22. If anchor is found to be a bad trace or vague/ambiguous, has it been disposed with a reference SCR.

23. Does the test case description section of each test case identify the specific requirements (SRD anchors) that are being tested?

24. Does the test case description section of each test case identify the specific requirements (SRD anchors) that are supporting requirements?

25. To ensure robust testing, are all test cases inputs set with at least 2 different values?

26. To ensure robust testing, are boundary conditions and tolerances tested where ever applicable?

Yes	No	N/A	**Test Case Design con't**

27. Coverage Levels – Has every point of entry and exit in the program been invoked at least once?

28. Coverage Levels – Has every decision in the program taken on all possible outcomes at least once?

29. Coverage Levels – Has every condition in a decision in the program taken on all possible outcomes at least once?

30. Coverage Levels – Has every condition in a decision been shown to independently affect that decision's outcome? A condition is shown to independently affect a decision's outcome by varying just that condition while holding fixed all other possible conditions.

31. Data Coupling – Are there test cases which exercise "data coupling" between software modules (i.e., the dependence of a software component on data not exclusively under the control of that software component)?

32. Data Coupling – Are there test cases which exercise "control coupling" between software modules (i.e., the manner or degree by which one software component influences the execution of another software component)?

33. Error Guessing - Do areas in the software known to have complex algorithms have a sufficient number of test cases to ensure they are working as expected?

34. Error Guessing - Do areas in the software associated with complex requirements have a sufficient number of test cases to ensure they are working as expected?

35. Outputs - Are all test case outputs measured for at least two different values?

36. Outputs - Have variables with expected output values been initialized to other values before input to the test process (e.g., If a variable is expected to have an output result of TRUE, is the input state of this variable set to FALSE before executing the test case?)

37. Coverage Analysis - Are the entire test paths covered as per the structural coverage requirements mandated for Flight Management Systems? If not, are such structural coverage deficiencies dispositioned? If not determined to be a tool problem, then the disposition must reference to an SCR.

38. Coverage Analysis - For uncovered requirements, is there another test that provides the coverage?

39. Has the Test name and Anchor required if one exists, been identified? If not, has an SCR been written and the SCR number referenced?

40. Coverage Analysis – Have all the failures been analyzed and disposed appropriately in the DSP quoting a correct SCR number documenting the reason for the failures.

Yes   No   N/A   **Polymorphism Related Issues (C++)**

41. Has the code under test been examined for the existence of dynamic dispatch (can be determined by virtual functions in the code or a virtual table in the assembly code)?

42. Does each test case appearing in the set of test cases associated with a class appear in the set of test cases associated with each of its subclasses?

43. If dynamic dispatch is involved in the execution of a function, is the method separately tested in the context of every concrete class in which it appears, irrespective of whether it is defined by the class or inherited by it?
An exception is made for simple get and set methods that only assign a value to, or return the value of an attribute or association. Such methods need only be tested once, in the context of the defining class.

44. Are errors dispositioned to an SCR or has the test been updated?

Yes   No   N/A   **Other**

45. Are all defects identified by the previous questions?

N N/A Justification Box

Trace Checklist	ACM Project:	
(Trace_Check_Word.doc 8/5/09)	ACM Sub-Project:	
	SCR Number:	
	Affected Area:	

Overview:	Use this checklist to verify tracing data is correct, complete, and complies to standards.

Administrative

Y N N/A   1.   Are the following artifacts available at the work product review?

a   A copy of the applicable SCR(s)?

b   For non-TcSE, a copy of the trace file under review? For TcSE, a copy of the trace artifact or trace report under review?

c   A copy of the anchored requirement, design, test case/procedures, and/or source listings addressed by the trace file under review? (applicable pages only) (check Cover Sheet "Reference/Supporting Material" for element/gen.)

Trace File Standard – Applies to non-TcSE Only

Y N N/A   2.   Does the trace file header comply with the standard?

a   Header contains File Name and Revision History?

b   Is the Revision History description consistent with the SCR analysis?

Y N N/A   3.   Does the trace file trace information comply with the standard?

a   Are there 4 columns (Program, Relationship, Source_Anchor, Destination_Anchor) for each row?

b   Are the values for Relationship valid for the project?

Trace Data

Y N N/A   4.   Are anchors linked to appropriate higher-level document anchor(s)?

Explanation for any "N" answer(s):

Change Category: PROBLEM   SCR No. : P 08073.01
SCR Status: SEC   SCR Status Date: 5—JAN—2014
Originator: O'Connor, Michael   Date Originated: 25—DEC—2013
Affected Area: TEST_PERF   Customer No. :
Assignee: Lin Ye   Priority: 4
Verification Assignee: Lu,Louis
Found in Configuration: A350_CERT1_SRC_S3   Hardcopy Attachment: None
Target Configuration: A350_CERT1_TST_X04

Planned Impact: Test
Found During: HI OTHER
Aircraft Affected: A350
Task: N/A
CR1—F41 Type:
Earliest Applicabl: A380 EIS
Risk of Regression: Low

SCR Copied To: < None Entered >

SCR Copied From: < None Entered >

SCR Reissued To: < None Entered >

SCR Reissued From: < None Entered >

 Title: SPD LIM missed in Tempy

 Description:

Kayalvizhi D 7—Aug—2013
—
This SCR is created to document the lab SQK A380—A380 SSB3 —62652.
—
A tempy is created by insert next on the TO wpt or dirto while A/C
is in descent above SPD LIM altitude: spd lim is predicted at econ
des.
—
Scenario: with ABV1304001 init in air as in init_yamb picture Start
FMCs, enter ZFW 150 ZFWCG 32 CI 15,2 dirto S2703.5/E15054.0 from
this WPT, new dest YAMB, arrival ILS15—Y via DONNO. Delete disco
before DONNO. fly in full managed mode.
At T/D REACHED, engage descent in full managed mode. In full managed
mode, DIRTO OK. Delete disco after OK. From OK insert next IBUNA: in
tempy.
SPD LIM is predicted at 300kts. Delete tempy. From PPOS dirto LL01
(in front of the A/C): same observation See snapshots.
—
When the A/C is on path in VPATH/SPD mode and then the TMPY is
created, the issue can be seen.
—
When the Active is Onpath and TMPY is below path, the Decel zone for
DES SPD LIM is not predicted in TMPY and this is the reason the
speed is predicted as Missed in TMPY.
—
When the Active is slightly above or below path, then the Decel is
predicted in TMPY and it is shown as Made.
—
System Impact: Decel zone for DES SPD LIM is not predicted when

Active FPLN is Onpath and TMPY FPLN is belowpath.
—
Since the impact is seen only on the TMPY profile, P4 SCR is created.

SRB Reviewed By: Jeff Renckly   Date: 3-JAN-2014

Analysis/Solution:

<26-Dec-2013> Ye Lin (E828804) [HTS-C] :
Created split as per request from E828804 (Ye, Lin).
CTP_A350_PERF_BKGND_GET_BK_DATA needs update for SDD anchor PERF_SDD_09201_INT
from PERF_BACKGROUND_EXEC.SDD as per updates under development SCR 8053.01
——
<Jan-06-2014><E828804>
Updated CTP_A350_PERF_BKGND_GET_BK_DATA for A350 phase 5 Plan on build A01418
and executed in ITE mode.
1. TDF(Gen=14)
Updated for A350 phase 5 on build A01418.
1) Updated the SDD/SRD generation as following:
   11_2_2.SRD   ; 27 -> 29
   11_2_9.SRD   ; 8 -> 10
   PERF_BACKGROUND_EXEC.SDD; 96 -> 103
2) Updated breakpoint for TCs
1~6,8~10,14,15,17,18,22~24,26,28~34,39,40,59~61,73~79,82~84.
3) Updated as per SCR# 8053.01:
 A. Added TCs 96~99 as PERF_SDD_09201_INT is added.
2. ZIP(Gen=15)
1) Updated DSP file.
2) New Rst, Rpt file.
3. TRT(Gen=11)
Updated for A350 phase 5 on build A01418.
1) Updated as per SCR# 8053.01:
 A. Added PERF_SDD_09201_INT.

Elements Affected:

Doc.	Element	Generation
TEST	CTP_A350_PERF_BKGND_GET_BK_DATA.TDF	14
TEST	CTP_A350_PERF_BKGND_GET_BK_DATA.ZIP	15
TRACE	CTP_A350_PERF_BKGND_GET_BK_DATA.TRT	11

                 ASSIGNEE: Lin Ye   Date: 6-JAN-2014
                 VERIFIER: Date:
        CCB COORDINATOR: Date:

Closure Category: Fixed/Added   Duplicate SCR No.: 00000.00
Project Status: Done
Addendum:
Review Info:
Cert Concern:
Cust Notification:
Inservice Incident:
FDE Distraction:
Pilot Input:
Workload Wrkaround:
Must Fix:
Score/Comment:
Cause: N/A

     < Closed in Config. field continued >   SCR No. 08073.01   Page 3 of 3

Closed in Config.: A350_CERT1_TST_X04

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF

```
    1 │    1 │ FILE                    :   CTP_A350_PERF_BKGND_GET_BK_DATA.TDF
    2 │    2 │
    3 │    3 │ SOURCE CONFIGURATION   :  ISS (Instruction Set Simulator)
    4 │    4 │
    5 │    5 │ DESCRIPTION            :  This test is to verify that the variables are properly initialized.
    6 │    6 │
    7 │    7 │ MODIFICATION HISTORY  :
    8 │    8 │                            DATE          SCR #       AUTHOR          DESCRIPTION
    9 │    9 │                            =====         =====       ======          ===========
   10 │   10 │                            1-Aug-2011    1991.91     Bao Tingjie     Updated for A350 S1 Baseline on bulid A01082.
   11 │   11 │                                                                     1.Re-used the test from A380 Cert 2 and executed o
        │      » n A350 S1
   12 │   12 │                                                                       Baseline Bulid A01082;
   13 │   13 │                                                                     2.Updated requirement files'version as:
   14 │   14 │                                                                       11_2_1_1.SRD  ; 84(FMS2000,A3XX)->5(FMS2000,A350
        │      » _A380)
   15 │   15 │                                                                       11_2_1_8.SRD  ; 41(FMS2000,A3XX)->5(FMS2000,A350
        │      » _A380)
   16 │   16 │                                                                       11_2_8_1.SRD  ; 29(FMS2000,A3XX)->4(FMS2000,A350
        │      » _A380)
   17 │   17 │                                                                       11_2_1_1_7.SRD; 71(FMS2000,A3XX)->3(FMS2000,A350
        │      » _A380)
   18 │   18 │                                                                       11_2_1_13.SRD ; 22(FMS2000,A3XX)->8(FMS2000,A350
        │      » _A380)
   19 │   19 │                                                                       11_5_1.SRD    ; 25(FMS2000,A3XX)->3(FMS2000,A350
        │      » _A380)
   20 │   20 │                                                                       11_3_5_1.SRD  ; 61(FMS2000,A3XX)->7(FMS2000,A350
        │      » _A380)
   21 │   21 │                                                                       11_2_2.SRD    ; 33(FMS2000,A3XX)->6(FMS2000,A350
        │      » _A380)
   22 │   22 │                                                                       11_2_9.SRD    ; 17(FMS2000,A3XX)->5(FMS2000,A350
        │      » _A380)
   23 │   23 │                                                                       11_20_3.SRD   ; 34(FMS2000,A3XX)->2(FMS2000,A350
        │      » _A380)
   24 │   24 │                                                                       11_21_6.SRD   ; 18(FMS2000,A3XX)->4(FMS2000,A350
        │      » _A380)
   25 │   25 │                                                                       11_21_5.SRD   ; 19(FMS2000,A3XX)->2(FMS2000,A350
        │      » _A380)
   26 │   26 │                                                                       11_21_7.SRD   ; 10(FMS2000,A3XX)->2(FMS2000,A350
        │      » _A380)
   27 │   27 │                                                                       11_2_8_2.SRD  ; 13(FMS2000,A3XX)->2(FMS2000,A350
        │      » _A380)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

28	28	11_1_6.SRD ;9(FMS2000,A3XX)->2(FMS2000,A350_A
		» 380)
29	29	11_2_1_10.SRD ;25(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)
30	30	11_2_1_11.SRD ;22(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)
31	31	11_2_1_5.SRD ;29(FMS2000,A3XX)->4(FMS2000,A350_
		» A380)
32	32	11_2_1_6.SRD ;39(FMS2000,A3XX)->4(FMS2000,A350_
		» A380)
33	33	11_2_1_7.SRD ;34(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)
34	34	11_2_1_9.SRD ;30(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)
35	35	PERF_BACKGROUND_EXEC.SDD;325(FMS2000,A3XX)->
36	36	17(FMS2000,A350_A380)
37	37	PERF_ADS.SDD ; 46(FMS2000,A3XX)->4(FMS2000,A35
		» 0_A380)
38	38	3.Modified the breakpoint number as code changed a
		» nd all IO
39	39	relative SUT_VARS
40	40	4.Updated TCs 1-6,8,10,14,15,18,19,22-24,26,28,33,
		» 34,52 to
41	41	modifiy the breakpoint number and IO relative va
		» riables
42	42	5.Updated as per SCR 741.01(FMS2000,A350_A380)
43	43	1)Updated TCs 11-13,27 to delete PERF_SDD_08116_I
		» NT
44	44	2)Updated TCs 16,17,25,27,41-43 to verify PERF_SD
		» D_4794_INT
45	45	completely
46	46	3)Updated TC 29 to verify PERF_SDD_08171_INT comp
		» letely.
47	47	4)Updated TC 7 as the variable
48	48	Perf_Background_Dpkg.Pshfdecel_found is deleted
49	49	6.Updated as per SCR 632.20(FMS2000,A350_A380)
50	50	1)Deleted PERF_SDD_07539_INT and PERF_SDD_07541_I
		» NT from TCs
51	51	29,31,32 as they not allocated to A350 anymore.
52	52	2)Updated TCs 16,29-32 to verify PERF_SDD_08225_I
		» NT completely
53	53	3)Updated TCs 29,30,31 to verify PERF_SDD_08227_I
		» NT completely
54	54	4)Updated TCs 9,39,40 to delete PERF_SDD_2248 and

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
                    »  add
  55     55                                                         PERF_SDD_08226
  56     56                                                        5)Deteted PERF_SRD_6015 form TCs TCs 1-6,8-13 as
                    » it is not
  57     57                                                         to traced to PERF_SDD_0409
  58     58                                                       7.Updated as per SCR 632.19(FMS2000,A350_A380)
  59     59                                                        1)Added PERF_SRD_23387 in TCs 1-6,8-13 as it tra
                    » ced to
  60     60                                                          PERF_SDD_0409
  61     61                                                        2)Added PERF_SRD_23549 in TCs 9,39,40 as it trac
                    » ed to
  62     62                                                          PERF_SDD_08226
  63     63                                                       8.Updated TCs 29-32,added TCs 59-61 to verify
  64     64                                                        PERF_SDD_07500_INT,
  65     65                                                        PERF_SDD_07501_INT,PERF_SDD_07502_INT,PERF_SDD_0
                    » 7503_INT,
  66     66                                                        PERF_SDD_07504_INT,PERF_SDD_07505_INT,PERF_SDD_0
                    » 7506,
  67     67                                                        PERF_SDD_07540_INT,PERF_SDD_07542_INT,PERF_SDD_0
                    » 7543_INT
  68     68
  69     69                    DEC-25-2011     3149.08     Hao Zhilian    Updated for A350 S1.1 on build A01187.
  70     70                                                       1.Updated the SDD/SRD generation as following:
  71     71                                                         11_2_1_1.SRD  ; 5 -> 18
  72     72                                                         11_2_1_8.SRD  ; 5 -> 8
  73     73                                                         11_2_8_1.SRD  ; 4 -> 8
  74     74                                                         11_2_1_1_7.SRD; 3 -> 7
  75     75                                                         11_2_1_13.SRD ; 8 -> 15
  76     76                                                         11_5_1.SRD    ; 3 -> 6
  77     77                                                         11_3_5_1.SRD  ; 7 -> 14
  78     78                                                         11_2_2.SRD    ; 6 -> 18
  79     79                                                         11_2_9.SRD    ; 5 -> 7
  80     80                                                         11_20_3.SRD   ; 2 -> 4
  81     81                                                         11_21_6.SRD   ; 4 -> 9
  82     82                                                         11_21_5.SRD   ; 2 -> 3
  83     83                                                         11_21_7.SRD   ; 2 -> 3
  84     84                                                         11_2_8_2.SRD  ; 2 -> 3
  85     85                                                         11_2_1_10.SRD ; 3 -> 4
  86     86                                                         11_2_1_11.SRD ; 3 -> 4
  87     87                                                         11_2_1_5.SRD  ; 4 -> 6
  88     88                                                         11_2_1_6.SRD  ; 4 -> 6
  89     89                                                         11_2_1_7.SRD  ; 3 -> 6
  90     90                                                         11_2_1_9.SRD  ; 3 -> 7
  91     91                                                         PERF_BACKGROUND_EXEC.SDD; 17 -> 38
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
 92│  92│                                              PERF_ADS.SDD           ; 4  -> 6
 93│  93│                                              2.Updated the breakpiont number as the code change
    │    │» d.
 94│  94│                                              3.Updated TCs 1, 2, 8, 11, 25, 27, 29~32 to delete
    │    │»  the SDD
 95│  95│                                                anchor PERF_SDD_3731_INT as per SCR 494.01.
 96│  96│                                              4.Updated as per 391.01
 97│  97│                                                A.Added TCs 62~67 to verify the SDD anchor PERF_
    │    │» SDD_08588_INT
 98│  98│                                                B.Updated TCs 1~2 to verify the SDD anchor PERF_
    │    │» SDD_07496_INT
 99│  99│                                                  completely.
100│ 100│                                              5.Updated as per 875.16
101│ 101│                                                A.Added TCs 62~64 to verify the SDD anchor PERF_
    │    │» SDD_08665.
102│ 102│                                                B.Added TCs 64~65 to verify the SDD anchor PERF_
    │    │» SDD_08666.
103│ 103│                                                C.Added TCs 63,65~67 to verify the SDD anchor PE
    │    │» RF_SDD_08667.
104│ 104│                                                D.Updated TC 7 and added TC 68 to verify the SDD
    │    │»  anchor
105│ 105│                                                  PERF_SDD_4796 completely.
106│ 106│                                              6.Updated as per 870.01
107│ 107│                                                A.Updated TCs 19~21 and added TCs 69~72 to verif
    │    │» y the SDD
108│ 108│                                                  anchor PERF_SDD_4600 completely.
109│ 109│
110│ 110│                      Feb-19-2012    3149.08    Hao Zhilian    Rework for A350 S1.1 on build A01187.
111│ 111│                                              1.Added SRD anchor PERF_SRD_23774 and updated TCs
    │    │» 63, 65~67
112│ 112│                                                to trace PERF_SDD_08667 to PERF_SRD_23774 under
    │    │» SCR 875.15.
113│ 113│                                              2.Modified the description of TCs 7, 19~21 and 68~
    │    │» 72.
114│ 114│                                              3.Modified TC 70 to verify PERF_SDD_4600 completel
    │    │» y.
115│ 115│
116│ 116│                      3-July-2012    4418.03    Sun Likun      Updated for A350 S2 Baseline on bulid A01256.
117│ 117│                                              1.Updated the SDD/SRD generation as following:
118│ 118│                                                11_2_1_10.SRD ; 4->7
119│ 119│                                                PERF_BACKGROUND_EXEC.SDD; 38->50
120│ 120│                                              2.Added SRD anchor PERF_SRD_23964, PERF_SRD_23965,
    │    │»
121│ 121│                                                PERF_SRD_24100 to trace to PERF_SDD_0409 under S
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
              » CR 2889.04.
122  122                                                              3.Update breakpoints as per code changed.
123  123                          12-July-2012      4418.03      Sun Likun      Rework after HTS-C review.
124  124                                                              1.Updated 11_2_1_10.SRD generation in SDD/SRD DETA
              » ILS.
125  125
126  126                          20-Nov-2012       5391.10      Dun Qing    Updated for A350 S2 on build A01283.
127  127                                                              1.Updated the SDD/SRD generation as following:
128  128                                                                 11_2_1_1.SRD  ; 18 -> 26
129  129                                                                 11_2_1_8.SRD  ; 8 -> 9
130  130                                                                 11_2_1_1_7.SRD; 7 -> 19
131  131                                                                 11_2_1_13.SRD ; 15 -> 18
132  132                                                                 11_3_5_1.SRD  ; 14 -> 23
133  133                                                                 11_2_2.SRD    ; 18 -> 24
134  134                                                                 11_2_9.SRD    ; 7 -> 8
135  135                                                                 11_21_6.SRD   ; 9 -> 11
136  136                                                                 11_2_1_11.SRD ; 4 -> 7
137  137                                                                 11_2_1_9.SRD  ; 7 -> 10
              »
138  138                                                                 PERF_BACKGROUND_EXEC.SDD; 50 -> 66
139  139                                                              Added the SDD/SRD generation as following:
140  140                                                                 11_1.SRD
141  141                                                              2.Updated the breakpiont number as the code change
              » d.
142  142                                                              3.Updated SUT_VARS and NOTES
143  143                                                              4.Updated as per 3652.00
144  144                                                                A.Added TCs 73~78 and Updated TC 39 to verify th
              » e SDD anchor PERF_SDD_09063
145  145                                                                B.Added TCs 73~74 to verify the SDD anchor PERF_
              » SDD_09064
146  146                                                                C.Added TCs 73 and Updated TCs 9,39,40 to verify
              »  the SDD anchor PERF_SDD_08226
147  147                                                                D.Added following SRD anchor:
148  148                                                                   PERF_SRD_2801, PERF_SRD_23365, PERF_SRD_23455
              » ,
149  149                                                                   PERF_SRD_23478, PERF_SRD_23491,PERF_SRD_23503
              » _INT,
150  150                                                                   PERF_SRD_2489
151  151                                                                 Added following SDD anchor:
152  152                                                                   PERF_SDD_09063, PERF_SDD_09064
153  153                                                                 Removed following trace links:
154  154                                                                   PERF_SDD_08226 -->   PERF_SRD_10721
155  155                                                                   PERF_SDD_08226 -->   PERF_SRD_23549
156  156                                                                 Added following trace links:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
157  157                                              PERF_SDD_08226 --> PERF_SRD_2801
158  158                                              PERF_SDD_08226 --> PERF_SRD_23365
159  159                                              PERF_SDD_08226 --> PERF_SRD_23455
160  160                                              PERF_SDD_09063 --> PERF_SRD_23478
161  161                                              PERF_SDD_09063 --> PERF_SRD_23491
162  162                                              PERF_SDD_09064 --> PERF_SRD_23503_INT
163  163                                              PERF_SDD_09064 --> PERF_SRD_2489
164  164                                           5.Updated as per 5637.01
165  165                                             A.Added TCs 73~74 and Modified TC 68 to verify t
        » he SDD anchor PERF_SDD_0409.
166  166                                             B.Removed trace link PERF_SDD_0409 --> PERF_SRD_
        » 23964
167  167                                           6.Updated as per 5309.02
168  168                                             A.Added TC 73 to verify the SDD anchor PERF_SDD_
        » 4155_INT
169  169
170  170                  26-Nov-2012     5391.10     Dun Qing       Rework after HTSC inspection.
171  171                                             1.Modified the description of TCs 1,2,39,40,68,73,
        » 74
172  172
173  173                  17-Jul-2013     7226.01     Jiang Xiaomin    Updated for A350 S3 on build A01344.
174  174                                             1.Updated the SDD/SRD generation as following:
175  175                                                11_2_1_1.SRD  ; 26 -> 28
176  176                                                11_2_1_8.SRD  ; 9 -> 15
177  177                                                11_2_8_1.SRD  ; 8 -> 11
178  178                                                11_2_1_1_7.SRD; 19 -> 20
179  179                                                11_2_1_13.SRD ; 18 -> 20
180  180                                                11_3_5_1.SRD  ; 23 -> 30
181  181                                                11_2_2.SRD    ; 24 -> 27
182  182                                                11_20_3.SRD   ; 4 -> 5
183  183                                                11_1_6.SRD    ; 2 -> 3
184  184                                                11_2_1_10.SRD ; 7 -> 14
185  185                                                11_2_1_6.SRD  ; 6 -> 7
186  186                                                11_2_1_7.SRD  ; 6 -> 10
187  187                                                11_2_1_9.SRD  ; 10 ->20
188  188                                                11_1.SRD   ;  32 ->37
189  189                                                PERF_BACKGROUND_EXEC.SDD; 66 -> 91
190  190                                             2.Updated the breakpiont number as the code chan
        » ged.
191  191                                             3.Added the TC83_85 to verify the ANCHOR PERF_SD
        » D_0409 completely
192  192                                                as per scr 5970.01&3184.02&7649.01.
193  193                                             4.Updated the TC73 to verify the ANCHOR PERF_SDD
        » _4155_INT completely
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
194│194│                                                                         as per scr 7665.03&7649.01.
195│195│                                                            5.Updated the TC7&68 to verify the ANCHOR PERF_S
       │» DD_4796 completely
196│196│                                                              as per scr 3184.02.
197│197│                                                            6.Updated the TC73_79 and added the TC80_82 to v
       │» erify the ANCHOR
198│198│                                                              PERF_SDD_09063 completely as per scr 7191.00.
199│199│                                                            7.Added the anhor PERF_SRD_6005_INT and trace to
       │»  related TCs
200│200│                                                              as per scr 3184.01.
201│201│                                                            8.Corrected the input of TC19_21&68_72.
202│202│
203│203│                        23-Aug-2013      7226.01     Jiang Xiaomin       Rework after HTSC inspection.
204│204│                                                            1.Corrected he previous histroy.
205│205│                                                            2.Corrected the TC7 for mistake.
206│206│                                                            3.Removed the TC79 for duplicated and corrected
       │» the TC80's description.
207│207│
208│208│                        11-Sep-2013      7854.01     Ye Lin              Updated for A350 S3 on build A01365.
209│209│                                                            1.Updated the SDD/SRD generation as following:
210│210│                                                              11_2_1_1.SRD  ; 28 -> 29
211│211│                                                              11_3_5_1.SRD  ; 30 -> 33
212│212│                                                              11_1.SRD      ;  37 -> 43
213│213│                                                              PERF_BACKGROUND_EXEC.SDD; 91 -> 96
214│214│                                                            2.Updated the breakpiont number as the code chan
       │» ged.
215│215│                                                            3.Updated as per SCR 7708.01
216│216│                                                             A.Changed PERF_SDD_07540_INT to PERF_SDD_07540.
217│217│                                                            4.Updated as per SCR 7854.01
218│218│                                                             A.Modified TCs 8,34~38 as per SDD PERF_SDD_2249
       │» _INT
219│219│                                                               is updated.
220│220│                                                             C.Added TCs 85~95 as per SDD PERF_SDD_2249_INT
       │» is updated.
221│221│
222│222│                        09-Oct-2013      7854.01     Ye Lin              Rework after HTSC inspection.
223│223│                                                            1. Modified the previous history.
224│224│
225│225│                        15-Oct-2013      7854.01     Ye Lin              Rework after self-review.
226│226│                                                            1. Deleted PERF_SRD_10721 because it do not need
       │»  to be tested here.
227│227│
   │228│                        26-Dec-2013      8073.01     Lin Ye              Updated for A350 phase 5 on build A01418.
   │229│                                                            1. Updated the SDD/SRD generation as following:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

	230	11_2_2.SRD ; 27 -> 29
	231	11_2_9.SRD ; 8 -> 10
	232	PERF_BACKGROUND_EXEC.SDD; 96 -> 103
	233	2. Updated breakpoint for TCs 1~6,8~10,14,15,17, » 18,22~24,26,28~34,39,40,59~61,73~79,82~84.
	234	3. Updated as per SCR# 8053.01:
	235	A. Added TCs 96~99 as PERF_SDD_09201_INT is add » ed.
	236	
228	237	SRD/SDD DETAILS : 11_2_1_1.SRD ; 29
229	238	11_2_1_8.SRD ; 15
230	239	11_2_8_1.SRD ; 11
231	240	11_2_1_1_7.SRD; 20
232	241	11_2_1_13.SRD ; 20
233	242	11_5_1.SRD ; 6
234	243	11_3_5_1.SRD ; 33
235		11_2_2.SRD ; 27
236		11_2_9.SRD ; 8
	244	11_2_2.SRD ; 29
	245	11_2_9.SRD ; 10
237	246	11_20_3.SRD ; 5
238	247	11_21_6.SRD ; 11
239	248	11_21_5.SRD ; 3
240	249	11_21_7.SRD ; 3
241	250	11_2_8_2.SRD ; 3
242	251	11_1_6.SRD ; 3
243	252	11_2_1_10.SRD ; 14
244	253	11_2_1_11.SRD ; 7
245	254	11_2_1_5.SRD ; 6
246	255	11_2_1_6.SRD ; 7
247	256	11_2_1_7.SRD ; 10
248	257	11_2_1_9.SRD ; 20
249		11_1.SRD ; 43
250		PERF_BACKGROUND_EXEC.SDD; 96
	258	11_1.SRD ; 43
	259	PERF_BACKGROUND_EXEC.SDD; 103
251	260	PERF_ADS.SDD ; 6
252	261	
253	262	TRACE DETAILS :
254	263	ANCHOR : A350_PERF_TEST_2401
255	264	
256	265	SOURCE : SDD; PERF_SDD_0410, PERF_SDD_0412_INT, PERF_SDD_3317_INT, PERF_SDD_4778_INT, PERF_ » SDD_4779_INT,
257	266	PERF_SDD_0417_INT, PERF_SDD_3681_INT, PERF_SDD_3682_INT, PERF_SDD_4780_INT, P

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
             » ERF_SDD_4795,
  258   267                                  PERF_SDD_0418_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT, PERF_SDD_4794_INT,
  259   268                                  PERF_SDD_2852_INT, PERF_SDD_2853_INT, PERF_SDD_2249_INT, PERF_SDD_2276_INT, P
             » ERF_SDD_4796,
  260   269                                  PERF_SDD_3482_INT, PERF_SDD_2293_INT, PERF_SDD_3053_INT, PERF_SDD_3055_INT,
  261   270                                  PERF_SDD_3105, PERF_SDD_0409, PERF_SDD_2123_INT, PERF_SDD_07919, PERF_SDD_079
             » 56,
  262   271                                  PERF_SDD_4155_INT, PERF_SDD_4327, PERF_SDD_3746_INT, PERF_SDD_3718,
  263   272                                  PERF_SDD_3887, PERF_SDD_4328, PERF_SDD_4339,
  264   273                                  PERF_SDD_5585, PERF_SDD_4600, PERF_SDD_5607_INT, PERF_SDD_5608_INT,
  265   274                                  PERF_SDD_5610_INT, PERF_SDD_5611_INT, PERF_SDD_07160_INT, PERF_SDD_07169_INT,
  266   275                                  PERF_SDD_07188_INT, PERF_SDD_07496_INT, PERF_SDD_07497_INT, PERF_SDD_07498_IN
             » T,
  267   276                                  PERF_SDD_07499_INT, PERF_SDD_07500_INT, PERF_SDD_07501_INT, PERF_SDD_07502_IN
             » T,
  268   277                                  PERF_SDD_07503_INT, PERF_SDD_07504_INT, PERF_SDD_07505_INT, PERF_SDD_07506,
  269   278                                  PERF_SDD_3888_INT, PERF_SDD_07540,
  270   279                                  PERF_SDD_07542_INT, PERF_SDD_07543_INT, PERF_SDD_07544_INT, PERF_SDD_07545_IN
             » T,
  271   280                                  PERF_SDD_07546_INT, PERF_SDD_07547_INT, PERF_SDD_07548_INT, PERF_SDD_07549,
  272   281                                  PERF_SDD_5609_INT, PERF_SDD_07495_INT, PERF_SDD_08158_INT, PERF_SDD_08171_INT
             » ,
  273   282                                  PERF_SDD_08159_INT, PERF_SDD_08225_INT, PERF_SDD_08227_INT, PERF_SDD_08226,
  274   283                                  PERF_SDD_08588_INT, PERF_SDD_08665, PERF_SDD_08666, PERF_SDD_08667,
  275                                        PERF_SDD_09063, PERF_SDD_09064,
        284                                  PERF_SDD_09063, PERF_SDD_09064, PERF_SDD_09201_INT
  276   285
  277   286                          SRD; PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_IN
             » T,
  278   287                                  PERF_SRD_10200_INT, PERF_SRD_12371_INT, PERF_SRD_1554_A3XX,
  279   288                                  PERF_SRD_1919, PERF_SRD_6057, PERF_SRD_8964_INT, PERF_SRD_1592,
  280   289                                  PERF_SRD_8976_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT,
  281   290                                  PERF_SRD_12437, PERF_SRD_12370_INT, PERF_SRD_12404,
  282   291                                  PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR,
  283   292                                  PERF_SRD_12517_DR, PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT,
  284   293                                  PERF_SRD_1584_A3XX, PERF_SRD_12409_INT, PERF_SRD_1358,
  285   294                                  PERF_SRD_9587, PERF_SRD_9656_INT, PERF_SRD_6192, PERF_SRD_6012, PERF_SRD_1590
             » ,
  286   295                                  PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT,
  287   296                                  PERF_SRD_12670_INT, PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_IN
             » T,
  288   297                                  PERF_SRD_23387, PERF_SRD_23549, PERF_SRD_23775, PERF_SRD_23964, PERF_SRD_2396
             » 5,
  289   298                                  PERF_SRD_24100, PERF_SRD_23455, PERF_SRD_23478, PERF_SRD_23491, PERF_SRD_2350
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
            »  3_INT
 290    299                                          PERF_SRD_23365,PERF_SRD_2489,PERF_SRD_2801, PERF_SRD_6005_INT
            »
 291    300
 292    301  *****************************************************************************************************************
            »  *****
 293    302  INITIALIZATIONS:
 294    303
 295    304  FP_DEF_TOL = 0.001
 296    305
 297    306  define symbol True                                  := Standard.True
 298    307  define symbol False                                 := Standard.False
 299    308  define symbol Engoutnotval                          := Perf_Int_Base_Tpkg.Engoutnotval
 300    309  define symbol Nopreds                               := Perf_Int_Base_Tpkg.Nopreds
 301    310  define symbol Prdstodest                            := Perf_Int_Base_Tpkg.Prdstodest
 302    311  define symbol Preflight                             := base_domain_services_tpkg.Preflight
 303    312  define symbol Takeoff                               := base_domain_services_tpkg.Takeoff
 304    313  define symbol Cruise                                := base_domain_services_tpkg.Cruise
 305    314  define symbol Descent                               := base_domain_services_tpkg.Descent
 306    315  define symbol Approach                              := base_domain_services_tpkg.Approach
 307    316  define symbol Goaround                              := base_domain_services_tpkg.Goaround
 308    317  define symbol Climb                                 := base_domain_services_tpkg.Climb
 309    318  define symbol Altpln                                := Perf_Int_Base_Tpkg.Altpln
 310    319  define symbol No_Itinerary                          := Perf_Int_Base_Tpkg.No_Itinerary
 311    320  define symbol Fuel_Plan_Fpln_Preds                  := Perf_Int_Base_Tpkg.Fuel_Plan_Fpln_Preds
 312    321  define symbol Secondary                             := Fprequestrec_Types.Secondary
 313    322  define symbol Secondary2                            := Fprequestrec_Types.Secondary2
 314    323  define symbol Secondary3                            := Fprequestrec_Types.Secondary3
 315    324  define symbol Is_Active                             := Perf_Int_Base_Tpkg.Is_Active
 316    325  define symbol Indep_From_Active                     := Perf_Int_Base_Tpkg.Indep_From_Active
 317    326  define symbol Valid                                 := Io_interface_tpkg.Entry_Stat_Type'(Io_interface_tpkg.Valid)
 318    327  define symbol Invalid                               := Io_interface_tpkg.Entry_Stat_Type'(Io_interface_tpkg.Invalid)
 319    328  define symbol Fuel_Plan_Stage1                      := Perf_Int_Base_Tpkg.Fuel_Plan_Stage1
 320    329  define symbol Active                                := Fprequestrec_Types.Active
 321    330  define symbol Temporary                             := Fprequestrec_Types.Temporary
 322    331  define symbol Prim_Fpln_Preds                       := Perf_Int_Base_Tpkg.Prim_Fpln_Preds
 323    332  define symbol Current_Mode_Preds                    := Perf_Int_Base_Tpkg.Current_Mode_Preds
 324    333  define symbol Current_Mode_Hi_Pri                   := Perf_Int_Base_Tpkg.Current_Mode_Hi_Pri
 325    334  define symbol Pred_To_Alt_Preds                     := Perf_Int_Base_Tpkg.Pred_To_Alt_Preds
 326    335  define symbol Fuel_Plan_Stage2                      := Perf_Int_Base_Tpkg.Fuel_Plan_Stage2
 327    336  define symbol Cas                                   := Fmcs_Base_Types.Cas
 328    337  define symbol Nopath                                := Perf_Despath_Tpkg.Nopath
 329    338  define symbol Onpath                                := Perf_Despath_Tpkg.Onpath
 330    339  define symbol INVALIDPATH                           := Perf_Despath_Tpkg.INVALIDPATH
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
331    340 define symbol Zeroab                              := Perf_Int_Base_Tpkg.Zeroab
332    341 define symbol Fullab                              := Perf_Int_Base_Tpkg.Fullab
333    342 define symbol Clb_Spdlim                          := Perf_Buffer_Types.Clb_Spdlim
334    343 define symbol Clean                               := Perf_Config_Dpkg.Clean
335    344 define SYMBOL Copy_From_Active                    := Perf_Int_Base_Tpkg.Copy_From_Active
336    345 define SYMBOL No_Preds                            :=  Perf_Int_Base_Tpkg.No_Preds
337    346 define symbol Noise_End_Alt_Status := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
            » _Status"
338    347 define symbol Noise_Speed_Val       := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_V
            » al"
339    348 define Symbol Noise_TSPD            := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_TSPD"
340    349 define symbol Noise_End_Alt         := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
            » "
341    350 define symbol Noise_Speed           := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed"
342    351 define symbol Noise_Thrust          := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Thrust"
343    352 define symbol Drtnone               := Cdk_Entry_Tpkg.Climb_Thrust_Mode_Type'value("Drtnone")
344    353 define symbol Maxclb                := Cdk_Entry_Tpkg.Climb_Thrust_Mode_Type'value("Maxclb")
345    354 define SYMBOL Icaolimited           :=  Spdchgtgt_Tpkg.Icaolimited
346    355 define SYMBOL Returntoecon          :=  Spdchgtgt_Tpkg.Returntoecon
347    356 define SYMBOL Optimum_Altitude      := Perf_Int_Base_Tpkg.Optimum_Altitude
348    357
349    358 SUT_VARS
350    359 -- enumeration types
351    360 Clb_Spdlim
352    361 True
353    362 False
354    363 Engoutnotval
355    364 Nopreds
356    365 Prdstodest
357    366 Preflight
358    367 Takeoff
359    368 Cruise
360    369 Goaround
361    370 Climb
362    371 Altpln
363    372 Fuel_Plan_Fpln_Preds
364    373 Fuel_Plan_Stage1
365    374 Active
366    375 Prim_Fpln_Preds
367    376 Current_Mode_Preds
368    377 Current_Mode_Hi_Pri
369    378 Pred_To_Alt_Preds
370    379 Is_Active
371    380 Indep_From_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
372     381 | Secondary
373     382 | Secondary2
374     383 | Secondary3
375     384 | Valid
376     385 | Invalid
377     386 | Perf_Ext_Tpkg.Vmnone
378     387 | Perf_Ext_Tpkg.Vmspd
379     388 | Perf_Ext_Tpkg.Vmecon
380     389 | Perf_Ext_Tpkg.Vmexped
381     390 | Nopath
382     391 | Onpath
383     392 | INVALIDPATH
384     393 | Zeroab
385     394 | Fullab
386     395 | Descent
387     396 | Approach
388     397 | Cas
389     398 | No_Itinerary
390     399 | Copy_From_Active
391     400 | Noise_End_Alt_Status
392     401 | Noise_Speed_Val
393     402 | No_Preds
394     403 | Temporary
395     404 | Noise_TSPD
396     405 | Optimum_Altitude
397     406 |
398     407 | -- variables
399     408 | Perf_Background_Dpkg.Psgw
400     409 | Perf_Background_Dpkg.Pcgwind
401     410 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
402     411 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
403     412 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
404     413 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
405     414 | Perf_Background_Dpkg.Pcactorsec
406     415 | Perf_Background_Dpkg.Psignorehm
407     416 | Perf_Background_Dpkg.Pcfltphase
408     417 | Perf_Background_Dpkg.Psairborne
409     418 | Perf_Background_Dpkg.Psautolat
410     419 | Perf_Background_DPkg.Psengout
411     420 | Perf_Background_Dpkg.Dest_Wind_Components.Dest_Wind_Valid
412     421 | Perf_Background_Dpkg.Dest_Wind_Components.Psvcdu
413     422 | Perf_Background_Dpkg.Dest_Wind_Components.Psvcdy
414     423 | Perf_Retained_Dpkg.Psvcdu(Active).Valid
415     424 | Perf_Retained_Dpkg.Psvcdu(Active).Data
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
416    425  Perf_Retained_Dpkg.Psvcdy(Active).Data
417    426  Cdk_Vert_Dpkg:Body.Engine_Out_I
418    427  Perf_Background_Dpkg.Psacalt
419    428  Perf_Background_Dpkg.Pstropoalt
420    429  Perf_Background_DPkg.Pshmdecel
421    430  Perf_Background_Dpkg.Pcholdflags.Hmdecel
422    431  Perf_Background_Dpkg.Pcholdflags.Hmactive
423    432  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
424    433  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
425    434  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
426    435  Perf_Background_Dpkg.Pcholdflags.Hmdistval
427    436  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
428    437  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
429    438  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
430    439  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
431    440  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
432    441  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
433    442  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
434    443  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
435    444  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
436    445  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
437    446  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
438    447  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
439    448  Perf_Background_Dpkg.Psappspdlat
440    449  Perf_Dpkg.Pcengoutprds
441    450  Fmcs_Base_Types.Mach
442    451  Perf_Background_Dpkg.Pcpathref
443    452  Perf_Background_DPkg.Pscurcas
444    453  Perf_Background_DPkg.Pscurmach
445    454  Perf_Background_DPkg.Pscurtas
446    455  Perf_Background_Dpkg.Pstogwtval
447    456  Perf_Background_Dpkg.Pstogwt
448    457  Perf_Dpkg.Gross_Weight.Data
449    458  Perf_Dpkg.takeoff_gwt.valid
450    459  perf_dpkg.takeoff_gwt.data
451    460  Guid_Ext_Dpkg.Va3Vertmde
452    461  Perf_Background_Dpkg.Pcacconfig
453    462  Perf_Background_Dpkg.Psstpclbact
454    463  Perf_Background_Dpkg.Psstpdesact
455    464  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
456    465  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
457    466  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
458    467  Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid
459    468  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
460 | 469 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid
461 | 470 | Perf_Background_Dpkg.Pcprebcalt.Valid
462 | 471 | Perf_Background_Dpkg.Pcgmttime.Hour
463 | 472 | Perf_Background_Dpkg.Pcgmttime.Minute
464 | 473 | Perf_Background_Dpkg.Pcgmttime.Second
465 | 474 | Perf_Background_Dpkg.Psinertvs
466 | 475 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
467 | 476 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
468 | 477 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
469 | 478 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
470 | 479 | Perf_Ads_Dpkg.Ii_Enabled
471 | 480 | Perf_Ads_Dpkg.Fi_Enabled
472 | 481 | Perf_Ads_Dpkg.Pr_Enabled
473 | 482 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
474 | 483 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
475 | 484 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
476 | 485 | Perf_Integration_Dpkg.Psoldnoentgt
477 | 486 | Perf_Background_Dpkg.Pcoldcasmchi
478 | 487 | Perf_Dpkg.Gross_Weight.Status
479 | 488 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
480 | 489 | Perf_Background_Dpkg.Pcspeedmode
481 | 490 | Perf_Integration_Dpkg.Pcairbrakes
482 | 491 | Perf_Database_Dpkg.Psmmo
483 | 492 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds()().Valid
484 | 493 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds()().Cas
485 | 494 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds()().Mach
486 | 495 | Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds().Valid
487 | 496 | Perf_Background_Dpkg.Pszfw
488 | 497 | Perf_Background_DPkg.Psblockfuel
489 | 498 | Perf_Background_Dpkg.Pstaxifuel
490 | 499 | Perf_Dpkg.Min_Gwt
491 | 500 | Perf_Dpkg.Max_Gwt
492 | 501 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
493 | 502 | Perf_Background_Dpkg.Ats_Enable
494 | 503 | ATC_DISCRETES_PKG:body.Adson_Flag
495 | 504 | Guid_Ext_Dpkg.Gcxxlatautoc
496 | 505 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
497 | 506 | CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
498 | 507 | Perf_Dpkg.Repredict_Hm_Decel
499 | 508 | Perf_Background_Dpkg.Psgetout
500 | 509 | Perf_Background_Dpkg.Ref_Flight_Plan
501 | 510 | Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid
502 | 511 | Clean
503 | 512 | Perf_Background_Dpkg.Pscrzalt.Valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
504 | 513 | Perf_Background_Dpkg.Adc_Fg_Valid
505 | 514 | Prf_Bkgnd_Pkg:body.Fgspdsvalid
506 | 515 | Perf_Background_Dpkg.Pccuraltcstr.Valid
507 | 516 | Perf_Speeds()().Valid
508 | 517 | Perf_Speeds()().Cas
509 | 518 | Perf_Speeds()().Mach
510 | 519 | Requested_Pred_Route
511 | 520 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
512 | 521 | Perf_Background_Dpkg.Psenginesoff
513 | 522 | Takeoff_Alt_Types.Active
514 | 523 | Takeoff_Alt_Types.Inactive
515 | 524 | CTP_A350_PERF_BKGND_GET_BK_DATA.DAta_set
516 | 525 | CTP_A350_PERF_BKGND_GET_BK_DATA.DAta_set_valid
517 | 526 | Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status
518 | 527 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid
519 | 528 | Perf_Background_Dpkg.Noise_Data.Speed.Valid
520 | 529 | CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
521 | 530 | Perf_Background_Dpkg.Pcitin.Itinerary
522 | 531 | Perf_Background_Dpkg.Pcitin.Flight_Plan
523 | 532 | system'address
524 | 533 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1
525 | 534 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.FRAME_120_Disc_Word_3.Final_Descent_Mode_Active
526 | 535 | Io_Adc_Sel_Pkg.The_Selected_Adc
527 | 536 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat
528 | 537 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
529 | 538 |
530 | 539 | Io_IRS_Sel_Pkg.The_Selected_IRS
531 | 540 | Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed
532 | 541 | Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai
533 | 542 | Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai
534 | 543 | Perf_Background_Dpkg.Ac_Bleeds.Air_Cond
535 | 544 | Perf_Background_Dpkg.Ac_Anti_Ice
536 | 545 | Prf_Bkgnd_Pkg:BODY.Valcrzalt
537 | 546 | Perf_Background_Dpkg.Flight_Plan_Type
538 | 547 | Noise_Abate_Data
539 | 548 | Noise_Abate_Data.NOISE_SPEED
540 | 549 | Noise_Abate_Data.Noise_Speed_Val
541 | 550 | Noise_Abate_Data.Noise_End_Alt
542 | 551 | Noise_Abate_Data.Default_Noise_Spd
543 | 552 | Noise_Abate_Data.Default_Noise_Spd_Val
544 | 553 | Noise_Abate_Data.Noise_Thrust
545 | 554 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).NOISE_SPEED
546 | 555 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
547 | 556 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
548    557  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noise_Spd
549    558  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noise_Spd_Val
550    559  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Thrust
551    560  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.PRIM_Voted_Inertial_Vert_Speed
552    561  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
553    562  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
554    563  Perf_Background_Dpkg.Psorgalt
555    564  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
556    565  Perf_Background_Dpkg.Flex_Isadev.Data
557    566  Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
558    567  Curacalt
559    568  Engine_Out_I
560    569  Guid_Ext_Dpkg.Noise_Thrust_Target
561    570  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target
562    571  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.valid
563    572  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
564    573  Guid_Ext_Dpkg.Noise_Thrust_Target.Valid
565    574  Perf_Background_Dpkg.Noise_Data.Tspd
566    575  Perf_Background_Dpkg.Noise_Data.Ramping
567    576  Perf_Background_Dpkg.Noise_Data.Tspd.Data
568    577  Perf_Background_Dpkg.Noise_Data.Tspd.Valid
569    578  Perf_Background_Dpkg.Noise_Data.Altitude.Data
570    579  Perf_Background_Dpkg.Noise_Data.Speed.Data
571    580  Thredalt.Data(Fprequestrec_Types.Takeoff).Altitude
572    581  Rwy_Temp
573    582  Cdk_Entry_Tpkg.Drt1
574    583  Perf_Background_Dpkg.Noise_Data.Thrust
575    584  Drtnone
576    585  Maxclb
577    586  Navigation_Data.Aircraft_Altitude
578    587  Perf_Dpkg.Pshmdeleted
579    588  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
580    589  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
581    590  Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
582    591  Perf_Background_Dpkg.Pcacposn.Data.Lat
583    592  Perf_Background_Dpkg.Pcacposn.Data.Lon
584    593  Perf_Background_Dpkg.Pcacposn.Valid
585    594  Perf_Background_Dpkg.Pstruetrack
586    595  Perf_Background_Dpkg.Pswindbrg
587    596  Perf_Background_Dpkg.Pswindmag
588    597  Perf_Background_Dpkg.Pswindval
589    598  Fmcs_Partition_Data_Pkg.Ops_Time.Hour
590    599  Fmcs_Partition_Data_Pkg.Ops_Time.Minute
591    600  Fmcs_Partition_Data_Pkg.Ops_Time.Second
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
592   601 Airborne_Dat
593   602 Perf_Dpkg.Psnumengout
594   603 Perf_Background_Dpkg.Psvgonpath
595   604 Perf_Background_Dpkg.Pscrzalt.data
596   605 Perf_Background_Dpkg.Psfinaldes
597   606 Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
598   607 Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
599   608 Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type
600   609 Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident
601   610 Perf_Background_Dpkg.Speed_Annunciation.Cas
602   611 Perf_Background_Dpkg.Speed_Annunciation.Alt
603   612 Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type
604   613 Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident
605   614 Vg_Ext_Tpkg.Clb_Spd_Lim
606   615 Vg_Ext_Tpkg.Des_Spd_Lim
607   616 Vg_Ext_Tpkg.Invalid
608   617 Computoldtgt
609   618 Curspdsval
610   619 Perf_Background_Dpkg.Psfirstpass
611   620 Perf_Background_Dpkg.Psonofrstpas
612   621 Perf_Background_Dpkg.Psftpbwritok
613   622 Perf_Background_Dpkg.Psvsact
614   623 Perf_Background_Dpkg.Psfpaact
615   624 Perf_Background_Dpkg.Pslvlatbcalt
616   625 Perf_Integration_Dpkg.Pslvlblwpth
617   626 Perf_Background_Dpkg.Psfi_Possble
618   627 Perf_Background_Dpkg.On_Icao_Leg_Decel
619   628 Perf_Integration_Dpkg.Pcoldwspdchg
620   629 Get_Maxop_Delta_Called
621   630 Get_Def_Thrust_Reduction_Alt_Called
622   631 Get_Cruise_Alt_Called
623   632 Get_Ac_Config_Called
624   633 Icaolimited
625   634 Returntoecon
626   635 Perf_Background_Dpkg.Psacaltv
627   636 Perf_Background_Dpkg.Pstruetrkv
628   637 Perf_Background_Dpkg.Psvgrnd
629   638 Perf_Background_Dpkg.Psvgrndval
630   639 Eng_Healthy1_Inboard
631   640 Eng_Healthy1_Outboard
632   641 Eng_Healthy2_Inboard
633   642 Eng_Healthy2_Outboard
634   643 Tla_Ecu1_Inboard.Data
635   644 Tla_Ecu1_Inboard.Valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
636    645  Tla_Ecu1_Outboard.Data
637    646  Tla_Ecu1_Outboard.Valid
638    647  Tla_Ecu2_Inboard.Data
639    648  Tla_Ecu2_Inboard.Valid
640    649  Tla_Ecu2_Outboard.Data
641    650  Tla_Ecu2_Outboard.Valid
642    651  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.PRIM_Voted_Inertial_Vert_Speed
643    652  Perf_Dpkg.Pcdelspdrec.Predicted
644    653  Perf_Background_Dpkg.Pcoldeconcas.Valid
645    654  Perf_Background_Dpkg.Vman_Fe.Data
646    655  Perf_Background_Dpkg.Vman_Fe.Valid
647    656  Adc_In_Range
648    657  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
649    658  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
650    659  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
651    660
652    661  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side1
653    662  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side2
654    663  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1
655    664  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2
656    665
657    666  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target
658    667  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
659    668  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
660    669  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
661    670  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
662    671  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
663    672  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
664    673  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
665    674  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target
666    675  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target
667    676  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target
668    677  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
669    678  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
670    679  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side1
671    680  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side2
672    681  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_1_Inboard
673    682  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5
674    683  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_2_Inboard
675    684  Perf_Background_Dpkg.Pcpredcount()
676    685  Perf_Dpkg.Psfrstactprd
677    686  Perf_Background_Dpkg.Psfpatgt
678    687  Machmode
679    688  Perf_Background_Dpkg.Pcmanspd.Speed.CAS
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
680    689  Perf_Background_Dpkg.Pcmanspd.CASVALID
681    690  Perf_Background_Dpkg.Pcmanspd.Speed.MACH
682    691  Perf_Background_Dpkg.Pcmanspd.MACHVALID
683    692  Perf_Background_Dpkg.Pccuraltcstr.Data
684    693  Perf_Background_Dpkg.Pccuraltcstr.Legidx
685    694  Perf_Background_Dpkg.Pccuraltcstr.Lgidval
686    695  Perf_Background_Dpkg.Pccuraltcstr.Usevga
687    696  Perf_Background_Dpkg.Pccuraltcstr.Vgaidx
688    697  Perf_Background_Dpkg.Pcprebcalt.Data
689    698  Perf_Background_Dpkg.Pc3rdalt.Data
690    699  Perf_Background_Dpkg.Pc3rdalt.Valid
691    700  Perf_Background_Dpkg.Pslcautoctl
692    701  Perf_Background_Dpkg.Vert_Auto_Mode
693    702  Perf_Background_Dpkg.Psgrndotdes
694    703  Perf_Background_Dpkg.Psdestqnh.Valid
695    704  Perf_Background_Dpkg.Pcdestglidx
696    705  Perf_Background_Dpkg.Psdestqnh.Data
697    706  Perf_Background_Dpkg.Pcvertmode
698    707  Perf_Background_Dpkg.Pcspdtgttag
699    708  Perf_Background_Dpkg.Psspdtarget
700    709  Perf_Int_Base_Tpkg.Openclb
701    710  Perf_Int_Base_Tpkg.Econo
702    711  Perf_Integration_Dpkg.Psvstgt
703    712  Perf_Dpkg.Pcfirstpred()
704    713  Guid_Spds_Dpkg.Vc3prtlimcas
705    714  Perf_Background_Dpkg.Psrtrntocas
706    715  Perf_Background_Dpkg.Pslimited
707    716  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
708    717  Perf_Background_Dpkg.Pcspdchgtgt.Apply
709    718  Perf_Background_Dpkg.Lim_Max_Op_Cas
710    719  Perf_Background_Dpkg.Lim_Max_Op_Mach
711    720  CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec
712    721  Curcas
713    722  Curmach
714    723  Xoveralt
715    724  Puxoveralt_Exec
716    725  Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
717    726  Perf_Background_Dpkg.Trip_Data.FUEL
718    727  Perf_Background_Dpkg.Trip_Data.TIME
719    728  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Iienabled
720    729  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Prenabled
721    730  Data_Storage.Pctriptime(ACTIVE).FUEL
722    731  Data_Storage.Pctriptime(ACTIVE).TIME
723    732  Perf_Background_Dpkg.Psisadev
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
724   733 Guid_Ext_Dpkg.Va3lcautoctl
725   734 Perf_Dpkg.Insrt_Tmpy_Frst_Preds
726   735 Guid_Ext_Dpkg.Galxtk
727   736 Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim
728   737 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active
729   738 Perf_Background_Dpkg.Ac_Crosstrack_Error
730   739 Perf_Background_Dpkg.Early_Descent_From_Level
731   740 Perf_Background_Dpkg.Altholdmode
732   741 Perf_Background_Dpkg.Pcoptinitspd.Clb.Cas
733   742 Perf_Background_Dpkg.Pcoptinitspd.Clb.Mach
734   743 Perf_Background_Dpkg.Psecncrzmach
735   744 Perf_Background_Dpkg.Psecncrzcas
736   745 Perf_Background_Dpkg.Pcholdflags.Consider_Hm
737   746 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
738   747 Perf_Background_Dpkg.Pspressalt
739   748 Perf_Background_Dpkg.Pscurtasvalid
740   749
741   750 Perf_Background_Dpkg.Psconsider_Hm
742   751 Perf_Background_Dpkg.Pshxpxdecel
743   752 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
744   753 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach
745   754 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach
746   755 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed
747   756 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed
748   757 Fmcs_Base_Types.Cas
749   758 Perf_Background_Dpkg.Psfcuspd
750   759 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid
751   760 Perf_Background_Dpkg.Use_Clb_Autodrt
752   761 Cdk_Vert_Dpkg:body.Fpln_Data().Autoderated_Climb_Mode
753   762 Cdk_Entry_Tpkg.Auto_Derate
754   763 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
755   764 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Woendalt
756   765 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Wos
757   766 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Dtflex
758   767 Perf_Background_Dpkg.Climb_Autodrt.Delta_T_Flex
759   768 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_End_Alt
760   769 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_Slope
761   770 Cdk_Entry_Tpkg.Clb
762   771 Call_Auto_Derated_Climb_Mode
763   772 Call_Climb_Autodrt
764   773 Perf_Background_Dpkg.Psseqtoc
765   774 Fuel_Plan_Stage2
766   775 Perf_Background_Dpkg.Psv2plus10
767   776 Perf_Background_Dpkg.Psdeslimspdchg
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

768	777	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
769	778	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
770	779	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd
771	780	FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
772	781	Perf_Int_Base_Tpkg.Is_Active
773	782	
774	783	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
775	784	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
776	785	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
777	786	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
778	787	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
779	788	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Ident
780	789	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.CAS
781	790	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.REASON
782	791	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.AIRBRAKE
783	792	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.SPARE1
784	793	Perf_Integration_Dpkg.Pcspdchgident
785	794	Perf_Background_Dpkg.Pcspdchgtgt.Ident
786	795	Perf_Background_Dpkg.Pcspdchgtgt.CAS
787	796	Perf_Background_Dpkg.Pcspdchgtgt.REASON
788	797	Perf_Background_Dpkg.Pcspdchgtgt.AIRBRAKE
789	798	Perf_Background_Dpkg.Pcspdchgtgt.SPARE1
790	799	
791	800	CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
792	801	Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
793	802	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
794	803	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
795	804	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
796	805	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
797	806	Guid_Spds_Dpkg.Vc3curspds.Fltphase
798	807	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_valid
799	808	Perf_Background_Dpkg.QNH_QFE_Selected
800	809	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
801	810	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
802	811	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
803	812	
804	813	Perf_Background_Dpkg.Alt_Curr_Baro.Valid
805	814	Perf_Background_Dpkg.Secn_Fpln_Itin = false
806	815	Perf_Background_Dpkg.What_If_Preds_Enabled()
807	816	Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt().Valid
808	817	Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt().Valid
809	818	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid
810	819	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid
811	820	Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt().Data

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

812	821	Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt().Data
813	822	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data
814	823	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data
815	824	Perf_Background_Dpkg.What_If_Data.Pseudo_Button
816	825	Perf_Int_Base_Tpkg.Copy_From_Active
817	826	Navigation_Data.Aircraft_Altitude_Valid
818	827	CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Valid
819	828	CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Data
820	829	Perf_Background_Dpkg.Alt_Curr_Baro.Data
821	830	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
822	831	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid
823	832	Guid_Spds_Dpkg.Pfd_Display_Speed.Valid
824	833	Guid_Spds_Dpkg.Pfd_Display_Speed.Data
825	834	Perf_Background_Dpkg.Pfd_Display_Speed.Valid
826	835	Perf_Background_Dpkg.Pfd_Display_Speed.Data
827	836	Perf_Background_Dpkg.Clralt_Below_Des_Spd_Lim_Decel_Start
828	837	Perf_Background_Dpkg.Below_Path_Pred.Below_DSL_VS_Target
829	838	
830	839	Perf_Dpkg.Potential_To_Kinetic_Share
831	840	Perf_Dpkg.Des_Potential_To_Kinetic_Share
832	841	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass
833	842	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid
834	843	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data
835	844	Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred
836	845	Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred
837	846	Perf_Config_Dpkg.Fidconfidx
838	847	Perf_Config_Dpkg.Clean
839	848	Perf_Background_Dpkg.Pcconfig
840	849	Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd
841	850	Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment
842	851	Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol
843	852	Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance
844	853	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds().Cas
845	854	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds().Mach
846	855	Perf_Background_Dpkg.Pcsavstepcas()
847	856	Perf_Background_Dpkg.Pcsavstepmac()
848	857	Perf_Background_Dpkg.Psinstep
849	858	Perf_Background_Dpkg.Psstepcas
850	859	Perf_Background_Dpkg.Psstepmach
851	860	Perf_Background_Dpkg.Psthredalt
852	861	Perf_Background_Dpkg.Psdesthrdalt
853	862	Perf_Background_Dpkg.Tdp_Level_Seg_At_Or_Below_Clralt
854	863	Perf_Database_Dpkg.Psvmo
855	864	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Def_Thrust_Reduction_Alt_Arr().Data().Altitude

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
856   865
857   866 Perf_Get_State_Pkg_Get_State_called
858   867 Fpln_Ext_Dpkg_Get_Flight_Phase_called
859   868 Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called
860   869 Fpln_Ext_Dpkg_Get_Cruise_Alt_called
861   870 Prf_Acstate_Pkg_Get_Ac_Config_called
862   871
863   872 Perf_Background_Dpkg.Active_Start_Predcount
864   873
      874 Guid_Ext_Dpkg.Va3pathref
      875
865   876 END_SUT_VARS
866   877
867   878 DEFAULTS
868   879
869   880 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status := Takeoff_Alt_Types.Active
870   881 Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
871   882 Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
872   883 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai := False
873   884 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai   := False
874   885 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond  := False
875   886 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1 := system'address
876   887 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.FRAME_120_Disc_Word_3.Final_Descent_Mode_Active := T
          » rue
877   888 Io_Adc_Sel_Pkg.The_Selected_Adc := system'address
878   889 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat := True
879   890 Io_IRS_Sel_Pkg.The_Selected_IRS := system'address
880   891 Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed := True
881   892 Perf_Background_Dpkg.Pcactorsec := Active
882   893 CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec := False
883   894 Perf_Background_Dpkg.Psdeslimspdchg := False
884   895 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_valid := true
885   896 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=false
886   897 CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt := 100.0
887   898 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 0.0
888   899 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas :=0.0
889   900 END_DEFAULTS
890   901
891   902 -- NOTES: (1)As per anchor PERF_SDD_3746_INT, The current Step altitude is initialized to the current Cruise altitude
          » after
892   903 --        copying the trip data. This is common to all Test Cases.
893   904
894   905 ****************************************************************
895   906
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
896  907 TESTID: 1
897  908
898  909    Verify that if there is no engine out, engine-out predictions flag is set to ENGOUTNOTVAL.
899  910    PERF_SDD_0412_INT, PERF_SDD_3317_INT, PERF_SDD_0417_INT
900  911    If the current itinerary is associated with the Is_Active flight plan, or with a secondary flight plan copied
901  912    from the Is_Active, a variety of global data are retrieved which are common to both the Is_Active and secondary
902  913    predictions processes.
903  914
904  915    TO verify when the working flight plan is Is_Active , a variety of following global data  be retrieved
905  916     - A/C altitude and its validity
906  917     - A/C position
907  918     - A/C track and its validity
908  919     - A/C ground speed and its validity
909  920     - Wind bearing
910  921     - Wind magnitude
911  922     - Wind validity
912  923     - Health status of Engines (Inboard and Outboard Engines of Captain and FO)
913  924     - Throttle lever angle (Inboard and Outboard Engines of Captain and FO)
914  925     - A/C flightphase
915  926     - Clock time
916  927     - FE maneuver speed and validity
917  928     - Airborne flag
918  929       when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is true
919  930       and Perf_Background_Dpkg.Pcfltphase is not Preflight and Done;
920  931     - Lateral auto mode flag
921  932     - Current aircraft cross track error from guidance.
922  933     - Level change auto control mode flag
923  934     - Vertical auto mode flag
924  935     - Third altitude from guidance
925  936     - Current altitude constraint management related data(Pccuraltcstr) from guidance
926  937     - Previous captured barometric altitude related data (Pcprebcalt) from guidance
927  938     - A/C is descending from level segment or alt constraint (Early_Descent_From_Level) from guidance
928  939     - Engine-out flag
929  940     - Engines off status
930  941     - Number of engines out via Prf_Aeroeng_Pkg.Get_Num_Eng_Out
931  942    -when Perf_Background_Dpkg.Pcpathref is not Onpath the descent path is not be captured
932  943     - Cruise altitude from Fpln_Ext_Dpkg.Get_Cruise_Alt
933  944     - when Sel_Src_Inertial_Vert_Speed is valid, A/C inertial vertical speed is Io_Common_Irs_Dpkg.Data
934  945     - Speed mode from Guid_Ext_Dpkg.Va3vertmde
935  946     - Active Speed Restriction Annunciation from Guid_Ext_Dpkg.Active_Speed_Restriction
936  947     -  when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Activeis valid, Altitude Hold mode flag status from FMGC via th
         » e interface
937  948      - Final descent mode flag from FMGC armed or active status via the interfaces
938  949         Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Active.Data and
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

939	950	Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Armed.Data
940	951	- A/C configuration via Prf_Acstate_Pkg.Get_Ac_Config
941	952	- A/C airbrake extension indicator to zero airbrake
942	953	- Step climb & step descent active flags (Psstpclbact & Psstpdesact) are set from guidance.
943	954	- when the Engine out status and the VG indicator that Green-Dot Speed is not latched,
944	955	then the flag indicating that VG is using latched Green-Dot descent speed is not set
945	956	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
946	957	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
947	958	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
948	959	
949	960	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
950	961	working flight plan.
951	962	PERF_SDD_4328 (PERF_SRD_10166_INT)
952	963	
953	964	If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in
		» Noise Ramp
954	965	segment and no engine out condition exist then the following noise data shall be set up for background's usage:
955	966	PERF_SDD_5607_INT
956	967	
957	968	The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_A
		» lt obtained
958	969	from FPLN.
959	970	PERF_SDD_5608_INT
960	971	
961	972	Here, Cdk_Vert_Dpkg.Engine_Out indicates that there is no Engine Out.
962	973	
963	974	If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed sha
		» ll be set to
964	975	valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
965	976	PERF_SDD_5610_INT (In this TC, Noise Speed (Noise_Speed_Val) from FPLN is valid)
966	977	
967	978	The Perf_Background_Dpkg.Noise_Data.Thrust shall be set to Noise_Thrust obtained from FPLN.
968	979	PERF_SDD_5609_INT
969	980	
970	981	If Noise TSPD from FPLN is valid than the validity of Perf_Background_Dpkg.Noise_Data.TSPD shall be set to valid a
		» nd its
971	982	value is set to Noise_TSPD obtained from FPLN, otherwise its validity is set to Invalid.
972	983	PERF_SDD_5611_INT (Here Noise TSPD from FPLN is invalid.)
973	984	
974	985	*If 1. the Flex_Takeoff_Temperature validity is true,
975	986	*2. the aircraft is in Climb or below, ("below" in this testcase)
976	987	*3. the aircraft altitude is at or below thrust reduction altitude("at" in this testcase, considering tolerance
		» of 1.0 foot)
977	988	and

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
 978   989         4. there is not an engine out condition
 979   990       then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
 980   991           Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
 981   992       where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C.
 982   993       *If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
 983   994           Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
 984   995        Else
 985   996           Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
 986   997       Otherwise the Flex_Isadev value will be set to zero.
 987   998     PERF_SDD_5585(PERF_SRD_12437)
 988   999
 989  1000     The airborne flag(Psairborne) shall be set when
 990  1001        - the Is_Airborne flag from IO is valid and
 991  1002        - the current flight phase is not in preflight or done.
 992  1003     PERF_SDD_07495_INT
 993  1004
 994  1005     The ADC/FG input data validity(Adc_Fg_Valid) shall be determined from the validity of
 995  1006       - Static Air Temperature
 996  1007       - Pressure Altitude
 997  1008       - CAS, TAS, Mach (only if the aircraft is airborne) and
 998  1009     For the valid ADC/FG input data, the following data are retrieved from IO
 999  1010       - A/C Pressure altitude
1000  1011       - A/C CAS
1001  1012       - A/C Mach
1002  1013       - A/C TAS
1003  1014       - A/C Current TAS Validity
1004  1015     Also if the baro corrected altitude is valid, then the current baro corrected altitude is retrieved from IO.
1005  1016     PERF_SDD_07496_INT
1006  1017
1007  1018     The ADC range flag shall be set to true only if all of the following conditions are valid
1008  1019       - the aircraft pressure altitude is from -2000.00 ft to 50,000.00 ft.
1009  1020       - the aircraft static air temperature is from -99.00 to 80.00 Celcius
1010  1021       - the aircraft is airborne and
1011  1022       - the aircraft CAS is from 0.0 kts to 450.0 kts.
1012  1023       - the airacrft Mach is from 0.0 to 1.0 mach
1013  1024       - the aircraft TAS is at or below 599.00 kts
1014  1025       - the aircraft TAS is at or above 50.0 kts or the aircraft flight phase being takeoff or
1015  1026         before with aircraft TAS is at or above 0.0 kts
1016  1027     PERF_SDD_07497_INT
1017  1028
1018  1029     The ADC/FG input data validity shall be set based on the validity of ADC range flag.
1019  1030     PERF_SDD_07498_INT
1020  1031
1021  1032     The predicted data of delta speed record shall be reset to false.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1022    1033        The previous integration interval econ cas speed is invalidated.
1023    1034        PERF_SDD_07499_INT
1024    1035
1025    1036
1026    1037    --INPUTS
1027    1038    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
1028    1039    CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
1029    1040    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
1030    1041    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
1031    1042    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
1032    1043    CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
1033    1044    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
1034    1045    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data   := True
1035    1046    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
1036    1047    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
1037    1048
1038    1049    Perf_Dpkg.Min_Gwt := 100.0
1039    1050    Perf_Dpkg.Max_Gwt := 400.0
1040    1051    Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
1041    1052    Perf_Background_Dpkg.Ats_Enable := True
1042    1053    CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Takeoff
1043    1054    Perf_Database_Dpkg.Psmmo := 0.45
1044    1055    Perf_Background_Dpkg.Pszfw := 300.0
1045    1056    Perf_Background_Dpkg.Psblockfuel := 50.0
1046    1057    Perf_Background_Dpkg.Pstaxifuel := 25.0
1047    1058    Perf_Background_Dpkg.Psairborne := False
1048    1059    Perf_Background_Dpkg.Psautolat := True
1049    1060    Guid_Ext_Dpkg.Gcxxlatautoc := False
1050    1061    Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
1051    1062    Perf_Background_Dpkg.Psengout := True
1052    1063    Cdk_Vert_Dpkg:Body.Engine_Out_I := False
1053    1064    Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
1054    1065    Perf_Dpkg.Repredict_Hm_Decel := True
1055    1066    Perf_Background_DPkg.Pshmdecel := True
1056    1067    Perf_Background_Dpkg.Pcholdflags.Hmactive := True
1057    1068    Perf_Ads_Dpkg.Fi_Enabled := False
1058    1069    Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
1059    1070    Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
1060    1071    Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
1061    1072    Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
1062    1073    Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
1063    1074    Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
1064    1075    Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
1065    1076    Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1066 | 1077 | Perf_Background_Dpkg.Psappspdlat := True
1067 | 1078 | Perf_Dpkg.Pcengoutprds := Altpln
1068 | 1079 | Perf_Background_Dpkg.Pcpathref := Onpath
1069 | 1080 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
1070 | 1081 | Perf_Background_DPkg.Pscurcas := 5.0
1071 | 1082 | Perf_Background_DPkg.Pscurmach := 5.0
1072 | 1083 | Perf_Background_DPkg.Pscurtas := 5.0
1073 | 1084 | Perf_Background_Dpkg.Pcitin.Itinerary := No_Itinerary
1074 | 1085 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
1075 | 1086 | Perf_Background_Dpkg.Pstogwtval := False
1076 | 1087 | Perf_Background_Dpkg.Pstogwt := 50.0
1077 | 1088 | Perf_Background_Dpkg.Pcgwind := Invalid
1078 | 1089 | Perf_Background_Dpkg.Psgw := 0.0
1079 | 1090 | Perf_Dpkg.Gross_Weight.Status := Valid
1080 | 1091 | Perf_Dpkg.Gross_Weight.Data := 150.0
1081 | 1092 | Perf_Integration_DPkg.Pcairbrakes := Fullab
1082 | 1093 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
1083 | 1094 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
1084 | 1095 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
1085 | 1096 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
1086 | 1097 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
1087 | 1098 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
1088 | 1099 | Perf_Background_Dpkg.Psstpclbact := True
1089 | 1100 | Perf_Background_Dpkg.Psstpdesact := True
1090 | 1101 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
1091 | 1102 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
1092 | 1103 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
1093 | 1104 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
1094 | 1105 | Perf_Background_Dpkg.Pccuraltcstr.Valid := True
1095 | 1106 | Perf_Background_Dpkg.Pcprebcalt.Valid := True
1096 | 1107 | Perf_Background_Dpkg.Pcgmttime.Hour := 2
1097 | 1108 | Perf_Background_Dpkg.Pcgmttime.Minute := 2
1098 | 1109 | Perf_Background_Dpkg.Pcgmttime.Second := 2
1099 | 1110 | Perf_Background_Dpkg.Psinertvs := 5.0
1100 | 1111 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
1101 | 1112 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
1102 | 1113 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
1103 | 1114 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
1104 | 1115 | Perf_Ads_Dpkg.Pr_Enabled := False
1105 | 1116 | ATC_DISCRETES_PKG:body.Adson_Flag := False
1106 | 1117 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
1107 | 1118 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
1108 | 1119 | ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
1109 | 1120 | ^Noise_Speed_Val := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1110 | 1121 | ^Noise_TSPD.valid := True
1111 | 1122 | ^Noise_TSPD.Data  := 150.0
1112 | 1123 | ^Noise_End_Alt    := 300.0
1113 | 1124 | ^Noise_Speed      := 250.0
1114 | 1125 | ^Noise_Thrust     := Maxclb
1115 | 1126 | Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
1116 | 1127 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
1117 | 1128 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
1118 | 1129 | Perf_Background_Dpkg.Psorgalt := 36080.0
1119 | 1130 | Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
1120 | 1131 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
1121 | 1132 | Perf_Background_Dpkg.Noise_Data.Speed.Data := 0.0
1122 | 1133 | Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
1123 | 1134 | Perf_Background_Dpkg.Noise_Data.Tspd.Data  := 0.0
1124 | 1135 | Perf_Background_Dpkg.Noise_Data.Tspd.Valid := False
1125 | 1136 | Perf_Background_Dpkg.Noise_Data.Thrust     := Drtnone
1126 | 1137 |
1127 | 1138 | Perf_Background_Dpkg.Pcfltphase           := Cruise
1128 | 1139 | Perf_Background_Dpkg.Psacalt              := 50.0
1129 | 1140 | Perf_Background_Dpkg.Psacaltv             := False
1130 | 1141 | Perf_Background_Dpkg.Pstruetrkv           := False
1131 | 1142 | Perf_Background_Dpkg.Psvgrnd              := 0.0
1132 | 1143 | Perf_Background_Dpkg.Psvgrndval           := False
1133 | 1144 | Perf_Background_Dpkg.Pcacposn.Data.Lat    := 100.0
1134 | 1145 | Perf_Background_Dpkg.Pcacposn.Data.Lon    := 100.0
1135 | 1146 | Perf_Background_Dpkg.Pcacposn.Valid       := false
1136 | 1147 | Perf_Background_Dpkg.Pstruetrack          := 0.2
1137 | 1148 | Perf_Background_Dpkg.Pswindbrg            := 150.0
1138 | 1149 | Perf_Background_Dpkg.Pswindmag            := 130.0
1139 | 1150 | Perf_Background_Dpkg.Pswindval            := false
1140 | 1151 | Fmcs_Partition_Data_Pkg.Ops_Time.Hour    := 1
1141 | 1152 | Fmcs_Partition_Data_Pkg.Ops_Time.Minute  := 1
1142 | 1153 | Fmcs_Partition_Data_Pkg.Ops_Time.Second  := 1
1143 | 1154 | Perf_Dpkg.Psnumengout                     := 1
1144 | 1155 | Perf_Background_Dpkg.Psvgonpath           := true
1145 | 1156 | Perf_Background_Dpkg.Pscrzalt.data        := 10.0
1146 | 1157 | Perf_Background_Dpkg.Pscrzalt.Valid       := false
1147 | 1158 | Perf_Background_Dpkg.Psfinaldes           := false
1148 | 1159 | Perf_Background_Dpkg.Pcspeedmode          := Perf_Ext_Tpkg.Vmecon
1149 | 1160 | Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 230.0
1150 | 1161 | Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15000.0
1151 | 1162 | Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Clb_Spd_Lim
1152 | 1163 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident     := "ABCD    "
1153 | 1164 | Perf_Background_Dpkg.Pcactorsec                       := Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1154  1165  Perf_Background_Dpkg.Alt_Curr_Baro.Valid := False
1155  1166  Perf_Background_Dpkg.Alt_Curr_Baro.Data := 0.00
1156  1167
1157  1168  --update to Get a copy of the current A/C cross track error
1158  1169  Guid_Ext_Dpkg.Galxtk := 2.49
1159  1170  --update for PERF_SDD_0409
1160  1171  Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim := true
1161  1172  --Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active.Is_Valid & data
1162  1173  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3  := true
1163  1174  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active  :=
            » true
1164  1175  --PERF_SDD_07496_INT
1165  1176  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 2100
1166  1177  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas := True
1167  1178
1168  1179  -- Reset Output
1169  1180  Perf_Background_Dpkg.Speed_Annunciation.Cas            := 0.0
1170  1181  Perf_Background_Dpkg.Speed_Annunciation.Alt            := 0.0
1171  1182  Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type := Vg_Ext_Tpkg.Invalid
1172  1183  Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident      := "        "
1173  1184  Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
1174  1185  Perf_Background_Dpkg.Ac_Crosstrack_Error               := 0.0
1175  1186  Perf_Background_Dpkg.Early_Descent_From_Level          := false
1176  1187  Perf_Background_Dpkg.Altholdmode                       := false
1177  1188  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Valid := True
1178  1189  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Data := 23.20
1179  1190  Perf_Background_Dpkg.Pspressalt                        := 0.0
1180  1191  Perf_Background_Dpkg.Pscurtasvalid                     := false
1181  1192
1182  1193  #define Get_Maxop_Delta_Called := False
1183  1194  #define Get_Def_Thrust_Reduction_Alt_Called := False
1184  1195  #define Get_Cruise_Alt_Called := False
1185  1196  #define Get_Ac_Config_Called := False
1186  1197
1187  1198  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
1188  1199  # go
1189  1200  Computoldtgt := True
1190  1201  Curspdsval := False
1191  1202  Perf_Background_Dpkg.Psfirstpass := False
1192  1203  Perf_Background_Dpkg.Psonofrstpas := False
1193  1204  Perf_Background_Dpkg.Psftpbwritok := False
1194  1205  Perf_Background_Dpkg.Psvsact := True
1195  1206  Perf_Background_Dpkg.Psfpaact := True
1196  1207  Perf_Background_Dpkg.Pslvlatbcalt := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1197  1208 Perf_Integration_Dpkg.Pslvlblwpth := True
1198  1209 Perf_Background_Dpkg.Psfi_Possble := True
1199  1210 Perf_Background_Dpkg.On_Icao_Leg_Decel := True
1200  1211 Perf_Background_Dpkg.Psignorehm := True
1201  1212 Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
1202  1213 Perf_Background_Dpkg.Adc_Fg_Valid  := False
1203  1214 Perf_Background_Dpkg.Psenginesoff := True
1204  1215 Perf_Dpkg.Pcdelspdrec.Predicted   := True
1205  1216 Perf_Background_Dpkg.Pcoldeconcas.Valid := True
1206  1217
1207  1218 #Perf_Dpkg.takeoff_gwt.valid := True
1208  1219 #Perf_Dpkg.takeoff_gwt.data := 400.0
1209  1220 #DELB/ALL
1210  1221
1211  1222 #sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt after_elab begin
1212  1223 #define Get_Def_Thrust_Reduction_Alt_Called   := True
1213  1224 #go
1214  1225 #end
1215  1226
1216       #sba prf_bkgnd_pkg.get_bk_Data #553
      1227 #sba prf_bkgnd_pkg.get_bk_Data #559
1217  1228 #go
1218  1229 Thredalt.Data(Fprequestrec_Types.Takeoff).Altitude := 10001
1219  1230 #DELB/ALL
1220  1231
1221       #sba prf_bkgnd_pkg.get_bk_Data #575
      1232 #sba prf_bkgnd_pkg.get_bk_Data #581
1222  1233 #go
1223  1234 Computoldtgt = False
1224  1235 Curspdsval = True
1225  1236 Perf_Background_Dpkg.Psfirstpass = True
1226  1237 Perf_Background_Dpkg.Psonofrstpas = True
1227  1238 Perf_Background_Dpkg.Psftpbwritok = True
1228  1239 Perf_Background_Dpkg.Psvsact = False
1229  1240 Perf_Background_Dpkg.Psfpaact = False
1230  1241 Perf_Background_Dpkg.Pslvlatbcalt = False
1231  1242 Perf_Integration_Dpkg.Pslvlblwpth = False
1232  1243 Perf_Background_Dpkg.Psfi_Possble = False
1233  1244 Perf_Background_Dpkg.On_Icao_Leg_Decel = False
1234  1245 Perf_Background_Dpkg.Psignorehm = False
1235  1246 Perf_Integration_Dpkg.Pcoldwspdchg = Returntoecon
1236  1247 #DELB/ALL
1237  1248
1238  1249 #set breakpoint STUBED at Perf_Get_State_Pkg.Get_State before_end
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1239	1250	#go
1240	1251	Perf_Background_Dpkg.Psacalt = 100.0
1241	1252	Perf_Background_Dpkg.Psacaltv = True
1242	1253	Perf_Background_Dpkg.Pcacposn.Data.Lat = 150.0
1243	1254	Perf_Background_Dpkg.Pcacposn.Data.Lon = 120.0
1244	1255	Perf_Background_Dpkg.Pcacposn.Valid = true
1245	1256	Perf_Background_Dpkg.Pstruetrack = 0.1
1246	1257	Perf_Background_Dpkg.Pstruetrkv = True
1247	1258	Perf_Background_Dpkg.Pswindbrg = 200.0
1248	1259	Perf_Background_Dpkg.Pswindmag = 100.0
1249	1260	Perf_Background_Dpkg.Pswindval = true
1250	1261	Perf_Background_Dpkg.Psvgrnd = 1.0
1251	1262	Perf_Background_Dpkg.Psvgrndval = True
1252	1263	#delb/all
1253	1264	
1254		#sba prf_bkgnd_pkg.get_bk_Data #589
	1265	#sba prf_bkgnd_pkg.get_bk_Data #595
1255	1266	#go
1256	1267	Eng_Healthy1_Inboard := True
1257	1268	Eng_Healthy1_Outboard := True
1258	1269	Eng_Healthy2_Inboard := True
1259	1270	Eng_Healthy2_Outboard := True
1260	1271	Tla_Ecu1_Inboard.Data := 1.0
1261	1272	Tla_Ecu1_Inboard.Valid := True
1262	1273	Tla_Ecu1_Outboard.Data := 1.0
1263	1274	Tla_Ecu1_Outboard.Valid := True
1264	1275	Tla_Ecu2_Inboard.Data := 1.0
1265	1276	Tla_Ecu2_Inboard.Valid := True
1266	1277	Tla_Ecu2_Outboard.Data := 1.0
1267	1278	Tla_Ecu2_Outboard.Valid := True
1268		#delba prf_bkgnd_pkg.get_bk_Data #589
	1279	#delba prf_bkgnd_pkg.get_bk_Data #595
1269	1280	
1270		#sba prf_bkgnd_pkg.get_bk_Data #622
	1281	#sba prf_bkgnd_pkg.get_bk_Data #628
1271	1282	#go
1272	1283	Eng_Healthy1_Inboard = False
1273	1284	Eng_Healthy1_Outboard = True
1274	1285	Eng_Healthy2_Inboard = False
1275	1286	Eng_Healthy2_Outboard = True
1276	1287	Tla_Ecu1_Inboard.Data = 0.0
1277	1288	Tla_Ecu1_Inboard.Valid = False
1278	1289	Tla_Ecu1_Outboard.Data = 0.0
1279	1290	Tla_Ecu1_Outboard.Valid = False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1280 | 1291 | Tla_Ecu2_Inboard.Data          = 0.0
1281 | 1292 | Tla_Ecu2_Inboard.Valid         = False
1282 | 1293 | Tla_Ecu2_Outboard.Data         = 0.0
1283 | 1294 | Tla_Ecu2_Outboard.Valid        = False
1284 | 1295 | Perf_Background_Dpkg.Pcfltphase       = Takeoff
1285 | 1296 | Perf_Background_Dpkg.Pcgmttime.Hour   = 1
1286 | 1297 | Perf_Background_Dpkg.Pcgmttime.Minute = 1
1287 | 1298 | Perf_Background_Dpkg.Pcgmttime.Second = 1
1288 | 1299 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
1289 | 1300 |
1290 | 1301 | Perf_Background_Dpkg.Vman_Fe.Data    := 1.0
1291 | 1302 | Perf_Background_Dpkg.Vman_Fe.Valid   := True
1292 | 1303 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := False
1293 |      | #delba prf_bkgnd_pkg.get_bk_Data #622
     | 1304 | #delba prf_bkgnd_pkg.get_bk_Data #628
1294 | 1305 |
1295 |      | #sba PRF_BKGND_PKG.GET_BK_DATA #665 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
     | 1306 | #sba PRF_BKGND_PKG.GET_BK_DATA #671 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
1296 | 1307 | #go
1297 | 1308 | Airborne_Dat             := True
1298 |      | #delba PRF_BKGND_PKG.GET_BK_DATA #665 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
     | 1309 | #delba PRF_BKGND_PKG.GET_BK_DATA #671 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
1299 | 1310 |
1300 |      | #sba prf_bkgnd_pkg.get_bk_Data #682
     | 1311 | #sba prf_bkgnd_pkg.get_bk_Data #688
1301 | 1312 | #go
1302 | 1313 | Perf_Background_Dpkg.Vman_Fe.Data    = 0.0
1303 | 1314 | Perf_Background_Dpkg.Vman_Fe.Valid   = False
1304 | 1315 | Perf_Background_Dpkg.Psairborne      = True
1305 | 1316 | Perf_Background_Dpkg.Psautolat       = False
1306 | 1317 | Perf_Background_Dpkg.Psengout        = False
1307 | 1318 | Perf_Background_Dpkg.Psenginesoff    = False
1308 |      | #delba prf_bkgnd_pkg.get_bk_Data #682
     | 1319 | #delba prf_bkgnd_pkg.get_bk_Data #688
1309 | 1320 |
1310 | 1321 | #sba Fpln_Ext_Dpkg.Get_Cruise_Alt after_elab begin
1311 | 1322 | #define Get_Cruise_Alt_Called   := True
1312 | 1323 | #go
1313 | 1324 | #end
1314 | 1325 |
1315 |      | #sba prf_bkgnd_pkg.get_bk_Data #802
     | 1326 | #sba prf_bkgnd_pkg.get_bk_Data #809
1316 | 1327 | #go
1317 | 1328 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat      := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1318    1329  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
1319    1330  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach     := True
1320    1331  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas      := True
1321    1332  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas      := True
1322    1333  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side1 := True
1323    1334  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side2 := True
1324    1335  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1 := True
1325    1336  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2 := True
1326          #delba prf_bkgnd_pkg.get_bk_Data #802
        1337  #delba prf_bkgnd_pkg.get_bk_Data #809
1327    1338
1328          #sba prf_bkgnd_pkg.get_bk_Data #826
        1339  #sba prf_bkgnd_pkg.get_bk_Data #833
1329    1340  #go
1330    1341  Perf_Background_Dpkg.Adc_Fg_Valid = True
1331          #delba prf_bkgnd_pkg.get_bk_Data #826
        1342  #delba prf_bkgnd_pkg.get_bk_Data #833
1332    1343
1333          #sba prf_bkgnd_pkg.get_bk_Data #858
        1344  #sba prf_bkgnd_pkg.get_bk_Data #865
1334    1345  #go
1335    1346  Perf_Background_Dpkg.Pspressalt          = 2100.0
1336    1347  Perf_Background_Dpkg.Pscurcas            = 0.0
1337    1348  Perf_Background_Dpkg.Pscurmach           = 0.0
1338    1349  Perf_Background_Dpkg.Pscurtas            = 0.0
1339    1350  Perf_Background_Dpkg.Pscurtasvalid       = True
1340    1351
1341    1352  Perf_Dpkg.Psnumengout                    = 0
1342    1353  Perf_Background_Dpkg.Psvgonpath          = false
1343    1354  Perf_Background_Dpkg.Pscrzalt.data       = 5.0
1344    1355  Perf_Background_Dpkg.Pscrzalt.Valid      = True
1345    1356  Perf_Dpkg.Pcdelspdrec.Predicted          = False
1346    1357  Perf_Background_Dpkg.Pcoldeconcas.Valid  = False
1347    1358  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.PRIM_Voted_Inertial_Vert_Speed  := True
1348    1359  Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed := True
1349    1360  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.PRIM_Voted_Inertial_Vert_Speed := 1.0
1350          #delba prf_bkgnd_pkg.get_bk_Data #858
        1361  #delba prf_bkgnd_pkg.get_bk_Data #865
1351    1362
1352          #sba prf_bkgnd_pkg.get_bk_Data #871
        1363  #sba prf_bkgnd_pkg.get_bk_Data #878
1353    1364  #go
1354    1365  Adc_In_Range                             = True
1355    1366  Perf_Background_Dpkg.Adc_Fg_Valid        = True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1356	1367	Perf_Background_Dpkg.Psinertvs = 1.0
1357		#delba prf_bkgnd_pkg.get_bk_Data #871
	1368	#delba prf_bkgnd_pkg.get_bk_Data #878
1358	1369	
1359	1370	#sba Prf_Acstate_Pkg.Get_Ac_Config after_elab begin
1360	1371	#define Get_Ac_Config_Called := True
1361	1372	#go
1362	1373	#end
1363	1374	
1364		#sba prf_bkgnd_pkg.get_bk_Data #1032
	1375	#sba prf_bkgnd_pkg.get_bk_Data #1039
1365	1376	#go
1366	1377	Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmspd
1367	1378	Perf_Background_Dpkg.Psfinaldes = true
1368	1379	Perf_Background_Dpkg.Pcacconfig = 0
1369	1380	Perf_Background_Dpkg.Psgrndotdes := True
1370	1381	Perf_Background_Dpkg.Psstpclbact := True
1371	1382	Perf_Background_Dpkg.Psstpdesact := True
1372	1383	Perf_Background_Dpkg.Psengout := False
1373	1384	Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes := False
1374	1385	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
1375	1386	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
1376		#delba prf_bkgnd_pkg.get_bk_Data #1032
	1387	#delba prf_bkgnd_pkg.get_bk_Data #1039
1377	1388	
1378		#sba prf_bkgnd_pkg.get_bk_Data #1101
	1389	#sba prf_bkgnd_pkg.get_bk_Data #1108
1379	1390	#go
1380	1391	Perf_Integration_Dpkg.Pcairbrakes = Zeroab
1381	1392	Perf_Background_Dpkg.Psgrndotdes = False
1382	1393	Perf_Background_Dpkg.Psstpclbact = False
1383	1394	Perf_Background_Dpkg.Psstpdesact = False
1384		#delba prf_bkgnd_pkg.get_bk_Data #1101
	1395	#delba prf_bkgnd_pkg.get_bk_Data #1108
1385	1396	
1386		#sba prf_bkgnd_pkg.get_bk_Data #1105
	1397	#sba prf_bkgnd_pkg.get_bk_Data #1112
1387	1398	#go
1388	1399	Curspdsval := False
1389		#delba prf_bkgnd_pkg.get_bk_Data #1105
	1400	#delba prf_bkgnd_pkg.get_bk_Data #1112
1390	1401	
1391		#sba prf_bkgnd_pkg.get_bk_Data #1227
	1402	#sba prf_bkgnd_pkg.get_bk_Data #1234

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1392	1403	#go
1393	1404	Perf_Background_Dpkg.Pcmanspd.Speed.CAS := 1.0
1394	1405	Perf_Background_Dpkg.Pcmanspd.CASVALID := True
1395	1406	Perf_Background_Dpkg.Pcmanspd.Speed.MACH := 1.0
1396	1407	Perf_Background_Dpkg.Pcmanspd.MACHVALID := True
1397	1408	Perf_Background_Dpkg.Pccuraltcstr.Data := 1.0
1398	1409	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
1399	1410	Perf_Background_Dpkg.Pccuraltcstr.Legidx := 1
1400	1411	Perf_Background_Dpkg.Pccuraltcstr.Lgidval := True
1401	1412	Perf_Background_Dpkg.Pccuraltcstr.Usevga := True
1402	1413	Perf_Background_Dpkg.Pccuraltcstr.Vgaidx := 1
1403	1414	Perf_Background_Dpkg.Pcprebcalt.Data := 1.0
1404	1415	Perf_Background_Dpkg.Pcprebcalt.Valid := True
1405	1416	Perf_Background_Dpkg.Pc3rdalt.Data := 1.0
1406	1417	Perf_Background_Dpkg.Pc3rdalt.Valid := True
1407	1418	Perf_Background_Dpkg.Pslcautoctl := True
1408	1419	Perf_Background_Dpkg.Vert_Auto_Mode := True
1409		~~#delba prf_bkgnd_pkg.get_bk_Data #1227~~
	1420	#delba prf_bkgnd_pkg.get_bk_Data #1234
1410	1421	
1411		~~#sba prf_bkgnd_pkg.get_bk_Data #1250~~
	1422	#sba prf_bkgnd_pkg.get_bk_Data #1257
1412	1423	#go
1413	1424	Perf_Background_Dpkg.Pcmanspd.Speed.CAS = 0.0
1414	1425	Perf_Background_Dpkg.Pcmanspd.CASVALID = False
1415	1426	Perf_Background_Dpkg.Pcmanspd.Speed.MACH = 0.0
1416	1427	Perf_Background_Dpkg.Pcmanspd.MACHVALID = False
1417	1428	Perf_Background_Dpkg.Pccuraltcstr.Data = 0.0
1418	1429	Perf_Background_Dpkg.Pccuraltcstr.Valid = False
1419	1430	Perf_Background_Dpkg.Pccuraltcstr.Legidx = 0
1420	1431	Perf_Background_Dpkg.Pccuraltcstr.Lgidval = False
1421	1432	Perf_Background_Dpkg.Pccuraltcstr.Usevga = False
1422	1433	Perf_Background_Dpkg.Pccuraltcstr.Vgaidx = 0
1423	1434	Perf_Background_Dpkg.Pcprebcalt.Data = 0.0
1424	1435	Perf_Background_Dpkg.Pcprebcalt.Valid = False
1425	1436	Perf_Background_Dpkg.Pc3rdalt.Data = 0.0
1426	1437	Perf_Background_Dpkg.Pc3rdalt.Valid = False
1427	1438	Perf_Background_Dpkg.Pslcautoctl = False
1428	1439	Perf_Background_Dpkg.Vert_Auto_Mode = False
1429		~~#delba prf_bkgnd_pkg.get_bk_Data #1250~~
	1440	#delba prf_bkgnd_pkg.get_bk_Data #1257
1430	1441	
1431		~~#sba prf_bkgnd_pkg.get_bk_Data #1466~~
	1442	#sba prf_bkgnd_pkg.get_bk_Data #1473

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1432	1443	#go
1433	1444	Perf_Background_Dpkg.Noise_Data.Tspd.Data = 150.0
1434	1445	Perf_Background_Dpkg.Noise_Data.Tspd.Valid = True
1435	1446	Perf_Background_Dpkg.Lim_Max_Op_Cas := 5.0
1436	1447	Perf_Background_Dpkg.Lim_Max_Op_Mach := 0.0
1437		#delba prf_bkgnd_pkg.get_bk_Data #1466
	1448	#delba prf_bkgnd_pkg.get_bk_Data #1473
1438	1449	
1439	1450	#sba Prf_External_Util_Pkg.Get_Maxop_Delta after_elab begin
1440	1451	#define Get_Maxop_Delta_Called := True
1441	1452	#go
1442	1453	#end
1443	1454	
1444		#sba prf_bkgnd_pkg.get_bk_Data #1740
	1455	#sba prf_bkgnd_pkg.get_bk_Data #1747
1445	1456	#go
1446	1457	Rwy_Temp = -56.481
1447	1458	
1448	1459	!run_test()
1449	1460	
1450	1461	-- OUTPUTS
1451	1462	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec = True
1452	1463	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec = True
1453	1464	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec = True
1454	1465	Perf_Background_Dpkg.Pstogwtval = True
1455	1466	Perf_Background_Dpkg.Pstogwt = 400.0
1456	1467	Perf_Background_Dpkg.Pcgwind = Valid
1457	1468	Perf_Background_Dpkg.Psgw = 400.0
1458	1469	Perf_Dpkg.Pcengoutprds = ENGOUTNOTVAL
1459	1470	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
1460	1471	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
1461	1472	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
1462	1473	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
1463	1474	Perf_Background_Dpkg.Flex_Isadev.Data = 77.481696
1464	1475	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = True
1465	1476	Perf_Background_Dpkg.Noise_Data.Altitude.Data = 300.0
1466	1477	Perf_Background_Dpkg.Noise_Data.Speed.Valid = True
1467	1478	Perf_Background_Dpkg.Noise_Data.Speed.Data = 250.0
1468	1479	Perf_Background_Dpkg.Speed_Annunciation.Cas = 230.0
1469	1480	Perf_Background_Dpkg.Speed_Annunciation.Alt = 15000.0
1470	1481	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type = Vg_Ext_Tpkg.Clb_Spd_Lim
1471	1482	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident = "ABCD "
1472	1483	Get_Maxop_Delta_Called = True
1473	1484	Get_Def_Thrust_Reduction_Alt_Called = True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1474  1485 Get_Cruise_Alt_Called                              = True
1475  1486 Get_Ac_Config_Called                               = True
1476  1487 Perf_Background_Dpkg.Lim_Max_Op_Cas                = 0.0
1477  1488 Perf_Background_Dpkg.Lim_Max_Op_Mach               = 0.45
1478  1489 Perf_Background_Dpkg.Noise_Data.Thrust             = Maxclb
1479  1490 Perf_Background_Dpkg.Ac_Crosstrack_Error           = 2.49
1480  1491 Perf_Background_Dpkg.Early_Descent_From_Level      = true
1481  1492 Perf_Background_Dpkg.Altholdmode                   = true
1482  1493 Perf_Background_Dpkg.Alt_Curr_Baro.Valid = True
1483  1494 Perf_Background_Dpkg.Alt_Curr_Baro.Data = 23.20
1484  1495
1485  1496 ----------------------------------------------------------------------------------------------------
           » --
1486  1497 TESTID: 2
1487  1498
1488  1499    Verify that if an engine-out condition exists and current flightphase is TO, then engine-out predictions flag is s
           » et to
1489  1500    NOPREDS.  Verify that when Pcitin is No_Itinerary that descent path is not invalidated.
1490  1501    PERF_SDD_0410 (PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX), PERF_SDD_3317_INT, PERF_SDD_0417_INT,
1491  1502     when the working flight plan is  Is_Active, a variety of following global data be retrieved
1492  1503     - Airborne flag
1493  1504       when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is false
1494  1505     - when Io_Common_Irs_Dpkg.Sel_Src_Inertial_Vert_Speed is invalid,  A/C inertial vertical speed set to 0.0
1495  1506     - when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active is not valid, Altitude Hold mode flag status is not from
           » FMGC via the interface
1496  1507    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
1497  1508      PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
1498  1509      PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100,PERF_SRD_6005_INT)
1499  1510
1500  1511    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
1501  1512    working flight plan.
1502  1513    PERF_SDD_4328 (PERF_SRD_10166_INT)
1503  1514
1504  1515    The airborne flag(Psairborne) shall be set when
1505  1516        - the Is_Airborne flag from IO is valid and
1506  1517        - the current flight phase is not in preflight or done.
1507  1518    PERF_SDD_07495_INT
1508  1519
1509  1520    The ADC/FG input data validity(Adc_Fg_Valid) shall be determined from the validity of
1510  1521      - Static Air Temperature
1511  1522      - Pressure Altitude
1512  1523      - CAS, TAS, Mach (here the aircraft is not airborne and the validity can't perform) and
1513  1524    For the valid ADC/FG input data, the following data are retrieved from IO
1514  1525      - A/C Pressure altitude
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1515  1526         - A/C CAS
1516  1527         - A/C Mach
1517  1528         - A/C TAS
1518  1529      Also if the baro corrected altitude is valid, then the current baro corrected altitude is retrieved from IO.
1519  1530      PERF_SDD_07496_INT
1520  1531
1521  1532      The ADC range flag shall be set to false when not all of the following conditions are valid
1522  1533         - the aircraft pressure altitude is from -2000.00 ft to 50,000.00 ft.
1523  1534         - the aircraft static air temperature is from -99.00 to 80.00 Celcius
1524  1535         - the aircraft is airborne and
1525  1536         - the aircraft CAS is from 0.0 kts to 450.0 kts.
1526  1537         - the airacrft Mach is from 0.0 to 1.0 mach
1527  1538         - the aircraft TAS is at or below 599.00 kts
1528  1539         - the aircraft TAS is at or above 50.0 kts or the aircraft flight phase being takeoff or
1529  1540           before with aircraft TAS is at or above 0.0 kts
1530  1541      PERF_SDD_07497_INT
1531  1542
1532  1543      The ADC/FG input data validity shall be set based on the validity of ADC range flag.
1533  1544      PERF_SDD_07498_INT
1534  1545
1535  1546      When the flight phase is descent or approach, the descent path reference shall be set to
1536  1547      the guidance descent path reference(Va3pathref).
1537  1548      PERF_SDD_07500_INT
1538  1549
1539  1550      If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is
1540  1551      not Secondary or engines are on, the aircraft gross weight shall be set to the following:
1541  1552         - Aircraft GW from the Performance Weights function, if the flight phase is other than takeoff or before,
1542  1553           or the aircraft gross weight or the Take Off gross weight being invalid
1543  1554      The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
1544  1555      PERF_SDD_07501_INT
1545  1556
1546  1557
1547  1558  --INPUTS
1548  1559  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
1549  1560  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
1550  1561  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
1551  1562  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
1552  1563  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
1553  1564  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
1554  1565  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
1555  1566  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
1556  1567  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
1557  1568  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
1558  1569  Perf_Dpkg.Min_Gwt := 100.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1559 | 1570 | Perf_Dpkg.Max_Gwt := 400.0
1560 | 1571 | Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
1561 | 1572 | Perf_Background_Dpkg.Psignorehm := True
1562 | 1573 | Perf_Background_Dpkg.Pcfltphase := Takeoff
1563 | 1574 | Perf_Background_Dpkg.Ats_Enable := True
1564 | 1575 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Takeoff
1565 | 1576 | Perf_Background_Dpkg.Psacalt := 10000.0
1566 | 1577 | Perf_Database_Dpkg.Psmmo := 0.45
1567 | 1578 | Perf_Background_Dpkg.Pszfw := 300.0
1568 | 1579 | Perf_Background_Dpkg.Psblockfuel := 50.0
1569 | 1580 | Perf_Background_Dpkg.Pstaxifuel := 25.0
1570 | 1581 | Perf_Background_Dpkg.Psairborne := True
1571 | 1582 | Perf_Background_Dpkg.Psautolat := False
1572 | 1583 | Guid_Ext_Dpkg.Gcxxlatautoc := False
1573 | 1584 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
1574 | 1585 | Perf_Background_Dpkg.Psengout := False
1575 | 1586 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
1576 | 1587 | Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
1577 | 1588 | Perf_Dpkg.Repredict_Hm_Decel := True
1578 | 1589 | Perf_Background_DPkg.Pshmdecel := True
1579 | 1590 | Perf_Background_Dpkg.Pcholdflags.Hmactive := True
1580 | 1591 | Perf_Ads_Dpkg.Fi_Enabled := False
1581 | 1592 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
1582 | 1593 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
1583 | 1594 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
1584 | 1595 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
1585 | 1596 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
1586 | 1597 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
1587 | 1598 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
1588 | 1599 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
1589 | 1600 | Perf_Background_Dpkg.Psappspdlat := True
1590 | 1601 | Perf_Dpkg.Pcengoutprds := Altpln
1591 | 1602 | Perf_Background_Dpkg.Pcpathref := Nopath
1592 | 1603 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
1593 | 1604 | Perf_Background_DPkg.Pscurcas := 5.0
1594 | 1605 | Perf_Background_DPkg.Pscurmach := 5.0
1595 | 1606 | Perf_Background_DPkg.Pscurtas := 5.0
1596 | 1607 | Perf_Background_Dpkg.Pcitin.Itinerary := No_Itinerary
1597 | 1608 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
1598 | 1609 | Perf_Background_Dpkg.Pstogwtval := False
1599 | 1610 | Perf_Background_Dpkg.Pstogwt := 50.0
1600 | 1611 | Perf_Background_Dpkg.Pcgwind := Invalid
1601 | 1612 | Perf_Background_Dpkg.Psgw := 0.0
1602 | 1613 | Perf_Dpkg.Gross_Weight.Status := Valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1603    1614  Perf_Dpkg.Gross_Weight.Data := 150.0
1604    1615  Perf_Integration_DPkg.Pcairbrakes := Fullab
1605    1616  Perf_Background_Dpkg.Pcacconfig := 5
1606    1617  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
1607    1618  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
1608    1619  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
1609    1620  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
1610    1621  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
1611    1622  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
1612    1623  Perf_Background_Dpkg.Psstpclbact := True
1613    1624  Perf_Background_Dpkg.Psstpdesact := True
1614    1625  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
1615    1626  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
1616    1627  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
1617    1628  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
1618    1629  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
1619    1630  Perf_Background_Dpkg.Pcprebcalt.Valid := True
1620    1631  Perf_Background_Dpkg.Pcgmttime.Hour := 1
1621    1632  Perf_Background_Dpkg.Pcgmttime.Minute := 1
1622    1633  Perf_Background_Dpkg.Pcgmttime.Second := 1
1623    1634  Perf_Background_Dpkg.Psinertvs := 5.0
1624    1635  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
1625    1636  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
1626    1637  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
1627    1638  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
1628    1639  Perf_Ads_Dpkg.Pr_Enabled := False
1629    1640  ATC_DISCRETES_PKG:body.Adson_Flag := False
1630    1641  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
1631    1642  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
1632    1643  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
1633    1644  ^Noise_Speed_Val := True
1634    1645  Perf_Background_Dpkg.Pcactorsec                              := Temporary
1635    1646  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Valid := False
1636    1647  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Data := 23.20
1637    1648  Perf_Background_Dpkg.Alt_Curr_Baro.Valid := False
1638    1649  Perf_Background_Dpkg.Alt_Curr_Baro.Data := 0.00
1639    1650
1640    1651  --update for PERF_SDD_0409
1641    1652  Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim := false
1642    1653  --Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active.Is_Valid & data
1643    1654
1644    1655  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3 := false
1645    1656  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active  :=
              » true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1646  1657
1647  1658  -- Reset Outputs
1648  1659  Perf_Background_Dpkg.Adc_Fg_Valid                        := True
1649  1660  Perf_Background_Dpkg.Early_Descent_From_Level            := True
1650  1661  Perf_Background_Dpkg.Altholdmode                         := True
1651  1662
1652  1663  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
1653  1664  # go
1654  1665  Perf_Dpkg.takeoff_gwt.valid := True
1655  1666  Perf_Dpkg.takeoff_gwt.data := 400.0
1656  1667  #DELB/ALL
1657  1668
1658        #sba PRF_BKGND_PKG.GET_BK_DATA #665 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
      1669  #sba PRF_BKGND_PKG.GET_BK_DATA #671 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
1659  1670  #go
1660  1671  Airborne_Dat           := False
1661        #delba PRF_BKGND_PKG.GET_BK_DATA #665 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
      1672  #delba PRF_BKGND_PKG.GET_BK_DATA #671 INLINE IO_FMS_AIRCRAFT_STATE_DPKG.IS_AIRBORNE after_elab
1662  1673
1663        #sba prf_bkgnd_pkg.get_bk_Data #679
      1674  #sba prf_bkgnd_pkg.get_bk_Data #685
1664  1675  #go
1665  1676  Perf_Background_Dpkg.Psairborne       = False
1666  1677  #DELB/ALL
1667  1678
1668        #sba prf_bkgnd_pkg.get_bk_Data #776
      1679  #sba prf_bkgnd_pkg.get_bk_Data #782
1669  1680  #go
1670  1681  Perf_Background_Dpkg.Pcfltphase := Descent
1671        #delba prf_bkgnd_pkg.get_bk_Data #776
      1682  #delba prf_bkgnd_pkg.get_bk_Data #782
1672  1683
1673        #sba prf_bkgnd_pkg.get_bk_Data #786
      1684  #sba prf_bkgnd_pkg.get_bk_Data #792
1674  1685  #go
1675  1686  Perf_Background_Dpkg.Pcpathref = INVALIDPATH
1676        #delba prf_bkgnd_pkg.get_bk_Data #786
      1687  #delba prf_bkgnd_pkg.get_bk_Data #792
1677  1688
1678        #sba prf_bkgnd_pkg.get_bk_Data #802
      1689  #sba prf_bkgnd_pkg.get_bk_Data #809
1679  1690  #go
1680  1691  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat      := True
1681  1692  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1682	1693	`Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := False`
1683	1694	`Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := False`
1684	1695	`Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := False`
1685	1696	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side1 := False`
1686	1697	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side2 := False`
1687	1698	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1 := False`
1688	1699	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2 := False`
1689		~~`#delba prf_bkgnd_pkg.get_bk_Data #802`~~
	1700	`#delba prf_bkgnd_pkg.get_bk_Data #809`
1690	1701	
1691		~~`#sba prf_bkgnd_pkg.get_bk_Data #814`~~
	1702	`#sba prf_bkgnd_pkg.get_bk_Data #821`
1692	1703	`#go`
1693	1704	`Perf_Background_Dpkg.Adc_Fg_Valid                        = False`
1694		~~`#delba prf_bkgnd_pkg.get_bk_Data #814`~~
	1705	`#delba prf_bkgnd_pkg.get_bk_Data #821`
1695	1706	
1696		~~`#sba prf_bkgnd_pkg.get_bk_Data #826`~~
	1707	`#sba prf_bkgnd_pkg.get_bk_Data #833`
1697	1708	`#go`
1698	1709	`Perf_Background_Dpkg.Adc_Fg_Valid                          := True`
1699	1710	`Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat        := 81.0`
1700	1711	`Perf_Background_Dpkg.Psairborne                          := False`
1701		~~`#delba prf_bkgnd_pkg.get_bk_Data #826`~~
	1712	`#delba prf_bkgnd_pkg.get_bk_Data #833`
1702	1713	
1703		~~`#sba prf_bkgnd_pkg.get_bk_Data #858`~~
	1714	`#sba prf_bkgnd_pkg.get_bk_Data #865`
1704	1715	`#go`
1705	1716	`Adc_In_Range                           = False`
1706	1717	`Perf_Background_Dpkg.Adc_Fg_Valid       = False`
1707	1718	
1708	1719	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.PRIM_Voted_Inertial_Vert_Speed  := False`
1709	1720	`Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed := False`
1710	1721	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.PRIM_Voted_Inertial_Vert_Speed  := 1.0`
1711		~~`#delba prf_bkgnd_pkg.get_bk_Data #858`~~
	1722	`#delba prf_bkgnd_pkg.get_bk_Data #865`
1712	1723	
1713		~~`#sba prf_bkgnd_pkg.get_bk_Data #871`~~
	1724	`#sba prf_bkgnd_pkg.get_bk_Data #878`
1714	1725	`#go`
1715	1726	`Perf_Background_Dpkg.Psinertvs        = 0.0`
1716		~~`#delba prf_bkgnd_pkg.get_bk_Data #871`~~
	1727	`#delba prf_bkgnd_pkg.get_bk_Data #878`

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1717	1728	
1718		#sba prf_bkgnd_pkg.get_bk_Data #1466
	1729	#sba prf_bkgnd_pkg.get_bk_Data #1473
1719	1730	#go
1720	1731	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
1721	1732	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
1722	1733	#DELB/ALL
1723	1734	
1724	1735	!run_test()
1725	1736	
1726	1737	-- OUTPUTS
1727	1738	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec = True
1728	1739	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec = True
1729	1740	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec = True
1730	1741	Perf_Background_Dpkg.Pstogwtval = True
1731	1742	Perf_Background_Dpkg.Pstogwt = 400.0
1732	1743	Perf_Background_Dpkg.Pcgwind = Valid
1733	1744	Perf_Background_Dpkg.Psgw = 150.0
1734	1745	Perf_Dpkg.Pcengoutprds = NOPREDS
1735	1746	Perf_Despath_Dpkg.Pcdespath.Vgavalid = True
1736	1747	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
1737	1748	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
1738	1749	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
1739	1750	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
1740	1751	Perf_Background_Dpkg.Early_Descent_From_Level = false
1741	1752	Perf_Background_Dpkg.Altholdmode = false
1742	1753	Perf_Background_Dpkg.Alt_Curr_Baro.Valid = False
1743	1754	Perf_Background_Dpkg.Alt_Curr_Baro.Data = 0.00
1744	1755	
1745	1756	-- » --
1746	1757	TESTID: 3
1747	1758	
1748	1759	Verify that if an engine-out condition exists and current flightphase is Goaround, then the engine-out predictions » flag
1749	1760	is set to NOPREDS. Verify that when pcitin is Fuel_Plan_Fpln_Preds that descent path is invalidated.
1750	1761	PERF_SDD_0417_INT, PERF_SDD_0418_INT, PERF_SDD_3105 (PERF_SRD_1919)
1751	1762	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
1752	1763	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
1753	1764	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
1754	1765	PERF_SDD_0410(PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX),
1755	1766	
1756	1767	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
1757	1768	working flight plan.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1758  1769        PERF_SDD_4328 (PERF_SRD_10166_INT)

1759  1770

1760  1771     If the flight phase is neither descent nor approach, the descent path reference shall be set to indicate Nopath.

1761  1772     PERF_SDD_07500_INT

1762  1773

1763  1774     If the current itinerary is one of the following:

1764  1775     - Active Primary Flight Plan Predictions;

1765  1776     - Temporary Primary Flight Plan Predictions;

1766  1777     -Current mode predictions(Normal or High priority);

1767  1778     - Optimum altitude predictions;

1768  1779     then the descent path shall be retrieved from the descent path object

1769  1780     manager via a call to Perf_Ext_Despath.Pgvdespath.

1770  1781     PERF_SDD_3888_INT

1771  1782

1772  1783     When flight phase is beyond cruise with manual speed mode, then the speed validity shall be set as follows.

1773  1784         If CAS is selected on FCU then Valid flag for MACH speed is set to False.

1774  1785         If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.

1775  1786     CAS is selected in this test case.

1776  1787     PERF_SDD_07545_INT

1777  1788

1778  1789

1779  1790  --INPUTS

1780  1791  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False

1781  1792  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False

1782  1793  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False

1783  1794  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False

1784  1795  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False

1785  1796  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True

1786  1797  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True

1787  1798  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True

1788  1799  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True

1789  1800  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True

1790  1801  Perf_Dpkg.Min_Gwt := 100.0

1791  1802  Perf_Dpkg.Max_Gwt := 400.0

1792  1803  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active

1793  1804  Perf_Background_Dpkg.Psignorehm := True

1794  1805  Perf_Background_Dpkg.Pcfltphase := Goaround

1795  1806  Perf_Background_Dpkg.Ats_Enable := True

1796  1807  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Goaround

1797  1808  Perf_Background_Dpkg.Psacalt := 10000.0

1798  1809  Perf_Database_Dpkg.Psmmo := 0.45

1799  1810  Perf_Background_Dpkg.Pszfw := 300.0

1800  1811  Perf_Background_Dpkg.Psblockfuel := 50.0

1801  1812  Perf_Background_Dpkg.Pstaxifuel := 25.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1802   1813  Perf_Background_Dpkg.Psairborne := True
1803   1814  Perf_Background_Dpkg.Psautolat := False
1804   1815  Guid_Ext_Dpkg.Gcxxlatautoc := False
1805   1816  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
1806   1817  Perf_Background_Dpkg.Psengout := False
1807   1818  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
1808   1819  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
1809   1820  Perf_Dpkg.Repredict_Hm_Decel := True
1810   1821  Perf_Background_DPkg.Pshmdecel := True
1811   1822  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
1812   1823  Perf_Ads_Dpkg.Fi_Enabled := False
1813   1824  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
1814   1825  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
1815   1826  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
1816   1827  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
1817   1828  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
1818   1829  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
1819   1830  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
1820   1831  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
1821   1832  Perf_Background_Dpkg.Psappspdlat := True
1822   1833  Perf_Dpkg.Pcengoutprds := Altpln
1823   1834  Perf_Background_Dpkg.Pcpathref := Onpath
1824   1835  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
1825   1836  Perf_Background_DPkg.Pscurcas := 5.0
1826   1837  Perf_Background_DPkg.Pscurmach := 5.0
1827   1838  Perf_Background_DPkg.Pscurtas := 5.0
1828   1839  Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Fpln_Preds
1829   1840  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
1830   1841  Perf_Background_Dpkg.Pstogwtval := False
1831   1842  Perf_Background_Dpkg.Pstogwt := 50.0
1832   1843  Perf_Background_Dpkg.Pcgwind := Invalid
1833   1844  Perf_Background_Dpkg.Psgw := 0.0
1834   1845  Perf_Dpkg.Gross_Weight.Status := Valid
1835   1846  Perf_Dpkg.Gross_Weight.Data := 150.0
1836   1847  Perf_Integration_DPkg.Pcairbrakes := Fullab
1837   1848  Perf_Background_Dpkg.Pcacconfig := 5
1838   1849  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
1839   1850  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
1840   1851  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
1841   1852  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
1842   1853  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
1843   1854  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
1844   1855  Perf_Background_Dpkg.Psstpclbact := True
1845   1856  Perf_Background_Dpkg.Psstpdesact := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1846	1857	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
1847	1858	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
1848	1859	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
1849	1860	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
1850	1861	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
1851	1862	Perf_Background_Dpkg.Pcprebcalt.Valid := True
1852	1863	Perf_Background_Dpkg.Pcgmttime.Hour := 1
1853	1864	Perf_Background_Dpkg.Pcgmttime.Minute := 1
1854	1865	Perf_Background_Dpkg.Pcgmttime.Second := 1
1855	1866	Perf_Background_Dpkg.Psinertvs := 5.0
1856	1867	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
1857	1868	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
1858	1869	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
1859	1870	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
1860	1871	Perf_Ads_Dpkg.Pr_Enabled := False
1861	1872	ATC_DISCRETES_PKG:body.Adson_Flag := False
1862	1873	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
1863	1874	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
1864	1875	^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
1865	1876	^Noise_Speed_Val := True
1866	1877	
1867	1878	--update for PERF_SDD_0409
1868	1879	--Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active.Is_Valid & data
1869	1880	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3 := true
1870	1881	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active := f » alse
1871	1882	
1872	1883	Perf_Background_Dpkg.Altholdmode := true
1873	1884	
1874	1885	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
1875	1886	#go
1876	1887	Perf_Dpkg.takeoff_gwt.valid := True
1877	1888	Perf_Dpkg.takeoff_gwt.data := 400.0
1878	1889	#DELB/ALL
1879	1890	
1880		#sba prf_bkgnd_pkg.get_bk_Data #786
	1891	#sba prf_bkgnd_pkg.get_bk_Data #792
1881	1892	#go
1882	1893	Perf_Background_Dpkg.Pcpathref = Nopath
1883		#delba prf_bkgnd_pkg.get_bk_Data #786
	1894	#delba prf_bkgnd_pkg.get_bk_Data #792
1884	1895	
1885		#sba prf_bkgnd_pkg.get_bk_Data #1181
	1896	--#sba prf_bkgnd_pkg.get_bk_Data #1188

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1886	1897	--#go
1887	1898	--Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
1888	1899	--Machmode := False
1889	1900	--Perf_Background_Dpkg.Pcmanspd.Machvalid := True
1890	1901	
1891		#sba prf_bkgnd_pkg.get_bk_Data #1267
	1902	#sba prf_bkgnd_pkg.get_bk_Data #1274
1892	1903	#go
1893	1904	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
1894	1905	Machmode := False
1895	1906	Perf_Background_Dpkg.Pcmanspd.Machvalid := True
1896	1907	CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = False
1897	1908	#delb/all
1898	1909	
1899		#sba prf_bkgnd_pkg.get_bk_Data #1466
	1910	#sba prf_bkgnd_pkg.get_bk_Data #1473
1900	1911	#go
1901	1912	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
1902	1913	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
1903	1914	#delb/all
1904	1915	!run_test()
1905	1916	
1906	1917	-- OUTPUTS
1907	1918	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec = True
1908	1919	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec = True
1909	1920	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec = True
1910	1921	Perf_Background_Dpkg.Pstogwtval = True
1911	1922	Perf_Background_Dpkg.Pstogwt = 325.0
1912	1923	Perf_Background_Dpkg.Pcgwind = Valid
1913	1924	Perf_Background_Dpkg.Psgw = 325.0
1914	1925	Perf_Dpkg.Pcengoutprds = NOPREDS
1915	1926	Perf_Despath_Dpkg.Pcdespath.Vgavalid = False
1916	1927	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
1917	1928	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
1918	1929	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
1919	1930	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
1920	1931	Perf_Background_Dpkg.Pcmanspd.Machvalid = False
1921	1932	Perf_Background_Dpkg.Altholdmode = False
1922	1933	--- » --
1923	1934	TESTID: 4
1924	1935	
1925	1936	Verify that if an engine-out condition exists and current flightphase is Preflight then the engine-out predictions » flag

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

1926	1937	is set to NOPREDS. Verify that when pcitin is Secondary that descent path is invalidated.
1927	1938	PERF_SDD_0417_INT, PERF_SDD_0418_INT, PERF_SDD_3105 (PERF_SRD_1919),
1928	1939	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
1929	1940	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
1930	1941	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
1931	1942	PERF_SDD_0410(PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX),
1932	1943	
1933	1944	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
1934	1945	working flight plan.
1935	1946	PERF_SDD_4328 (PERF_SRD_10166_INT)
1936	1947	
1937	1948	And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+ » 10 speed.
1938	1949	If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited » target speed
1939	1950	shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t » ype.
1940	1951	Here set VG CAS is less than V2+10 and flight phase is Preflight, previous CAS/Mach speed indicator is CAS.
1941	1952	PERF_SDD_3053_INT
1942	1953	
1943	1954	
1944	1955	-- INPUTS
1945	1956	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
1946	1957	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
1947	1958	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
1948	1959	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
1949	1960	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
1950	1961	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
1951	1962	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
1952	1963	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data := True
1953	1964	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
1954	1965	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
1955	1966	Perf_Dpkg.Min_Gwt := 100.0
1956	1967	Perf_Dpkg.Max_Gwt := 400.0
1957	1968	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
1958	1969	Perf_Background_Dpkg.Psignorehm := True
1959	1970	Perf_Background_Dpkg.Pcfltphase := Preflight
1960	1971	Perf_Background_Dpkg.Ats_Enable := True
1961	1972	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Preflight
1962	1973	Perf_Background_Dpkg.Psacalt := 10000.0
1963	1974	Perf_Database_Dpkg.Psmmo := 0.45
1964	1975	Perf_Background_Dpkg.Pszfw := 300.0
1965	1976	Perf_Background_Dpkg.Psblockfuel := 50.0
1966	1977	Perf_Background_Dpkg.Pstaxifuel := 25.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
1967│1978│Perf_Background_Dpkg.Psairborne := True
1968│1979│Perf_Background_Dpkg.Psautolat := False
1969│1980│Guid_Ext_Dpkg.Gcxxlatautoc := False
1970│1981│Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
1971│1982│Perf_Background_Dpkg.Psengout := False
1972│1983│Cdk_Vert_Dpkg:Body.Engine_Out_I := True
1973│1984│Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
1974│1985│Perf_Dpkg.Repredict_Hm_Decel := True
1975│1986│Perf_Background_DPkg.Pshmdecel := True
1976│1987│Perf_Background_Dpkg.Pcholdflags.Hmactive := True
1977│1988│Perf_Ads_Dpkg.Fi_Enabled := False
1978│1989│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
1979│1990│Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
1980│1991│Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
1981│1992│Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
1982│1993│Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
1983│1994│Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
1984│1995│Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
1985│1996│Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
1986│1997│Perf_Background_Dpkg.Psappspdlat := True
1987│1998│Perf_Dpkg.Pcengoutprds := Altpln
1988│1999│Guid_Ext_Dpkg.Va3lcautoctl := True
1989│2000│Perf_Background_Dpkg.Psvgonpath := False
1990│2001│Perf_Background_Dpkg.Pcpathref := Onpath
1991│2002│Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
1992│2003│Perf_Background_DPkg.Pscurcas := 5.0
1993│2004│Perf_Background_DPkg.Pscurmach := 5.0
1994│2005│Perf_Background_DPkg.Pscurtas := 5.0
1995│2006│Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
1996│2007│Perf_Background_Dpkg.Pstogwtval := False
1997│2008│Perf_Background_Dpkg.Pstogwt := 50.0
1998│2009│Perf_Background_Dpkg.Pcgwind := Invalid
1999│2010│Perf_Background_Dpkg.Psgw := 0.0
2000│2011│Perf_Dpkg.Gross_Weight.Status := Valid
2001│2012│Perf_Dpkg.Gross_Weight.Data := 150.0
2002│2013│Perf_Integration_DPkg.Pcairbrakes := Fullab
2003│2014│Perf_Background_Dpkg.Pcacconfig := 5
2004│2015│Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
2005│2016│Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2006│2017│Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2007│2018│Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
2008│2019│Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2009│2020│Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2010│2021│Perf_Background_Dpkg.Psstpclbact := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2011	2022	Perf_Background_Dpkg.Psstpdesact := True
2012	2023	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2013	2024	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2014	2025	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
2015	2026	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2016	2027	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
2017	2028	Perf_Background_Dpkg.Pcprebcalt.Valid := True
2018	2029	Perf_Background_Dpkg.Pcgmttime.Hour := 1
2019	2030	Perf_Background_Dpkg.Pcgmttime.Minute := 1
2020	2031	Perf_Background_Dpkg.Pcgmttime.Second := 1
2021	2032	Perf_Background_Dpkg.Psinertvs := 5.0
2022	2033	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
2023	2034	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2024	2035	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2025	2036	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2026	2037	Perf_Ads_Dpkg.Pr_Enabled := False
2027	2038	ATC_DISCRETES_PKG:body.Adson_Flag := False
2028	2039	Perf_Integration_Dpkg.Psoldnoentgt := 1.0
2029	2040	Perf_Background_Dpkg.Pcoldcasmchi := Fmcs_Base_Types.Mach
2030	2041	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
2031	2042	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
2032	2043	^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
2033	2044	^Noise_Speed_Val := True
2034	2045	Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Fpln_Preds
2035	2046	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
2036	2047	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
2037	2048	Perf_Background_Dpkg.Psv2plus10 := 1.0
2038	2049	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
2039	2050	# go
2040	2051	Perf_Dpkg.takeoff_gwt.valid := True
2041	2052	Perf_Dpkg.takeoff_gwt.data := 400.0
2042	2053	#DELB/ALL
2043		~~#sba prf_bkgnd_pkg.get_bk_Data #1466~~
	2054	#sba prf_bkgnd_pkg.get_bk_Data #1473
2044	2055	#go
2045	2056	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
2046	2057	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2047	2058	
2048	2059	!run_test()
2049	2060	
2050	2061	-- OUTPUTS
2051	2062	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec = True
2052	2063	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec = True
2053	2064	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec = True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2054	2065	`Perf_Integration_Dpkg.Psoldnoentgt = 1.0`
2055	2066	`Perf_Background_Dpkg.Pcoldcasmchi = Cas`
2056	2067	`Perf_Background_Dpkg.Pstogwtval = True`
2057	2068	`Perf_Background_Dpkg.Pstogwt = 325.0`
2058	2069	`Perf_Background_Dpkg.Pcgwind = Valid`
2059	2070	`Perf_Background_Dpkg.Psgw = 325.0`
2060	2071	`Perf_Dpkg.Pcengoutprds = NOPREDS`
2061	2072	`Perf_Despath_Dpkg.Pcdespath.Vgavalid = False`
2062	2073	`CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False`
2063	2074	`Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True`
2064	2075	`Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True`
2065	2076	`Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True`
2066	2077	`Perf_Background_Dpkg.Psvgonpath := True`
2067	2078	
2068	2079	`--------------------------------------------------------------------------------------------------` `» --`
2069	2080	`TESTID: 5`
2070	2081	
2071	2082	`    Verify that if an engine-out condition exists and current flightphase is cruise then the engine-out predictions fl` `» ag`
2072	2083	`    is set to PRDSTODEST.  Verify that when pcitin is Fuel_Plan_Stage1 that descent path is invalidated.`
2073	2084	`    The Current Itinary is not secondary and so descent path is not retrieved from descent path object manager.(PERF_S` `» DD_3682_INT).`
2074	2085	`    PERF_SDD_0412_INT, PERF_SDD_0417_INT,  PERF_SDD_3682_INT`
2075	2086	`    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,`
2076	2087	`              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,`
2077	2088	`              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)`
2078	2089	
2079	2090	`    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the`
2080	2091	`    working flight plan.`
2081	2092	`    PERF_SDD_4328 (PERF_SRD_10166_INT)`
2082	2093	
2083	2094	`    Cdk_Vert_Dpkg.Engine_Out indicates that there is an Engine Out.`
2084	2095	
2085	2096	`    If not ( Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is curren` `» tly in Noise`
2086	2097	`    Ramp segment and no engine out condition exist) then, the validity of Perf_Background_Dpkg.Noise_Data.Altitude &`
2087	2098	`    Perf_Background_Dpkg.Noise_Data.Tspd shall be set to invalid and Perf_Background_Dpkg.Noise_Data.Thrust is set to` `» no derate`
2088	2099	`    (Cdk_Entry_Tpkg.Drtnone).`
2089	2100	`    PERF_SDD_4339 (PERF_SRD_12371_INT)`
2090	2101	
2091	2102	`    The anti ice data shall be copied from the IO_Engine_Data_Dpkg for the working flight plan when it valid.`
2092	2103	`    PERF_SDD_07169_INT`

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2093  2104
2094  2105      A/C is in Cruise and current itin is Fuel_Plan_Stage1 so target speed is not
2095  2106      limited by calling the speed envelope module.
2096  2107      PERF_SDD_3055_INT
2097  2108
2098  2109      And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+
                » 10 speed.
2099  2110      If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited
                » target speed
2100  2111      shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t
                » ype.
2101  2112      Here set VG CAS is less than V2+10 and flight phase is Cruise, previous CAS/Mach speed indicator is CAS.
2102  2113      PERF_SDD_3053_INT
2103  2114
2104  2115
2105  2116  -- INPUTS
2106  2117  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
2107  2118  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
2108  2119  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
2109  2120  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
2110  2121  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
2111  2122  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
2112  2123  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
2113  2124  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
2114  2125  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
2115  2126  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
2116  2127  Perf_Dpkg.Min_Gwt := 100.0
2117  2128  Perf_Dpkg.Max_Gwt := 400.0
2118  2129  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
2119  2130  Perf_Background_Dpkg.Psignorehm := True
2120  2131  Perf_Background_Dpkg.Pcfltphase := Cruise
2121  2132  Perf_Background_Dpkg.Ats_Enable := True
2122  2133  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
2123  2134  Perf_Background_Dpkg.Psacalt := 10000.0
2124  2135  Perf_Database_Dpkg.Psmmo := 0.45
2125  2136  Perf_Background_Dpkg.Pszfw := 300.0
2126  2137  Perf_Background_Dpkg.Psblockfuel := 50.0
2127  2138  Perf_Background_Dpkg.Pstaxifuel := 25.0
2128  2139  Perf_Background_Dpkg.Psairborne := True
2129  2140  Perf_Background_Dpkg.Psautolat := False
2130  2141  Guid_Ext_Dpkg.Gcxxlatautoc := False
2131  2142  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
2132  2143  Perf_Background_Dpkg.Psengout := False
2133  2144  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2134	2145	Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
2135	2146	Perf_Dpkg.Repredict_Hm_Decel := True
2136	2147	Perf_Background_DPkg.Pshmdecel := True
2137	2148	Perf_Background_Dpkg.Pcholdflags.Hmactive := True
2138	2149	Perf_Ads_Dpkg.Fi_Enabled := False
2139	2150	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
2140	2151	Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
2141	2152	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
2142	2153	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
2143	2154	Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
2144	2155	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
2145	2156	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
2146	2157	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
2147	2158	Perf_Background_Dpkg.Psappspdlat := True
2148	2159	Perf_Dpkg.Pcengoutprds := Altpln
2149	2160	Perf_Background_Dpkg.Pcpathref := Onpath
2150	2161	Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
2151	2162	Perf_Background_DPkg.Pscurcas := 5.0
2152	2163	Perf_Background_DPkg.Pscurmach := 5.0
2153	2164	Perf_Background_DPkg.Pscurtas := 5.0
2154	2165	Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Stage1
2155	2166	Perf_Despath_Dpkg.Pcdespath.Vgavalid := False
2156	2167	Perf_Background_Dpkg.Pstogwtval := False
2157	2168	Perf_Background_Dpkg.Pstogwt := 50.0
2158	2169	Perf_Background_Dpkg.Pcgwind := Invalid
2159	2170	Perf_Background_Dpkg.Psgw := 0.0
2160	2171	Perf_Dpkg.Gross_Weight.Status := Valid
2161	2172	Perf_Dpkg.Gross_Weight.Data := 150.0
2162	2173	Perf_Integration_DPkg.Pcairbrakes := Fullab
2163	2174	Perf_Background_Dpkg.Pcacconfig := 5
2164	2175	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
2165	2176	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2166	2177	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2167	2178	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
2168	2179	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
2169	2180	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2170	2181	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2171	2182	Perf_Background_Dpkg.Psstpclbact := True
2172	2183	Perf_Background_Dpkg.Psstpdesact := True
2173	2184	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2174	2185	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2175	2186	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
2176	2187	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2177	2188	Perf_Background_Dpkg.Pccuraltcstr.Valid := True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2178   2189  Perf_Background_Dpkg.Pcprebcalt.Valid := True
2179   2190  Perf_Background_Dpkg.Pcgmttime.Hour := 1
2180   2191  Perf_Background_Dpkg.Pcgmttime.Minute := 1
2181   2192  Perf_Background_Dpkg.Pcgmttime.Second := 1
2182   2193  Perf_Background_Dpkg.Psinertvs := 5.0
2183   2194  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
2184   2195  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2185   2196  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2186   2197  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2187   2198  Perf_Ads_Dpkg.Pr_Enabled := False
2188   2199  ATC_DISCRETES_PKG:body.Adson_Flag := False
2189   2200  Perf_Integration_Dpkg.Psoldnoentgt := 1.0
2190   2201  Perf_Background_Dpkg.Pcoldcasmchi := Fmcs_Base_Types.Mach
2191   2202  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmecon
2192   2203  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
2193   2204  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
2194   2205  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
2195   2206  ^Noise_Speed_Val := False
2196   2207  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := True
2197   2208  Perf_Background_Dpkg.Noise_Data.Speed.Valid    := True
2198   2209  Perf_Background_Dpkg.Noise_Data.Thrust := Cdk_Entry_Tpkg.Drt1
2199   2210  Perf_Background_Dpkg.Noise_Data.Tspd.Valid := True
2200   2211  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
2201   2212  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
2202   2213  Perf_Background_Dpkg.Ac_Anti_Ice               := False
2203   2214  Perf_Integration_Dpkg.Psoldnoentgt            := 1.0
2204   2215
2205   2216  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
2206   2217  # go
2207   2218  Perf_Dpkg.takeoff_gwt.valid := True
2208   2219  Perf_Dpkg.takeoff_gwt.data := 400.0
2209   2220  Perf_Background_Dpkg.Psgetout := True
2210   2221  Perf_Background_Dpkg.Ref_Flight_Plan := 1
2211   2222  Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid := True
2212   2223  #DELB/ALL
2213         #sba prf_bkgnd_pkg.get_bk_Data #1466
       2224  #sba prf_bkgnd_pkg.get_bk_Data #1473
2214   2225  #go
2215   2226  Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
2216   2227  Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2217   2228  Perf_Background_Dpkg.Noise_Data.Thrust = Drtnone
2218   2229  Perf_Background_Dpkg.Noise_Data.Tspd.Valid = False
2219   2230
2220   2231  !run_test()
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2221   2232
2222   2233  -- Outputs
2223   2234
2224   2235  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec = True
2225   2236  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec = True
2226   2237  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec = True
2227   2238  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
2228   2239  Perf_Background_Dpkg.Pcoldcasmchi = Cas
2229   2240  Perf_Dpkg.Pcengoutprds = PRDSTODEST
2230   2241  Perf_Despath_Dpkg.Pcdespath.Vgavalid = False
2231   2242  Perf_Background_Dpkg.Psautolat = False
2232   2243  Perf_Background_Dpkg.Psengout = True
2233   2244  Perf_Background_Dpkg.Pcfltphase = Cruise
2234   2245  Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmspd
2235   2246  Perf_Background_DPkg.Pscurcas = 5.0
2236   2247  Perf_Background_DPkg.Pscurmach = 5.0
2237   2248  Perf_Background_DPkg.Pscurtas = 5.0
2238   2249  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
2239   2250  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
2240   2251  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
2241   2252  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
2242   2253  Perf_Background_Dpkg.Ac_Anti_Ice = True
2243   2254
2244   2255  ----------------------------------------------------------------------------------------------------
             » --
2245   2256  TESTID: 6
2246   2257
2247   2258      Verify that when current itinerary is Fuel_Plan_Stage1 and Psgetout set to False,then
2248   2259      Invalidate the descent path to ensure that it is rebuilt. (PERF_SDD_3681_INT).
2249   2260      PERF_SDD_3053_INT, PERF_SDD_3681_INT
2250   2261      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2251   2262              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2252   2263              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2253   2264
2254   2265      Cdk_Vert_Dpkg.Engine_Out indicates that there is an Engine Out.
2255   2266
2256   2267      If not ( Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is curren
             » tly in Noise
2257   2268      Ramp segment and no engine out condition exist) then, the validity of Perf_Background_Dpkg.Noise_Data.Altitude &
2258   2269      Perf_Background_Dpkg.Noise_Data.Tspd shall be set to invalid and Perf_Background_Dpkg.Noise_Data.Thrust is set to
             » no derate
2259   2270      (Cdk_Entry_Tpkg.Drtnone).
2260   2271      PERF_SDD_4339 (PERF_SRD_12371_INT)
2261   2272
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2262  2273        The anti ice validity flag is set to false when it invalid.
2263  2274        PERF_SDD_07169_INT
2264  2275
2265  2276        The Current Itinary is FUEL PLANNING STAGE 1 and descent path is retrieved from descent path object manager.
2266  2277        PERF_SDD_3682_INT
2267  2278
2268  2279        The bleeds data: the engine cowl, wing and air conditioning bleeds validity flags are set to false when it invalid
2269  2280        PERF_SDD_4328 (PERF_SRD_10166_INT)
2270  2281
2271  2282
2272  2283  -- INPUTS
2273  2284  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
2274  2285  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
2275  2286  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
2276  2287  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
2277  2288  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
2278  2289  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := false
2279  2290  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := false
2280  2291  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := false
2281  2292  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := false
2282  2293  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := false
2283  2294  Perf_Dpkg.Min_Gwt := 100.0
2284  2295  Perf_Dpkg.Max_Gwt := 400.0
2285  2296  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
2286  2297  Perf_Background_Dpkg.Psignorehm := True
2287  2298  Perf_Background_Dpkg.Pcfltphase := Cruise
2288  2299  Perf_Background_Dpkg.Ats_Enable := True
2289  2300  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
2290  2301  Perf_Background_Dpkg.Psacalt := 10000.0
2291  2302  Perf_Database_Dpkg.Psmmo := 0.45
2292  2303  Perf_Background_Dpkg.Pszfw := 300.0
2293  2304  Perf_Background_Dpkg.Psblockfuel := 50.0
2294  2305  Perf_Background_Dpkg.Pstaxifuel := 25.0
2295  2306  Perf_Background_Dpkg.Psairborne := True
2296  2307  Perf_Background_Dpkg.Psautolat := False
2297  2308  Guid_Ext_Dpkg.Gcxxlatautoc := False
2298  2309  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := True
2299  2310  Perf_Background_Dpkg.Psengout := False
2300  2311  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
2301  2312  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
2302  2313  Perf_Dpkg.Repredict_Hm_Decel := True
2303  2314  Perf_Background_DPkg.Pshmdecel := True
2304  2315  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
2305  2316  Perf_Ads_Dpkg.Fi_Enabled := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2306	2317	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
2307	2318	Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
2308	2319	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
2309	2320	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
2310	2321	Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
2311	2322	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
2312	2323	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
2313	2324	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
2314	2325	Perf_Background_Dpkg.Psappspdlat := True
2315	2326	Perf_Dpkg.Pcengoutprds := Altpln
2316	2327	Perf_Background_Dpkg.Pcpathref := Onpath
2317	2328	Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
2318	2329	Perf_Background_DPkg.Pscurcas := 5.0
2319	2330	Perf_Background_DPkg.Pscurmach := 5.0
2320	2331	Perf_Background_DPkg.Pscurtas := 5.0
2321	2332	Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
2322	2333	Perf_Background_Dpkg.Pstogwtval := False
2323	2334	Perf_Background_Dpkg.Pstogwt := 50.0
2324	2335	Perf_Background_Dpkg.Pcgwind := Invalid
2325	2336	Perf_Background_Dpkg.Psgw := 0.0
2326	2337	Perf_Dpkg.Gross_Weight.Status := Valid
2327	2338	Perf_Dpkg.Gross_Weight.Data := 150.0
2328	2339	Perf_Integration_DPkg.Pcairbrakes := Fullab
2329	2340	Perf_Background_Dpkg.Pcacconfig := 5
2330	2341	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
2331	2342	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2332	2343	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2333	2344	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
2334	2345	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
2335	2346	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2336	2347	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2337	2348	Perf_Background_Dpkg.Psstpclbact := True
2338	2349	Perf_Background_Dpkg.Psstpdesact := True
2339	2350	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2340	2351	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2341	2352	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
2342	2353	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2343	2354	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
2344	2355	Perf_Background_Dpkg.Pcprebcalt.Valid := True
2345	2356	Perf_Background_Dpkg.Pcgmttime.Hour := 1
2346	2357	Perf_Background_Dpkg.Pcgmttime.Minute := 1
2347	2358	Perf_Background_Dpkg.Pcgmttime.Second := 1
2348	2359	Perf_Background_Dpkg.Psinertvs := 5.0
2349	2360	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2350   2361  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2351   2362  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2352   2363  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2353   2364  Perf_Ads_Dpkg.Pr_Enabled := False
2354   2365  ATC_DISCRETES_PKG:body.Adson_Flag := False
2355   2366  Perf_Integration_Dpkg.Psoldnoentgt := 1.0
2356   2367  Perf_Background_Dpkg.Pcoldcasmchi := Cas
2357   2368  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmecon
2358   2369  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := False
2359   2370  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := False
2360   2371  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
2361   2372  ^Noise_Speed_Val := False
2362   2373  Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Stage1
2363   2374  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
2364   2375  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
2365   2376  Perf_Background_Dpkg.Ac_Anti_Ice                := True
2366   2377  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai        := True
2367   2378  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai          := True
2368   2379  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond         := True
2369   2380
2370   2381  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := True
2371   2382  Perf_Background_Dpkg.Noise_Data.Speed.Valid    := True
2372   2383  Perf_Background_Dpkg.Noise_Data.Thrust := Cdk_Entry_Tpkg.Drt1
2373   2384  Perf_Background_Dpkg.Noise_Data.Tspd.Valid := True
2374   2385
2375   2386  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
2376   2387  # go
2377   2388  Perf_Dpkg.takeoff_gwt.valid := True
2378   2389  Perf_Dpkg.takeoff_gwt.data := 400.0
2379   2390  Perf_Background_Dpkg.Psgetout := False
2380   2391  #DELB/ALL
2381         #sba prf_bkgnd_pkg.get_bk_Data #1466
       2392  #sba prf_bkgnd_pkg.get_bk_Data #1473
2382   2393  #go
2383   2394  Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
2384   2395  Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2385   2396  Perf_Background_Dpkg.Noise_Data.Thrust = Drtnone
2386   2397  Perf_Background_Dpkg.Noise_Data.Tspd.Valid = False
2387   2398
2388   2399  !run_test()
2389   2400
2390   2401  -- OUTPUTS
2391   2402
2392   2403  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2393   2404   Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
2394   2405   Perf_Despath_Dpkg.Pcdespath.Vgavalid = False
2395   2406   Perf_Background_Dpkg.Psautolat = False
2396   2407   Perf_Background_Dpkg.Psengout = True
2397   2408   Perf_Background_Dpkg.Pcfltphase = Cruise
2398   2409   Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmspd
2399   2410   Perf_Background_DPkg.Pscurcas = 5.0
2400   2411   Perf_Background_DPkg.Pscurmach = 5.0
2401   2412   Perf_Background_DPkg.Pscurtas = 5.0
2402   2413   CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
2403   2414   Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = False
2404   2415   Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = False
2405   2416   Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = False
2406   2417   Perf_Background_Dpkg.Ac_Anti_Ice = False
2407   2418
2408   2419   -------------------------------------------------------------------------------------------------------
             » --
2409   2420   TESTID: 7
2410   2421
2411   2422       Verify that when itin is Secprim that descent path is not invalidated.
2412   2423       The Current Itinary is secondary and descent path is retrieved from descent path object manager.(PERF_SDD_3682_INT
             » ).
2413   2424
2414   2425       For an independent from-to pair Secondaryn flight plan, the starting predictions data shall be set up
2415   2426       as if the aircraft were sitting on the ground in pre-flight at the origin airport of the Secondaryn flight plan,
2416   2427       rather than from the current aircraft state.  Thus, following data are set:
2417   2428       - The airborne flag (Psairborne) is set false.
2418   2429       - Auto lateral mode (Psautolat) is set to true.
2419   2430       - Engine out flag (Psengout) is set to false.
2420   2431       - The current flightphase (Pcfltphase) is set to pre-flight.
2421   2432       - Speed mode (Pcspeedmode) is set to Vmecon.
2422   2433       - Despath reference (Pcpathref) is set to Nopath.
2423   2434       - Current GMT time (Pcgmttime) (Hours, Minutes & Seconds) is set to zero.
2424   2435       - Inertial vertical speed (Psinertvs) is set to zero.
2425   2436       - Current aircraft speeds (Pscurtas, Pscurmach & Pscurcas) are set to zero.
2426   2437       - Validity of Aircraft True air speed (Pscurtasvalid) set to False
2427   2438       - Aircraft configuration (Pcacconfig) is set to clean.
2428   2439       - Airbrakes (Pcairbrakes) are set to zero airbrakes.
2429   2440       - Constraint management (Pccuraltcstr) validity is set to false.
2430   2441       - Previous captured barometric altitude (Pcprebcalt) validity is set to false.
2431   2442       - All the flags in the perf hold flag record (Pcholdflags) are set to false.
2432   2443       - All the flags in the descent limit latch record (Pcdeslimlat) are set to false.
2433   2444       - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false.
2434   2445       - Flag indicating aircraft is within 3 NM prior to the entry of the HM(Psconsider_Hm) is       set to false.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2435	2446	- Flag indicating aircraft is in HA/HF decel zone (Pshxpxdecel) is set to false.
2436	2447	- Flag indicating aircraft is in HM decel zone (Pshmdecel) is set to false.
2437	2448	- Flag indicating to Ignore HM (Psignorehm) is set to true.
2438	2449	- Background step climb & step descent active flags (Psstpclbact & Psstpdesact) are set to false.
2439	2450	- Engines off status (Psenginesoff) is set to true (off).
2440	2451	- Aircraft engine or wing anti ice (Ac_Anti_Ice) is set to false (Off).
2441	2452	- Aircraft bleeds status (Ac_Bleeds); Engine Cowl Anti-Ice bleed, Wing Anti-Ice Bleed and
2442	2453	Air Conditioning Bleed are set to false (off).
2443	2454	- Cruise altitude (Pscrzalt) data is set by calling procedure
2444	2455	Fpln_Ext_Dpkg.Get_Cruise_Alt.
2445	2456	- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
2446	2457	Data and Valid values respectively.
2447	2458	- Valid cruise altitude flag (Valcrzalt) is set from the retrieved cruise altitude data.
2448	2459	- ADC/FG input data (Adc_Fg_Valid) validity is set to true.
2449	2460	- Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to true.
2450	2461	- The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
		» ctions.
2451	2462	- The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
		» ximum_Alt.
2452	2463	- The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
		» Maximum_Alt.
2453	2464	
2454	2465	These initializations make predictions independent of the Active Primary flightplan and current aircraft character
		» istics
2455	2466	
2456	2467	in this case,
2457	2468	flight plan is Secondary
2458	2469	the current itinerary is primary flight plan predictions
2459	2470	PERF_SDD_4796(PERF_SRD_1592, PERF_SRD_23775, PERF_SRD_6005_INT)
2460	2471	
2461	2472	If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in
		» Noise Ramp
2462	2473	segment and no engine out condition exist then the following noise data shall be set up for background's usage:
2463	2474	PERF_SDD_5607_INT
2464	2475	
2465	2476	The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_A
		» lt obtained
2466	2477	from FPLN.
2467	2478	PERF_SDD_5608_INT
2468	2479	
2469	2480	Here, Cdk_Vert_Dpkg.Engine_Out indicates that there is no Engine Out.
2470	2481	
2471	2482	If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed sha
		» ll be set to

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2472  2483      valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
2473  2484      As in this TC, Noise_Speed_Val is False, the validity of Perf_Background_Dpkg.Noise_Data.Speed is set to False.
2474  2485      PERF_SDD_5610_INT
2475  2486
2476  2487
2477  2488  -- INPUTS
2478  2489  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
2479  2490  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
2480  2491  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
2481  2492  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
2482  2493  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
2483  2494  Perf_Dpkg.Min_Gwt := 100.0
2484  2495  Perf_Dpkg.Max_Gwt := 400.0
2485  2496  Prf_Bkgnd_Pkg:BODY.Valcrzalt := False
2486  2497  Perf_Background_Dpkg.Pcactorsec:= Secondary
2487  2498  Perf_Background_Dpkg.Flight_Plan_Type := No_Preds
2488  2499  Perf_Background_Dpkg.Pcitin.Flight_Plan := Secondary
2489  2500  Perf_Background_Dpkg.Psignorehm := False
2490  2501  Perf_Background_Dpkg.Pcfltphase := Cruise
2491  2502  Perf_Background_Dpkg.Ats_Enable := True
2492  2503  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
2493  2504  Perf_Background_Dpkg.Psacalt := 10000.0
2494  2505  Perf_Database_Dpkg.Psmmo := 0.45
2495  2506  Perf_Background_Dpkg.Pszfw := 300.0
2496  2507  Perf_Background_Dpkg.Psblockfuel := 50.0
2497  2508  Perf_Background_Dpkg.Pstaxifuel := 25.0
2498  2509  Perf_Background_Dpkg.Psairborne := True
2499  2510  Perf_Background_Dpkg.Psautolat := False
2500  2511  Guid_Ext_Dpkg.Gcxxlatautoc := False
2501  2512  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
2502  2513  Perf_Background_Dpkg.Psengout := True
2503  2514  Cdk_Vert_Dpkg:Body.Engine_Out_I := False
2504  2515  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
2505  2516  Perf_Dpkg.Repredict_Hm_Decel := True
2506  2517  Perf_Background_DPkg.Pshmdecel := True
2507  2518  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
2508  2519  Perf_Ads_Dpkg.Fi_Enabled := False
2509  2520  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
2510  2521  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
2511  2522  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
2512  2523  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
2513  2524  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
2514  2525  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
2515  2526  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2516    2527  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
2517    2528  Perf_Background_Dpkg.Psappspdlat := True
2518    2529  Perf_Dpkg.Pcengoutprds := Altpln
2519    2530  Perf_Background_Dpkg.Pcpathref := Onpath
2520    2531  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
2521    2532  Perf_Background_DPkg.Pscurcas := 5.0
2522    2533  Perf_Background_DPkg.Pscurmach := 5.0
2523    2534  Perf_Background_DPkg.Pscurtas := 5.0
2524    2535  Perf_Background_Dpkg.Psenginesoff := False
2525    2536  Perf_Despath_Dpkg.Pcdespath.Vgavalid := False
2526    2537  Perf_Background_Dpkg.Pstogwtval := False
2527    2538  Perf_Background_Dpkg.Pstogwt := 50.0
2528    2539  Perf_Background_Dpkg.Pcgwind := Invalid
2529    2540  Perf_Background_Dpkg.Psgw := 0.0
2530    2541  Perf_Dpkg.Gross_Weight.Status := Valid
2531    2542  Perf_Dpkg.Gross_Weight.Data := 150.0
2532    2543  Perf_Integration_DPkg.Pcairbrakes := Fullab
2533    2544  Perf_Background_Dpkg.Pcacconfig := 5
2534    2545  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := True
2535    2546  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2536    2547  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2537    2548  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
2538    2549  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
2539    2550  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2540    2551  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2541    2552  Perf_Background_Dpkg.Psstpclbact := True
2542    2553  Perf_Background_Dpkg.Psstpdesact := True
2543    2554  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2544    2555  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2545    2556  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
2546    2557  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2547    2558  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
2548    2559  Perf_Background_Dpkg.Pcprebcalt.Valid := True
2549    2560  Perf_Background_Dpkg.Pcgmttime.Hour := 1
2550    2561  Perf_Background_Dpkg.Pcgmttime.Minute := 1
2551    2562  Perf_Background_Dpkg.Pcgmttime.Second := 1
2552    2563  Perf_Background_Dpkg.Psinertvs := 5.0
2553    2564  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
2554    2565  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2555    2566  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2556    2567  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2557    2568  Perf_Ads_Dpkg.Pr_Enabled := False
2558    2569  ATC_DISCRETES_PKG:body.Adson_Flag := False
2559    2570  Perf_Integration_Dpkg.Psoldnoentgt := 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2560  2571  Perf_Background_Dpkg.Pcoldcasmchi := Fmcs_Base_Types.Mach
2561  2572  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
2562  2573  Perf_Background_Dpkg.Adc_Fg_Valid := False
2563  2574  Prf_Bkgnd_Pkg:body.Fgspdsvalid := False
2564  2575  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
2565  2576  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Val := False
2566  2577  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt :=  300.0
2567  2578  Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
2568  2579  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
2569  2580  Perf_Background_Dpkg.Noise_Data.Speed.Valid := True
2570  2581  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
2571  2582  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
2572  2583  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
2573  2584  Perf_Background_Dpkg.Ac_Crosstrack_Error        := 2.5
2574  2585
2575  2586  Perf_Background_Dpkg.Pscurtasvalid                := True
2576  2587  Perf_Background_Dpkg.Psconsider_Hm               := True
2577  2588  Perf_Background_Dpkg.Pshxpxdecel                 := True
2578  2589  Perf_Background_Dpkg.Ac_Anti_Ice                 := True
2579  2590  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai         := True
2580  2591  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai           := True
2581  2592  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond          := True
2582  2593  Perf_Background_Dpkg.Pcholdflags.Consider_Hm     := True
2583  2594  #define Get_Cruise_Alt_Called := False
2584  2595
2585  2596  Perf_Dpkg.takeoff_gwt.valid := True
2586  2597  Perf_Dpkg.takeoff_gwt.data := 400.0
2587  2598  Perf_Background_Dpkg.Psgetout := True
2588  2599  Perf_Background_Dpkg.Ref_Flight_Plan := 1
2589  2600  Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid := True
2590  2601  Perf_Despath_Dpkg.Pcdespath.Vgavalid := true
2591  2602  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
2592  2603  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
2593  2604  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
2594  2605  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.20
2595  2606  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.30
2596  2607  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid := false
2597  2608  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid := false
2598  2609  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data := 0.00
2599  2610  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data := 0.00
2600  2611  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid  := False
2601  2612  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data   := 0.0
2602  2613
2603  2614  #sba Fpln_Ext_Dpkg.Get_Cruise_Alt after_elab begin
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2604   2615  #define Get_Cruise_Alt_Called    := True
2605   2616  #go
2606   2617  #end
2607   2618
2608   2619  !run_test()
2609   2620
2610   2621  -- OUTPUTS
2611   2622
2612   2623  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
2613   2624  Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
2614   2625  Perf_Despath_Dpkg.Pcdespath.Vgavalid /= False
2615   2626
2616   2627  Perf_Background_Dpkg.Psairborne = False
2617   2628  Perf_Background_Dpkg.Psautolat = True
2618   2629  Perf_Background_Dpkg.Psengout = False
2619   2630  Perf_Background_Dpkg.Psgetout = TRUE
2620   2631  Perf_Background_Dpkg.Pcfltphase = Preflight
2621   2632  Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
2622   2633  Perf_Background_Dpkg.Psinertvs = 0.0
2623   2634  Perf_Background_Dpkg.Pcpathref = Nopath
2624   2635  Perf_Background_Dpkg.Pscurtasvalid = False
2625   2636  Perf_Background_Dpkg.Pcacconfig = Clean
2626   2637  Perf_Integration_Dpkg.Pcairbrakes = Zeroab
2627   2638  Perf_Background_Dpkg.Pccuraltcstr.Valid = False
2628   2639  Perf_Background_Dpkg.Pcprebcalt.Valid = False
2629   2640  Perf_Background_Dpkg.Psappspdlat      = False
2630   2641  Perf_Background_DPkg.Pshmdecel        = False
2631   2642  Perf_Background_Dpkg.Psconsider_Hm    = False
2632   2643  Perf_Background_Dpkg.Pshxpxdecel      = False
2633   2644  Perf_Background_Dpkg.Psignorehm       = True
2634   2645  Perf_Background_Dpkg.Psstpclbact = False
2635   2646  Perf_Background_Dpkg.Psstpdesact = False
2636   2647  Perf_Background_Dpkg.Psenginesoff = True
2637   2648  Perf_Background_Dpkg.Ac_Anti_Ice  = False
2638   2649  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = False
2639   2650  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai   = False
2640   2651  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond  = False
2641   2652  Prf_Bkgnd_Pkg:BODY.Valcrzalt = Perf_Background_Dpkg.Pscrzalt.Valid
2642   2653  Perf_Background_Dpkg.Adc_Fg_Valid = True
2643   2654  Prf_Bkgnd_Pkg:body.Fgspdsvalid = True
2644   2655  Perf_Background_Dpkg.Pcholdflags.Hmdecel = False
2645   2656  Perf_Background_Dpkg.Pcholdflags.Hmactive = False
2646   2657  Perf_Background_Dpkg.Pcholdflags.Manhmwarn = False
2647   2658  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel = False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2648   2659   Perf_Background_Dpkg.Pcholdflags.Hxpxactiv = False
2649   2660   Perf_Background_Dpkg.Pcholdflags.Hmdistval = False
2650   2661   Perf_Background_Dpkg.Pcholdflags.Consider_Hm =False
2651   2662   Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = False
2652   2663   Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = False
2653   2664   Perf_Integration_Dpkg.Pcdeslimlat.Desdecel = False
2654   2665   Perf_Background_Dpkg.Pcgmttime.Hour = 0
2655   2666   Perf_Background_Dpkg.Pcgmttime.Minute = 0
2656   2667   Perf_Background_Dpkg.Pcgmttime.Second = 0
2657   2668   Perf_Background_DPkg.Pscurcas = 0.0
2658   2669   Perf_Background_DPkg.Pscurmach = 0.0
2659   2670   Perf_Background_DPkg.Pscurtas = 0.0
2660   2671   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 0.0
2661   2672   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach = 0.0
2662   2673   CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
2663   2674   Perf_Background_Dpkg.Ac_Crosstrack_Error      = 0.0
2664   2675   Get_Cruise_Alt_Called                         = True
2665   2676   Perf_Background_Dpkg.Noise_Data.Altitude.Valid = True
2666   2677   Perf_Background_Dpkg.Noise_Data.Altitude.Data  = 300.0
2667   2678   Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2668   2679   Perf_Background_Dpkg.Secn_Fpln_Itin = True
2669   2680   Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid = True
2670   2681   Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid = True
2671   2682   Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data = 32.20
2672   2683   Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data = 32.30
2673   2684   Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid  = True
2674   2685   Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data   = 5.0
2675   2686
2676   2687   ------------------------------------------------------------------------------------------------------
             » --
2677   2688   TESTID: 8
2678   2689
2679   2690      If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
2680   2691      Approach, then the Optimum Descent speeds shall be set as follows:
2681   2692      if the following are true:
2682   2693       - VG Partially-Limited CAS is non-zero, and Any of the following are true:
2683   2694         - The A/C is currently in a deceleration, and either:
2684   2695           - The predictions count is less than or equal to one, or
2685   2696           - The current working flight plan is Active and the difference between the current prediction sequence
2686   2697             counter and starting prediction sequence counter is less than or equal to 2, or
2687   2698           - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
2688   2699             being processed is Current Mode predictions(Normal or High Priority) ,or
2689   2700           - First Preds After Insert Temporary indication is True;
2690   2701         - The A/C is not in Auto Lateral mode,
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2691| 2702|         - Approach Speeds have been latched.
2692| 2703|      then,
2693| 2704|        Optimum Descent CAS is set to the VG Partially-Limited CAS
2694| 2705|      otherwise,
2695| 2706|        Optimum Descent CAS is set to current VG CAS target.
2696| 2707|      -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
2697| 2708|      -- VG Partially-Limited CAS is zero.
2698| 2709|      -- Optimum Descent CAS is set to current VG CAS target.
2699| 2710|      PERF_SDD_2249_INT
2700| 2711|      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2701| 2712|              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2702| 2713|              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2703| 2714|
2704| 2715|      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
2705| 2716|      working flight plan.
2706| 2717|      PERF_SDD_4328 (PERF_SRD_10166_INT)
2707| 2718|
2708| 2719|
2709| 2720|-- INPUTS
2710| 2721|CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
2711| 2722|CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
2712| 2723|CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
2713| 2724|CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
2714| 2725|CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
2715| 2726|CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
2716| 2727|CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
2717| 2728|CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
2718| 2729|CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
2719| 2730|CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
2720| 2731|Guid_Spds_Dpkg.Vc3prtlimcas := 0.0
2721| 2732|Perf_Dpkg.Min_Gwt := 100.0
2722| 2733|Perf_Dpkg.Max_Gwt := 400.0
2723| 2734|Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
2724| 2735|Perf_Background_Dpkg.Psignorehm := True
2725| 2736|Perf_Background_Dpkg.Pcfltphase := Descent
2726| 2737|Perf_Background_Dpkg.Ats_Enable := True
2727| 2738|CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
2728| 2739|Perf_Background_Dpkg.Psacalt := 10000.0
2729| 2740|Perf_Database_Dpkg.Psmmo := 0.45
2730| 2741|Perf_Background_Dpkg.Pszfw := 300.0
2731| 2742|Perf_Background_Dpkg.Psblockfuel := 50.0
2732| 2743|Perf_Background_Dpkg.Pstaxifuel := 25.0
2733| 2744|Perf_Background_Dpkg.Psairborne := True
2734| 2745|Perf_Background_Dpkg.Psautolat := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2735   2746   Guid_Ext_Dpkg.Gcxxlatautoc := False
2736   2747   Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
2737   2748   Perf_Background_Dpkg.Psengout := True
2738   2749   Cdk_Vert_Dpkg:Body.Engine_Out_I := True
2739   2750   Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
2740   2751   Perf_Dpkg.Repredict_Hm_Decel := True
2741   2752   Perf_Background_DPkg.Pshmdecel := True
2742   2753   Perf_Background_Dpkg.Pcholdflags.Hmactive := True
2743   2754   Perf_Ads_Dpkg.Fi_Enabled := False
2744   2755   Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
2745   2756   Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
2746   2757   Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
2747   2758   Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
2748   2759   Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
2749   2760   Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
2750   2761   Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
2751   2762   Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
2752   2763   Perf_Background_Dpkg.Psappspdlat := True
2753   2764   Perf_Dpkg.Pcengoutprds := Altpln
2754   2765   Perf_Background_Dpkg.Pcpathref := Onpath
2755   2766   Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
2756   2767   Perf_Background_DPkg.Pscurcas := 5.0
2757   2768   Perf_Background_DPkg.Pscurmach := 5.0
2758   2769   Perf_Background_DPkg.Pscurtas := 5.0
2759   2770   Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
2760   2771   Perf_Background_Dpkg.Pstogwtval := False
2761   2772   Perf_Background_Dpkg.Pstogwt := 50.0
2762   2773   Perf_Background_Dpkg.Pcgwind := Invalid
2763   2774   Perf_Background_Dpkg.Psgw := 0.0
2764   2775   Perf_Dpkg.Gross_Weight.Status := Valid
2765   2776   Perf_Dpkg.Gross_Weight.Data := 150.0
2766   2777   Perf_Integration_DPkg.Pcairbrakes := Fullab
2767   2778   Perf_Background_Dpkg.Pcacconfig := 5
2768   2779   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
2769   2780   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2770   2781   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2771   2782   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
2772   2783   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2773   2784   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2774   2785   Perf_Background_Dpkg.Psstpclbact := True
2775   2786   Perf_Background_Dpkg.Psstpdesact := True
2776   2787   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2777   2788   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2778   2789   Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2779	2790	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2780	2791	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
2781	2792	Perf_Background_Dpkg.Pcprebcalt.Valid := True
2782	2793	Perf_Background_Dpkg.Pcgmttime.Hour := 1
2783	2794	Perf_Background_Dpkg.Pcgmttime.Minute := 1
2784	2795	Perf_Background_Dpkg.Pcgmttime.Second := 1
2785	2796	Perf_Background_Dpkg.Psinertvs := 5.0
2786	2797	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
2787	2798	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2788	2799	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2789	2800	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2790	2801	Perf_Ads_Dpkg.Pr_Enabled := False
2791	2802	ATC_DISCRETES_PKG:body.Adson_Flag := False
2792	2803	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
2793	2804	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
2794	2805	^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
2795	2806	Perf_Background_Dpkg.Pcactorsec:= Secondary
2796	2807	-- Reset Outputs
2797	2808	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
2798	2809	# go
2799	2810	Perf_Dpkg.takeoff_gwt.valid := True
2800	2811	Perf_Dpkg.takeoff_gwt.data := 400.0
2801		~~#sba prf_bkgnd_pkg.get_bk_Data #1466~~
	2812	#sba prf_bkgnd_pkg.get_bk_Data #1473
2802	2813	#go
2803	2814	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
2804	2815	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2805	2816	!run_test()
2806	2817	
2807	2818	-- OUTPUTS
2808	2819	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 345.0
2809	2820	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach = 0.65
2810	2821	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
2811	2822	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
2812	2823	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
2813	2824	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
2814	2825	
2815	2826	-- » --
2816	2827	TESTID: 9
2817	2828	
2818	2829	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum De » scent Mach
2819	2830	shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
                    » ;otherwise,
 2820   2831          if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.
 2821   2832
 2822   2833        the current flight phase is not climb then:
 2823   2834        the real time climb speeds are valid for current working flight plan then Optimum Econ/LRC climb CAS and Mach are
 2824   2835        not set to the real time climb CAS and Mach speeds respectively for the current working flight plan.
 2825   2836        Flag indicating the speed targets from FG are valid (Fgspdsvalid) is not set to False.
 2826   2837        PERF_SDD_2276_INT, PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455),
 2827   2838        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
 2828   2839               PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
 2829   2840               PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
 2830   2841
 2831   2842        The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
 2832   2843        working flight plan.
 2833   2844
 2834   2845        PERF_SDD_4328 (PERF_SRD_10166_INT)
 2835   2846
 2836   2847        The Tailwind, Crosswind and their validity at destination along the runway axis shall be retrieved
 2837   2848        for the working flight plan.
 2838   2849        PERF_SDD_07188_INT
 2839   2850
 2840   2851
 2841   2852 -- INPUTS
 2842   2853 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
 2843   2854 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
 2844   2855 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
 2845   2856 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
 2846   2857 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
 2847   2858 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
 2848   2859 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
 2849   2860 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
 2850   2861 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
 2851   2862 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
 2852   2863 Perf_Background_Dpkg.Pcactorsec := Active
 2853   2864 Perf_Background_Dpkg.Dest_Wind_Components.Dest_Wind_Valid := False
 2854   2865 Perf_Background_Dpkg.Dest_Wind_Components.Psvcdu := 0.0
 2855   2866 Perf_Background_Dpkg.Dest_Wind_Components.Psvcdy := 0.0
 2856   2867 Perf_Retained_Dpkg.Psvcdu(Active).Valid := True
 2857   2868 Perf_Retained_Dpkg.Psvcdu(Active).Data := 1.01
 2858   2869 Perf_Retained_Dpkg.Psvcdy(Active).Data := 1.01
 2859   2870 Perf_Dpkg.Min_Gwt := 100.0
 2860   2871 Perf_Dpkg.Max_Gwt := 400.0
 2861   2872 Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
 2862   2873 Perf_Background_Dpkg.Psignorehm := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2863 | 2874 | Perf_Background_Dpkg.Pcfltphase := Approach
2864 | 2875 | Perf_Background_Dpkg.Ats_Enable := True
2865 | 2876 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Approach
2866 | 2877 | Perf_Background_Dpkg.Psacalt := 10000.0
2867 | 2878 | Perf_Database_Dpkg.Psmmo := 0.45
2868 | 2879 | Perf_Background_Dpkg.Pszfw := 300.0
2869 | 2880 | Perf_Background_Dpkg.Psblockfuel := 50.0
2870 | 2881 | Perf_Background_Dpkg.Pstaxifuel := 25.0
2871 | 2882 | Perf_Background_Dpkg.Psairborne := True
2872 | 2883 | Perf_Background_Dpkg.Psautolat := False
2873 | 2884 | Guid_Ext_Dpkg.Gcxxlatautoc := False
2874 | 2885 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
2875 | 2886 | Perf_Background_Dpkg.Psengout := True
2876 | 2887 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
2877 | 2888 | Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
2878 | 2889 | Perf_Dpkg.Repredict_Hm_Decel := True
2879 | 2890 | Perf_Background_DPkg.Pshmdecel := True
2880 | 2891 | Perf_Background_Dpkg.Pcholdflags.Hmactive := True
2881 | 2892 | Perf_Ads_Dpkg.Fi_Enabled := False
2882 | 2893 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
2883 | 2894 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
2884 | 2895 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
2885 | 2896 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
2886 | 2897 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
2887 | 2898 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
2888 | 2899 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
2889 | 2900 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
2890 | 2901 | Perf_Background_Dpkg.Psappspdlat := True
2891 | 2902 | Perf_Dpkg.Pcengoutprds := Altpln
2892 | 2903 | Perf_Background_Dpkg.Pcpathref := Onpath
2893 | 2904 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
2894 | 2905 | Perf_Background_DPkg.Pscurcas := 5.0
2895 | 2906 | Perf_Background_DPkg.Pscurmach := 5.0
2896 | 2907 | Perf_Background_DPkg.Pscurtas := 5.0
2897 | 2908 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
2898 | 2909 | Perf_Background_Dpkg.Pstogwtval := False
2899 | 2910 | Perf_Background_Dpkg.Pstogwt := 50.0
2900 | 2911 | Perf_Background_Dpkg.Pcgwind := Invalid
2901 | 2912 | Perf_Background_Dpkg.Psgw := 0.0
2902 | 2913 | Perf_Dpkg.Gross_Weight.Status := Valid
2903 | 2914 | Perf_Dpkg.Gross_Weight.Data := 150.0
2904 | 2915 | Perf_Integration_DPkg.Pcairbrakes := Fullab
2905 | 2916 | Perf_Background_Dpkg.Pcacconfig := 5
2906 | 2917 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2907	2918	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
2908	2919	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
2909	2920	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
2910	2921	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
2911	2922	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
2912	2923	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Valid := True
2913	2924	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Cas := 266.0
2914	2925	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Mach := 0.56
2915	2926	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
2916	2927	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 267.0
2917	2928	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.57
2918	2929	Perf_Background_Dpkg.Psstpclbact := True
2919	2930	Perf_Background_Dpkg.Psstpdesact := True
2920	2931	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
2921	2932	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
2922	2933	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
2923	2934	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
2924	2935	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
2925	2936	Perf_Background_Dpkg.Pcprebcalt.Valid := True
2926	2937	Perf_Background_Dpkg.Pcgmttime.Hour := 1
2927	2938	Perf_Background_Dpkg.Pcgmttime.Minute := 1
2928	2939	Perf_Background_Dpkg.Pcgmttime.Second := 1
2929	2940	Perf_Background_Dpkg.Psinertvs := 5.0
2930	2941	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
2931	2942	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
2932	2943	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
2933	2944	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
2934	2945	Perf_Ads_Dpkg.Pr_Enabled := False
2935	2946	ATC_DISCRETES_PKG:body.Adson_Flag := False
2936	2947	Perf_Ads_Dpkg.Ii_Enabled := True
2937	2948	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
2938	2949	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
2939	2950	^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
2940	2951	Perf_Dpkg.takeoff_gwt.valid := True
2941	2952	Perf_Dpkg.takeoff_gwt.data := 400.0
2942	2953	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target := True
2943	2954	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
2944	2955	Perf_Background_Dpkg.Psecncrzmach := 0.0
2945	2956	Perf_Background_Dpkg.Psecncrzcas := 0.0
2946	2957	--this breakpoint is set to verify the variables
2947		#sba prf_bkgnd_pkg.get_bk_Data #1041
	2958	#sba prf_bkgnd_pkg.get_bk_Data #1048
2948	2959	# go
2949	2960	Perf_Speeds(Active)(Cruise).Valid = TRUE

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

2950	2961	Perf_Speeds(Active)(Climb).Valid = TRUE
2951	2962	Perf_Speeds(Active)(Descent).Valid = TRUE
2952	2963	
2953	2964	Perf_Speeds(Active)(Climb).Mach = 0.56
2954	2965	Perf_Speeds(Active)(Climb).Cas = 266.0
2955	2966	Perf_Speeds(Active)(Cruise).Mach = 0.57
2956	2967	Perf_Speeds(Active)(Cruise).Cas = 267.0
2957	2968	Perf_Speeds(Active)(Descent).Mach = 0.55
2958	2969	Perf_Speeds(Active)(Descent).Cas = 265.0
2959	2970	
2960	2971	--this breakpoint is set to verify the variables for PERF_SDD_08226
2961		#sba prf_bkgnd_pkg.get_bk_Data #1062
	2972	#sba prf_bkgnd_pkg.get_bk_Data #1069
2962	2973	#go
2963	2974	Prf_Bkgnd_Pkg:body.Fgspdsvalid = True
2964	2975	
2965	2976	!run_test()
2966	2977	
2967	2978	-- OUTPUTS
2968	2979	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 345.0
2969	2980	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach = 0.55
2970	2981	Perf_Ads_Dpkg.Ii_Enabled = False
2971	2982	Perf_Ads_Dpkg.Pr_Enabled = False
2972	2983	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
2973	2984	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
2974	2985	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
2975	2986	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
2976	2987	Perf_Background_Dpkg.Dest_Wind_Components.Dest_Wind_Valid := True
2977	2988	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdu := 1.01
2978	2989	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdy := 1.01
2979	2990	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
2980	2991	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
2981	2992	Perf_Background_Dpkg.Psecncrzmach = 0.0
2982	2993	Perf_Background_Dpkg.Psecncrzcas = 0.0
2983	2994	
2984	2995	--- » --
2985	2996	TESTID: 10
2986	2997	
2987	2998	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum De » scent Mach
2988	2999	shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target » ;otherwise,
2989	3000	if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
2990  3001        PERF_SDD_2276_INT, PERF_SDD_2853_INT, PERF_SDD_2293_INT
2991  3002        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2992  3003              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2993  3004              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2994  3005
2995  3006     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
2996  3007     working flight plan.
2997  3008     PERF_SDD_4328 (PERF_SRD_10166_INT)
2998  3009
2999  3010
3000  3011 -- INPUTS
3001  3012 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3002  3013 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3003  3014 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3004  3015 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3005  3016 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3006  3017 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3007  3018 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3008  3019 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
3009  3020 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
3010  3021 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3011  3022 Perf_Dpkg.Min_Gwt := 100.0
3012  3023 Perf_Dpkg.Max_Gwt := 400.0
3013  3024 Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
3014  3025 Perf_Background_Dpkg.Psignorehm := True
3015  3026 Perf_Background_Dpkg.Pcfltphase := Approach
3016  3027 Perf_Background_Dpkg.Ats_Enable := True
3017  3028 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Approach
3018  3029 Perf_Background_Dpkg.Psacalt := 10000.0
3019  3030 Perf_Database_Dpkg.Psmmo := 0.45
3020  3031 Perf_Background_Dpkg.Pszfw := 300.0
3021  3032 Perf_Background_Dpkg.Psblockfuel := 50.0
3022  3033 Perf_Background_Dpkg.Pstaxifuel := 25.0
3023  3034 Perf_Background_Dpkg.Psairborne := True
3024  3035 Perf_Background_Dpkg.Psautolat := False
3025  3036 Guid_Ext_Dpkg.Gcxxlatautoc := False
3026  3037 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3027  3038 Perf_Background_Dpkg.Psengout := True
3028  3039 Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3029  3040 Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
3030  3041 Perf_Dpkg.Repredict_Hm_Decel := True
3031  3042 Perf_Background_DPkg.Pshmdecel := True
3032  3043 Perf_Background_Dpkg.Pcholdflags.Hmactive := True
3033  3044 Perf_Ads_Dpkg.Fi_Enabled := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

3034	3045	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
3035	3046	Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
3036	3047	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
3037	3048	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
3038	3049	Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
3039	3050	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
3040	3051	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
3041	3052	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
3042	3053	Perf_Background_Dpkg.Psappspdlat := True
3043	3054	Perf_Dpkg.Pcengoutprds := Altpln
3044	3055	Perf_Background_Dpkg.Pcpathref := Onpath
3045	3056	Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
3046	3057	Perf_Background_DPkg.Pscurcas := 5.0
3047	3058	Perf_Background_DPkg.Pscurmach := 5.0
3048	3059	Perf_Background_DPkg.Pscurtas := 5.0
3049	3060	Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3050	3061	Perf_Background_Dpkg.Pstogwtval := False
3051	3062	Perf_Background_Dpkg.Pstogwt := 50.0
3052	3063	Perf_Background_Dpkg.Pcgwind := Invalid
3053	3064	Perf_Background_Dpkg.Psgw := 0.0
3054	3065	Perf_Dpkg.Gross_Weight.Status := Valid
3055	3066	Perf_Dpkg.Gross_Weight.Data := 150.0
3056	3067	Perf_Integration_DPkg.Pcairbrakes := Fullab
3057	3068	Perf_Background_Dpkg.Pcacconfig := 5
3058	3069	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3059	3070	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3060	3071	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
3061	3072	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
3062	3073	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3063	3074	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3064	3075	Perf_Background_Dpkg.Psstpclbact := True
3065	3076	Perf_Background_Dpkg.Psstpdesact := True
3066	3077	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3067	3078	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3068	3079	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3069	3080	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3070	3081	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3071	3082	Perf_Background_Dpkg.Pcprebcalt.Valid := True
3072	3083	Perf_Background_Dpkg.Pcgmttime.Hour := 1
3073	3084	Perf_Background_Dpkg.Pcgmttime.Minute := 1
3074	3085	Perf_Background_Dpkg.Pcgmttime.Second := 1
3075	3086	Perf_Background_Dpkg.Psinertvs := 5.0
3076	3087	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3077	3088	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3078 | 3089 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3079 | 3090 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3080 | 3091 | Perf_Ads_Dpkg.Pr_Enabled := False
3081 | 3092 | ATC_DISCRETES_PKG:body.Adson_Flag := False
3082 | 3093 | Perf_Ads_Dpkg.Ii_Enabled := True
3083 | 3094 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3084 | 3095 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3085 | 3096 | ^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
3086 | 3097 | #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
3087 | 3098 | # go
3088 | 3099 | Perf_Dpkg.takeoff_gwt.valid := True
3089 | 3100 | Perf_Dpkg.takeoff_gwt.data := 400.0
3090 |      | #sba prf_bkgnd_pkg.get_bk_Data #1466
     | 3101 | #sba prf_bkgnd_pkg.get_bk_Data #1473
3091 | 3102 | #go
3092 | 3103 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
3093 | 3104 | Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
3094 | 3105 | #delb/all
3095 | 3106 | !run_test()
3096 | 3107 |
3097 | 3108 | -- OUTPUTS
3098 | 3109 |
3099 | 3110 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 345.0
3100 | 3111 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach = 0.45
3101 | 3112 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec = False
3102 | 3113 | Perf_Ads_Dpkg.Ii_Enabled = False
3103 | 3114 | Perf_Ads_Dpkg.Pr_Enabled = False
3104 | 3115 | CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
3105 | 3116 | Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3106 | 3117 | Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3107 | 3118 | Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3108 | 3119 |
3109 | 3120 | -------------------------------------------------------------------------------------------------------
     |      | » --
3110 | 3121 | TESTID: 11
3111 | 3122 |
3112 | 3123 |     Verify that for a secondary flight plan relevant plags are set so HM legs will be ignored.  Also, when current iti
     |      | » n is
3113 | 3124 |     active primary flight plan preds and ADS enabled flag is true Get_Requested_Num_Waypoints is called.
3114 | 3125 |     PERF_SDD_4795(PERF_SRD_1590, PERF_SRD_6012), PERF_SDD_3482_INT, PERF_SDD_2852_INT, PERF_SDD_2174_INT, PERF_SDD_217
     |      | » 7_INT,
3115 | 3126 |     PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
3116 | 3127 |     PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
3117 | 3128 |     PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3118  3129
3119  3130      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3120  3131      working flight plan.
3121  3132      PERF_SDD_4328 (PERF_SRD_10166_INT)
3122  3133
3123  3134      The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout
            » e
3124  3135      information for use as the Predictions Reference GMT.
3125  3136      PERF_SDD_3718 (PERF_SRD_8964_INT)
3126  3137
3127  3138      The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro
            » ute
3128  3139      Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
3129  3140      PERF_SDD_3887 (PERF_SRD_8976_INT)
3130  3141
3131  3142      If the current itinerary is one of the following:
3132  3143      - Active Primary Flight Plan Predictions;
3133  3144      - Temporary Primary Flight Plan Predictions;
3134  3145      -Current mode predictions(Normal or High priority);
3135  3146      - Optimum altitude predictions;
3136  3147      then the descent path shall be retrieved from the descent path object
3137  3148      manager via a call to Perf_Ext_Despath.Pgvdespath.
3138  3149      PERF_SDD_3888_INT
3139  3150
3140  3151      If there is no speed mode valid, then speed mode shall be set to economy mode.
3141  3152      PERF_SDD_07546_INT
3142  3153
3143  3154
3144  3155 -- INPUTS
3145  3156 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3146  3157 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3147  3158 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3148  3159 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3149  3160 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3150  3161 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3151  3162 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3152  3163 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
3153  3164 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
3154  3165 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3155  3166 Perf_Dpkg.Min_Gwt := 100.0
3156  3167 Perf_Dpkg.Max_Gwt := 400.0
3157  3168 Perf_Background_Dpkg.Pcactorsec := Secondary
3158  3169 Perf_Background_Dpkg.Psignorehm := False
3159  3170 Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3160   3171  Perf_Background_Dpkg.Pcfltphase := Approach
3161   3172  Perf_Background_Dpkg.Ats_Enable := True
3162   3173  Perf_Background_Dpkg.Pcitin.Flight_Plan := Active
3163   3174  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Approach
3164   3175  Perf_Background_Dpkg.Psacalt := 10000.0
3165   3176  Perf_Database_Dpkg.Psmmo := 0.45
3166   3177  Perf_Background_Dpkg.Pszfw := 300.0
3167   3178  Perf_Background_Dpkg.Psblockfuel := 50.0
3168   3179  Perf_Background_Dpkg.Pstaxifuel := 25.0
3169   3180  Perf_Background_Dpkg.Psairborne := True
3170   3181  Perf_Background_Dpkg.Psautolat := False
3171   3182  Guid_Ext_Dpkg.Gcxxlatautoc := False
3172   3183  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3173   3184  Perf_Background_Dpkg.Psengout := True
3174   3185  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3175   3186  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
3176   3187  Perf_Dpkg.Repredict_Hm_Decel := True
3177   3188  Perf_Background_DPkg.Pshmdecel := True
3178   3189  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
3179   3190  Perf_Ads_Dpkg.Fi_Enabled := False
3180   3191  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
3181   3192  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
3182   3193  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
3183   3194  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
3184   3195  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
3185   3196  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
3186   3197  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
3187   3198  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
3188   3199  Perf_Background_Dpkg.Psappspdlat := True
3189   3200  Perf_Dpkg.Pcengoutprds := Altpln
3190   3201  Perf_Background_Dpkg.Pcpathref := Onpath
3191   3202  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
3192   3203  Perf_Background_DPkg.Pscurcas := 5.0
3193   3204  Perf_Background_DPkg.Pscurmach := 5.0
3194   3205  Perf_Background_DPkg.Pscurtas := 5.0
3195   3206  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
3196   3207  Perf_Background_Dpkg.Psenginesoff := True
3197   3208  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3198   3209  Perf_Background_Dpkg.Pstogwtval := False
3199   3210  Perf_Background_Dpkg.Pstogwt := 50.0
3200   3211  Perf_Background_Dpkg.Pcgwind := Invalid
3201   3212  Perf_Background_Dpkg.Psgw := 0.0
3202   3213  Perf_Dpkg.Gross_Weight.Status := Valid
3203   3214  Perf_Dpkg.Gross_Weight.Data := 150.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3204  3215  Perf_Integration_DPkg.Pcairbrakes := Fullab
3205  3216  Perf_Background_Dpkg.Pcacconfig := 5
3206  3217  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3207  3218  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3208  3219  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
3209  3220  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
3210  3221  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3211  3222  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3212  3223  Perf_Background_Dpkg.Psstpclbact := True
3213  3224  Perf_Background_Dpkg.Psstpdesact := True
3214  3225  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3215  3226  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3216  3227  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3217  3228  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3218  3229  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3219  3230  Perf_Background_Dpkg.Pcprebcalt.Valid := True
3220  3231  Perf_Background_Dpkg.Pcgmttime.Hour := 1
3221  3232  Perf_Background_Dpkg.Pcgmttime.Minute := 1
3222  3233  Perf_Background_Dpkg.Pcgmttime.Second := 1
3223  3234  Perf_Background_Dpkg.Psinertvs := 5.0
3224  3235  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3225  3236  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3226  3237  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3227  3238  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3228  3239  Perf_Ads_Dpkg.Pr_Enabled := False
3229  3240  ATC_DISCRETES_PKG:body.Adson_Flag := False
3230  3241  Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True
3231  3242
3232  3243  Perf_Ads_Dpkg.Ii_Enabled := True
3233  3244  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3234  3245  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3235  3246  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
3236  3247  ^Noise_Speed_Val := False
3237  3248  CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (5)
3238  3249  Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 330.0
3239  3250  Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15500.0
3240  3251  Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Des_Spd_Lim
3241  3252  Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident := "ABCDEFG"
3242  3253  Perf_Dpkg.takeoff_gwt.valid := True
3243  3254  Perf_Dpkg.takeoff_gwt.data := 400.0
3244  3255
3245  3256  -- Reset Output
3246  3257  Perf_Background_Dpkg.Speed_Annunciation.Cas          := 0.0
3247  3258  Perf_Background_Dpkg.Speed_Annunciation.Alt          := 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3248  3259  Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type   := Vg_Ext_Tpkg.Invalid
3249  3260  Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident        := "         "
3250  3261  Perf_Background_Dpkg.Pcholdflags.Consider_Hm             := True
3251  3262  Perf_Background_Dpkg.Psconsider_Hm                       := True
3252  3263  Perf_Background_Dpkg.Pshxpxdecel                         := True
3253  3264  --this breakpoint is set to verify the local variable
3254  3265  #sba prf_bkgnd_pkg.get_bk_Data before_end begin
3255  3266  Requested_Pred_Route = 5
3256  3267  # go
3257  3268  # end
3258  3269  #delb/all
3259  3270
3260  3271  !run_test()
3261  3272
3262  3273  -- OUTPUTS
3263  3274  Perf_Background_Dpkg.Pcholdflags.Hmdecel      = False
3264  3275  Perf_Background_Dpkg.Pcholdflags.Consider_Hm  = False
3265  3276  Perf_Background_Dpkg.Pcholdflags.Hmactive     = False
3266  3277  Perf_Background_Dpkg.Pcholdflags.Manhmwarn    = False
3267  3278  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel    = False
3268  3279  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv    = False
3269  3280  Perf_Background_Dpkg.Pcholdflags.Hmdistval    = False
3270  3281  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim      = False
3271  3282  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim     = False
3272  3283  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel    = False
3273  3284  Perf_Background_DPkg.Pshmdecel                = False
3274  3285  Perf_Background_Dpkg.Psappspdlat              = False
3275  3286  Perf_Background_Dpkg.Psconsider_Hm            = False
3276  3287  Perf_Background_Dpkg.Pshxpxdecel              = False
3277  3288  Perf_Background_Dpkg.Psignorehm               = True
3278  3289  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec = True
3279  3290  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints = 5
3280  3291  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints = 0
3281  3292  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points = 0
3282  3293  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points = 2
3283  3294  Perf_Ads_Dpkg.Ii_Enabled = False
3284  3295  Perf_Ads_Dpkg.Pr_Enabled = True
3285  3296  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
3286  3297  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3287  3298  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3288  3299  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3289  3300  Perf_Background_Dpkg.Speed_Annunciation.Cas            = 330.0
3290  3301  Perf_Background_Dpkg.Speed_Annunciation.Alt            = 15500.0
3291  3302  Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type = Vg_Ext_Tpkg.Des_Spd_Lim
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3292   3303   Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident       = "ABCDEFG"
3293   3304   CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = True
3294   3305   Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
3295   3306
3296   3307   -----------------------------------------------------------------------------------------------------
              » --
3297   3308   TESTID: 12
3298   3309
3299   3310      ADS Enabled flag is set for Intermediate Intent Buffer Predictions.
3300   3311      PERF_SDD_2123_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT
3301   3312      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
3302   3313               PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
3303   3314               PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
3304   3315
3305   3316      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3306   3317      working flight plan.
3307   3318      PERF_SDD_4328 (PERF_SRD_10166_INT)
3308   3319
3309   3320      The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout
              » e
3310   3321      information for use as the Predictions Reference GMT.
3311   3322      PERF_SDD_3718 (PERF_SRD_8964_INT)
3312   3323
3313   3324      The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro
              » ute
3314   3325      Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
3315   3326      PERF_SDD_3887 (PERF_SRD_8976_INT)
3316   3327
3317   3328      If all of the following conditions are met, the number of requested Intermediate Intent Waypoints shall be set to
              » maximum
3318   3329        number of intermediate intent points(10) and number of predicted Intermediate Intent Waypoints is set to zero:
3319   3330        The current itinerary is Active Primary Flight Plan Predictions
3320   3331        This is not the first pass of active primary flight plan predictions
3321   3332        OPC ATS-enabled flag is true
3322   3333        ADS ON is true
3323   3334      PERF_SDD_07160_INT
3324   3335
3325   3336
3326   3337   -- INPUTS
3327   3338   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3328   3339   CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3329   3340   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3330   3341   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3331   3342   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

3332	3343	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3333	3344	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3334	3345	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data := True
3335	3346	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
3336	3347	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3337	3348	Perf_Dpkg.Min_Gwt := 100.0
3338	3349	Perf_Dpkg.Max_Gwt := 400.0
3339	3350	Perf_Background_Dpkg.Pcactorsec := Secondary
3340	3351	Perf_Background_Dpkg.Psignorehm := True
3341	3352	Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
3342	3353	Perf_Background_Dpkg.Pcfltphase := Approach
3343	3354	Perf_Background_Dpkg.Ats_Enable := True
3344	3355	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Approach
3345	3356	Perf_Background_Dpkg.Psacalt := 10000.0
3346	3357	Perf_Database_Dpkg.Psmmo := 0.45
3347	3358	Perf_Background_Dpkg.Pszfw := 300.0
3348	3359	Perf_Background_Dpkg.Psblockfuel := 50.0
3349	3360	Perf_Background_Dpkg.Pstaxifuel := 25.0
3350	3361	Perf_Background_Dpkg.Psairborne := True
3351	3362	Perf_Background_Dpkg.Psautolat := False
3352	3363	Guid_Ext_Dpkg.Gcxxlatautoc := True
3353	3364	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3354	3365	Perf_Background_Dpkg.Psengout := True
3355	3366	Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3356	3367	Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
3357	3368	Perf_Dpkg.Repredict_Hm_Decel := True
3358	3369	Perf_Background_DPkg.Pshmdecel := True
3359	3370	Perf_Background_Dpkg.Pcholdflags.Hmactive := True
3360	3371	Perf_Ads_Dpkg.Fi_Enabled := True
3361	3372	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
3362	3373	Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
3363	3374	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
3364	3375	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
3365	3376	Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
3366	3377	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
3367	3378	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
3368	3379	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
3369	3380	Perf_Background_Dpkg.Psappspdlat := True
3370	3381	Perf_Dpkg.Pcengoutprds := Altpln
3371	3382	Perf_Background_Dpkg.Pcpathref := Onpath
3372	3383	Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
3373	3384	Perf_Background_DPkg.Pscurcas := 5.0
3374	3385	Perf_Background_DPkg.Pscurmach := 5.0
3375	3386	Perf_Background_DPkg.Pscurtas := 5.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3376  3387  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
3377  3388  Perf_Background_Dpkg.Psenginesoff := True
3378  3389  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3379  3390  Perf_Background_Dpkg.Pstogwtval := False
3380  3391  Perf_Background_Dpkg.Pstogwt := 50.0
3381  3392  Perf_Background_Dpkg.Pcgwind := Invalid
3382  3393  Perf_Background_Dpkg.Psgw := 0.0
3383  3394  Perf_Dpkg.Gross_Weight.Status := Valid
3384  3395  Perf_Dpkg.Gross_Weight.Data := 150.0
3385  3396  Perf_Integration_DPkg.Pcairbrakes := Fullab
3386  3397  Perf_Background_Dpkg.Pcacconfig := 5
3387  3398  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3388  3399  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3389  3400  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
3390  3401  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
3391  3402  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3392  3403  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3393  3404  Perf_Background_Dpkg.Psstpclbact := True
3394  3405  Perf_Background_Dpkg.Psstpdesact := True
3395  3406  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3396  3407  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3397  3408  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3398  3409  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3399  3410  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3400  3411  Perf_Background_Dpkg.Pcprebcalt.Valid := True
3401  3412  Perf_Background_Dpkg.Pcgmttime.Hour := 1
3402  3413  Perf_Background_Dpkg.Pcgmttime.Minute := 1
3403  3414  Perf_Background_Dpkg.Pcgmttime.Second := 1
3404  3415  Perf_Background_Dpkg.Psinertvs := 5.0
3405  3416  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3406  3417  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3407  3418  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3408  3419  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3409  3420  Perf_Ads_Dpkg.Pr_Enabled := False
3410  3421  ATC_DISCRETES_PKG:body.Adson_Flag := True
3411  3422  Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True
3412  3423
3413  3424  Perf_Ads_Dpkg.Ii_Enabled := False
3414  3425  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3415  3426  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3416  3427  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
3417  3428  CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (5)
3418  3429  Perf_Dpkg.takeoff_gwt.valid := True
3419  3430  Perf_Dpkg.takeoff_gwt.data := 400.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3420   3431
3421   3432 --this breakpoint is set to verify the local variable
3422   3433 #sba prf_bkgnd_pkg.get_bk_Data before_end begin
3423   3434 Requested_Pred_Route = 5
3424   3435 # go
3425   3436 # end
3426   3437 #delb/all
3427   3438 !run_test()
3428   3439
3429   3440 -- OUTPUTS
3430   3441
3431   3442 Perf_Background_Dpkg.Pcholdflags.Hmactive = False
3432   3443 Perf_Background_Dpkg.Pcholdflags.Manhmwarn = False
3433   3444 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel = False
3434   3445 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv = False
3435   3446 Perf_Background_Dpkg.Pcholdflags.Hmdistval = False
3436   3447 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = False
3437   3448 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = False
3438   3449 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel = False
3439   3450 Perf_Background_DPkg.Pshmdecel = False
3440   3451 Perf_Background_Dpkg.Psappspdlat = False
3441   3452 Perf_Background_Dpkg.Psignorehm = True
3442   3453 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec = True
3443   3454 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints = 5
3444   3455 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints = 0
3445   3456 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points = 10
3446   3457 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points = 0
3447   3458 Perf_Ads_Dpkg.Ii_Enabled = True
3448   3459 Perf_Ads_Dpkg.Pr_Enabled = True
3449   3460 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
3450   3461 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3451   3462 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3452   3463 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3453   3464
3454   3465
3455   3466 ----------------------------------------------------------------------------------------------------
            » --
3456   3467 TESTID: 13
3457   3468
3458   3469     A/C is in Cruise and current itin is active primary so target speed is limited by calling the speed envelope modul
            » e.
3459   3470     PERF_SDD_3055_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT
3460   3471     PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
3461   3472             PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3462   3473              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
3463   3474
3464   3475     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3465   3476     working flight plan.
3466   3477     PERF_SDD_4328 (PERF_SRD_10166_INT)
3467   3478
3468   3479     The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout
     » e
3469   3480     information for use as the Predictions Reference GMT.
3470   3481     PERF_SDD_3718 (PERF_SRD_8964_INT)
3471   3482
3472   3483     The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro
     » ute
3473   3484     Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
3474   3485     PERF_SDD_3887 (PERF_SRD_8976_INT)
3475   3486
3476   3487     If all of the following conditions are met, the number of requested Intermediate Intent Waypoints shall be set to
     » maximum
3477   3488       number of intermediate intent points(10) and number of predicted Intermediate Intent Waypoints is set to zero:
3478   3489       The current itinerary is Active Primary Flight Plan Predictions
3479   3490       This is not the first pass of active primary flight plan predictions
3480   3491       OPC ATS-enabled flag is true
3481   3492       ADS ON is true
3482   3493     PERF_SDD_07160_INT
3483   3494
3484   3495
3485   3496 -- INPUTS
3486   3497 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3487   3498 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3488   3499 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3489   3500 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3490   3501 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3491   3502 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3492   3503 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3493   3504 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
3494   3505 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
3495   3506 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3496   3507 Perf_Dpkg.Min_Gwt := 100.0
3497   3508 Perf_Dpkg.Max_Gwt := 400.0
3498   3509 Perf_Background_Dpkg.Pcactorsec := Secondary
3499   3510 Perf_Background_Dpkg.Psignorehm := True
3500   3511 Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
3501   3512 Perf_Background_Dpkg.Pcfltphase := Approach
3502   3513 Perf_Background_Dpkg.Ats_Enable := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3503   3514  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
3504   3515  Perf_Background_Dpkg.Psacalt := 10000.0
3505   3516  Perf_Database_Dpkg.Psmmo := 0.45
3506   3517  Perf_Background_Dpkg.Pszfw := 300.0
3507   3518  Perf_Background_Dpkg.Psblockfuel := 50.0
3508   3519  Perf_Background_Dpkg.Pstaxifuel := 25.0
3509   3520  Perf_Background_Dpkg.Psairborne := True
3510   3521  Perf_Background_Dpkg.Psautolat := False
3511   3522  Guid_Ext_Dpkg.Gcxxlatautoc := True
3512   3523  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3513   3524  Perf_Background_Dpkg.Psengout := True
3514   3525  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3515   3526  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
3516   3527  Perf_Dpkg.Repredict_Hm_Decel := True
3517   3528  Perf_Background_DPkg.Pshmdecel := True
3518   3529  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
3519   3530  Perf_Ads_Dpkg.Fi_Enabled := false
3520   3531  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
3521   3532  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
3522   3533  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
3523   3534  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
3524   3535  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
3525   3536  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
3526   3537  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
3527   3538  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
3528   3539  Perf_Background_Dpkg.Psappspdlat := True
3529   3540  Perf_Dpkg.Pcengoutprds := Altpln
3530   3541  Perf_Background_Dpkg.Pcpathref := Onpath
3531   3542  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
3532   3543  Perf_Background_DPkg.Pscurcas := 5.0
3533   3544  Perf_Background_DPkg.Pscurmach := 5.0
3534   3545  Perf_Background_DPkg.Pscurtas := 5.0
3535   3546  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
3536   3547  Perf_Background_Dpkg.Psenginesoff := True
3537   3548  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3538   3549  Perf_Background_Dpkg.Pstogwtval := False
3539   3550  Perf_Background_Dpkg.Pstogwt := 50.0
3540   3551  Perf_Background_Dpkg.Pcgwind := Invalid
3541   3552  Perf_Background_Dpkg.Psgw := 0.0
3542   3553  Perf_Dpkg.Gross_Weight.Status := Valid
3543   3554  Perf_Dpkg.Gross_Weight.Data := 150.0
3544   3555  Perf_Integration_DPkg.Pcairbrakes := Fullab
3545   3556  Perf_Background_Dpkg.Pcacconfig := 5
3546   3557  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3547   3558 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3548   3559 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
3549   3560 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
3550   3561 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3551   3562 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3552   3563 Perf_Background_Dpkg.Psstpclbact := True
3553   3564 Perf_Background_Dpkg.Psstpdesact := True
3554   3565 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3555   3566 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3556   3567 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3557   3568 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3558   3569 Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3559   3570 Perf_Background_Dpkg.Pcprebcalt.Valid := True
3560   3571 Perf_Background_Dpkg.Pcgmttime.Hour := 1
3561   3572 Perf_Background_Dpkg.Pcgmttime.Minute := 1
3562   3573 Perf_Background_Dpkg.Pcgmttime.Second := 1
3563   3574 Perf_Background_Dpkg.Psinertvs := 5.0
3564   3575 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3565   3576 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3566   3577 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3567   3578 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3568   3579 Perf_Ads_Dpkg.Pr_Enabled := False
3569   3580 ATC_DISCRETES_PKG:body.Adson_Flag := True
3570   3581 Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True
3571   3582 Perf_Background_Dpkg.Pcitin.Flight_Plan := Active
3572   3583 Perf_Ads_Dpkg.Ii_Enabled := False
3573   3584 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3574   3585 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3575   3586 ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
3576   3587 CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (0)
3577   3588 Perf_Dpkg.takeoff_gwt.valid := True
3578   3589 Perf_Dpkg.takeoff_gwt.data := 400.0
3579   3590
3580   3591 --this breakpoint is set to verify the local variable
3581   3592 #sba prf_bkgnd_pkg.get_bk_Data before_end begin
3582   3593 Requested_Pred_Route = 0
3583   3594 # go
3584   3595 # end
3585   3596 #delb/all
3586   3597
3587   3598 !run_test()
3588   3599
3589   3600 -- OUTPUTS
3590   3601
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3591  3602  Perf_Background_Dpkg.Pcholdflags.Hmactive = False
3592  3603  Perf_Background_Dpkg.Pcholdflags.Manhmwarn = False
3593  3604  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel = False
3594  3605  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv = False
3595  3606  Perf_Background_Dpkg.Pcholdflags.Hmdistval = False
3596  3607  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = False
3597  3608  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = False
3598  3609  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel = False
3599  3610  Perf_Background_DPkg.Pshmdecel = False
3600  3611  Perf_Background_Dpkg.Psappspdlat = False
3601  3612  Perf_Background_Dpkg.Psignorehm = True
3602  3613  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec = True
3603  3614  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints = 0
3604  3615  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints = 0
3605  3616  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points = 10
3606  3617  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points = 0
3607  3618  Perf_Ads_Dpkg.Ii_Enabled = False
3608  3619  Perf_Ads_Dpkg.Pr_Enabled = False
3609  3620  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = True
3610  3621  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3611  3622  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3612  3623  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3613  3624
3614  3625  ----------------------------------------------------------------------------------------------------
            » --
3615  3626  TESTID: 14
3616  3627
3617  3628      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3618  3629      working flight plan.
3619  3630      PERF_SDD_4328 (PERF_SRD_10166_INT)
3620  3631
3621  3632
3622  3633  -- INPUTS
3623  3634  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3624  3635  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3625  3636  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3626  3637  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3627  3638  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3628  3639  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3629  3640  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3630  3641  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
3631  3642  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
3632  3643  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3633  3644  Perf_Dpkg.Min_Gwt := 100.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3634 | 3645 | Perf_Dpkg.Max_Gwt := 400.0
3635 | 3646 | Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
3636 | 3647 | Perf_Background_Dpkg.Psignorehm := True
3637 | 3648 | Perf_Background_Dpkg.Ats_Enable := True
3638 | 3649 | Perf_Background_Dpkg.Psautolat := False
3639 | 3650 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3640 | 3651 | Perf_Background_Dpkg.Psengout := True
3641 | 3652 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3642 | 3653 | Perf_Background_DPkg.Pscurcas := 5.0
3643 | 3654 | Perf_Background_DPkg.Pscurmach := 5.0
3644 | 3655 | Perf_Background_DPkg.Pscurtas := 5.0
3645 | 3656 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3646 | 3657 | Perf_Background_Dpkg.Pstogwtval := False
3647 | 3658 | Perf_Background_Dpkg.Pstogwt := 50.0
3648 | 3659 | Perf_Background_Dpkg.Pcgwind := Invalid
3649 | 3660 | Perf_Background_Dpkg.Psgw := 0.0
3650 | 3661 | Perf_Dpkg.Gross_Weight.Status := Valid
3651 | 3662 | Perf_Dpkg.Gross_Weight.Data := 150.0
3652 | 3663 | Perf_Integration_DPkg.Pcairbrakes := Fullab
3653 | 3664 | Perf_Background_Dpkg.Pcacconfig := 5
3654 | 3665 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3655 | 3666 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3656 | 3667 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3657 | 3668 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3658 | 3669 | Perf_Background_Dpkg.Psstpclbact := True
3659 | 3670 | Perf_Background_Dpkg.Psstpdesact := True
3660 | 3671 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3661 | 3672 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3662 | 3673 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3663 | 3674 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3664 | 3675 | Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3665 | 3676 | Perf_Background_Dpkg.Pcprebcalt.Valid := True
3666 | 3677 | Perf_Background_Dpkg.Pcgmttime.Hour := 1
3667 | 3678 | Perf_Background_Dpkg.Pcgmttime.Minute := 1
3668 | 3679 | Perf_Background_Dpkg.Pcgmttime.Second := 1
3669 | 3680 | Perf_Background_Dpkg.Psinertvs := 5.0
3670 | 3681 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3671 | 3682 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3672 | 3683 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3673 | 3684 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3674 | 3685 | Perf_Ads_Dpkg.Pr_Enabled := False
3675 | 3686 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3676 | 3687 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3677 | 3688 | ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

3678	3689	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
3679	3690	# go
3680	3691	Perf_Dpkg.takeoff_gwt.valid := True
3681	3692	Perf_Dpkg.takeoff_gwt.data := 400.0
3682	3693	#DELB/ALL
3683		#sba prf_bkgnd_pkg.get_bk_Data #1466
	3694	#sba prf_bkgnd_pkg.get_bk_Data #1473
3684	3695	#go
3685	3696	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
3686	3697	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
3687	3698	!run_test()
3688	3699	
3689	3700	-- OUTPUTS
3690	3701	
3691	3702	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3692	3703	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3693	3704	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3694	3705	
3695	3706	--- » --
3696	3707	TESTID: 15
3697	3708	
3698	3709	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3699	3710	working flight plan.
3700	3711	PERF_SDD_4328 (PERF_SRD_10166_INT)
3701	3712	
3702	3713	
3703	3714	-- INPUTS
3704	3715	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3705	3716	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3706	3717	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3707	3718	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3708	3719	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3709	3720	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3710	3721	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3711	3722	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data := True
3712	3723	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
3713	3724	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3714	3725	Perf_Dpkg.Min_Gwt := 100.0
3715	3726	Perf_Dpkg.Max_Gwt := 400.0
3716	3727	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
3717	3728	Perf_Background_Dpkg.Psignorehm := True
3718	3729	Perf_Background_Dpkg.Ats_Enable := True
3719	3730	Perf_Background_Dpkg.Psautolat := False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

3720	3731	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3721	3732	Perf_Background_Dpkg.Psengout := True
3722	3733	Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3723	3734	Perf_Background_DPkg.Pscurcas := 5.0
3724	3735	Perf_Background_DPkg.Pscurmach := 5.0
3725	3736	Perf_Background_DPkg.Pscurtas := 5.0
3726	3737	Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3727	3738	Perf_Background_Dpkg.Pstogwtval := False
3728	3739	Perf_Background_Dpkg.Pstogwt := 50.0
3729	3740	Perf_Background_Dpkg.Pcgwind := Invalid
3730	3741	Perf_Background_Dpkg.Psgw := 0.0
3731	3742	Perf_Dpkg.Gross_Weight.Status := Valid
3732	3743	Perf_Dpkg.Gross_Weight.Data := 150.0
3733	3744	Perf_Integration_DPkg.Pcairbrakes := Fullab
3734	3745	Perf_Background_Dpkg.Pcacconfig := 5
3735	3746	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3736	3747	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3737	3748	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3738	3749	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3739	3750	Perf_Background_Dpkg.Psstpclbact := True
3740	3751	Perf_Background_Dpkg.Psstpdesact := True
3741	3752	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3742	3753	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3743	3754	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3744	3755	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3745	3756	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3746	3757	Perf_Background_Dpkg.Pcprebcalt.Valid := True
3747	3758	Perf_Background_Dpkg.Pcgmttime.Hour := 1
3748	3759	Perf_Background_Dpkg.Pcgmttime.Minute := 1
3749	3760	Perf_Background_Dpkg.Pcgmttime.Second := 1
3750	3761	Perf_Background_Dpkg.Psinertvs := 5.0
3751	3762	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3752	3763	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3753	3764	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3754	3765	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3755	3766	Perf_Ads_Dpkg.Pr_Enabled := False
3756	3767	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3757	3768	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3758	3769	^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
3759	3770	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
3760	3771	# go
3761	3772	Perf_Dpkg.takeoff_gwt.valid := True
3762	3773	Perf_Dpkg.takeoff_gwt.data := 400.0
3763	3774	#DELB/ALL

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

3764		#sba prf_bkgnd_pkg.get_bk_Data #1466
	3775	#sba prf_bkgnd_pkg.get_bk_Data #1473
3765	3776	#go
3766	3777	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
3767	3778	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
3768	3779	!run_test()
3769	3780	
3770	3781	-- Outputs
3771	3782	
3772	3783	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
3773	3784	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
3774	3785	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
3775	3786	
3776	3787	-- » --
3777	3788	TESTID: 16
3778	3789	
3779	3790	If the working flight plan is Active or Temporary, flags related to HM legs shall be set as follows:
3780	3791	- Perf hold flag record (Pcholdflags) is copied from guidance
3781	3792	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
3782	3793	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac » h.
3783	3794	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer » considers
3784	3795	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
3785	3796	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the » HM if no
3786	3797	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c » lear the HM
3787	3798	leg deleted while in decel to HM flag (Pshmdeleted).
3788	3799	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte » d, and the
3789	3800	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf » t is within
3790	3801	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
3791	3802	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece » l to HM,
3792	3803	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false.
3793	3804	PERF_SDD_4794_INT
3794	3805	
3795	3806	If Guidance considers the aircraft to be in a HA/HF deceleration, then flag indicating that the aircraft is within
3796	3807	the HA/HF decel zone is set to true. Otherwise, it is set to false.
3797	3808	PERF_SDD_4778_INT
3798	3809	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3799  3810       The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3800  3811       working flight plan.
3801  3812       PERF_SDD_4328 (PERF_SRD_10166_INT)
3802  3813
3803  3814       ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
                » e first pass
3804  3815       of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
3805  3816       PERF_SDD_08225_INT
3806  3817       --In this test case, it is manual speed mode and flight phase is Approach but this is not the first pass
3807  3818
3808  3819       In this case, the working flight plan is Active,we set the corresponding condition and verify:
3809  3820       (1)Perf hold flag record (Pcholdflags) is copied from guidance
3810  3821       (2)Descent limit latch record (Pcdeslimlat) is copied from guidance
3811  3822       (3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true
3812  3823       (4)the re-evaluation indication flag is cleared (Repredict_Hm_Decel) (F,T)
3813  3824       (5)clear the HM leg deleted while in decel to HM flag (Pshmdeleted)  (F,F,T)
3814  3825       (6)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
                » e (F,F,F)
3815  3826       (7)flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F, F)
3816  3827       (8)Flag indicating that the aircraft is within the HA/HF decel zone (Pshxpxdecel) is set to false.
3817  3828
3818  3829 REQUIREMENTS UNDER EVALUATION :PERF_SDD_4794_INT,PERF_SDD_4778_INT,PERF_SDD_4328 (PERF_SRD_10166_INT),PERF_SDD_08225_I
                » NT
3819  3830
3820  3831
3821  3832 -- INPUTS
3822  3833 Perf_Dpkg.takeoff_gwt.valid := True
3823  3834 Perf_Dpkg.takeoff_gwt.data  := 400.0
3824  3835 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3825  3836 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
3826  3837 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
3827  3838 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
3828  3839 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
3829  3840 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
3830  3841 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
3831  3842 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
3832  3843 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
3833  3844 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
3834  3845 Perf_Dpkg.Min_Gwt := 100.0
3835  3846 Perf_Dpkg.Max_Gwt := 400.0
3836  3847 Perf_Background_Dpkg.Pcactorsec := Active
3837  3848 Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
3838  3849 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase := Approach --Perf_Background_Dpkg.Pcfltphase
3839  3850 Perf_Background_Dpkg.Psignorehm := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3840   3851  Perf_Background_Dpkg.Ats_Enable := True
3841   3852  Perf_Background_Dpkg.Psautolat := False
3842   3853  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
3843   3854  Perf_Background_Dpkg.Psengout := True
3844   3855  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
3845   3856  Perf_Dpkg.Repredict_Hm_Decel := True
3846   3857  Perf_Background_DPkg.Pscurcas := 5.0
3847   3858  Perf_Background_DPkg.Pscurmach := 5.0
3848   3859  Perf_Background_DPkg.Pscurtas := 5.0
3849   3860  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
3850   3861  Perf_Background_Dpkg.Pstogwtval := False
3851   3862  Perf_Background_Dpkg.Pstogwt := 50.0
3852   3863  Perf_Background_Dpkg.Pcgwind := Invalid
3853   3864  Perf_Background_Dpkg.Psgw := 0.0
3854   3865  Perf_Dpkg.Gross_Weight.Status := Valid
3855   3866  Perf_Dpkg.Gross_Weight.Data := 150.0
3856   3867  Perf_Integration_DPkg.Pcairbrakes := Fullab
3857   3868  Perf_Background_Dpkg.Pcacconfig := 5
3858   3869  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
3859   3870  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
3860   3871  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
3861   3872  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
3862   3873  Perf_Background_Dpkg.Psstpclbact := True
3863   3874  Perf_Background_Dpkg.Psstpdesact := True
3864   3875  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
3865   3876  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
3866   3877  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
3867   3878  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
3868   3879  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
3869   3880  Perf_Background_Dpkg.Pcprebcalt.Valid := True
3870   3881  Perf_Background_Dpkg.Pcgmttime.Hour := 1
3871   3882  Perf_Background_Dpkg.Pcgmttime.Minute := 1
3872   3883  Perf_Background_Dpkg.Pcgmttime.Second := 1
3873   3884  Perf_Background_Dpkg.Psinertvs := 5.0
3874   3885  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
3875   3886  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
3876   3887  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
3877   3888  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
3878   3889  Perf_Ads_Dpkg.Pr_Enabled := False
3879   3890  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
3880   3891  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
3881   3892  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
3882   3893  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive  := True
3883   3894  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel   := False --Perf_Background_Dpkg.Pcholdflags.Hmdecel
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3884   3895  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn := False
3885   3896  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel := False
3886   3897  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv := False
3887   3898  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval := False
3888   3899  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm := false
3889   3900  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim    := True
3890   3901  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim   := True
3891   3902  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel  := True
3892   3903  Perf_Dpkg.Pshmdeleted := True
3893   3904  Perf_Dpkg.Pcfirstpred(Active)   := false
3894   3905  Guid_Ext_Dpkg.Va3vertmde        := Perf_Ext_Tpkg.Vmspd
3895   3906  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
3896   3907  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
3897   3908  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := true
3898   3909  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
3899   3910  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
3900   3911  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 50010
3901   3912  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
             » true
3902   3913  CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt   :=25001.1
3903   3914  Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt := 25001.0
3904   3915
3905   3916  -- initlize the output value
3906   3917  Perf_Background_Dpkg.Pcholdflags.Hmactive        := False
3907   3918  Perf_Background_Dpkg.Pcholdflags.Hmdecel         := True
3908   3919  Perf_Background_Dpkg.Pcholdflags.Manhmwarn       := True
3909   3920  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel       := True
3910   3921  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv       := True
3911   3922  Perf_Background_Dpkg.Pcholdflags.Hmdistval       := True
3912   3923  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim         := False
3913   3924  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim        := False
3914   3925  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel       := False
3915   3926  Perf_Dpkg.Pshmdeleted                            := True
3916   3927  Perf_Background_Dpkg.Pcholdflags.Consider_Hm     := True
3917   3928  Perf_Background_Dpkg.Psappspdlat                 := False
3918   3929  Perf_Background_Dpkg.Noise_Data.Altitude.Valid   := True
3919   3930  Perf_Background_Dpkg.Noise_Data.Speed.Valid      := True
3920   3931  Perf_Background_Dpkg.Pshmdecel                   := True
3921   3932  Perf_Background_Dpkg.Psconsider_Hm               := True
3922   3933  Perf_Background_Dpkg.Pshxpxdecel                 := True
3923   3934  Perf_Background_Dpkg.Pcspeedmode                 := Perf_Ext_Tpkg.Vmecon
3924   3935
3925   3936  !run_test()
3926   3937
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3927   3938 -- OUTPUTS
3928   3939 Perf_Dpkg.Repredict_Hm_Decel                    = False
3929   3940 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai         = True
3930   3941 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai           = True
3931   3942 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond          = True
3932   3943 Perf_Background_Dpkg.Pcholdflags.Hmactive        = True
3933   3944 Perf_Background_Dpkg.Pcholdflags.Hmdecel         = False
3934   3945 Perf_Background_Dpkg.Pcholdflags.Manhmwarn       = False
3935   3946 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel       = False
3936   3947 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv       = False
3937   3948 Perf_Background_Dpkg.Pcholdflags.Hmdistval       = False
3938   3949 Perf_Background_Dpkg.Pcholdflags.Consider_Hm     = False
3939   3950 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim         = True
3940   3951 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim        = True
3941   3952 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel       = True
3942   3953 Perf_Dpkg.Pshmdeleted                            = False
3943   3954 Perf_Background_Dpkg.Pshmdecel                   = false
3944   3955 Perf_Background_Dpkg.Psappspdlat                 = True
3945   3956 Perf_Background_Dpkg.Noise_Data.Altitude.Valid   = False
3946   3957 Perf_Background_Dpkg.Noise_Data.Speed.Valid      = False
3947   3958 Perf_Background_Dpkg.Psconsider_Hm               = False
3948   3959 Perf_Background_Dpkg.Pshxpxdecel                 = False
3949   3960 Perf_Background_Dpkg.Pcspeedmode                 /= Perf_Ext_Tpkg.Vmecon
3950   3961 -----------------------------------------------------------------------------------------------
            » --
3951   3962 TESTID: 17
3952   3963
3953   3964     If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
3954   3965   - Perf hold flag record (Pcholdflags) is copied from guidance
3955   3966   - Descent limit latch record (Pcdeslimlat) is copied from guidance.
3956   3967   - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
            » h.
3957   3968   - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
            » considers
3958   3969     the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
3959   3970   - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
            » HM if no
3960   3971     deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
            » lear the HM
3961   3972     leg deleted while in decel to HM flag (Pshmdeleted).
3962   3973   - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
            » d, and the
3963   3974     HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
            » t is within
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
3964 | 3975       the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
3965 | 3976      - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
            » l to HM,
3966 | 3977        then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
3967 | 3978      PERF_SDD_4794_INT
3968 | 3979      If Guidance considers the aircraft to be in a HA/HF deceleration, then flag indicating that the aircraft is within
3969 | 3980      the HA/HF decel zone is set to true. Otherwise, it is set to false.
3970 | 3981      PERF_SDD_4778_INT
3971 | 3982
3972 | 3983      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3973 | 3984      working flight plan.
3974 | 3985      PERF_SDD_4328 (PERF_SRD_10166_INT)
3975 | 3986
3976 | 3987      This test case Stores the noise data from the Active Flight Plan when the working flight plan is a Temporary fligh
            » t plan
3977 | 3988      as per the change in the Anchor. PERF_SDD_4327(PERF_SRD_12370_INT, PERF_SRD_12404, PERF_SRD_10166_INT)
3978 | 3989
3979 | 3990      This test case verify:
3980 | 3991      (1)Perf hold flag record (Pcholdflags) is copied from guidance
3981 | 3992      (2)Descent limit latch record (Pcdeslimlat) is copied from guidance
3982 | 3993      (3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
3983 | 3994      (4)the re-evaluation indication flag is not cleared (Repredict_Hm_Decel not false) (T,T)
3984 | 3995      (5)HM leg deleted is not cleared while in decel to HM flag (Pshmdeleted)  (T,F,T)
3985 | 3996      (6)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (T, T)
3986 | 3997      (7)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
            » e (F,T,T)
3987 | 3998      (8)Flag indicating that the aircraft is within the HA/HF decel zone (Pshxpxdecel) is set to True.
3988 | 3999
3989 | 4000 REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4778_INT,PERF_SDD_4328 (PERF_SRD_10166_INT)
3990 | 4001                                PERF_SDD_4327(PERF_SRD_12370_INT, PERF_SRD_12404, PERF_SRD_10166_INT)
3991 | 4002
3992 | 4003
3993 | 4004 -- INPUTS
3994 | 4005 Perf_Dpkg.takeoff_gwt.valid                      := True
3995 | 4006 Perf_Background_Dpkg.Pcactorsec                   := Temporary
3996 | 4007 Perf_Dpkg.takeoff_gwt.data                := 400.0
3997 | 4008 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
3998 | 4009 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec    := False
3999 | 4010 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
4000 | 4011 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
4001 | 4012 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec                              := False
4002 | 4013 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
4003 | 4014 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
4004 | 4015 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

4005	4016	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
4006	4017	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
4007	4018	Perf_Dpkg.Min_Gwt := 100.0
4008	4019	Perf_Dpkg.Max_Gwt := 400.0
4009	4020	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
4010	4021	Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase := Descent --Perf_Background_Dpkg.Pcfltphase
4011	4022	Perf_Background_Dpkg.Psignorehm := True
4012	4023	Perf_Background_Dpkg.Ats_Enable := True
4013	4024	Perf_Background_Dpkg.Psautolat := False
4014	4025	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
4015	4026	Perf_Background_Dpkg.Psengout := True
4016	4027	Cdk_Vert_Dpkg:Body.Engine_Out_I := True
4017	4028	Perf_Background_DPkg.Pscurcas := 5.0
4018	4029	Perf_Background_DPkg.Pscurmach := 5.0
4019	4030	Perf_Background_DPkg.Pscurtas := 5.0
4020	4031	Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
4021	4032	Perf_Background_Dpkg.Pstogwtval := False
4022	4033	Perf_Background_Dpkg.Pstogwt := 50.0
4023	4034	Perf_Background_Dpkg.Pcgwind := Invalid
4024	4035	Perf_Background_Dpkg.Psgw := 0.0
4025	4036	Perf_Dpkg.Gross_Weight.Status := Valid
4026	4037	Perf_Dpkg.Gross_Weight.Data := 150.0
4027	4038	Perf_Integration_DPkg.Pcairbrakes := Fullab
4028	4039	Perf_Background_Dpkg.Pcacconfig := 5
4029	4040	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
4030	4041	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
4031	4042	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
4032	4043	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
4033	4044	Perf_Background_Dpkg.Psstpclbact := True
4034	4045	Perf_Background_Dpkg.Psstpdesact := True
4035	4046	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
4036	4047	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
4037	4048	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
4038	4049	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
4039	4050	Perf_Background_Dpkg.Pccuraltcstr.Valid := True
4040	4051	Perf_Background_Dpkg.Pcprebcalt.Valid := True
4041	4052	Perf_Background_Dpkg.Pcgmttime.Hour := 1
4042	4053	Perf_Background_Dpkg.Pcgmttime.Minute := 1
4043	4054	Perf_Background_Dpkg.Pcgmttime.Second := 1
4044	4055	Perf_Background_Dpkg.Psinertvs := 5.0
4045	4056	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
4046	4057	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
4047	4058	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
4048	4059	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4049  4060  Perf_Ads_Dpkg.Pr_Enabled := False
4050  4061  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
4051  4062  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
4052  4063  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
4053  4064  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
4054  4065  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
4055  4066  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := true
4056  4067  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
4057  4068  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
4058  4069  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
4059  4070  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
4060  4071  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 100.0
4061  4072  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 0.5
4062  4073  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas := 50.0
4063  4074
4064  4075  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive  := False
4065  4076  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel    := True
4066  4077  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn := False
4067  4078  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel := True
4068  4079  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv := False
4069  4080  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval := False
4070  4081  Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Consider_Hm := False
4071  4082  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim     := False
4072  4083  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim    := False
4073  4084  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel   := False
4074  4085  Perf_Dpkg.Pshmdeleted := True
4075  4086
4076  4087  -- initlize the output values
4077  4088  Perf_Background_Dpkg.Pcholdflags.Hmactive          := True
4078  4089  Perf_Background_Dpkg.Pcholdflags.Hmdecel           := False
4079  4090  Perf_Background_Dpkg.Pcholdflags.Manhmwarn         := True
4080  4091  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel         := False
4081  4092  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv         := True
4082  4093  Perf_Background_Dpkg.Pcholdflags.Hmdistval         := True
4083  4094  Perf_Background_Dpkg.Pcholdflags.Consider_Hm       := True
4084  4095  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim           := True
4085  4096  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim          := True
4086  4097  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel         := True
4087  4098  Perf_Dpkg.Repredict_Hm_Decel                       := True
4088  4099  Perf_Background_Dpkg.Psappspdlat                    := True
4089  4100  Perf_Background_Dpkg.Noise_Data.Altitude.Valid     := True
4090  4101  Perf_Background_Dpkg.Noise_Data.Speed.Valid        := True
4091  4102  Perf_Background_Dpkg.Pshmdecel                      := True
4092  4103  Perf_Background_Dpkg.Psconsider_Hm                 := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4093   4104  Perf_Background_Dpkg.Pshxpxdecel                         := False
4094   4105
4095         #sba prf_bkgnd_pkg.get_bk_Data #1466
       4106  #sba prf_bkgnd_pkg.get_bk_Data #1473
4096   4107  #go
4097   4108  Noise_Abate_Data.NOISE_SPEED = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).NOISE_SPEED
4098   4109  Noise_Abate_Data.Noise_Speed_Val = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
4099   4110  Noise_Abate_Data.Noise_End_Alt = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
4100   4111  Noise_Abate_Data.Default_Noise_Spd = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noise_S
             » pd
4101   4112  Noise_Abate_Data.Default_Noise_Spd_Val = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noi
             » se_Spd_Val
4102   4113  Noise_Abate_Data.Noise_Thrust = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Thrust
4103   4114  !run_test()
4104   4115
4105   4116  -- OUTPUTS
4106   4117
4107   4118  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai        = True
4108   4119  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai          = True
4109   4120  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond         = True
4110   4121  Perf_Background_Dpkg.Pcholdflags.Hmactive       = False
4111   4122  Perf_Background_Dpkg.Pcholdflags.Hmdecel        = True
4112   4123  Perf_Background_Dpkg.Pcholdflags.Manhmwarn      = False
4113   4124  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel      = True
4114   4125  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv      = False
4115   4126  Perf_Background_Dpkg.Pcholdflags.Hmdistval      = False
4116   4127  Perf_Background_Dpkg.Pcholdflags.Consider_Hm    = False
4117   4128  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim        = False
4118   4129  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim       = False
4119   4130  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel      = False
4120   4131  Perf_Dpkg.Repredict_Hm_Decel                    /= false  -- Same as initialized
4121   4132  Perf_Dpkg.Pshmdeleted                           /= false -- Same as initialized
4122   4133  Perf_Background_Dpkg.Pshmdecel                  = False
4123   4134  Perf_Background_Dpkg.Psappspdlat                = False
4124   4135  Perf_Background_Dpkg.Noise_Data.Altitude.Valid  = False
4125   4136  Perf_Background_Dpkg.Noise_Data.Speed.Valid     = False
4126   4137  Perf_Background_Dpkg.Psconsider_Hm              = False
4127   4138  Perf_Background_Dpkg.Pshxpxdecel                = True
4128   4139  --------------------------------------------------------------------------------------------------------
             » ---
4129   4140  TESTID: 18
4130   4141
4131   4142      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
4132   4143      working flight plan.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4133    4144        PERF_SDD_4328 (PERF_SRD_10166_INT)
4134    4145
4135    4146    The noise data:  altitude, speed and thrust shall be copied from FPLN inputs for the all working flight plans,
4136    4147        by calling Fpln_Ext_Dpkg.Get_Noise_Data except when the working flight plan is a Temporary.  When the working
4137    4148        flight plan is a Temporary flight plan, the noise data is copied from the Active flight plan.
4138    4149        Anchor PERF_SDD_4327 (PERF_SRD_10166_INT, PERF_SRD_12370_INT, PERF_SRD_12404)
4139    4150
4140    4151
4141    4152    -- INPUTS
4142    4153    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
4143    4154    CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
4144    4155    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
4145    4156    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
4146    4157    CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
4147    4158    CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
4148    4159    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
4149    4160    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
4150    4161    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
4151    4162    CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
4152    4163    Perf_Dpkg.Min_Gwt := 100.0
4153    4164    Perf_Dpkg.Max_Gwt := 400.0
4154    4165    Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
4155    4166    Perf_Background_Dpkg.Psignorehm := True
4156    4167    Perf_Background_Dpkg.Ats_Enable := True
4157    4168    Perf_Background_Dpkg.Psautolat := False
4158    4169    Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
4159    4170    Perf_Background_Dpkg.Psengout := True
4160    4171    Cdk_Vert_Dpkg:Body.Engine_Out_I := True
4161    4172    Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.hmdecel := True
4162    4173    Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
4163    4174    Perf_Dpkg.Repredict_Hm_Decel := False
4164    4175    Perf_Background_DPkg.Pscurcas := 5.0
4165    4176    Perf_Background_DPkg.Pscurmach := 5.0
4166    4177    Perf_Background_DPkg.Pscurtas := 5.0
4167    4178    Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
4168    4179    Perf_Background_Dpkg.Pstogwtval := False
4169    4180    Perf_Background_Dpkg.Pstogwt := 50.0
4170    4181    Perf_Background_Dpkg.Pcgwind := Invalid
4171    4182    Perf_Background_Dpkg.Psgw := 0.0
4172    4183    Perf_Dpkg.Gross_Weight.Status := Valid
4173    4184    Perf_Dpkg.Gross_Weight.Data := 150.0
4174    4185    Perf_Integration_DPkg.Pcairbrakes := Fullab
4175    4186    Perf_Background_Dpkg.Pcacconfig := 5
4176    4187    Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4177   4188  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
4178   4189  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
4179   4190  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
4180   4191  Perf_Background_Dpkg.Psstpclbact := True
4181   4192  Perf_Background_Dpkg.Psstpdesact := True
4182   4193  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
4183   4194  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
4184   4195  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
4185   4196  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
4186   4197  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
4187   4198  Perf_Background_Dpkg.Pcprebcalt.Valid := True
4188   4199  Perf_Background_Dpkg.Pcgmttime.Hour := 1
4189   4200  Perf_Background_Dpkg.Pcgmttime.Minute := 1
4190   4201  Perf_Background_Dpkg.Pcgmttime.Second := 1
4191   4202  Perf_Background_Dpkg.Psinertvs := 5.0
4192   4203  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
4193   4204  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
4194   4205  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
4195   4206  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
4196   4207  Perf_Ads_Dpkg.Pr_Enabled := False
4197   4208  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
4198   4209  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
4199   4210  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Inactive
4200   4211  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
4201   4212  # go
4202   4213  Perf_Dpkg.takeoff_gwt.valid := True
4203   4214  Perf_Background_Dpkg.Pcactorsec := Secondary
4204   4215  Perf_Dpkg.takeoff_gwt.data := 400.0
4205   4216  #DELB/ALL
4206         #sba prf_bkgnd_pkg.get_bk_Data #1466
       4217  #sba prf_bkgnd_pkg.get_bk_Data #1473
4207   4218  #go
4208   4219  Perf_Background_Dpkg.Noise_Data.Altitude.Valid = False
4209   4220  Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
4210   4221  Noise_Abate_Data.NOISE_SPEED = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).NOISE_SPEED
4211   4222  Noise_Abate_Data.Noise_Speed_Val = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Va
             » l
4212   4223  Noise_Abate_Data.Noise_End_Alt = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt
4213   4224  Noise_Abate_Data.Default_Noise_Spd = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Default_Nois
             » e_Spd
4214   4225  Noise_Abate_Data.Default_Noise_Spd_Val = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Default_
             » Noise_Spd_Val
4215   4226  Noise_Abate_Data.Noise_Thrust = FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Thrust
4216   4227  !run_test()
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

4217	4228	
4218	4229	-- OUTPUTS
4219	4230	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = True
4220	4231	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai = True
4221	4232	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond = True
4222	4233	--- » ---
4223	4234	
4224	4235	TESTID: 19
4225	4236	
4226	4237	*When any of the following conditions are satisfied
4227	4238	(1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
4228	4239	Noise_Thrust_Target from VGUIDE is valid.
4229	4240	(2) If all the following conditions are satisfied
4230	4241	-Navigation(Nav Filtered) A/C Altitude is Valid
4231	4242	-Noise End altitude is valid
4232	4243	-Noise_Thrust_Target from VGUIDE is valid
4233	4244	-if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
4234	4245	current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
4235	4246	altitude tolerance).
4236	4247	Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
4237	4248	initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
4238	4249	and Perf_Background_Dpkg.Noise_Data.Ramping to true,
4239	4250	Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
4240	4251	PERF_SDD_4600(PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
4241	4252	PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT)
4242	4253	
4243	4254	in this case,
4244	4255	the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true
4245	4256	the Noise_Thrust_Target from VGUIDE is valid.
4246	4257	so, predicted noise thrust ramping data is initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to
4247	4258	the Noise_Thrust_Target, and Perf_Background_Dpkg.Noise_Data.Ramping to true.
4248	4259	
4249	4260	*If 1. the Flex_Takeoff_Temperature validity is true,
4250	4261	*2. the aircraft is in Climb or below, ("Climb" in this testcase)
4251	4262	*3. the aircraft altitude is at or below thrust reduction altitude ("below" in this testcase) and
4252	4263	4. there is not an engine out condition
4253	4264	then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
4254	4265	Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
4255	4266	where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C » .
4256	4267	If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
4257	4268	Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
4258	4269	*Else

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4259   4270            Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
4260   4271     Otherwise the Flex_Isadev value will be set to zero.
4261   4272   PERF_SDD_5585(PERF_SRD_12437)
4262   4273
4263   4274
4264   4275   --INPUTS
4265   4276
4266   4277   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
4267   4278   Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
4268   4279   Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
4269   4280   Perf_Background_Dpkg.Psorgalt := 36090.0
4270   4281   Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target  := (10.6, True)
4271   4282   --Guid_Ext_Dpkg.Noise_Thrust_Target := (Data =>10.6, Valid=>True)
4272   4283   Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := True
4273   4284   --Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                := True
4274   4285
4275   4286   -- Reset Output
4276   4287   Perf_Background_Dpkg.Flex_Isadev.Data    := 5.0
4277   4288   Perf_Background_Dpkg.Noise_Data.Tspd     := (0.0, False)
4278   4289   Perf_Background_Dpkg.Noise_Data.Ramping := False
4279   4290
4280   4291   #sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt before_end
4281   4292   #go
4282   4293   Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude := 156
4283   4294
4284   4295   #sba Perf_Get_State_Pkg.Get_State before_end
4285   4296   #go
4286   4297   Curacalt := 155.0
4287   4298
4288          #sba CDK_VERT_DPKG #786
       4299   #sba CDK_VERT_DPKG #789
4289   4300   #go
4290   4301   Engine_Out_I := False
4291   4302
4292   4303   !run_test()
4293   4304
4294   4305   -- OUTPUTS
4295   4306   Perf_Background_Dpkg.Flex_Isadev.Data     = 77.501508
4296   4307   Perf_Background_Dpkg.Noise_Data.Tspd.Data  = 10.6
4297   4308   Perf_Background_Dpkg.Noise_Data.Tspd.Valid = True
4298   4309   Perf_Background_Dpkg.Noise_Data.Ramping    = True
4299   4310
4300   4311   -------------------------------------------------------------------------------------------------
              » --
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4301 | 4312 | TESTID: 20
4302 | 4313 |
4303 | 4314 | *When any of the following conditions are satisfied
4304 | 4315 | (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
4305 | 4316 |     Noise_Thrust_Target from VGUIDE is valid.
4306 | 4317 | (2) If all the following conditions are satisfied
4307 | 4318 |     -Navigation(Nav Filtered) A/C Altitude is Valid
4308 | 4319 |     -Noise End altitude is valid
4309 | 4320 |     -Noise_Thrust_Target from VGUIDE is valid
4310 | 4321 |     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
4311 | 4322 |      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
4312 | 4323 |      altitude tolerance).
4313 | 4324 |     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
4314 | 4325 |     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
4315 | 4326 |     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
4316 | 4327 |     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
4317 | 4328 |     PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
4318 | 4329 |                    PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
4319 | 4330 |
4320 | 4331 |     in this case,
4321 | 4332 |     the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
4322 | 4333 |     Navigation(Nav Filtered) A/C Altitude is Valid
4323 | 4334 |     Noise End altitude is valid
4324 | 4335 |     the Noise_Thrust_Target from VGUIDE is valid.
4325 | 4336 |     the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
4326 | 4337 |     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
4327 | 4338 |     so, predicted noise thrust ramping data is initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to
4328 | 4339 |     the Noise_Thrust_Target, and Perf_Background_Dpkg.Noise_Data.Ramping to true.
4329 | 4340 |
4330 | 4341 | If *1. the Flex_Takeoff_Temperature validity is true,
4331 | 4342 |      2. the aircraft is in Climb or below,
4332 | 4343 |      3. the aircraft altitude is at or below thrust reduction altitude and
4333 | 4344 |      4. there is not an engine out condition
4334 | 4345 |    then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
4335 | 4346 |        Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
4336 | 4347 |        where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
       |      | » .
4337 | 4348 |            If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
4338 | 4349 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
4339 | 4350 |             Else
4340 | 4351 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
4341 | 4352 |  *Otherwise the Flex_Isadev value will be set to zero.
4342 | 4353 | PERF_SDD_5585(PERF_SRD_12437)
4343 | 4354 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4344  4355
4345  4356  --INPUTS
4346  4357
4347  4358  Perf_Background_Dpkg.Pcactorsec := Active
4348  4359  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
4349  4360  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := False
4350  4361  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
4351  4362  Perf_Background_Dpkg.Psorgalt := 36090.0
4352  4363  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
4353  4364  --Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := False
4354  4365  --Guid_Ext_Dpkg.Noise_Thrust_Target.Valid                      := True
4355  4366  Navigation_Data.Aircraft_Altitude_Valid := True
4356  4367  Navigation_Data.Aircraft_Altitude := 53.20
4357  4368  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status := Takeoff_Alt_Types.Active
4358  4369  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
4359  4370  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  90.0
4360  4371  Perf_Background_Dpkg.Psengout := False
4361  4372  -- Reset Output
4362  4373  Perf_Background_Dpkg.Flex_Isadev.Data   := 5.0
4363  4374  Perf_Background_Dpkg.Noise_Data.Tspd    := (0.0, False)
4364  4375  Perf_Background_Dpkg.Noise_Data.Ramping := False
4365  4376
4366  4377  #sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt before_end
4367  4378  #go
4368  4379  Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude := 156
4369  4380
4370  4381  #sba Perf_Get_State_Pkg.Get_State before_end
4371  4382  #go
4372  4383  Curacalt := 155.0
4373  4384  --#return
4374  4385  !run_test()
4375  4386
4376  4387  -- OUTPUTS
4377  4388  Perf_Background_Dpkg.Flex_Isadev.Data = 0.0
4378  4389  Perf_Background_Dpkg.Noise_Data.Tspd.Data  = 10.6
4379  4390  Perf_Background_Dpkg.Noise_Data.Tspd.Valid = True
4380  4391  Perf_Background_Dpkg.Noise_Data.Ramping = True
4381  4392
4382  4393  -------------------------------------------------------------------------------------------------------------
            » --
4383  4394  TESTID: 21
4384  4395
4385  4396  *When any of the following conditions are satisfied
4386  4397  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4387 | 4398      Noise_Thrust_Target from VGUIDE is valid.
4388 | 4399 (2) If all the following conditions are satisfied
4389 | 4400    -Navigation(Nav Filtered) A/C Altitude is Valid
4390 | 4401    -Noise End altitude is valid
4391 | 4402    -Noise_Thrust_Target from VGUIDE is valid
4392 | 4403    -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
4393 | 4404     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ftaltitude tolerance).
4394 | 4405    Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
4395 | 4406    initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
4396 | 4407    and Perf_Background_Dpkg.Noise_Data.Ramping to true,
4397 | 4408    Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
4398 | 4409    PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
4399 | 4410              PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
4400 | 4411
4401 | 4412    in this case,
4402 | 4413    the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is  true
4403 | 4414    Navigation(Nav Filtered) A/C Altitude is Valid
4404 | 4415    Noise End altitude is valid
4405 | 4416    the Noise_Thrust_Target from VGUIDE is invalid.
4406 | 4417    the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
4407 | 4418    current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
4408 | 4419    so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
4409 | 4420
4410 | 4421 If  1. the Flex_Takeoff_Temperature validity is true,
4411 | 4422   *2. the aircraft is in Climb or below,
4412 | 4423    3. the aircraft altitude is at or below thrust reduction altitude and
4413 | 4424    4. there is not an engine out condition
4414 | 4425   then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
4415 | 4426       Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
4416 | 4427        where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
     |      » .
4417 | 4428         If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
4418 | 4429            Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
4419 | 4430          Else
4420 | 4431            Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
4421 | 4432   *Otherwise the Flex_Isadev value will be set to zero.
4422 | 4433 PERF_SDD_5585(PERF_SRD_12437)
4423 | 4434
4424 | 4435
4425 | 4436 --INPUTS
4426 | 4437
4427 | 4438 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
4428 | 4439 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
4429 | 4440 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4430   4441 Perf_Background_Dpkg.Psorgalt := 36090.0
4431   4442 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
4432   4443 Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := True
4433   4444 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                    := False
4434   4445 Navigation_Data.Aircraft_Altitude_Valid := True
4435   4446 Navigation_Data.Aircraft_Altitude := 53.20
4436   4447 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
4437   4448 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
4438   4449 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  90.0
4439   4450 Perf_Background_Dpkg.Psengout := False
4440   4451
4441   4452
4442   4453 -- Reset Output
4443   4454 Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
4444   4455 Perf_Background_Dpkg.Noise_Data.Ramping := True
4445   4456
4446   4457 #sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt before_end
4447   4458 #go
4448   4459 Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude := 156
4449   4460
4450   4461 #sba Perf_Get_State_Pkg.Get_State before_end
4451   4462 #go
4452   4463 Curacalt := 155.0
4453   4464
4454   4465 !run_test()
4455   4466
4456   4467 -- OUTPUTS
4457   4468 Perf_Background_Dpkg.Flex_Isadev.Data   = 0.0
4458   4469 Perf_Background_Dpkg.Noise_Data.Ramping = False
4459   4470
4460   4471 ---------------------------------------------------------------------------------------------------------------
             » --
4461   4472
4462   4473 TESTID: 22
4463   4474
4464   4475 If  1. the Flex_Takeoff_Temperature validity is true,
4465   4476    2. the aircraft is in Climb or below,
4466   4477   *3. the aircraft altitude is at or below thrust reduction altitude and
4467   4478    4. there is not an engine out condition
4468   4479  then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
4469   4480      Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
4470   4481       where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
             » .
4471   4482        If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4472   4483            Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
4473   4484         Else
4474   4485            Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
4475   4486    *Otherwise the Flex_Isadev value will be set to zero.
4476   4487   PERF_SDD_5585(PERF_SRD_12437)
4477   4488
4478   4489   If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in Noi
              » se Ramp
4479   4490   segment and no engine out condition exist then the following noise data shall be set up for background's usage:
4480   4491   PERF_SDD_5607_INT
4481   4492
4482   4493   The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_Alt o
              » btained
4483   4494   from FPLN.
4484   4495   PERF_SDD_5608_INT
4485   4496
4486   4497   If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed shall b
              » e set to
4487   4498   valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
4488   4499   PERF_SDD_5610_INT (Here Noise Speed (Noise_Speed_Val) from FPLN is invalid)
4489   4500
4490   4501   If Noise TSPD from FPLN  is valid than the validity of Perf_Background_Dpkg.Noise_Data.TSPD shall be set to valid and
              » its
4491   4502   value is set to Noise_TSPD obtained from FPLN, otherwise its validity is set to Invalid.
4492   4503   PERF_SDD_5611_INT (Here Noise TSPD from FPLN is invalid.)
4493   4504
4494   4505   When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follows
4495   4506            If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4496   4507            If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4497   4508   This TC checks for negative conditions when CAS is selected, but A/C is not above crossover altitude.
4498   4509   PERF_SDD_07544_INT
4499   4510
4500   4511
4501   4512   --INPUTS
4502   4513
4503   4514   ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
4504   4515   ^Noise_Speed_Val := False
4505   4516   ^Noise_TSPD.valid := False
4506   4517   ^Noise_End_Alt    := 300.0
4507   4518   Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
4508   4519   Cdk_Vert_Dpkg:Body.Engine_Out_I := False
4509   4520   Perf_Background_Dpkg.Pcactorsec := Active
4510   4521   Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
4511   4522   Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

4512	4523	Perf_Background_Dpkg.Noise_Data.Speed.Valid := True
4513	4524	Perf_Background_Dpkg.Noise_Data.Tspd.Valid := True
4514	4525	
4515	4526	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
4516	4527	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
4517	4528	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data := 21.0
4518	4529	Perf_Background_Dpkg.Psorgalt := 36090.0
4519	4530	
4520	4531	-- Reset Output
4521	4532	Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
4522	4533	
4523	4534	#sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt before_end
4524	4535	#go
4525	4536	Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude := 156
4526	4537	
4527	4538	#sba Perf_Get_State_Pkg.Get_State before_end
4528	4539	#go
4529	4540	Curacalt := 156.5
4530	4541	
4531	4542	--#sba prf_bkgnd_pkg.get_bk_Data #1126
4532		#sba prf_bkgnd_pkg.get_bk_Data #1267
	4543	#sba prf_bkgnd_pkg.get_bk_Data #1274
4533	4544	#go
4534	4545	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
4535	4546	Perf_Background_Dpkg.Pcmanspd.Machvalid := True
4536	4547	Perf_Background_Dpkg.Psacalt := 10000.0
4537	4548	Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 20000.0
4538	4549	Machmode := False
4539	4550	#delb/all
4540	4551	
4541		#sba prf_bkgnd_pkg.get_bk_Data #1466
	4552	#sba prf_bkgnd_pkg.get_bk_Data #1473
4542	4553	#go
4543	4554	Perf_Background_Dpkg.Noise_Data.Tspd.Valid = False
4544	4555	
4545	4556	!run_test()
4546	4557	
4547	4558	-- OUTPUTS
4548	4559	Perf_Background_Dpkg.Flex_Isadev.Data = 0.0
4549	4560	Perf_Background_Dpkg.Noise_Data.Altitude.Valid = True
4550	4561	Perf_Background_Dpkg.Noise_Data.Altitude.Data = 300.0
4551	4562	Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
4552	4563	Perf_Background_Dpkg.Noise_Data.Tspd.Valid = False
4553	4564	Perf_Background_Dpkg.Pcmanspd.Machvalid = True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4554   4565 | --------------------------------------------------------------------------------
            | » --
4555   4566 |
4556   4567 | TESTID: 23
4557   4568 |
4558   4569 | If  1. the Flex_Takeoff_Temperature validity is true,
4559   4570 |     2. the aircraft is in Climb or below,
4560   4571 |    *3. the aircraft altitude is at or below thrust reduction altitude and
4561   4572 |     4. there is not an engine out condition
4562   4573 |   then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
4563   4574 |        Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
4564   4575 |         where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
            | » .
4565   4576 |            If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
4566   4577 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
4567   4578 |              Else
4568   4579 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
4569   4580 |  *Otherwise the Flex_Isadev value will be set to zero.
4570   4581 | PERF_SDD_5585(PERF_SRD_12437)
4571   4582 |
4572   4583 | When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follows
4573   4584 |          If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4574   4585 |          If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4575   4586 | This TC checks for negative conditions when MACH is selected, but A/C is not below crossover altitude.
4576   4587 | PERF_SDD_07544_INT
4577   4588 |
4578   4589 |
4579   4590 | --INPUTS
4580   4591 |
4581   4592 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
4582   4593 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
4583   4594 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
4584   4595 | Perf_Background_Dpkg.Psorgalt := 36090.0
4585   4596 |
4586   4597 | -- Reset Output
4587   4598 | Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
4588   4599 |
4589   4600 | #sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt before_end
4590   4601 | #go
4591   4602 | Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude := 156
4592   4603 |
4593   4604 | #sba Perf_Get_State_Pkg.Get_State before_end
4594   4605 | #go
4595   4606 | Curacalt := 155.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

4596	4607	
4597		~~#sba CDK_VERT_DPKG #786~~
	4608	#sba CDK_VERT_DPKG #789
4598	4609	#go
4599	4610	Engine_Out_I := True
4600	4611	
4601	4612	--#sba prf_bkgnd_pkg.get_bk_Data #1126
4602		~~#sba prf_bkgnd_pkg.get_bk_Data #1267~~
	4613	#sba prf_bkgnd_pkg.get_bk_Data #1274
4603	4614	#go
4604	4615	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
4605	4616	Perf_Background_Dpkg.Pcmanspd.Casvalid := True
4606	4617	Perf_Background_Dpkg.Psacalt := 20000.0
4607	4618	Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 10000.0
4608	4619	Machmode := True
4609	4620	
4610	4621	!run_test()
4611	4622	
4612	4623	-- OUTPUTS
4613	4624	Perf_Background_Dpkg.Flex_Isadev.Data = 0.0
4614	4625	Perf_Background_Dpkg.Pcmanspd.Casvalid = True
4615	4626	-- » --
4616	4627	TESTID: 24
4617	4628	
4618	4629	A/C is in Cruise and current itin is Current Mode Predictions (Normal) so target speed is
4619	4630	limited by calling the speed envelope module.
4620	4631	
4621	4632	The previous non-envelope-limited target speed is set to the current VG MACH speed target
4622	4633	and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4623	4634	if all of the following are true:
4624	4635	- A VG speed change target is not currently being applied and the flight phase is less than Approach;
4625	4636	- Current flight phase is cruise and the aircraft is at above 24950 ft
4626	4637	and the current VG CAS target is below of Climb speed limit speed.
4627	4638	
4628	4639	If the current itinerary is one of the following:
4629	4640	- Active Primary Flight Plan Predictions;
4630	4641	- Temporary Primary Flight Plan Predictions;
4631	4642	-Current mode predictions(Normal or High priority);
4632	4643	- Optimum altitude predictions;
4633	4644	then the descent path shall be retrieved from the descent path object
4634	4645	manager via a call to Perf_Ext_Despath.Pgvdespath.
4635	4646	
4636	4647	When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follow

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4637   4648  » s
4637   4648         If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4638   4649         If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4639   4650      CAS is selected on FCU and A/C is above crossover altitude in this TC.
4640   4651
4641   4652      REQUIREMENTS UNDER EVALUATION : PERF_SDD_3055_INT, PERF_SDD_3053_INT, PERF_SDD_3888_INT, PERF_SDD_07544_INT.
4642   4653      SUPPORTING REQUIREMENTS : N/A
4643   4654
4644   4655
4645   4656  -- INPUTS
4646   4657  Navigation_Data.Aircraft_Altitude := 25000.0
4647   4658  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
4648   4659  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
4649   4660  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
4650   4661  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
4651   4662  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
4652   4663  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
4653   4664  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
4654   4665  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
4655   4666  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
4656   4667  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
4657   4668  Perf_Dpkg.Min_Gwt := 100.0
4658   4669  Perf_Dpkg.Max_Gwt := 400.0
4659   4670  Perf_Background_Dpkg.Pcactorsec := Secondary
4660   4671  Perf_Background_Dpkg.Psignorehm := True
4661   4672  Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
4662   4673  Perf_Background_Dpkg.Pcfltphase := Approach
4663   4674  Perf_Background_Dpkg.Ats_Enable := True
4664   4675  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
4665   4676  Perf_Background_Dpkg.Psacalt := 25000.0
4666   4677  Perf_Database_Dpkg.Psmmo := 0.45
4667   4678  Perf_Background_Dpkg.Pszfw := 300.0
4668   4679  Perf_Background_Dpkg.Psblockfuel := 50.0
4669   4680  Perf_Background_Dpkg.Pstaxifuel := 25.0
4670   4681  Perf_Background_Dpkg.Psairborne := True
4671   4682  Perf_Background_Dpkg.Psautolat := False
4672   4683  Guid_Ext_Dpkg.Gcxxlatautoc := True
4673   4684  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
4674   4685  Perf_Background_Dpkg.Psengout := True
4675   4686  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
4676   4687  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
4677   4688  Perf_Dpkg.Repredict_Hm_Decel := True
4678   4689  Perf_Background_DPkg.Pshmdecel := True
4679   4690  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4680   4691   Perf_Ads_Dpkg.Fi_Enabled := True
4681   4692   Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
4682   4693   Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
4683   4694   Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
4684   4695   Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
4685   4696   Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
4686   4697   Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
4687   4698   Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
4688   4699   Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
4689   4700   Perf_Background_Dpkg.Psappspdlat := True
4690   4701   Perf_Dpkg.Pcengoutprds := Altpln
4691   4702   Perf_Background_Dpkg.Pcpathref := Onpath
4692   4703   Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
4693   4704   Perf_Background_DPkg.Pscurcas := 5.0
4694   4705   Perf_Background_DPkg.Pscurmach := 5.0
4695   4706   Perf_Background_DPkg.Pscurtas := 5.0
4696   4707   Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Preds
4697   4708   Perf_Background_Dpkg.Psenginesoff := True
4698   4709   Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
4699   4710   Perf_Background_Dpkg.Pstogwtval := False
4700   4711   Perf_Background_Dpkg.Pstogwt := 50.0
4701   4712   Perf_Background_Dpkg.Pcgwind := Invalid
4702   4713   Perf_Background_Dpkg.Psgw := 0.0
4703   4714   Perf_Dpkg.Gross_Weight.Status := Valid
4704   4715   Perf_Dpkg.Gross_Weight.Data := 150.0
4705   4716   Perf_Integration_DPkg.Pcairbrakes := Fullab
4706   4717   Perf_Background_Dpkg.Pcacconfig := 5
4707   4718   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := True
4708   4719   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 25004.0
4709   4720   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
4710   4721   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
4711   4722   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
4712   4723   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
4713   4724   Perf_Background_Dpkg.Psstpclbact := True
4714   4725   Perf_Background_Dpkg.Psstpdesact := True
4715   4726   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
4716   4727   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
4717   4728   Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
4718   4729   Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
4719   4730   Perf_Background_Dpkg.Pccuraltcstr.Valid := True
4720   4731   Perf_Background_Dpkg.Pcprebcalt.Valid := True
4721   4732   Perf_Background_Dpkg.Pcgmttime.Hour := 1
4722   4733   Perf_Background_Dpkg.Pcgmttime.Minute := 1
4723   4734   Perf_Background_Dpkg.Pcgmttime.Second := 1
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

4724	4735	`Perf_Background_Dpkg.Psinertvs := 5.0`
4725	4736	`Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0`
4726	4737	`Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2`
4727	4738	`Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0`
4728	4739	`Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2`
4729	4740	`Perf_Ads_Dpkg.Pr_Enabled := False`
4730	4741	`ATC_DISCRETES_PKG:body.Adson_Flag := True`
4731	4742	`Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True`
4732	4743	`Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False`
4733	4744	`Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True`
4734	4745	`Perf_Background_Dpkg.Pcoldcasmchi := Cas`
4735	4746	
4736	4747	`Perf_Ads_Dpkg.Ii_Enabled := False`
4737	4748	`CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true`
4738	4749	`CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true`
4739	4750	`^Noise_End_Alt_Status := Takeoff_Alt_Types.Active`
4740	4751	`CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (0)`
4741	4752	`Perf_Background_Dpkg.Pcitin.Flight_Plan := Active`
4742	4753	
4743		~~`#sba prf_bkgnd_pkg.get_bk_Data #1267`~~
	4754	`#sba prf_bkgnd_pkg.get_bk_Data #1274`
4744	4755	`#go`
4745	4756	`Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd`
4746	4757	`Perf_Background_Dpkg.Pcmanspd.Machvalid := True`
4747	4758	`Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 50.0`
4748	4759	`Machmode := False`
4749	4760	`CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = True`
4750	4761	`#delb/all`
4751	4762	
4752		~~`#sba prf_bkgnd_pkg.get_bk_Data #1605`~~
	4763	`#sba prf_bkgnd_pkg.get_bk_Data #1612`
4753	4764	`#go`
4754	4765	`Perf_Background_Dpkg.Pcfltphase := Cruise`
4755	4766	`Perf_Background_Dpkg.Psacalt := 25001.0`
4756	4767	`Perf_Integration_Dpkg.Psoldnoentgt := 1.0`
4757	4768	`Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False`
4758	4769	`Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False`
4759		~~`#delba prf_bkgnd_pkg.get_bk_Data #1605`~~
	4770	`#delba prf_bkgnd_pkg.get_bk_Data #1612`
4760	4771	
4761	4772	`!run_test()`
4762	4773	
4763	4774	`-- OUTPUTS`
4764	4775	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4765   4776  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
4766   4777  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = True
4767   4778  Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
4768   4779  Perf_Background_Dpkg.Pcmanspd.Machvalid = False
4769   4780
4770   4781  -----------------------------------------------------------------------------------------------------
             » --
4771   4782  TESTID: 25
4772   4783
4773   4784     A/C is in Cruise and current itin is Current Mode Predictions (High priority) so target speed is
4774   4785     limited by calling the speed envelope module.
4775   4786
4776   4787     If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
4777   4788     - Perf hold flag record (Pcholdflags) is copied from guidance
4778   4789     - Descent limit latch record (Pcdeslimlat) is copied from guidance.
4779   4790     - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
             » h.
4780   4791     - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
             » considers
4781   4792       the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
4782   4793     - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
             »  HM if no
4783   4794       deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
             » lear the HM
4784   4795       leg deleted while in decel to HM flag (Pshmdeleted).
4785   4796     - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
             » d, and the
4786   4797       HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
             » t is within
4787   4798       the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
4788   4799     - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
             » l to HM,
4789   4800       then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
4790   4801       PERF_SDD_4794_INT
4791   4802
4792   4803     The previous non-envelope-limited target speed is set to the current VG MACH speed target
4793   4804     and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4794   4805     if all of the following are true:
4795   4806       - A VG speed change target is not currently being applied and the flight phase is less than Approach
4796   4807         (here flight phase is cruise);
4797   4808       - Current flight phase is cruise and the aircraft is at above 24950 ft
4798   4809         and the Climb speed limit altitude is not included or the aircraft is at or above climb speed limit altitude;
4799   4810
4800   4811     If the current itinerary is one of the following:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4801  4812        - Active Primary Flight Plan Predictions;
4802  4813        - Temporary Primary Flight Plan Predictions;
4803  4814        -Current mode predictions(Normal or High priority);
4804  4815        - Optimum altitude predictions;
4805  4816        then the descent path shall be retrieved from the descent path object
4806  4817        manager via a call to Perf_Ext_Despath.Pgvdespath.
4807  4818
4808  4819        When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follow
            » s
4809  4820            If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4810  4821            If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4811  4822        MACH is selected on FCU and A/C is below crossover altitude in this TC.
4812  4823
4813  4824        In this case, we set the corresponding condition and verify:
4814  4825        (1)Repredict_Hm_Decel is Remain false as the Initialization.  (F,F)
4815  4826        (2)the HM leg deleted while in decel to HM flag is not Cleared(Pshmdeleted)  (F,T,T)
4816  4827        (3)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
            » e (T,F,T)
4817  4828        (4)flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F, T)
4818  4829        (5)Perf hold flag record (Pcholdflags) is copied from guidance
4819  4830        (6)Descent limit latch record (Pcdeslimlat) is copied from guidance
4820  4831        (7)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
4821  4832
4822  4833        REQUIREMENTS UNDER EVALUATION : PERF_SDD_3055_INT, PERF_SDD_3053_INT, PERF_SDD_3888_INT,
4823  4834                                         PERF_SDD_07544_INT, PERF_SDD_4794_INT
4824  4835        SUPPORTING REQUIREMENTS : N/A
4825  4836
4826  4837
4827  4838 -- INPUTS
4828  4839 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
4829  4840 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
4830  4841 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
4831  4842 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
4832  4843 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
4833  4844 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
4834  4845 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
4835  4846 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
4836  4847 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
4837  4848 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
4838  4849 Perf_Dpkg.Min_Gwt := 100.0
4839  4850 Perf_Dpkg.Max_Gwt := 400.0
4840  4851 Perf_Background_Dpkg.Pcactorsec := Active
4841  4852 Perf_Background_Dpkg.Psignorehm := True
4842  4853 Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4843 | 4854 | Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase := Cruise --Perf_Background_Dpkg.Pcfltphase
4844 | 4855 | Perf_Background_Dpkg.Ats_Enable := True
4845 | 4856 | Perf_Background_Dpkg.Psacalt := 25001.0
4846 | 4857 | Perf_Database_Dpkg.Psmmo := 0.45
4847 | 4858 | Perf_Background_Dpkg.Pszfw := 300.0
4848 | 4859 | Perf_Background_Dpkg.Psblockfuel := 50.0
4849 | 4860 | Perf_Background_Dpkg.Pstaxifuel := 25.0
4850 | 4861 | Perf_Background_Dpkg.Psairborne := True
4851 | 4862 | Perf_Background_Dpkg.Psautolat := False
4852 | 4863 | Guid_Ext_Dpkg.Gcxxlatautoc := True
4853 | 4864 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
4854 | 4865 | Perf_Background_Dpkg.Psengout := True
4855 | 4866 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
4856 | 4867 | Perf_Dpkg.Repredict_Hm_Decel := False
4857 | 4868 | Perf_Background_DPkg.Pshmdecel := True
4858 | 4869 | Perf_Background_Dpkg.Pcholdflags.Hmactive := True
4859 | 4870 | Perf_Ads_Dpkg.Fi_Enabled := false
4860 | 4871 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
4861 | 4872 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
4862 | 4873 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
4863 | 4874 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
4864 | 4875 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
4865 | 4876 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
4866 | 4877 |
4867 | 4878 | Perf_Dpkg.Pcengoutprds := Altpln
4868 | 4879 | Perf_Background_Dpkg.Pcpathref := Onpath
4869 | 4880 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
4870 | 4881 | Perf_Background_DPkg.Pscurcas := 5.0
4871 | 4882 | Perf_Background_DPkg.Pscurmach := 5.0
4872 | 4883 | Perf_Background_DPkg.Pscurtas := 5.0
4873 | 4884 | Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Hi_Pri
4874 | 4885 | Perf_Background_Dpkg.Psenginesoff := True
4875 | 4886 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
4876 | 4887 | Perf_Background_Dpkg.Pstogwtval := False
4877 | 4888 | Perf_Background_Dpkg.Pstogwt := 50.0
4878 | 4889 | Perf_Background_Dpkg.Pcgwind := Invalid
4879 | 4890 | Perf_Background_Dpkg.Psgw := 0.0
4880 | 4891 | Perf_Dpkg.Gross_Weight.Status := Valid
4881 | 4892 | Perf_Dpkg.Gross_Weight.Data := 150.0
4882 | 4893 | Perf_Integration_DPkg.Pcairbrakes := Fullab
4883 | 4894 | Perf_Background_Dpkg.Pcacconfig := 5
4884 | 4895 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
4885 | 4896 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
4886 | 4897 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 300.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4887   4898  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
4888   4899  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
4889   4900  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
4890   4901  Perf_Background_Dpkg.Psstpclbact := True
4891   4902  Perf_Background_Dpkg.Psstpdesact := True
4892   4903  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
4893   4904  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
4894   4905  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
4895   4906  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
4896   4907  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
4897   4908  Perf_Background_Dpkg.Pcprebcalt.Valid := True
4898   4909  Perf_Background_Dpkg.Pcgmttime.Hour := 1
4899   4910  Perf_Background_Dpkg.Pcgmttime.Minute := 1
4900   4911  Perf_Background_Dpkg.Pcgmttime.Second := 1
4901   4912  Perf_Background_Dpkg.Psinertvs := 5.0
4902   4913  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
4903   4914  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
4904   4915  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
4905   4916  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
4906   4917  Perf_Ads_Dpkg.Pr_Enabled := False
4907   4918  ATC_DISCRETES_PKG:body.Adson_Flag := True
4908   4919  Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True
4909   4920  Perf_Ads_Dpkg.Ii_Enabled := False
4910   4921  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
4911   4922  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
4912   4923  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
4913   4924  CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (0)
4914   4925  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := false
4915   4926  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
4916   4927  Perf_Background_Dpkg.Pcitin.Flight_Plan := Active
4917   4928  Navigation_Data.Aircraft_Altitude := 25001.0
4918   4929  Perf_Background_Dpkg.Pcoldcasmchi := Cas
4919   4930  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive  := False
4920   4931  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel   := False
4921   4932  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn := True
4922   4933  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel := False
4923   4934  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv := False
4924   4935  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval := False
4925   4936  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm := True
4926   4937  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim   := True
4927   4938  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim  := True
4928   4939  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel := True
4929   4940  Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 0.0
4930   4941  Perf_Dpkg.Pshmdeleted := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4931  4942  CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt   :=25001.0
4932  4943  Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt := 25001.1
4933  4944  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
4934  4945  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
            » True
4935  4946  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
4936  4947  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := true
4937  4948  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
4938  4949  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
4939  4950  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
4940  4951  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
4941  4952  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := -100.0
4942  4953  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 0.5
4943  4954  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas := 50.0
4944  4955
4945  4956  -- Reset Outputs
4946  4957  Perf_Background_Dpkg.Pcholdflags.Hmactive            := True
4947  4958  Perf_Background_Dpkg.Pcholdflags.Hmdecel             := True
4948  4959  Perf_Background_Dpkg.Pcholdflags.Manhmwarn           := False
4949  4960  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel           := True
4950  4961  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv           := True
4951  4962  Perf_Background_Dpkg.Pcholdflags.Hmdistval           := True
4952  4963  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim             := False
4953  4964  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim            := False
4954  4965  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel           := False
4955  4966  Perf_Background_Dpkg.Pcholdflags.Consider_Hm          := False
4956  4967  Perf_Background_Dpkg.Psappspdlat                     := true
4957  4968  Perf_Background_Dpkg.Psconsider_Hm                   := True
4958  4969  Perf_Background_Dpkg.Pshmdecel                       := true
4959  4970  Perf_Integration_Dpkg.Psoldnoentgt := 1.0
4960  4971  Perf_Background_Dpkg.Pcmanspd.Casvalid := True
4961  4972
4962  4973  !run_test()
4963  4974
4964  4975  -- OUTPUTS
4965  4976
4966  4977  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
4967  4978  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = True
4968  4979  Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
4969  4980  Perf_Background_Dpkg.Pcholdflags.Hmactive     = False
4970  4981  Perf_Background_Dpkg.Pcholdflags.Hmdecel      = False
4971  4982  Perf_Background_Dpkg.Pcholdflags.Manhmwarn    = True
4972  4983  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel    = False
4973  4984  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv    = False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
4974   4985  Perf_Background_Dpkg.Pcholdflags.Hmdistval    = False
4975   4986  Perf_Background_Dpkg.Pcholdflags.Consider_Hm  = True
4976   4987  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim      = True
4977   4988  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim     = True
4978   4989  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel    = True
4979   4990  Perf_Dpkg.Pshmdeleted                         /= false --Remain true as the Initialization.
4980   4991  Perf_Background_Dpkg.Pshmdecel                = False
4981   4992  Perf_Background_Dpkg.Pcmanspd.Casvalid        = False
4982   4993  Perf_Background_Dpkg.Psappspdlat              = false
4983   4994  Perf_Background_Dpkg.Psconsider_Hm            = False
4984   4995  Perf_Dpkg.Repredict_Hm_Decel                 = False --Remain false as the Initialization.
4985   4996  CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = True
4986   4997  -----------------------------------------------------------------------------------------------------------------
             » --
4987   4998  TESTID: 26
4988   4999
4989   5000     The previous non-envelope-limited target speed is set to the current VG MACH speed target
4990   5001     and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4991   5002     if all of the following are true:
4992   5003       - A VG speed change target is not currently being applied and The flight phase is less than Approach
4993   5004         (here flight phase is Takeoff);
4994   5005       - A CMS is currently active and the aircraft is above climb speed limit altitude;
4995   5006
4996   5007     REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT
4997   5008     SUPPORTING REQUIREMENTS : N/A
4998   5009
4999   5010
5000   5011  -- INPUTS
5001   5012  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
5002   5013  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
5003   5014  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
5004   5015  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
5005   5016  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
5006   5017  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
5007   5018  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
5008   5019  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
5009   5020  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
5010   5021  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
5011   5022  Perf_Dpkg.Min_Gwt := 100.0
5012   5023  Perf_Dpkg.Max_Gwt := 400.0
5013   5024  Perf_Background_Dpkg.Pcactorsec := Active
5014   5025  Perf_Background_Dpkg.Psignorehm := True
5015   5026  Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
5016   5027  Perf_Background_Dpkg.Pcfltphase := Approach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5017 | 5028 | Perf_Background_Dpkg.Ats_Enable := True
5018 | 5029 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
5019 | 5030 | Perf_Background_Dpkg.Psacalt := 25001.0
5020 | 5031 | Perf_Database_Dpkg.Psmmo := 0.45
5021 | 5032 | Perf_Background_Dpkg.Pszfw := 300.0
5022 | 5033 | Perf_Background_Dpkg.Psblockfuel := 50.0
5023 | 5034 | Perf_Background_Dpkg.Pstaxifuel := 25.0
5024 | 5035 | Perf_Background_Dpkg.Psairborne := True
5025 | 5036 | Perf_Background_Dpkg.Psautolat := False
5026 | 5037 | Guid_Ext_Dpkg.Gcxxlatautoc := True
5027 | 5038 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := True
5028 | 5039 | Perf_Background_Dpkg.Psengout := True
5029 | 5040 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
5030 | 5041 | Perf_Dpkg.Repredict_Hm_Decel := True
5031 | 5042 | Perf_Background_DPkg.Pshmdecel := True
5032 | 5043 | Perf_Background_Dpkg.Pcholdflags.Hmactive := True
5033 | 5044 | Perf_Ads_Dpkg.Fi_Enabled := True
5034 | 5045 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
5035 | 5046 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
5036 | 5047 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
5037 | 5048 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
5038 | 5049 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
5039 | 5050 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
5040 | 5051 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
5041 | 5052 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
5042 | 5053 | Perf_Background_Dpkg.Psappspdlat := True
5043 | 5054 | Perf_Dpkg.Pcengoutprds := Altpln
5044 | 5055 | Perf_Background_Dpkg.Pcpathref := Onpath
5045 | 5056 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
5046 | 5057 | Perf_Background_DPkg.Pscurcas := 5.0
5047 | 5058 | Perf_Background_DPkg.Pscurmach := 5.0
5048 | 5059 | Perf_Background_DPkg.Pscurtas := 5.0
5049 | 5060 | Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Hi_Pri
5050 | 5061 | Perf_Background_Dpkg.Psenginesoff := True
5051 | 5062 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
5052 | 5063 | Perf_Background_Dpkg.Pstogwtval := False
5053 | 5064 | Perf_Background_Dpkg.Pstogwt := 50.0
5054 | 5065 | Perf_Background_Dpkg.Pcgwind := Invalid
5055 | 5066 | Perf_Background_Dpkg.Psgw := 0.0
5056 | 5067 | Perf_Dpkg.Gross_Weight.Status := Valid
5057 | 5068 | Perf_Dpkg.Gross_Weight.Data := 150.0
5058 | 5069 | Perf_Integration_DPkg.Pcairbrakes := Fullab
5059 | 5070 | Perf_Background_Dpkg.Pcacconfig := 5
5060 | 5071 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5061   5072   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5062   5073   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
5063   5074   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
5064   5075   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
5065   5076   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
5066   5077   Perf_Background_Dpkg.Psstpclbact := True
5067   5078   Perf_Background_Dpkg.Psstpdesact := True
5068   5079   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
5069   5080   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
5070   5081   Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
5071   5082   Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
5072   5083   Perf_Background_Dpkg.Pccuraltcstr.Valid := True
5073   5084   Perf_Background_Dpkg.Pcprebcalt.Valid := True
5074   5085   Perf_Background_Dpkg.Pcgmttime.Hour := 1
5075   5086   Perf_Background_Dpkg.Pcgmttime.Minute := 1
5076   5087   Perf_Background_Dpkg.Pcgmttime.Second := 1
5077   5088   Perf_Background_Dpkg.Psinertvs := 5.0
5078   5089   Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
5079   5090   Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
5080   5091   Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
5081   5092   Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
5082   5093   Perf_Ads_Dpkg.Pr_Enabled := False
5083   5094   ATC_DISCRETES_PKG:body.Adson_Flag := True
5084   5095   Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid := True
5085   5096   Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Hmdecel := False
5086   5097   Perf_Dpkg.Pshmdeleted := True
5087   5098   Perf_Ads_Dpkg.Ii_Enabled := False
5088   5099   CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
5089   5100   CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
5090   5101   ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
5091   5102   CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints := (0)
5092   5103   Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
5093   5104   Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
5094   5105   Perf_Background_Dpkg.Pcitin.Flight_Plan := Active
5095   5106   Navigation_Data.Aircraft_Altitude := 25001.0
5096   5107   Perf_Background_Dpkg.Pcoldcasmchi := Cas
5097   5108
5098          #sba prf_bkgnd_pkg.get_bk_Data #1605
       5109   #sba prf_bkgnd_pkg.get_bk_Data #1612
5099   5110   #go
5100   5111   Perf_Background_Dpkg.Psacalt := 25001.0
5101   5112   Perf_Integration_Dpkg.Psoldnoentgt := 1.0
5102   5113   Perf_Background_Dpkg.Pcfltphase := Takeoff
5103          #delba prf_bkgnd_pkg.get_bk_Data #1605
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

	5114	#delba prf_bkgnd_pkg.get_bk_Data #1612
5104	5115	
5105	5116	!run_test()
5106	5117	
5107	5118	-- OUTPUTS
5108	5119	Perf_Integration_Dpkg.Psoldnoentgt = 0.0
5109	5120	Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
5110	5121	
5111	5122	-- » --
5112	5123	TESTID: 27
5113	5124	
5114	5125	The previous non-envelope-limited target speed is set to the current VG MACH speed target
5115	5126	and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
5116	5127	if all of the following are true:
5117	5128	- A VG speed change target is not currently being applied and the flight phase is less than Approach
5118	5129	(here flight phase is takeoff);
5119	5130	- Current flight phase is not cruise or the climb/descent step is active and the aircraft is above crossover alt » itude;
5120	5131	
5121	5132	If the working flight plan is Active or Temporary, flags related to HM legs shall be set as follows:
5122	5133	- Perf hold flag record (Pcholdflags) is copied from guidance
5123	5134	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
5124	5135	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac » h.
5125	5136	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer » considers
5126	5137	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
5127	5138	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the » HM if no
5128	5139	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c » lear the HM
5129	5140	leg deleted while in decel to HM flag (Pshmdeleted).
5130	5141	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte » d, and the
5131	5142	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf » t is within
5132	5143	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
5133	5144	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece » l to HM,
5134	5145	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
5135	5146	PERF_SDD_4794_INT
5136	5147	
5137	5148	This test case verify:(the working flight plan is Temporary)

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5138	5149	(1)Perf hold flag record (Pcholdflags) is copied from guidance
5139	5150	(2)Descent limit latch record (Pcdeslimlat) is copied from guidance
5140	5151	(3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
5141	5152	(4)the re-evaluation indication flag is cleared (Repredict_Hm_Decel) (F,T)
5142	5153	(5)HM leg deleted is cleared while in decel to HM flag (Pshmdeleted) (F,F,T)
5143	5154	(6)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F,F)
5144	5155	(7)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
		» e (F,F,F)
5145	5156	
5146	5157	REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT, PERF_SDD_4794_INT
5147	5158	SUPPORTING REQUIREMENTS : N/A
5148	5159	
5149	5160	
5150	5161	-- INPUTS
5151	5162	Perf_Background_Dpkg.Pcoldcasmchi := Cas
5152	5163	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5153	5164	Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
5154	5165	Perf_Background_Dpkg.Pcactorsec := Temporary
5155	5166	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
5156	5167	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel := False
5157	5168	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn := False
5158	5169	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel := True
5159	5170	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv := True
5160	5171	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval := True
5161	5172	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm := False
5162	5173	Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim := False
5163	5174	Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim := False
5164	5175	Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel := False
5165	5176	Perf_Dpkg.Pshmdeleted := True
5166	5177	Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase := Descent
5167	5178	Perf_Background_Dpkg.Constant_Mach_Seg.Is_Active := False
5168	5179	CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt :=25001.0
5169	5180	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
5170	5181	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
5171	5182	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach := true
5172	5183	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas := True
5173	5184	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas := True
5174	5185	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
5175	5186	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
5176	5187	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 100.0
5177	5188	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := -0.5
5178	5189	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas := 50.0
5179	5190	Guid_Spds_Dpkg.Vc3curspds.Fltphase := Descent
5180	5191	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5181 | 5192 | -- Reset Outputs
5182 | 5193 | Perf_Background_Dpkg.Pcholdflags.Hmactive          := True
5183 | 5194 | Perf_Background_Dpkg.Pcholdflags.Hmdecel           := True
5184 | 5195 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn         := True
5185 | 5196 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel         := False
5186 | 5197 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv         := False
5187 | 5198 | Perf_Background_Dpkg.Pcholdflags.Hmdistval         := False
5188 | 5199 | Perf_Background_Dpkg.Pcholdflags.Consider_Hm       := True
5189 | 5200 |
5190 | 5201 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim          := True
5191 | 5202 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim         := True
5192 | 5203 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel        := True
5193 | 5204 | Perf_Dpkg.Pshmdeleted                             := True
5194 | 5205 | Perf_Dpkg.Repredict_Hm_Decel                      := True
5195 | 5206 | Perf_Background_Dpkg.Psappspdlat                   := True
5196 | 5207 | Perf_Background_DPkg.Pshmdecel                     := True
5197 | 5208 | Perf_Background_Dpkg.Psconsider_Hm                 := True
5198 | 5209 | Perf_Background_Dpkg.Psappspdlat                   := True
5199 | 5210 | Perf_Integration_Dpkg.Psoldnoentgt := 1.0
5200 | 5211 |
5201 | 5212 | !run_test()
5202 | 5213 |
5203 | 5214 | -- OUTPUTS
5204 | 5215 | Perf_Integration_Dpkg.Psoldnoentgt = -0.5
5205 | 5216 | Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
5206 | 5217 | Perf_Background_Dpkg.Pcholdflags.Hmactive    = False
5207 | 5218 | Perf_Background_Dpkg.Pcholdflags.Hmdecel     = False
5208 | 5219 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn   = False
5209 | 5220 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel   = True
5210 | 5221 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv   = True
5211 | 5222 | Perf_Background_Dpkg.Pcholdflags.Hmdistval   = True
5212 | 5223 | Perf_Background_Dpkg.Pcholdflags.Consider_Hm = False
5213 | 5224 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim     = False
5214 | 5225 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim    = False
5215 | 5226 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel   = False
5216 | 5227 | Perf_Dpkg.Repredict_Hm_Decel                 = False
5217 | 5228 | Perf_Background_Dpkg.Pshmdecel               = False
5218 | 5229 | Perf_Dpkg.Pshmdeleted                        = False
5219 | 5230 | Perf_Background_Dpkg.Psconsider_Hm           = False
5220 | 5231 | Perf_Background_Dpkg.Psappspdlat             = False
5221 | 5232 |
5222 | 5233 | -----------------------------------------------------------------------------------------------------
     |      | » --
5223 | 5234 | TESTID: 28
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5224   5235
5225   5236      The previous non-envelope-limited target speed is set to the current VG MACH speed target
5226   5237      and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
5227   5238      if all of the following are true:
5228   5239        - A VG speed change target is not currently being applied and the flight phase is less than Approach
5229   5240          (here flight phase is Cruise);
5230   5241        - Current flight phase is not cruise or the climb/descent step is active and the aircraft is above crossover alt
                » itude;
5231   5242
5232   5243      REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT.
5233   5244      SUPPORTING REQUIREMENTS : N/A
5234   5245
5235   5246
5236   5247  -- INPUTS
5237   5248
5238   5249  Perf_Background_DPkg.Pshmdecel := False
5239   5250  Perf_Background_Dpkg.Pcoldcasmchi := Cas
5240   5251  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5241   5252  Perf_Background_Dpkg.Pcfltphase := Cruise
5242   5253
5243        #sba prf_bkgnd_pkg.get_bk_Data #1605
       5254 #sba prf_bkgnd_pkg.get_bk_Data #1612
5244   5255  #go
5245   5256  Perf_Background_Dpkg.Psacalt := 25001.0
5246   5257  Perf_Background_Dpkg.Constant_Mach_Seg.Is_Active := False
5247   5258  Perf_Integration_Dpkg.Psoldnoentgt := 1.0
5248   5259  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
5249   5260  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
5250        #delba prf_bkgnd_pkg.get_bk_Data #1605
       5261 #delba prf_bkgnd_pkg.get_bk_Data #1612
5251   5262
5252   5263  !run_test()
5253   5264
5254   5265  -- OUTPUTS
5255   5266  Perf_Integration_Dpkg.Psoldnoentgt = 0.0
5256   5267  Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
5257   5268
5258   5269  ----------------------------------------------------------------------------------------------------
                » --
5259   5270  TESTID: 29
5260   5271
5261   5272      When the flight phase is approach, the descent path reference shall be set to
5262   5273      the guidance descent path reference(Va3pathref).
5263   5274      PERF_SDD_07500_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5264  5275
5265  5276     If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
            » s are on,
5266  5277     the aircraft gross weight shall be set to any one of the following:
5267  5278    - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
            » craft
5268  5279      gross weight and Take Off gross weight being valid
5269  5280    - Aircraft GW from the Performance Weights function,  if the flight phase is other
5270  5281      than takeoff or before, or the aircraft gross weight or the Take Off gross weight
5271  5282      being invalid
5272  5283     The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
5273  5284     PERF_SDD_07501_INT
5274  5285     --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,the flight
            »  phase is
5275  5286     --Approach,then Aircraft GW from the Performance Weights function.
5276  5287
5277  5288     If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are val
            » id,
5278  5289     then the speed target tag shall be set to indicate Mach and the speed target is set the value of mach target.
5279  5290     PERF_SDD_07502_INT
5280  5291     If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is invalid,
5281  5292     then the speed target tag shall be set to indicate CAS and the speed target is set the value of CAS target.
5282  5293     PERF_SDD_07503_INT
5283  5294     --In this tese case, the mach target and the CAS target are valid, the fcu mach selected mode is valid
5284  5295
5285  5296     When the FPA mode active and the target retrieved from IO are valid,
5286  5297     then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
5287  5298     The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
            » retrieved
5288  5299     from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
            » rom ft/min
5289  5300     to ft/sec. The flag indicating the vertical speed mode active is set to True.
5290  5301     PERF_SDD_07504_INT
5291  5302      --In this tese case, the FPA mode active and the target retrieved from IO are valid
5292  5303     The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
5293  5304     PERF_SDD_07505_INT
5294  5305     --In this test case, The destination QNH data is invalid and the destination being defined
5295  5306     If the current itinerary is neither Current Mode Predictions (Normal or High priority)
5296  5307     nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
5297  5308     PERF_SDD_07506(PERF_SRD_6192)
5298  5309     --In this teste case, the current itinerary is No_Itinerary, Pcvertmode shall be set to Econ mode
5299  5310     ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
            » e first pass
5300  5311     of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5301 | 5312 |     PERF_SDD_08225_INT
5302 | 5313 |     --In this test case, all the condition are true and FLIGHT PHASE is approach
5303 | 5314 |     During descent or approach with current target speeds from FG are valid, ECON CAS limited by speed constraint othe
      |      | » r than
5304 | 5315 |     speed limit shall be set to current CAS speed if partially limited managed speed target is zero else it is set to
5305 | 5316 |     partially limited managed speed target.
5306 | 5317 |     PERF_SDD_07540
5307 | 5318 |     --In this test case, During approach the partially limited managed speed target is not zero
5308 | 5319 |     During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i
      |      | » n descent
5309 | 5320 |     then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
5310 | 5321 |     PERF_SDD_08227_INT
5311 | 5322 |    --In this test case, During approach speed limit is true but ICAO limit is false
5312 | 5323 |     If current target speeds from FG are valid, then the speed change target restriction record from VG is copied to P
      |      | » erf and
5313 | 5324 |     the speed change apply flag shall be set if the aircraft is in the deceleration zone to HM.
5314 | 5325 |     PERF_SDD_07542_INT
5315 | 5326 |     --In this tese case, current target speeds from FG are valid and the aircraft is not in the deceleration zone
5316 | 5327 |     If current target speeds from FG are valid, then the speed change Ident from VG speed change target restriction re
      |      | » cord shall
5317 | 5328 |     be saved to the global Speed Change Ident.
5318 | 5329 |     PERF_SDD_08171_INT
5319 | 5330 |
5320 | 5331 |     Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
5321 | 5332 |     are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
      |      | » d to FL250.
5322 | 5333 |     PERF_SDD_07543_INT
5323 | 5334 |     --In this test case, VG speed targets are all valid and greater than lower limits
5324 | 5335 |     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07500_INT, PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT,
5325 | 5336 |                                     PERF_SDD_07504_INT, PERF_SDD_07505_INT, PERF_SDD_07506(PERF_SRD_6192), PERF_SDD_08
      |      | » 225_INT,
5326 | 5337 |                                     PERF_SDD_07540, PERF_SDD_08227_INT, PERF_SDD_07542_INT, PERF_SDD_07543_INT,
5327 | 5338 |                                     PERF_SDD_08171_INT
5328 | 5339 |     SUPPORTING REQUIREMENTS : N/A
5329 | 5340 |
5330 | 5341 |
5331 | 5342 | --INPUTS
5332 | 5343 | CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
5333 | 5344 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
5334 | 5345 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
5335 | 5346 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data  := True
5336 | 5347 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
5337 | 5348 | Perf_Dpkg.Min_Gwt := 100.0
5338 | 5349 | Perf_Dpkg.Max_Gwt := 400.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5339   5350  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
5340   5351  Perf_Background_Dpkg.Ats_Enable := True
5341   5352  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Approach
5342   5353  Perf_Database_Dpkg.Psmmo := 0.45
5343   5354  Perf_Background_Dpkg.Pszfw := 300.0
5344   5355  Perf_Background_Dpkg.Psblockfuel := 50.0
5345   5356  Perf_Background_Dpkg.Pstaxifuel := 25.0
5346   5357  Perf_Background_Dpkg.Psairborne := False
5347   5358  Perf_Background_Dpkg.Psautolat := True
5348   5359
5349   5360  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
5350   5361  Perf_Background_Dpkg.Psengout := True
5351   5362  Cdk_Vert_Dpkg:Body.Engine_Out_I := False
5352   5363  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
5353   5364  Perf_Dpkg.Repredict_Hm_Decel := True
5354   5365  Perf_Background_DPkg.Pshmdecel := True
5355   5366  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
5356   5367  Perf_Ads_Dpkg.Fi_Enabled := False
5357   5368  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
5358   5369  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
5359   5370  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
5360   5371  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
5361   5372  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
5362   5373  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
5363   5374  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
5364   5375  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim := True
5365   5376  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim := False
5366   5377  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
5367   5378  Perf_Background_Dpkg.Psappspdlat := True
5368   5379  Perf_Dpkg.Pcengoutprds := Altpln
5369   5380
5370   5381  Perf_Background_DPkg.Pscurcas := 5.0
5371   5382  Perf_Background_DPkg.Pscurmach := 5.0
5372   5383  Perf_Background_DPkg.Pscurtas := 5.0
5373   5384  Perf_Background_Dpkg.Pcitin.Itinerary := No_Itinerary
5374   5385  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
5375   5386  Perf_Background_Dpkg.Pstogwtval := True
5376   5387  Perf_Background_Dpkg.Pstogwt := 50.0
5377   5388  Perf_Background_Dpkg.Pcgwind := valid
5378   5389  Perf_Background_Dpkg.Psgw := 0.0
5379   5390  Perf_Dpkg.Gross_Weight.Status := Valid
5380   5391  Perf_Dpkg.Gross_Weight.Data := 150.0
5381   5392  Perf_Integration_DPkg.Pcairbrakes := Fullab
5382   5393  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5383    5394  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5384    5395  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
5385    5396  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
5386    5397  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
5387    5398  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
5388    5399  Perf_Background_Dpkg.Psstpclbact := True
5389    5400  Perf_Background_Dpkg.Psstpdesact := True
5390    5401  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
5391    5402  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
5392    5403  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.011
5393    5404  Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid := True
5394    5405  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 10.01
5395    5406  Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid := True
5396    5407  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
5397    5408  Perf_Background_Dpkg.Pcprebcalt.Valid := True
5398    5409  Perf_Background_Dpkg.Pcgmttime.Hour := 2
5399    5410  Perf_Background_Dpkg.Pcgmttime.Minute := 2
5400    5411  Perf_Background_Dpkg.Pcgmttime.Second := 2
5401    5412  Perf_Background_Dpkg.Psinertvs := 5.0
5402    5413  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
5403    5414  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
5404    5415  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
5405    5416  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
5406    5417  Perf_Ads_Dpkg.Pr_Enabled := False
5407    5418  ATC_DISCRETES_PKG:body.Adson_Flag := False
5408    5419  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
5409    5420  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
5410    5421  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
5411    5422  ^Noise_Speed_Val := True
5412    5423  ^Noise_TSPD.valid := True
5413    5424  ^Noise_TSPD.Data  := 150.0
5414    5425  ^Noise_End_Alt    := 300.0
5415    5426  ^Noise_Speed      := 250.0
5416    5427  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
5417    5428  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
5418    5429  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
5419    5430  Perf_Background_Dpkg.Psorgalt := 36080.0
5420    5431  Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
5421    5432  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
5422    5433  Perf_Background_Dpkg.Noise_Data.Speed.Data := 0.0
5423    5434  Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
5424    5435  Perf_Background_Dpkg.Noise_Data.Tspd.Data  := 0.0
5425    5436  Perf_Background_Dpkg.Noise_Data.Tspd.Valid := False
5426    5437
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5427 | 5438 | Perf_Background_Dpkg.Psacalt := 50.0
5428 | 5439 | Perf_Background_Dpkg.Psacaltv:= True
5429 | 5440 | Perf_Background_Dpkg.Pstruetrkv := True
5430 | 5441 | Perf_Background_Dpkg.Psvgrnd          := 1.0
5431 | 5442 | Perf_Background_Dpkg.Psvgrndval       := True
5432 | 5443 | Perf_Background_Dpkg.Pcacposn.Data.Lat := 100.0
5433 | 5444 | Perf_Background_Dpkg.Pcacposn.Data.Lon := 100.0
5434 | 5445 | Perf_Background_Dpkg.Pcacposn.Valid   := false
5435 | 5446 | Perf_Background_Dpkg.Pstruetrack      := 0.2
5436 | 5447 | Perf_Background_Dpkg.Pswindbrg        := 150.0
5437 | 5448 | Perf_Background_Dpkg.Pswindmag        := 130.0
5438 | 5449 | Perf_Background_Dpkg.Pswindval        := false
5439 | 5450 | Fmcs_Partition_Data_Pkg.Ops_Time.Hour   := 1
5440 | 5451 | Fmcs_Partition_Data_Pkg.Ops_Time.Minute  := 1
5441 | 5452 | Fmcs_Partition_Data_Pkg.Ops_Time.Second  := 1
5442 | 5453 | Perf_Dpkg.Psnumengout                 := 1
5443 | 5454 | Perf_Background_Dpkg.Psvgonpath       := true
5444 | 5455 | Perf_Background_Dpkg.Pscrzalt.data    := 10.0
5445 | 5456 | Perf_Background_Dpkg.Pscrzalt.Valid   := false
5446 | 5457 | Perf_Background_Dpkg.Psfinaldes       := false
5447 | 5458 | Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 230.0
5448 | 5459 | Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15000.0
5449 | 5460 | Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Clb_Spd_Lim
5450 | 5461 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident     := "ABCD   "
5451 | 5462 | Perf_Background_Dpkg.Pcactorsec                     := Active
5452 | 5463 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply  := False
5453 | 5464 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Ident  := "1234567"
5454 | 5465 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.CAS    := 120.0
5455 | 5466 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.REASON := Returntoecon
5456 | 5467 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.AIRBRAKE := false
5457 | 5468 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.SPARE1  := 1
5458 | 5469 | Perf_Background_Dpkg.Psfirstpass := False
5459 | 5470 | Perf_Background_Dpkg.Psonofrstpas := False
5460 | 5471 | Perf_Background_Dpkg.Psftpbwritok := False
5461 | 5472 | Perf_Background_Dpkg.Pslvlatbcalt := True
5462 | 5473 | Perf_Integration_Dpkg.Pslvlblwpth := True
5463 | 5474 | Perf_Background_Dpkg.Psfi_Possble := True
5464 | 5475 | Perf_Background_Dpkg.On_Icao_Leg_Decel := True
5465 | 5476 | Perf_Background_Dpkg.Psignorehm := True
5466 | 5477 | Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
5467 | 5478 | Perf_Background_Dpkg.Adc_Fg_Valid  := False
5468 | 5479 | Perf_Background_Dpkg.Psenginesoff := True
5469 | 5480 | Perf_Dpkg.Pcdelspdrec.Predicted    := True
5470 | 5481 | Perf_Background_Dpkg.Pcoldeconcas.Valid := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5471  5482  Prf_Bkgnd_Pkg:body.Fgspdsvalid            := True
5472  5483
5473  5484  Perf_Dpkg.takeoff_gwt.valid := True
5474  5485  #Perf_Dpkg.takeoff_gwt.data := 400.0
5475  5486
5476  5487  Perf_Background_Dpkg.Pcfltphase := Approach
5477  5488  Perf_Dpkg.Pcfirstpred(Active)      := True
5478  5489  Perf_Background_Dpkg.Pcspeedmode  := Perf_Ext_Tpkg.Vmspd
5479  5490  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
5480  5491  Perf_Background_Dpkg.Pcspdtgttag := Cas
5481  5492  Perf_Background_Dpkg.Psspdtarget := 0.0
5482  5493  Perf_Background_Dpkg.Psfpatgt     := 0.0
5483  5494  Perf_Background_Dpkg.Psfpaact     := False
5484  5495  Guid_Spds_Dpkg.Vc3prtlimcas                      := 1.0
5485  5496  Perf_Background_Dpkg.Psrtrntocas                  := 0.0
5486  5497  Perf_Background_Dpkg.Pcpredcount(Active)          := 2
5487  5498  Perf_Dpkg.Psfrstactprd                            := False
5488  5499  Perf_Background_Dpkg.Pcspdchgtgt.Apply            := True
5489  5500  Perf_Background_Dpkg.Psdestqnh.Valid  := False
5490  5501  Perf_Background_Dpkg.Pcdestglidx       := 1
5491  5502  Perf_Background_Dpkg.Pcvertmode        := Perf_Int_Base_Tpkg.Openclb
5492  5503  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
5493  5504  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := false
5494  5505  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
5495  5506  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
5496  5507  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas:= 200.0
5497  5508  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := True
5498  5509  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected  :=
            »  True
5499  5510  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target     := 1.0
5500  5511  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target := True
5501  5512  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target    := 0.0
5502  5513  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target  := True
5503  5514  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3  := True
5504  5515  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            »  := True
5505  5516  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target  := True
5506  5517  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target       := 57.3066
5507  5518  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas                         := True
5508  5519  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1 := True
5509  5520  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2 := True
5510  5521  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side1 := 150.0
5511  5522  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side2 := 151.0
5512  5523  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5513	5524	`Guid_Spds_Dpkg.Vc3curspds.Fltphase := Approach`
5514	5525	
5515	5526	`-- Reset Output`
5516	5527	`Perf_Background_Dpkg.Speed_Annunciation.Cas          := 0.0`
5517	5528	`Perf_Background_Dpkg.Speed_Annunciation.Alt          := 0.0`
5518	5529	`Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type  := Vg_Ext_Tpkg.Invalid`
5519	5530	`Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident    := "        "`
5520	5531	`Perf_Background_Dpkg.Flex_Isadev.Data := 5.0`
5521	5532	`#define Puxoveralt_Exec := False`
5522	5533	`Perf_Integration_Dpkg.Pcspdchgident := "7654321"`
5523	5534	`Guid_Ext_Dpkg.Gcxxlatautoc := True`
5524	5535	`Perf_Background_Dpkg.Pslimited := false`
5525	5536	`Perf_Background_Dpkg.Pcpathref := Onpath`
5526	5537	`Perf_Background_Dpkg.Pcspdchgtgt.Apply  := true`
5527	5538	`Perf_Background_Dpkg.Pcspdchgtgt.Ident  := "1111111"`
5528	5539	`Perf_Background_Dpkg.Pcspdchgtgt.CAS    := 0.0`
5529	5540	`Perf_Background_Dpkg.Pcspdchgtgt.REASON := Icaolimited`
5530	5541	`Perf_Background_Dpkg.Pcspdchgtgt.AIRBRAKE := true`
5531	5542	`Perf_Background_Dpkg.Pcspdchgtgt.SPARE1  := 0`
5532	5543	`Perf_Background_Dpkg.Psdestqnh.Data   := 0.0`
5533	5544	`Perf_Background_Dpkg.Psvsact := false`
5534	5545	`Perf_Background_Dpkg.Psfpaact := false`
5535	5546	
5536	5547	`#sba prf_bkgnd_pkg.get_bk_Data after_elaboration`
5537	5548	`#go`
5538	5549	`Computoldtgt := True`
5539	5550	`Curspdsval := False`
5540	5551	`#sba Prf_External_Util_Pkg.Puxoveralt after_elab begin`
5541	5552	`#define Puxoveralt_Exec := True`
5542	5553	`#go`
5543	5554	`#end`
5544	5555	`--this breakpiont is set to verify the GWT of PERF_SDD_07501_INT`
5545		`#sba prf_bkgnd_pkg.get_bk_Data #889`
	5556	`#sba prf_bkgnd_pkg.get_bk_Data #896`
5546	5557	`#go`
5547	5558	`Perf_Background_Dpkg.Psgw = 150.0`
5548	5559	`--this breakpiont is set to verify PERF_SDD_07502_INT`
5549		`#sba prf_bkgnd_pkg.get_bk_Data #914`
	5560	`#sba prf_bkgnd_pkg.get_bk_Data #921`
5550	5561	`#go`
5551	5562	`Perf_Background_Dpkg.Pcspdtgttag = Fmcs_Base_Types.Mach`
5552	5563	`Perf_Background_Dpkg.Psspdtarget = 1.0`
5553		`#delba prf_bkgnd_pkg.get_bk_Data #914`
	5564	`#delba prf_bkgnd_pkg.get_bk_Data #921`

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5554	5565	--this breakpiont is set to verify PERF_SDD_07503_INT
5555		#sba prf_bkgnd_pkg.get_bk_Data #938
	5566	#sba prf_bkgnd_pkg.get_bk_Data #945
5556	5567	#go
5557	5568	Perf_Background_Dpkg.Pcspdtgttag /= Fmcs_Base_Types.Cas
5558	5569	Perf_Background_Dpkg.Psspdtarget = 1.0
5559		#delba prf_bkgnd_pkg.get_bk_Data #938
	5570	#delba prf_bkgnd_pkg.get_bk_Data #945
5560	5571	--this breakpiont is set to verify PERF_SDD_07542_INT
5561		#sba prf_bkgnd_pkg.get_bk_Data #1198
	5572	#sba prf_bkgnd_pkg.get_bk_Data #1205
5562	5573	#go
5563	5574	
5564	5575	Perf_Background_Dpkg.Pcspdchgtgt.Apply = false
5565	5576	Perf_Background_Dpkg.Pshmdecel = False
5566		#delba prf_bkgnd_pkg.get_bk_Data #1198
	5577	#delba prf_bkgnd_pkg.get_bk_Data #1205
5567	5578	
5568	5579	
5569	5580	!run_test()
5570	5581	
5571	5582	-- OUTPUTS
5572	5583	Perf_Background_Dpkg.Psgw = 150.0
5573	5584	Perf_Background_Dpkg.Psdestqnh.Data = 1013.0
5574	5585	Perf_Background_Dpkg.Pcvertmode = Perf_Int_Base_Tpkg.Econo
5575	5586	Puxoveralt_Exec =True
5576	5587	Perf_Background_Dpkg.Pcspdchgtgt.Apply = False
5577	5588	Perf_Background_Dpkg.Pcpathref = INVALIDPATH
5578	5589	Perf_Background_Dpkg.Psgw = 150.0
5579	5590	Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
5580	5591	Perf_Background_Dpkg.Psfpatgt = 1.0
5581	5592	Perf_Background_Dpkg.Psfpaact = True
5582	5593	Perf_Background_Dpkg.Psvsact /= True
5583	5594	Perf_Background_Dpkg.Pcfltphase = Approach
5584	5595	Perf_Background_Dpkg.Psautolat = True
5585	5596	Perf_Background_Dpkg.Psappspdlat = True
5586	5597	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = True
5587	5598	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = False
5588	5599	Perf_Background_Dpkg.Psrtrntocas = 1.0
5589	5600	Perf_Background_Dpkg.Pslimited = True
5590	5601	Perf_Background_Dpkg.Pcspdchgtgt.Apply /= true
5591	5602	Perf_Background_Dpkg.Pcspdchgtgt.Ident = "1234567"
5592	5603	Perf_Background_Dpkg.Pcspdchgtgt.CAS = 120.0
5593	5604	Perf_Background_Dpkg.Pcspdchgtgt.REASON = Returntoecon

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5594    5605  Perf_Background_Dpkg.Pcspdchgtgt.AIRBRAKE = false
5595    5606  Perf_Background_Dpkg.Pcspdchgtgt.SPARE1  = 1
5596    5607  Perf_Integration_Dpkg.Pcspdchgident = "1234567"
5597    5608
5598    5609  ----------------------------------------------------------------------------------------------------
              » --
5599    5610  TESTID: 30
5600    5611     If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
              » s are on,
5601    5612     the aircraft gross weight shall be set to any one of the following:
5602    5613   - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
              » craft
5603    5614      gross weight and Take Off gross weight being valid
5604    5615   - Aircraft GW from the Performance Weights function,  if the flight phase is other
5605    5616      than takeoff or before, or the aircraft gross weight or the Take Off gross weight
5606    5617      being invalid
5607    5618     The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
5608    5619     PERF_SDD_07501_INT
5609    5620     --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar
              » e off,
5610    5621     --the flight phase is Takeoff,the aircraft gross weight and Take Off gross weight being valid, then Aircraft Takeo
              » ff GW
5611    5622     --from the Performance Weights function
5612    5623
5613    5624     If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are val
              » id,
5614    5625     then the speed target tag and the speed target are not set.
5615    5626     PERF_SDD_07502_INT
5616    5627     If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is valid,
5617    5628     then the speed target tag and the speed target are not set.
5618    5629     PERF_SDD_07503_INT
5619    5630     --In this tese case, the mach target and the CAS target are valid, but the fcu mach selected mode is invalid
5620    5631     When the FPA mode active and the target retrieved from IO are valid,
5621    5632     then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
5622    5633     The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
              »  retrieved
5623    5634     from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
              » rom ft/min
5624    5635     to ft/sec. The flag indicating the vertical speed mode active is set to True.
5625    5636     PERF_SDD_07504_INT
5626    5637     --In this test case, the target retrieved from IO are valid but the FPA mode active is not valid(Fpa_Mode_Active.D
              » ata= false),
5627    5638     -- the Vertical Speed mode active and the target retrieved from IO are valid
5628    5639     The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5629	5640	PERF_SDD_07505_INT
5630	5641	--In this test case, the destination is being defined but the destination QNH data is valid
5631	5642	If the current itinerary is neither Current Mode Predictions (Normal or High priority)
5632	5643	nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
5633	5644	PERF_SDD_07506(PERF_SRD_6192)
5634	5645	--In this test case,the current itinerary is Current_Mode_Hi_Pri.
5635	5646	ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is t
		» he first pass
5636	5647	of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
5637	5648	PERF_SDD_08225_INT
5638	5649	--In this test case, only the Flifht phase is Take off, the other are satisfied
5639	5650	REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT, PERF_SDD_07504_INT,
5640	5651	PERF_SDD_07505_INT, PERF_SDD_07506(PERF_SRD_6192),PERF_SDD_08225_INT
5641	5652	SUPPORTING REQUIREMENTS : N/A
5642	5653	
5643	5654	
5644	5655	--INPUTS
5645	5656	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
5646	5657	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
5647	5658	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data := True
5648	5659	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
5649	5660	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
5650	5661	Perf_Dpkg.Min_Gwt := 100.0
5651	5662	Perf_Dpkg.Max_Gwt := 400.0
5652	5663	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
5653	5664	Perf_Background_Dpkg.Ats_Enable := True
5654	5665	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Takeoff
5655	5666	Perf_Database_Dpkg.Psmmo := 0.45
5656	5667	Perf_Background_Dpkg.Pszfw := 300.0
5657	5668	Perf_Background_Dpkg.Psblockfuel := 50.0
5658	5669	Perf_Background_Dpkg.Pstaxifuel := 25.0
5659	5670	Perf_Background_Dpkg.Psairborne := False
5660	5671	Perf_Background_Dpkg.Psautolat := True
5661	5672	Guid_Ext_Dpkg.Gcxxlatautoc := False
5662	5673	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
5663	5674	Perf_Background_Dpkg.Psengout := True
5664	5675	Cdk_Vert_Dpkg:Body.Engine_Out_I := False
5665	5676	Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
5666	5677	Perf_Dpkg.Repredict_Hm_Decel := True
5667	5678	Perf_Background_DPkg.Pshmdecel := True
5668	5679	Perf_Background_Dpkg.Pcholdflags.Hmactive := True
5669	5680	Perf_Ads_Dpkg.Fi_Enabled := False
5670	5681	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
5671	5682	Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5672 | 5683 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
5673 | 5684 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
5674 | 5685 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
5675 | 5686 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
5676 | 5687 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
5677 | 5688 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
5678 | 5689 | Perf_Background_Dpkg.Psappspdlat := True
5679 | 5690 | Perf_Dpkg.Pcengoutprds := Altpln
5680 | 5691 | Perf_Background_Dpkg.Pcpathref := Onpath
5681 | 5692 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
5682 | 5693 | Perf_Background_DPkg.Pscurcas := 5.0
5683 | 5694 | Perf_Background_DPkg.Pscurmach := 5.0
5684 | 5695 | Perf_Background_DPkg.Pscurtas := 5.0
5685 | 5696 | Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Hi_Pri
5686 | 5697 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
5687 | 5698 | Perf_Background_Dpkg.Pstogwtval := True
5688 | 5699 | Perf_Background_Dpkg.Pstogwt := 50.0
5689 | 5700 | Perf_Background_Dpkg.Pcgwind := valid
5690 | 5701 | Perf_Background_Dpkg.Psgw := 0.0
5691 | 5702 | Perf_Dpkg.Gross_Weight.Status := valid
5692 | 5703 | Perf_Dpkg.Gross_Weight.Data := 150.0
5693 | 5704 | Perf_Integration_DPkg.Pcairbrakes := Fullab
5694 | 5705 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
5695 | 5706 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5696 | 5707 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
5697 | 5708 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
5698 | 5709 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
5699 | 5710 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
5700 | 5711 | Perf_Background_Dpkg.Psstpclbact := True
5701 | 5712 | Perf_Background_Dpkg.Psstpdesact := True
5702 | 5713 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
5703 | 5714 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
5704 | 5715 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
5705 | 5716 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
5706 | 5717 | Perf_Background_Dpkg.Pccuraltcstr.Valid := True
5707 | 5718 | Perf_Background_Dpkg.Pcprebcalt.Valid := True
5708 | 5719 | Perf_Background_Dpkg.Pcgmttime.Hour := 2
5709 | 5720 | Perf_Background_Dpkg.Pcgmttime.Minute := 2
5710 | 5721 | Perf_Background_Dpkg.Pcgmttime.Second := 2
5711 | 5722 | Perf_Background_Dpkg.Psinertvs := 5.0
5712 | 5723 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
5713 | 5724 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
5714 | 5725 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
5715 | 5726 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5716    5727  Perf_Ads_Dpkg.Pr_Enabled := False
5717    5728  ATC_DISCRETES_PKG:body.Adson_Flag := False
5718    5729  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
5719    5730  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
5720    5731  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
5721    5732  ^Noise_Speed_Val := True
5722    5733  ^Noise_TSPD.valid := True
5723    5734  ^Noise_TSPD.Data   := 150.0
5724    5735  ^Noise_End_Alt     := 300.0
5725    5736  ^Noise_Speed       := 250.0
5726    5737  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
5727    5738  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
5728    5739  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
5729    5740  Perf_Background_Dpkg.Psorgalt := 36080.0
5730    5741  Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
5731    5742  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
5732    5743  Perf_Background_Dpkg.Noise_Data.Speed.Data := 0.0
5733    5744  Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
5734    5745  Perf_Background_Dpkg.Noise_Data.Tspd.Data  := 0.0
5735    5746  Perf_Background_Dpkg.Noise_Data.Tspd.Valid := False
5736    5747
5737    5748  Perf_Background_Dpkg.Psacalt := 50.0
5738    5749  Perf_Background_Dpkg.Psacaltv:= True
5739    5750  Perf_Background_Dpkg.Pstruetrkv := True
5740    5751  Perf_Background_Dpkg.Psvgrnd            := 1.0
5741    5752  Perf_Background_Dpkg.Psvgrndval         := True
5742    5753  Perf_Background_Dpkg.Pcacposn.Data.Lat := 100.0
5743    5754  Perf_Background_Dpkg.Pcacposn.Data.Lon := 100.0
5744    5755  Perf_Background_Dpkg.Pcacposn.Valid    := false
5745    5756  Perf_Background_Dpkg.Pstruetrack       := 0.2
5746    5757  Perf_Background_Dpkg.Pswindbrg         := 150.0
5747    5758  Perf_Background_Dpkg.Pswindmag         := 130.0
5748    5759  Perf_Background_Dpkg.Pswindval         := false
5749    5760  Fmcs_Partition_Data_Pkg.Ops_Time.Hour   := 1
5750    5761  Fmcs_Partition_Data_Pkg.Ops_Time.Minute := 1
5751    5762  Fmcs_Partition_Data_Pkg.Ops_Time.Second := 1
5752    5763  Perf_Dpkg.Psnumengout                  := 1
5753    5764  Perf_Background_Dpkg.Psvgonpath        := true
5754    5765  Perf_Background_Dpkg.Pscrzalt.data     := 10.0
5755    5766  Perf_Background_Dpkg.Pscrzalt.Valid    := false
5756    5767  Perf_Background_Dpkg.Psfinaldes        := false
5757    5768  Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 230.0
5758    5769  Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15000.0
5759    5770  Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Clb_Spd_Lim
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5760 | 5771 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident        := "ABCD    "
5761 | 5772 | Perf_Background_Dpkg.Pcactorsec                         := Active
5762 | 5773 | Perf_Dpkg.Pcfirstpred(Active)    := true
5763 | 5774 | Perf_Background_Dpkg.Psenginesoff := True
5764 | 5775 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.011
5765 | 5776 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid := True
5766 | 5777 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 10.01
5767 | 5778 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid := True
5768 | 5779 | Perf_Background_Dpkg.Psfirstpass := False
5769 | 5780 | Perf_Background_Dpkg.Psonofrstpas := False
5770 | 5781 | Perf_Background_Dpkg.Psftpbwritok := False
5771 | 5782 | Perf_Background_Dpkg.Pslvlatbcalt := True
5772 | 5783 | Perf_Integration_Dpkg.Pslvlblwpth := True
5773 | 5784 | Perf_Background_Dpkg.Psfi_Possble := True
5774 | 5785 | Perf_Background_Dpkg.On_Icao_Leg_Decel := True
5775 | 5786 | Perf_Background_Dpkg.Psignorehm := True
5776 | 5787 | Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
5777 | 5788 | Perf_Background_Dpkg.Adc_Fg_Valid  := False
5778 | 5789 | Perf_Dpkg.Pcdelspdrec.Predicted    := True
5779 | 5790 | Perf_Background_Dpkg.Pcoldeconcas.Valid := True
5780 | 5791 | Perf_Dpkg.takeoff_gwt.valid := true
5781 | 5792 | #Perf_Dpkg.takeoff_gwt.data := 410.0
5782 | 5793 | Perf_Background_Dpkg.Pcspdtgttag := Cas
5783 | 5794 | Perf_Background_Dpkg.Psspdtarget := 0.0
5784 | 5795 | Perf_Background_Dpkg.Psfpatgt    := 0.0
5785 | 5796 | Perf_Background_Dpkg.Psfpaact     := False
5786 | 5797 | Perf_Integration_Dpkg.Psvstgt    := 0.0
5787 | 5798 | Perf_Background_Dpkg.Psvsact      := False
5788 | 5799 | Perf_Background_Dpkg.Psdestqnh.Valid  := True
5789 | 5800 | Perf_Background_Dpkg.Pcdestglidx       := 1
5790 | 5801 | Perf_Background_Dpkg.Psdestqnh.Data    := 0.0
5791 | 5802 | Perf_Background_Dpkg.Pcvertmode        := Perf_Int_Base_Tpkg.Openclb
5792 | 5803 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := true
5793 | 5804 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
       |      | »  False
5794 | 5805 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target    := 1.0
5795 | 5806 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target  := True
5796 | 5807 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target  := 1.0
5797 | 5808 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target    := True
5798 | 5809 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3           := True
5799 | 5810 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
       |      | »  := False
5800 | 5811 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target    := True
5801 | 5812 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target        := 49.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5802	5813	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active :=
		» True
5803	5814	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target := True
5804	5815	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target := 60.0
5805	5816	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
5806	5817	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach := true
5807	5818	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas := True
5808	5819	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas := True
5809	5820	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
5810	5821	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
5811	5822	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 60.0
5812	5823	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 0.5
5813	5824	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas := 49.0
5814	5825	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
5815	5826	CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt :=25001.1
5816	5827	Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt := 25001.0
5817	5828	Guid_Spds_Dpkg.Vc3curspds.Fltphase := Takeoff
5818	5829	
5819	5830	-- Reset Output
5820	5831	Perf_Background_Dpkg.Speed_Annunciation.Cas := 0.0
5821	5832	Perf_Background_Dpkg.Speed_Annunciation.Alt := 0.0
5822	5833	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type := Vg_Ext_Tpkg.Invalid
5823	5834	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident := " "
5824	5835	Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
5825	5836	Perf_Background_Dpkg.Psvsact := True
5826	5837	Perf_Background_Dpkg.Psfpaact := True
5827	5838	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmnone
5828	5839	Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 0.0
5829	5840	
5830	5841	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
5831	5842	# go
5832	5843	Computoldtgt := True
5833	5844	Curspdsval := False
5834	5845	#DELB/ALL
5835	5846	--this breakpiont is set to verify the GWT of PERF_SDD_07501_INT
5836		#sba prf_bkgnd_pkg.get_bk_Data #889
	5847	#sba prf_bkgnd_pkg.get_bk_Data #896
5837	5848	#go
5838	5849	Perf_Background_Dpkg.Psgw = 410.0
5839		#delba prf_bkgnd_pkg.get_bk_Data #889
	5850	#delba prf_bkgnd_pkg.get_bk_Data #896
5840	5851	--this breakpiont is set to verify PERF_SDD_07502_INT
5841		#sba prf_bkgnd_pkg.get_bk_Data #914
	5852	#sba prf_bkgnd_pkg.get_bk_Data #921

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

5842	5853	#go
5843	5854	Perf_Background_Dpkg.Pcspdtgttag /= Fmcs_Base_Types.Mach
5844	5855	Perf_Background_Dpkg.Psspdtarget /= 1.0
5845		#delba prf_bkgnd_pkg.get_bk_Data #914
	5856	#delba prf_bkgnd_pkg.get_bk_Data #921
5846	5857	--this breakpiont is set to verify PERF_SDD_07503_INT
5847		#sba prf_bkgnd_pkg.get_bk_Data #938
	5858	#sba prf_bkgnd_pkg.get_bk_Data #945
5848	5859	#go
5849	5860	Perf_Background_Dpkg.Pcspdtgttag = Cas
5850	5861	Perf_Background_Dpkg.Psspdtarget = 1.0
5851	5862	!run_test()
5852	5863	
5853	5864	-- OUTPUTS
5854	5865	Perf_Background_Dpkg.Psdestqnh.Data /= 1013.0
5855	5866	Perf_Background_Dpkg.Pcvertmode /= Perf_Int_Base_Tpkg.Econo
5856	5867	Perf_Background_Dpkg.Psgw = 400.0
5857	5868	Perf_Background_Dpkg.Psfpaact /= True
5858	5869	Perf_Background_Dpkg.Psvsact = True
5859	5870	Perf_Background_Dpkg.Psfpatgt /= 0.86
5860	5871	Perf_Integration_Dpkg.Psvstgt = 1.0
5861	5872	Perf_Background_Dpkg.Pcspeedmode /= Perf_Ext_Tpkg.Vmecon
5862	5873	--» --
5863	5874	TESTID: 31
5864	5875	
5865	5876	When the flight phase is Descent, the descent path reference shall be set to
5866	5877	the guidance descent path reference(Va3pathref).
5867	5878	PERF_SDD_07500_INT
5868	5879	
5869	5880	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine» s are on,
5870	5881	the aircraft gross weight shall be set to any one of the following:
5871	5882	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air» craft
5872	5883	gross weight and Take Off gross weight being valid
5873	5884	- Aircraft GW from the Performance Weights function, if the flight phase is other
5874	5885	than takeoff or before, or the aircraft gross weight or the Take Off gross weight
5875	5886	being invalid
5876	5887	The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
5877	5888	PERF_SDD_07501_INT
5878	5889	--In this test case,the current itinerary is Fuel_Plan_Fpln_Preds,the aircraft gross weight not be set.
5879	5890	
5880	5891	If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are inv

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

		» alid,
5881	5892	then the speed target tag shall not be set to indicate Mach and the speed target is not set the value of mach targ
		» et.
5882	5893	PERF_SDD_07502_INT (Here do robust testing of PERF_SDD_07502_INT)
5883	5894	If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is invalid,
5884	5895	then the speed target tag shall not be set to indicate CAS and the speed target is not set the value of CAS target
		» .
5885	5896	PERF_SDD_07503_INT (Here do robust testing of PERF_SDD_07503_INT)
5886	5897	--In this test case, the mach target and the CAS target are invalid(negative case)
5887	5898	When the FPA mode active and the target retrieved from IO are valid,
5888	5899	then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
5889	5900	The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target retrieved
		» retrieved
5890	5901	from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
		» rom ft/min
5891	5902	to ft/sec. The flag indicating the vertical speed mode active is set to True.
5892	5903	--In this test case, the Fpa_Mode_Active.Valid and Vspd_Mode_Active.Valid is false
5893	5904	PERF_SDD_07504_INT (Here do robust testing of PERF_SDD_07504_INT)
5894	5905	
5895	5906	ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
		» e first pass
5896	5907	of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
5897	5908	PERF_SDD_08225_INT
5898	5909	--In this test case, all the condition are true and FLIGHT PHASE is descent
5899	5910	During descent or approach with current target speeds from FG are valid, ECON CAS limited by speed constraint othe
		» r than
5900	5911	speed limit shall be set to current CAS speed if partially limited managed speed target is zero else it is set to
5901	5912	partially limited managed speed target.
5902	5913	PERF_SDD_07540
5903	5914	--In this test case, current target speeds from FG are valid, and partially limited managed speed target is zero
5904	5915	During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i
		» n descent
5905	5916	then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
5906	5917	PERF_SDD_08227_INT
5907	5918	--In this test case,current target speeds from FG are valid, speed limit is false, ICAO limit is true
5908	5919	If current target speeds from FG are valid, then the speed change target restriction record from VG is copied to P
		» erf and
5909	5920	the speed change apply flag shall be set if the aircraft is in the deceleration zone to HM.
5910	5921	PERF_SDD_07542_INT
5911	5922	--In this test case, current target speeds from FG are valid, and the aircraft is in the deceleration zone
5912	5923	
5913	5924	REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT, PERF_SDD_07504_INT,
5914	5925	PERF_SDD_07540, PERF_SDD_08227_INT, PERF_SDD_08225_INT
5915	5926	PERF_SDD_07542_INT, PERF_SDD_07500_INT

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5916   5927      SUPPORTING REQUIREMENTS : N/A
5917   5928
5918   5929
5919   5930  --INPUTS
5920   5931  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
5921   5932  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
5922   5933  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
5923   5934  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
5924   5935  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
5925   5936  Perf_Dpkg.Min_Gwt := 100.0
5926   5937  Perf_Dpkg.Max_Gwt := 400.0
5927   5938  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
5928   5939  Perf_Background_Dpkg.Ats_Enable := True
5929   5940  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
5930   5941  Perf_Database_Dpkg.Psmmo := 0.45
5931   5942  Perf_Background_Dpkg.Pszfw := 300.0
5932   5943  Perf_Background_Dpkg.Psblockfuel := 50.0
5933   5944  Perf_Background_Dpkg.Pstaxifuel := 25.0
5934   5945  Perf_Background_Dpkg.Psairborne := False
5935   5946  Perf_Background_Dpkg.Psautolat := True
5936   5947  Guid_Ext_Dpkg.Gcxxlatautoc := False
5937   5948  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
5938   5949  Perf_Background_Dpkg.Psengout := True
5939   5950  Cdk_Vert_Dpkg:Body.Engine_Out_I := False
5940   5951  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
5941   5952  Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Hmdecel := True
5942   5953  Perf_Dpkg.Pshmdeleted := false
5943   5954  Perf_Dpkg.Repredict_Hm_Decel := True
5944   5955  Perf_Background_DPkg.Pshmdecel := True
5945   5956  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
5946   5957  Perf_Ads_Dpkg.Fi_Enabled := False
5947   5958  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
5948   5959  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
5949   5960  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
5950   5961  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
5951   5962  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
5952   5963  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
5953   5964  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
5954   5965  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim := False
5955   5966  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim := True
5956   5967  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
5957   5968  Perf_Background_Dpkg.Psappspdlat := True
5958   5969  Perf_Dpkg.Pcengoutprds := Altpln
5959   5970  Perf_Background_Dpkg.Pcpathref := Onpath
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
5960 | 5971 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
5961 | 5972 | Perf_Background_DPkg.Pscurcas := 5.0
5962 | 5973 | Perf_Background_DPkg.Pscurmach := 5.0
5963 | 5974 | Perf_Background_DPkg.Pscurtas := 5.0
5964 | 5975 | Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Fpln_Preds
5965 | 5976 | Perf_Background_Dpkg.Pcactorsec := Active
5966 | 5977 | Perf_Dpkg.Pcfirstpred(Active)                        := True
5967 | 5978 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
5968 | 5979 | Perf_Background_Dpkg.Pstogwtval := False
5969 | 5980 | Perf_Background_Dpkg.Pstogwt := 50.0
5970 | 5981 | Perf_Background_Dpkg.Pcgwind := Invalid
5971 | 5982 | Perf_Background_Dpkg.Psgw := 0.0
5972 | 5983 | Perf_Dpkg.Gross_Weight.Status := Valid
5973 | 5984 | Perf_Dpkg.Gross_Weight.Data := 150.0
5974 | 5985 | Perf_Integration_DPkg.Pcairbrakes := Fullab
5975 | 5986 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
5976 | 5987 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
5977 | 5988 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
5978 | 5989 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
5979 | 5990 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
5980 | 5991 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
5981 | 5992 | Perf_Background_Dpkg.Psstpclbact := True
5982 | 5993 | Perf_Background_Dpkg.Psstpdesact := True
5983 | 5994 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
5984 | 5995 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
5985 | 5996 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.011
5986 | 5997 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid := True
5987 | 5998 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 10.01
5988 | 5999 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid := False
5989 | 6000 | Perf_Background_Dpkg.Pccuraltcstr.Valid := True
5990 | 6001 | Perf_Background_Dpkg.Pcprebcalt.Valid := True
5991 | 6002 | Perf_Background_Dpkg.Pcgmttime.Hour := 2
5992 | 6003 | Perf_Background_Dpkg.Pcgmttime.Minute := 2
5993 | 6004 | Perf_Background_Dpkg.Pcgmttime.Second := 2
5994 | 6005 | Perf_Background_Dpkg.Psinertvs := 5.0
5995 | 6006 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
5996 | 6007 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
5997 | 6008 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
5998 | 6009 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
5999 | 6010 | Perf_Ads_Dpkg.Pr_Enabled := False
6000 | 6011 | ATC_DISCRETES_PKG:body.Adson_Flag := False
6001 | 6012 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
6002 | 6013 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
6003 | 6014 | ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6004   6015  ^Noise_Speed_Val := True
6005   6016  ^Noise_TSPD.valid := True
6006   6017  ^Noise_TSPD.Data  := 150.0
6007   6018  ^Noise_End_Alt    := 300.0
6008   6019  ^Noise_Speed      := 250.0
6009   6020  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
6010   6021  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
6011   6022  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
6012   6023  Perf_Background_Dpkg.Psorgalt := 36080.0
6013   6024  Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
6014   6025  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
6015   6026  Perf_Background_Dpkg.Noise_Data.Speed.Data := 0.0
6016   6027  Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
6017   6028  Perf_Background_Dpkg.Noise_Data.Tspd.Data  := 0.0
6018   6029  Perf_Background_Dpkg.Noise_Data.Tspd.Valid := False
6019   6030  Perf_Background_Dpkg.Pcfltphase := Takeoff
6020   6031  Perf_Background_Dpkg.Psacalt := 50.0
6021   6032  Perf_Background_Dpkg.Psacaltv:= True
6022   6033  Perf_Background_Dpkg.Pstruetrkv := True
6023   6034  Perf_Background_Dpkg.Psvgrnd            := 1.0
6024   6035  Perf_Background_Dpkg.Psvgrndval         := True
6025   6036  Perf_Background_Dpkg.Pcacposn.Data.Lat := 100.0
6026   6037  Perf_Background_Dpkg.Pcacposn.Data.Lon := 100.0
6027   6038  Perf_Background_Dpkg.Pcacposn.Valid    := false
6028   6039  Perf_Background_Dpkg.Pstruetrack       := 0.2
6029   6040  Perf_Background_Dpkg.Pswindbrg         := 150.0
6030   6041  Perf_Background_Dpkg.Pswindmag         := 130.0
6031   6042  Perf_Background_Dpkg.Pswindval         := false
6032   6043  Fmcs_Partition_Data_Pkg.Ops_Time.Hour   := 1
6033   6044  Fmcs_Partition_Data_Pkg.Ops_Time.Minute := 1
6034   6045  Fmcs_Partition_Data_Pkg.Ops_Time.Second := 1
6035   6046  Perf_Dpkg.Psnumengout                   := 1
6036   6047  Perf_Background_Dpkg.Psvgonpath         := true
6037   6048  Perf_Background_Dpkg.Pscrzalt.data      := 10.0
6038   6049  Perf_Background_Dpkg.Pscrzalt.Valid     := false
6039   6050  Perf_Background_Dpkg.Psfinaldes         := false
6040   6051  Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 230.0
6041   6052  Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15000.0
6042   6053  Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Clb_Spd_Lim
6043   6054  Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident      := "ABCD    "
6044   6055  Perf_Background_Dpkg.Psfirstpass := False
6045   6056  Perf_Background_Dpkg.Psonofrstpas := False
6046   6057  Perf_Background_Dpkg.Psftpbwritok := False
6047   6058  Perf_Background_Dpkg.Psvsact := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6048 | 6059 | Perf_Background_Dpkg.Psfpaact := True
6049 | 6060 | Perf_Background_Dpkg.Pslvlatbcalt := True
6050 | 6061 | Perf_Integration_Dpkg.Pslvlblwpth := True
6051 | 6062 | Perf_Background_Dpkg.Psfi_Possble := True
6052 | 6063 | Perf_Background_Dpkg.On_Icao_Leg_Decel := True
6053 | 6064 | Perf_Background_Dpkg.Psignorehm := True
6054 | 6065 | Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
6055 | 6066 | Perf_Background_Dpkg.Adc_Fg_Valid  := False
6056 | 6067 | Perf_Dpkg.Pcdelspdrec.Predicted   := True
6057 | 6068 | Perf_Background_Dpkg.Pcoldeconcas.Valid := True
6058 | 6069 | Prf_Bkgnd_Pkg:body.Fgspdsvalid           := True
6059 | 6070 | Perf_Dpkg.takeoff_gwt.valid := True
6060 | 6071 | #Perf_Dpkg.takeoff_gwt.data := 400.0
6061 | 6072 | Perf_Background_Dpkg.Psenginesoff := True
6062 | 6073 | Perf_Background_Dpkg.Pcspdtgttag := Cas
6063 | 6074 | Perf_Background_Dpkg.Psspdtarget := 0.0
6064 | 6075 | Perf_Background_Dpkg.Psfpatgt := 0.0
6065 | 6076 | Perf_Background_Dpkg.Psfpaact := False
6066 | 6077 | Perf_Integration_Dpkg.Psvstgt := 0.0
6067 | 6078 | Perf_Background_Dpkg.Psvsact  := False
6068 | 6079 | Guid_Spds_Dpkg.Vc3prtlimcas                      := 0.0
6069 | 6080 | Perf_Background_Dpkg.Psrtrntocas                 := 0.0
6070 | 6081 | Perf_Background_Dpkg.Pcspdchgtgt.Apply        := True
6071 | 6082 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply  := False
6072 | 6083 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Ident  :="1234567"
6073 | 6084 | Perf_Integration_Dpkg.Pcspdchgident             :="7654321"
6074 | 6085 | Perf_Background_Dpkg.Psdestqnh.Valid  := False
6075 | 6086 | Perf_Background_Dpkg.Pcdestglidx      := 0
6076 | 6087 | Perf_Background_Dpkg.Psdestqnh.Data   := 0.0
6077 | 6088 | Perf_Background_Dpkg.Pcvertmode        := Perf_Int_Base_Tpkg.Openclb
6078 | 6089 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
6079 | 6090 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach     := true
6080 | 6091 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas      := true
6081 | 6092 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas      := false
6082 | 6093 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected  :=
        |      » true
6083 | 6094 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target     := False
6084 | 6095 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target   := 1.0
6085 | 6096 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target   := 1.0
6086 | 6097 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target   := False
6087 | 6098 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3               := Fals
        |      » e
6088 | 6099 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
        |      » := true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6089	6100	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target := True
6090	6101	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target := 57.3066
6091	6102	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active := » True
6092	6103	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target := True
6093	6104	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target := 60.0
6094	6105	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := true
6095	6106	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
6096	6107	
6097	6108	-- Reset Output
6098	6109	Perf_Background_Dpkg.Speed_Annunciation.Cas := 0.0
6099	6110	Perf_Background_Dpkg.Speed_Annunciation.Alt := 0.0
6100	6111	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type := Vg_Ext_Tpkg.Invalid
6101	6112	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident := " "
6102	6113	Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
6103	6114	Perf_Background_Dpkg.Pslimited := false
6104	6115	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmnone
6105	6116	Perf_Background_Dpkg.Psrtrntocas :=0.0
6106	6117	
6107	6118	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
6108	6119	# go
6109	6120	Computoldtgt := True
6110	6121	Curspdsval := False
6111	6122	Xoveralt := 0.0
6112	6123	#DELB/ALL
6113	6124	
6114	6125	--this breakpiont is set to verify PERF_SDD_07502_INT
6115		#sba prf_bkgnd_pkg.get_bk_Data #914
	6126	#sba prf_bkgnd_pkg.get_bk_Data #921
6116	6127	#go
6117	6128	Perf_Background_Dpkg.Psgw = 0.0 --(remain as the initlize)
6118	6129	Perf_Background_Dpkg.Pcspdtgttag /= Fmcs_Base_Types.Mach
6119	6130	Perf_Background_Dpkg.Psspdtarget /= 1.0
6120		#delba prf_bkgnd_pkg.get_bk_Data #914
	6131	#delba prf_bkgnd_pkg.get_bk_Data #921
6121	6132	--this breakpiont is set to verify PERF_SDD_07503_INT
6122		#sba prf_bkgnd_pkg.get_bk_Data #938
	6133	#sba prf_bkgnd_pkg.get_bk_Data #945
6123	6134	#go
6124	6135	Perf_Background_Dpkg.Psspdtarget /= 1.0
6125	6136	Perf_Background_Dpkg.Pcspdtgttag = Cas --(remain as the initlize)
6126	6137	--this breakpiont is set to verify PERF_SDD_07542_INT
6127		#sba prf_bkgnd_pkg.get_bk_Data #1198
	6138	#sba prf_bkgnd_pkg.get_bk_Data #1205

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6128	6139	#go
6129	6140	#s/m 6
6130	6141	Perf_Background_Dpkg.Pcspdchgtgt.Apply = False
6131	6142	Perf_Integration_Dpkg.Pcspdchgident = "1234567"
6132	6143	Perf_Background_Dpkg.Pshmdecel = True
6133		#delba prf_bkgnd_pkg.get_bk_Data #1198
	6144	#delba prf_bkgnd_pkg.get_bk_Data #1205
6134	6145	
6135	6146	!run_test()
6136	6147	
6137	6148	-- OUTPUTS
6138	6149	Perf_Background_Dpkg.Pcvertmode = Perf_Int_Base_Tpkg.Econo
6139	6150	Perf_Background_Dpkg.Psfpatgt /= 1.0
6140	6151	Perf_Background_Dpkg.Psfpaact /= True
6141	6152	Perf_Integration_Dpkg.Psvstgt /= 1.0
6142	6153	Perf_Background_Dpkg.Psvsact /= true
6143	6154	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = False
6144	6155	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = True
6145	6156	Perf_Background_Dpkg.Psrtrntocas = 10.01
6146	6157	Perf_Background_Dpkg.Pslimited = True
6147	6158	Perf_Background_Dpkg.Pcspdchgtgt.Apply = True
6148	6159	Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
6149	6160	
6150	6161	--- » --
6151	6162	TESTID: 32
6152	6163	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine » s are on,
6153	6164	the aircraft gross weight shall be set to any one of the following:
6154	6165	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air » craft
6155	6166	gross weight and Take Off gross weight being valid
6156	6167	- Aircraft GW from the Performance Weights function, if the flight phase is other
6157	6168	than takeoff or before, or the aircraft gross weight or the Take Off gross weight
6158	6169	being invalid
6159	6170	The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
6160	6171	PERF_SDD_07501_INT
6161	6172	--In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is Secondary,and eng » ines are off,
6162	6173	
6163	6174	The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
6164	6175	PERF_SDD_07505_INT
6165	6176	--In this test case, The destination QNH data is invalid but the destination not being defined
6166	6177	If the current itinerary is neither Current Mode Predictions (Normal or High priority)

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6167	6178	nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
6168	6179	PERF_SDD_07506(PERF_SRD_6192)
6169	6180	--In this test case,the current itinerary is Current_Mode_Preds
6170	6181	
6171	6182	ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th » e first pass
6172	6183	of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
6173	6184	PERF_SDD_08225_INT
6174	6185	--In this test case, this is the first pass and flight phase is descent but it is not manual speed mode,
6175	6186	During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i » n descent
6176	6187	then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
6177	6188	PERF_SDD_08227_INT
6178	6189	--In this test case, current target speeds from FG is valid During descent, speed limit and ICAO limit are all fal » se
6179	6190	Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
6180	6191	are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte » d to FL250.
6181	6192	PERF_SDD_07543_INT
6182	6193	--in this test case, only Guid_Spds_Dpkg.Vc3Curspds.Cas.Data leaa than the lower limits, the other are satisfied
6183	6194	REQUIREMENTS UNDER EVALUATION : PERF_SDD_07505_INT,PERF_SDD_07506(PERF_SRD_6192), PERF_SDD_08225_INT,PERF_SDD_0822 » 7_INT,
6184	6195	PERF_SDD_07543_INT,PERF_SDD_07501_INT
6185	6196	SUPPORTING REQUIREMENTS : N/A
6186	6197	
6187	6198	
6188	6199	--INPUTS
6189	6200	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
6190	6201	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
6191	6202	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data := True
6192	6203	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data := True
6193	6204	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
6194	6205	Perf_Dpkg.Min_Gwt := 100.0
6195	6206	Perf_Dpkg.Max_Gwt := 400.0
6196	6207	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
6197	6208	Perf_Background_Dpkg.Ats_Enable := True
6198	6209	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
6199	6210	Perf_Database_Dpkg.Psmmo := 0.45
6200	6211	Perf_Background_Dpkg.Pszfw := 300.0
6201	6212	Perf_Background_Dpkg.Psblockfuel := 50.0
6202	6213	Perf_Background_Dpkg.Pstaxifuel := 25.0
6203	6214	Perf_Background_Dpkg.Psairborne := False
6204	6215	Perf_Background_Dpkg.Psautolat := True
6205	6216	Guid_Ext_Dpkg.Gcxxlatautoc := False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6206    6217  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
6207    6218  Perf_Background_Dpkg.Psengout := True
6208    6219  Cdk_Vert_Dpkg:Body.Engine_Out_I := False
6209    6220  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
6210    6221  Perf_Dpkg.Repredict_Hm_Decel := True
6211    6222  Perf_Background_DPkg.Pshmdecel := True
6212    6223  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
6213    6224  Perf_Ads_Dpkg.Fi_Enabled := False
6214    6225  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
6215    6226  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
6216    6227  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
6217    6228  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
6218    6229  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
6219    6230  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
6220    6231  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
6221    6232  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
6222    6233  Perf_Background_Dpkg.Psappspdlat := True
6223    6234  Perf_Dpkg.Pcengoutprds := Altpln
6224    6235  Perf_Background_Dpkg.Pcpathref := Onpath
6225    6236  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmexped
6226    6237  Perf_Background_DPkg.Pscurcas := 5.0
6227    6238  Perf_Background_DPkg.Pscurmach := 5.0
6228    6239  Perf_Background_DPkg.Pscurtas := 5.0
6229    6240  Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Preds
6230    6241  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
6231    6242  Perf_Background_Dpkg.Pstogwtval := False
6232    6243  Perf_Background_Dpkg.Pstogwt := 50.0
6233    6244  Perf_Background_Dpkg.Pcgwind := Invalid
6234    6245  Perf_Background_Dpkg.Psgw := 0.0
6235    6246  Perf_Dpkg.Gross_Weight.Status := Invalid
6236    6247  Perf_Dpkg.Gross_Weight.Data := 150.0
6237    6248  Perf_Integration_DPkg.Pcairbrakes := Fullab
6238    6249  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
6239    6250  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
6240    6251  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
6241    6252  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
6242    6253  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
6243    6254  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
6244    6255  Perf_Background_Dpkg.Psstpclbact := True
6245    6256  Perf_Background_Dpkg.Psstpdesact := True
6246    6257  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
6247    6258  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
6248    6259  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
6249    6260  Perf_Background_Dpkg.Pcprebcalt.Valid := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6250   6261 Perf_Background_Dpkg.Pcgmttime.Hour := 2
6251   6262 Perf_Background_Dpkg.Pcgmttime.Minute := 2
6252   6263 Perf_Background_Dpkg.Pcgmttime.Second := 2
6253   6264 Perf_Background_Dpkg.Psinertvs := 5.0
6254   6265 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
6255   6266 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
6256   6267 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
6257   6268 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
6258   6269 Perf_Ads_Dpkg.Pr_Enabled := False
6259   6270 ATC_DISCRETES_PKG:body.Adson_Flag := False
6260   6271 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
6261   6272 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
6262   6273 ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
6263   6274 ^Noise_Speed_Val := True
6264   6275 ^Noise_TSPD.valid := True
6265   6276 ^Noise_TSPD.Data  := 150.0
6266   6277 ^Noise_End_Alt    := 300.0
6267   6278 ^Noise_Speed      := 250.0
6268   6279 Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start  := True
6269   6280 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := True
6270   6281 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
6271   6282 Perf_Background_Dpkg.Psorgalt := 36080.0
6272   6283 Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
6273   6284 Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
6274   6285 Perf_Background_Dpkg.Noise_Data.Speed.Data := 0.0
6275   6286 Perf_Background_Dpkg.Noise_Data.Speed.Valid := False
6276   6287 Perf_Background_Dpkg.Noise_Data.Tspd.Data  := 0.0
6277   6288 Perf_Background_Dpkg.Noise_Data.Tspd.Valid := False
6278   6289
6279   6290 Perf_Background_Dpkg.Pcfltphase := Takeoff
6280   6291 Perf_Background_Dpkg.Psacalt := 50.0
6281   6292 Perf_Background_Dpkg.Psacaltv:= True
6282   6293 Perf_Background_Dpkg.Pstruetrkv := True
6283   6294 Perf_Background_Dpkg.Psvgrnd            := 1.0
6284   6295 Perf_Background_Dpkg.Psvgrndval         := True
6285   6296 Perf_Background_Dpkg.Pcacposn.Data.Lat := 100.0
6286   6297 Perf_Background_Dpkg.Pcacposn.Data.Lon := 100.0
6287   6298 Perf_Background_Dpkg.Pcacposn.Valid    := false
6288   6299 Perf_Background_Dpkg.Pstruetrack       := 0.2
6289   6300 Perf_Background_Dpkg.Pswindbrg         := 150.0
6290   6301 Perf_Background_Dpkg.Pswindmag         := 130.0
6291   6302 Perf_Background_Dpkg.Pswindval         := false
6292   6303 Fmcs_Partition_Data_Pkg.Ops_Time.Hour    := 1
6293   6304 Fmcs_Partition_Data_Pkg.Ops_Time.Minute  := 1
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6294 | 6305 | Fmcs_Partition_Data_Pkg.Ops_Time.Second  := 1
6295 | 6306 | Perf_Dpkg.Psnumengout                     := 1
6296 | 6307 | Perf_Background_Dpkg.Psvgonpath          := true
6297 | 6308 | Perf_Background_Dpkg.Pscrzalt.data       := 10.0
6298 | 6309 | Perf_Background_Dpkg.Pscrzalt.Valid      := false
6299 | 6310 | Perf_Background_Dpkg.Psfinaldes          := false
6300 | 6311 | Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 230.0
6301 | 6312 | Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15000.0
6302 | 6313 | Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Clb_Spd_Lim
6303 | 6314 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident       := "ABCD    "
6304 | 6315 | Perf_Background_Dpkg.Pcactorsec                        := Secondary
6305 | 6316 | Perf_Dpkg.Pcfirstpred(Secondary)                       := True
6306 | 6317 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.011
6307 | 6318 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid := True
6308 | 6319 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 9.99
6309 | 6320 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid := True
6310 | 6321 | Perf_Background_Dpkg.Psfirstpass := False
6311 | 6322 | Perf_Background_Dpkg.Psonofrstpas := False
6312 | 6323 | Perf_Background_Dpkg.Psftpbwritok := False
6313 | 6324 | Perf_Background_Dpkg.Psvsact := True
6314 | 6325 | Perf_Background_Dpkg.Psfpaact := True
6315 | 6326 | Perf_Background_Dpkg.Pslvlatbcalt := True
6316 | 6327 | Perf_Integration_Dpkg.Pslvlblwpth := True
6317 | 6328 | Perf_Background_Dpkg.Psfi_Possble := True
6318 | 6329 | Perf_Background_Dpkg.On_Icao_Leg_Decel := True
6319 | 6330 | Perf_Background_Dpkg.Psignorehm := True
6320 | 6331 | Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
6321 | 6332 | Perf_Background_Dpkg.Adc_Fg_Valid  := False
6322 | 6333 | Perf_Background_Dpkg.Psenginesoff := True
6323 | 6334 | Perf_Dpkg.Pcdelspdrec.Predicted   := True
6324 | 6335 | Perf_Background_Dpkg.Pcoldeconcas.Valid := True
6325 | 6336 | Prf_Bkgnd_Pkg:body.Fgspdsvalid         := True
6326 | 6337 | Perf_Dpkg.takeoff_gwt.valid := True
6327 | 6338 | #Perf_Dpkg.takeoff_gwt.data := 400.0
6328 | 6339 | Guid_Spds_Dpkg.Vc3prtlimcas                     := 1.0
6329 | 6340 | Perf_Background_Dpkg.Pcpredcount(Active)        := 2
6330 | 6341 | Perf_Dpkg.Psfrstactprd                          := False
6331 | 6342 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply := False
6332 | 6343 | Perf_Background_Dpkg.Psautolat                  := True
6333 | 6344 | Perf_Background_Dpkg.Psappspdlat                := True
6334 | 6345 | Perf_Background_Dpkg.Psdestqnh.Valid  := false
6335 | 6346 | Perf_Background_Dpkg.Pcdestglidx      := 0
6336 | 6347 | Perf_Background_Dpkg.Psdestqnh.Data   := 0.0
6337 | 6348 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6338 | 6349 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3          := True
6339 | 6350 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
      |      | » := true
6340 | 6351 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target          := false
6341 | 6352 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active :=
      |      | » True
6342 | 6353 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target  := false
6343 | 6354 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := false
6344 | 6355 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach       := True
6345 | 6356 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas        := true
6346 | 6357 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas        := true
6347 | 6358 | CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
6348 | 6359 | -- Reset Output
6349 | 6360 | Perf_Background_Dpkg.Speed_Annunciation.Cas           := 0.0
6350 | 6361 | Perf_Background_Dpkg.Speed_Annunciation.Alt           := 0.0
6351 | 6362 | Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type   := Vg_Ext_Tpkg.Invalid
6352 | 6363 | Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident       := "        "
6353 | 6364 | Perf_Background_Dpkg.Flex_Isadev.Data := 5.0
6354 | 6365 | Perf_Background_Dpkg.Pslimited := false
6355 | 6366 | Perf_Background_Dpkg.Pcvertmode        := Perf_Int_Base_Tpkg.Openclb
6356 | 6367 | Perf_Background_Dpkg.Pcspeedmode        := Perf_Ext_Tpkg.Vmecon
6357 | 6368 |
6358 | 6369 | #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
6359 | 6370 | # go
6360 | 6371 | Computoldtgt := True
6361 | 6372 | Curspdsval := False
6362 | 6373 | --this breakpoint is set to verify PERF_SDD_07543_INT
6363 |      | #sba prf_bkgnd_pkg.get_bk_Data #1227
      | 6374 | #sba prf_bkgnd_pkg.get_bk_Data #1234
6364 | 6375 | #go
6365 | 6376 | Curcas  = 0.0
6366 | 6377 | Curmach = 0.0
6367 | 6378 | Xoveralt = 25000.0
6368 |      | #delba prf_bkgnd_pkg.get_bk_Data #1227
      | 6379 | #delba prf_bkgnd_pkg.get_bk_Data #1234
6369 | 6380 |
6370 | 6381 | !run_test()
6371 | 6382 |
6372 | 6383 | -- OUTPUTS
6373 | 6384 | Perf_Background_Dpkg.Pslimited          /= true
6374 | 6385 | Perf_Background_Dpkg.Psdestqnh.Data     /= 1013.0
6375 | 6386 | Perf_Background_Dpkg.Pcvertmode         /= Perf_Int_Base_Tpkg.Econo
6376 | 6387 | Perf_Background_Dpkg.Psgw               = 0.0 --(remain as the initlize)
6377 | 6388 | Perf_Background_Dpkg.Pcspeedmode        /= Perf_Ext_Tpkg.Vmecon
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6378   6389  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim        = False
6379   6390  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim       = False
6380   6391
6381   6392  -------------------------------------------------------------------------------
6382   6393  TESTID: 33
6383   6394
6384   6395      If the current itinerary is one of the following:
6385   6396      - Active Primary Flight Plan Predictions;
6386   6397      - Temporary Primary Flight Plan Predictions;
6387   6398      -Current mode predictions(Normal or High priority);
6388   6399      - Optimum altitude predictions;
6389   6400      then the descent path shall be retrieved from the descent path object
6390   6401      manager via a call to Perf_Ext_Despath.Pgvdespath.
6391   6402
6392   6403      When flight phase is beyond cruise with manual speed mode, then the speed validity shall be set as follows.
6393   6404          If CAS is selected on FCU then Valid flag for MACH speed is set to False.
6394   6405          If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
6395   6406      MACH is selected on FCU and A/C is below crossover altitude in this test case.
6396   6407      PERF_SDD_07545_INT
6397   6408
6398   6409      Retrieval of trip data for the current working flight plan shall be done by calling Sys_Perf_Interface_Dpkg.Pctrip
            » time.
6399   6410      PERF_SDD_07547_INT
6400   6411
6401   6412      ADS enabled flags (Intermediate intent enable and Predicted route enable) shall be repacked to output on FTB1.
6402   6413      PERF_SDD_07548_INT
6403   6414
6404   6415      If the working flight plan is either Is_Active or Copy_From_Active, then ISA temperature deviation shall be comput
            » ed as follows.
6405   6416      ISA temperature deviation = Static air temperature + Zero degrees Celsius in degrees Kelvin - ISA standard tempera
            » ture
6406   6417      at an altitude.
6407   6418      Where,
6408   6419          - ISA standard temperature = Standard atmosphere temperature at sea level *
6409   6420                              (1.0 -  ( ( Temperature lapse rate / Standard atmosphere temperature at sea level )
            »  * MinAlt ) ).
6410   6421          - MinAlt is minimum altitude of the aircraft altitude and TROPOPAUSE altitude.
6411   6422      PERF_SDD_07549(PERF_SRD_9587, PERF_SRD_9656_INT)
6412   6423
6413   6424      REQUIREMENTS UNDER EVALUATION : PERF_SDD_3888_INT, PERF_SDD_07545_INT, PERF_SDD_07547_INT,
6414   6425                              PERF_SDD_07548_INT, PERF_SDD_07549(PERF_SRD_9587, PERF_SRD_9656_INT)
6415   6426      SUPPORTING REQUIREMENTS : N/A
6416   6427
6417   6428
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6418  6429  -- INPUTS
6419  6430
6420  6431  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
6421  6432  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
6422  6433  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
6423  6434  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
6424  6435  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
6425  6436  Perf_Dpkg.Min_Gwt := 100.0
6426  6437  Perf_Dpkg.Max_Gwt := 400.0
6427  6438  Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
6428  6439  Perf_Background_Dpkg.Psignorehm := True
6429  6440  Perf_Background_Dpkg.Pcfltphase := Goaround
6430  6441  Perf_Background_Dpkg.Ats_Enable := True
6431  6442  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Goaround
6432  6443  Perf_Background_Dpkg.Pcactorsec := Active
6433  6444  Perf_Background_Dpkg.Psacalt := 10000.0
6434  6445  Perf_Background_Dpkg.Pstropoalt := 0.0
6435  6446  Perf_Database_Dpkg.Psmmo := 0.45
6436  6447  Perf_Background_Dpkg.Pszfw := 300.0
6437  6448  Perf_Background_Dpkg.Psblockfuel := 50.0
6438  6449  Perf_Background_Dpkg.Pstaxifuel := 25.0
6439  6450  Perf_Background_Dpkg.Psairborne := True
6440  6451  Perf_Background_Dpkg.Psautolat := False
6441  6452  Guid_Ext_Dpkg.Gcxxlatautoc := False
6442  6453  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
6443  6454  Perf_Background_Dpkg.Psengout := False
6444  6455  Cdk_Vert_Dpkg:Body.Engine_Out_I := True
6445  6456  Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
6446  6457  Perf_Dpkg.Repredict_Hm_Decel := True
6447  6458  Perf_Background_DPkg.Pshmdecel := True
6448  6459  Perf_Background_Dpkg.Pcholdflags.Hmactive := True
6449  6460  Perf_Ads_Dpkg.Fi_Enabled := False
6450  6461  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
6451  6462  Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
6452  6463  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
6453  6464  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
6454  6465  Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
6455  6466  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
6456  6467  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
6457  6468  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
6458  6469  Perf_Background_Dpkg.Psappspdlat := True
6459  6470  Perf_Dpkg.Pcengoutprds := Altpln
6460  6471  Perf_Background_Dpkg.Pcpathref := Onpath
6461  6472  Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6462    6473  Perf_Background_DPkg.Pscurcas := 5.0
6463    6474  Perf_Background_DPkg.Pscurmach := 5.0
6464    6475  Perf_Background_DPkg.Pscurtas := 5.0
6465    6476  Perf_Background_Dpkg.Pcitin.Itinerary := Optimum_Altitude
6466    6477  Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
6467    6478  Perf_Background_Dpkg.Pstogwtval := False
6468    6479  Perf_Background_Dpkg.Pstogwt := 50.0
6469    6480  Perf_Background_Dpkg.Pcgwind := Invalid
6470    6481  Perf_Background_Dpkg.Psgw := 0.0
6471    6482  Perf_Dpkg.Gross_Weight.Status := Valid
6472    6483  Perf_Dpkg.Gross_Weight.Data := 150.0
6473    6484  Perf_Integration_DPkg.Pcairbrakes := Fullab
6474    6485  Perf_Background_Dpkg.Pcacconfig := 5
6475    6486  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
6476    6487  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
6477    6488  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
6478    6489  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
6479    6490  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
6480    6491  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
6481    6492  Perf_Background_Dpkg.Psstpclbact := True
6482    6493  Perf_Background_Dpkg.Psstpdesact := True
6483    6494  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
6484    6495  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
6485    6496  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
6486    6497  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
6487    6498  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
6488    6499  Perf_Background_Dpkg.Pcprebcalt.Valid := True
6489    6500  Perf_Background_Dpkg.Pcgmttime.Hour := 1
6490    6501  Perf_Background_Dpkg.Pcgmttime.Minute := 1
6491    6502  Perf_Background_Dpkg.Pcgmttime.Second := 1
6492    6503  Perf_Background_Dpkg.Psinertvs := 5.0
6493    6504  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
6494    6505  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
6495    6506  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
6496    6507  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
6497    6508  Perf_Ads_Dpkg.Pr_Enabled := False
6498    6509  ATC_DISCRETES_PKG:body.Adson_Flag := False
6499    6510  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
6500    6511  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
6501    6512  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
6502    6513  ^Noise_Speed_Val := True
6503    6514  Perf_Background_Dpkg.Trip_Data.FUEL := 0.0
6504    6515  Perf_Background_Dpkg.Trip_Data.TIME := 0.0
6505    6516  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Iienabled := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6506	6517	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Prenabled := True
6507	6518	Perf_Background_Dpkg.Psisadev := 0.0
6508	6519	
6509		#sba prf_bkgnd_pkg.get_bk_Data #1267
	6520	#sba prf_bkgnd_pkg.get_bk_Data #1274
6510	6521	#go
6511	6522	Perf_Background_Dpkg.Pcmanspd.Casvalid := True
6512	6523	Machmode := True
6513	6524	Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt := 20000.0
6514	6525	CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = True
6515	6526	#delb/all
6516	6527	#sba Sys_Perf_Interface_Dpkg.Pctriptime #423
6517	6528	#go
6518	6529	Data_Storage.Pctriptime(ACTIVE).FUEL := 1000.0
6519	6530	Data_Storage.Pctriptime(ACTIVE).TIME := 3600.0
6520	6531	
6521		#sba prf_bkgnd_pkg.get_bk_Data #1533
	6532	#sba prf_bkgnd_pkg.get_bk_Data #1540
6522	6533	#go
6523	6534	Perf_Background_Dpkg.Psisadev = -15.0
6524	6535	
6525	6536	!run_test()
6526	6537	
6527	6538	Perf_Background_Dpkg.Pcmanspd.Casvalid = False
6528	6539	Perf_Background_Dpkg.Trip_Data.FUEL = 1000.0
6529	6540	Perf_Background_Dpkg.Trip_Data.TIME = 3600.0
6530	6541	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Iienabled = False
6531	6542	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Prenabled = False
6532	6543	
6533	6544	--
6534	6545	TESTID: 34
6535	6546	
6536	6547	the descent path shall be retrieved from the descent path object manager via a call to Perf_Ext_Despath.Pgvdespath if
6537	6548	the current itinerary is Temporary Primary Flight Plan Predictions.
6538	6549	
6539	6550	When following conditions are met:
6540	6551	1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
6541	6552	2. the descent speed limit is latched
6542	6553	3. the flight plan is Temporary,
6543	6554	4. the flight phase is descent
6544	6555	then the following shall be done:
6545	6556	i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
6546	6557	ii) If the DES SPD LIM Perf leg is Included, then
6547	6558	If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6548	6559	Optimum Descent CAS is set to the VG Partially-Limited CAS
6549	6560	Otherwise,
6550	6561	Optimum Descent CAS is set to the DES SPD LIM speed.
6551	6562	
6552	6563	Here verify conditon 3(the flight plan is not Temporary) is not satisfied, Perf_Buffer.Getperfleg procedure will not b
		» e called.
6553	6564	PERF_SDD_08158_INT
6554	6565	
6555	6566	When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
		» set to False.
6556	6567	1. First Preds After Insert Temporary indication is True or
6557	6568	2. The descent speed limit has not been latched or
6558	6569	3. The temporary flight plan does not exist.
6559	6570	
6560	6571	Here verify condition 3(The temporary flight plan does not exist) is satisfied, Psdeslimspdchg is set to False.
6561	6572	PERF_SDD_08159_INT
6562	6573	
6563	6574	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6564	6575	Approach, then the Optimum Descent speeds shall be set as follows:
6565	6576	if the following are true:
6566	6577	- VG Partially-Limited CAS is non-zero, and Any of the following are true:
6567	6578	- The A/C is currently in a deceleration, and either:
6568	6579	- The predictions count is less than or equal to one, or
6569	6580	- The current working flight plan is Active and the difference between the current prediction sequence
6570	6581	counter and starting prediction sequence counter is less than or equal to 2, or
6571	6582	- The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6572	6583	being processed is Current Mode predictions(Normal or High Priority) ,or
6573	6584	- First Preds After Insert Temporary indication is True;
6574	6585	- The A/C is not in Auto Lateral mode,
6575	6586	- Approach Speeds have been latched.
6576	6587	then,
6577	6588	Optimum Descent CAS is set to the VG Partially-Limited CAS
6578	6589	otherwise,
6579	6590	Optimum Descent CAS is set to current VG CAS target.
6580	6591	-- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
6581	6592	-- VG Partially-Limited CAS is non-zero.
6582	6593	-- The A/C is currently in a deceleration and the predictions count is equal to one.
6583	6594	-- Optimum Descent CAS is set to the VG Partially-Limited CAS
6584	6595	
6585	6596	REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3888_INT, PERF_SDD_08158_INT, PERF_SDD_08159_INT
6586	6597	
6587	6598	SUPPORTING REQUIREMENTS : N/A
6588	6599	
6589	6600	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6590	6601	-- INPUTS
6591	6602	Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
6592	6603	Perf_Background_Dpkg.Psairborne := False
6593	6604	Perf_Background_Dpkg.Psdeslimspdchg := True
6594	6605	Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim := True
6595	6606	FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists := False
6596	6607	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
6597	6608	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
6598	6609	Perf_Background_Dpkg.Pcactorsec := Active
6599	6610	Perf_Background_Dpkg.Pcfltphase := Descent
6600	6611	Guid_Spds_Dpkg.Vc3prtlimcas := 160.0
6601	6612	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply := True
6602	6613	Perf_Background_Dpkg.Psautolat := True
6603	6614	Guid_Ext_Dpkg.Gcxxlatautoc := True
6604	6615	Perf_Background_Dpkg.Psappspdlat := False
6605	6616	Perf_Background_Dpkg.Pcpredcount(Active) := 1
6606	6617	Perf_Dpkg.Psfrstactprd := False
6607	6618	Perf_Dpkg.Insrt_Tmpy_Frst_Preds := False
6608	6619	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
6609	6620	
6610	6621	Perf_Background_Dpkg.Pcitin.Flight_Plan := Temporary
6611	6622	Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
6612	6623	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE := False
6613	6624	
6614		#sba prf_bkgnd_pkg.get_bk_Data #1267
	6625	#sba prf_bkgnd_pkg.get_bk_Data #1274
6615	6626	#go
6616	6627	CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec = True
6617	6628	#delb/all
6618	6629	
6619	6630	!run_test()
6620	6631	
6621	6632	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 160.0
6622	6633	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE = False
6623	6634	Perf_Background_Dpkg.Psdeslimspdchg = False
6624	6635	--
6625	6636	TESTID: 35
6626	6637	
6627	6638	if the current itinerary is Fuel_Plan_Fpln_Preds,and Psgetout set to False, then the descent path shall be
6628	6639	invalidated to cause it to be rebuilt.
6629	6640	
6630	6641	When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be » set to False.
6631	6642	1. First Preds After Insert Temporary indication is True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6632  6643  2. The descent speed limit has not been latched
6633  6644  3. The temporary flight plan does not exist.
6634  6645
6635  6646  Here conditon 1,2,3 are not satisfied, Psdeslimspdchg is not set to False.
6636  6647  PERF_SDD_08159_INT
6637  6648
6638  6649  If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6639  6650  Approach, then the Optimum Descent speeds shall be set as follows:
6640  6651  if the following are true:
6641  6652    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
6642  6653      - The A/C is currently in a deceleration, and either:
6643  6654        - The predictions count is less than or equal to one, or
6644  6655        - The current working flight plan is Active and the difference between the current prediction sequence
6645  6656          counter and starting prediction sequence counter is less than or equal to 2, or
6646  6657        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6647  6658          being processed is Current Mode predictions(Normal or High Priority) ,or
6648  6659        - First Preds After Insert Temporary indication is True;
6649  6660      - The A/C is not in Auto Lateral mode,
6650  6661      - Approach Speeds have been latched.
6651  6662  then,
6652  6663    Optimum Descent CAS is set to the VG Partially-Limited CAS
6653  6664  otherwise,
6654  6665    Optimum Descent CAS is set to current VG CAS target.
6655  6666  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
6656  6667  -- VG Partially-Limited CAS is non-zero.
6657  6668  -- The A/C is currently in a deceleration and current working flight plan is Active and the difference between
6658  6669  -- the current prediction sequence counter and starting prediction sequence counter is equal to 2.
6659  6670  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6660  6671
6661  6672      REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3681_INT, PERF_SDD_08159_INT
6662  6673
6663  6674      SUPPORTING REQUIREMENTS : N/A
6664  6675
6665  6676
6666  6677  -- INPUTS
6667  6678  Perf_Background_Dpkg.Flight_Plan_Type                := Perf_Int_Base_Tpkg.Is_Active
6668  6679  Perf_Background_Dpkg.Psairborne                      := False
6669  6680  Perf_Background_Dpkg.Psdeslimspdchg                  := True
6670  6681  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim     := True
6671  6682  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists      := True
6672  6683  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas            := 0.0
6673  6684  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase    := Descent
6674  6685  Perf_Background_Dpkg.Pcfltphase                      := Descent
6675  6686  Perf_Background_Dpkg.Pcactorsec                      := Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6676 | 6687 | Guid_Spds_Dpkg.Vc3prtlimcas                                := 170.0
6677 | 6688 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply            := True
6678 | 6689 | Perf_Background_Dpkg.Psautolat                             := True
6679 | 6690 | Guid_Ext_Dpkg.Gcxxlatautoc                                 := True
6680 | 6691 | Perf_Background_Dpkg.Psappspdlat                           := False
6681 | 6692 | Perf_Background_Dpkg.Pcpredcount(Active)                   := 3
6682 | 6693 | Perf_Background_Dpkg.Active_Start_Predcount                := 1
6683 | 6694 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds                           := False
6684 | 6695 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                         := 345.0
6685 | 6696 |
6686 | 6697 | Perf_Background_Dpkg.Pcitin.Itinerary                      := Fuel_Plan_Fpln_Preds
6687 | 6698 | Perf_Background_Dpkg.Psgetout                              := False
6688 | 6699 | Perf_Despath_Dpkg.Pcdespath.Vgavalid                       := True
6689 | 6700 |
6690 | 6701 | !run_test()
6691 | 6702 |
6692 | 6703 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                  = 170.0
6693 | 6704 | Perf_Despath_Dpkg.Pcdespath.Vgavalid                       = False
6694 | 6705 | Perf_Background_Dpkg.Psdeslimspdchg                         = True
6695 | 6706 | -------------------------------------------------------------------------------
6696 | 6707 | TESTID: 36
6697 | 6708 |
6698 | 6709 | if the current itinerary is Primary Flight Plan Predictions for a flight plan other than Active or Temporary,and
6699 | 6710 | Psgetout set to False, then the descent path shall be invalidated to cause it to be rebuilt.
6700 | 6711 |
6701 | 6712 | When following conditions are met:
6702 | 6713 | 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
6703 | 6714 | 2. the descent speed limit is latched
6704 | 6715 | 3. the flight plan is Temporary,
6705 | 6716 | 4. the flight phase is descent
6706 | 6717 | then the following shall be done:
6707 | 6718 | i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
6708 | 6719 | ii) If the DES SPD LIM Perf leg is Included, then
6709 | 6720 | If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
6710 | 6721 |  Optimum Descent CAS is set to the VG Partially-Limited CAS
6711 | 6722 | Otherwise,
6712 | 6723 |  Optimum Descent CAS is set to the DES SPD LIM speed.
6713 | 6724 |
6714 | 6725 | Here verify conditon 4(the flight phase is not descent ) is not satisfied, Perf_Buffer.Getperfleg procedure will not b
       |      | » e called.
6715 | 6726 | PERF_SDD_08158_INT
6716 | 6727 |
6717 | 6728 | When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
       |      | »  set to False.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6718   6729 1. First Preds After Insert Temporary indication is True
6719   6730 2. The descent speed limit has not been latched
6720   6731 3. The temporary flight plan does not exist.
6721   6732
6722   6733 Here verify condition 1(First Preds After Insert Temporary indication is True) is satisfied, Psdeslimspdchg is set to
            » False.
6723   6734 PERF_SDD_08159_INT
6724   6735
6725   6736 If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6726   6737 Approach, then the Optimum Descent speeds shall be set as follows:
6727   6738 if the following are true:
6728   6739   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
6729   6740     - The A/C is currently in a deceleration, and either:
6730   6741       - The predictions count is less than or equal to one, or
6731   6742       - The current working flight plan is Active and the difference between the current prediction sequence
6732   6743         counter and starting prediction sequence counter is less than or equal to 2, or
6733   6744       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6734   6745         being processed is Current Mode predictions(Normal or High Priority) ,or
6735   6746       - First Preds After Insert Temporary indication is True;
6736   6747     - The A/C is not in Auto Lateral mode,
6737   6748     - Approach Speeds have been latched.
6738   6749 then,
6739   6750   Optimum Descent CAS is set to the VG Partially-Limited CAS
6740   6751 otherwise,
6741   6752   Optimum Descent CAS is set to current VG CAS target.
6742   6753 -- In this case, flight phase is Approach and current VG CAS and Mach targets are valid.
6743   6754 -- VG Partially-Limited CAS is non-zero.
6744   6755 -- The A/C is currently in a deceleration and First Preds After Insert Temporary indication is True.
6745   6756 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6746   6757
6747   6758    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3681_INT, PERF_SDD_08158_INT, PERF_SDD_08159_INT
6748   6759
6749   6760    SUPPORTING REQUIREMENTS : N/A
6750   6761
6751   6762
6752   6763 -- INPUTS
6753   6764 Perf_Background_Dpkg.Flight_Plan_Type                 := Perf_Int_Base_Tpkg.Is_Active
6754   6765 Perf_Background_Dpkg.Psairborne                       := False
6755   6766 Perf_Background_Dpkg.Psdeslimspdchg                   := True
6756   6767 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim            := True
6757   6768 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists      := True
6758   6769 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas            := 0.0
6759   6770 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase    := Approach
6760   6771 Perf_Background_Dpkg.Pcfltphase                       := Approach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6761   6772 Perf_Background_Dpkg.Pcactorsec                        := Temporary
6762   6773 Guid_Spds_Dpkg.Vc3prtlimcas                            := 183.0
6763   6774 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply        := True
6764   6775 Perf_Background_Dpkg.Psautolat                         := True
6765   6776 Guid_Ext_Dpkg.Gcxxlatautoc                             := True
6766   6777 Perf_Background_Dpkg.Psappspdlat                       := False
6767   6778 Perf_Background_Dpkg.Pcpredcount(Temporary)            := 3
6768   6779 Perf_Dpkg.Psfrstactprd                                 := True
6769   6780 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := True
6770   6781 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                     := 345.0
6771   6782
6772   6783 Perf_Background_Dpkg.Pcitin.Itinerary                  := Prim_Fpln_Preds
6773   6784 Perf_Background_Dpkg.Pcitin.Flight_Plan                := Secondary
6774   6785 Perf_Background_Dpkg.Psgetout                          := False
6775   6786 Perf_Despath_Dpkg.Pcdespath.Vgavalid                   := True
6776   6787 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE     := False
6777   6788 !run_test()
6778   6789
6779   6790 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas               = 183.0
6780   6791 Perf_Despath_Dpkg.Pcdespath.Vgavalid                    = False
6781   6792 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE      = False
6782   6793 Perf_Background_Dpkg.Psdeslimspdchg                      = False
6783   6794 --------------------------------------------------------------------------
6784   6795 TESTID: 37
6785   6796
6786   6797 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum Descen
            » t Mach
6787   6798 shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target;oth
            » erwise,
6788   6799 if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.
6789   6800
6790   6801 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6791   6802 Approach, then the Optimum Descent speeds shall be set as follows:
6792   6803 if the following are true:
6793   6804   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
6794   6805     - The A/C is currently in a deceleration, and either:
6795   6806       - The predictions count is less than or equal to one, or
6796   6807       - The current working flight plan is Active and the difference between the current prediction sequence
6797   6808         counter and starting prediction sequence counter is less than or equal to 2, or
6798   6809       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6799   6810         being processed is Current Mode predictions(Normal or High Priority) ,or
6800   6811       - First Preds After Insert Temporary indication is True;
6801   6812     - The A/C is not in Auto Lateral mode,
6802   6813     - Approach Speeds have been latched.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6803  6814 then,
6804  6815   Optimum Descent CAS is set to the VG Partially-Limited CAS
6805  6816 otherwise,
6806  6817   Optimum Descent CAS is set to current VG CAS target.
6807  6818 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
6808  6819 -- VG Partially-Limited CAS is non-zero.
6809  6820 -- The A/C is not in Auto Lateral mode.
6810  6821 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6811  6822
6812  6823     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_2276_INT
6813  6824
6814  6825     SUPPORTING REQUIREMENTS : N/A
6815  6826
6816  6827
6817  6828 -- INPUTS
6818  6829 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                := 0.0
6819  6830 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach               := 0.0
6820  6831 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase        := Descent
6821  6832 Perf_Background_Dpkg.Pcfltphase                          := Descent
6822  6833 Perf_Background_Dpkg.Pcactorsec                          := Active
6823  6834 Guid_Spds_Dpkg.Vc3prtlimcas                              := 3.0
6824  6835 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply          := False
6825  6836 Perf_Background_Dpkg.Psautolat                           := False
6826  6837 Guid_Ext_Dpkg.Gcxxlatautoc                               := False
6827  6838 Perf_Background_Dpkg.Psappspdlat                         := False
6828  6839 Perf_Background_Dpkg.Pcpredcount(Active)                 := 3
6829  6840 Perf_Dpkg.Psfrstactprd                                   := False
6830  6841 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                          := True
6831  6842 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                       := 345.0
6832  6843 Guid_Spds_Dpkg.Vc3curspds.Mach.Data                      := 3.5
6833  6844 Perf_Database_Dpkg.Psmmo                                 := 1.0
6834  6845
6835  6846 !run_test()
6836  6847
6837  6848 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                =  3.0
6838  6849 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach               =  3.5
6839  6850
6840  6851 ----------------------------------------------------------------------------------
6841  6852 TESTID: 38
6842  6853
6843  6854 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6844  6855 Approach, then the Optimum Descent speeds shall be set as follows:
6845  6856 if the following are true:
6846  6857   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6847  6858       - The A/C is currently in a deceleration, and either:
6848  6859         - The predictions count is less than or equal to one, or
6849  6860         - The current working flight plan is Active and the difference between the current prediction sequence
6850  6861           counter and starting prediction sequence counter is less than or equal to 2, or
6851  6862         - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6852  6863           being processed is Current Mode predictions(Normal or High Priority) ,or
6853  6864         - First Preds After Insert Temporary indication is True;
6854  6865       - The A/C is not in Auto Lateral mode,
6855  6866       - Approach Speeds have been latched.
6856  6867  then,
6857  6868     Optimum Descent CAS is set to the VG Partially-Limited CAS
6858  6869  otherwise,
6859  6870     Optimum Descent CAS is set to current VG CAS target.
6860  6871  -- In this case, flight phase is Approach and current VG CAS and Mach targets are valid.
6861  6872  -- VG Partially-Limited CAS is non-zero.
6862  6873  -- Approach Speeds have been latched.
6863  6874  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6864  6875
6865  6876     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
6866  6877
6867  6878     SUPPORTING REQUIREMENTS : N/A
6868  6879
6869  6880
6870  6881  -- INPUTS
6871  6882  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
6872  6883  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase     := Approach
6873  6884  Perf_Background_Dpkg.Pcfltphase                       := Approach
6874  6885  Perf_Background_Dpkg.Pcactorsec                       := Active
6875  6886  Guid_Spds_Dpkg.Vc3prtlimcas                           := 3.0
6876  6887  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply       := False
6877  6888  Perf_Background_Dpkg.Psautolat                        := True
6878  6889  Guid_Ext_Dpkg.Gcxxlatautoc                            := True
6879  6890  Perf_Background_Dpkg.Psappspdlat                      := True
6880  6891  Perf_Background_Dpkg.Pcpredcount(Active)              := 3
6881  6892  Perf_Dpkg.Psfrstactprd                                := False
6882  6893  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                       := True
6883  6894  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                    := 345.0
6884  6895
6885  6896  !run_test()
6886  6897
6887  6898  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas             =  3.0
6888  6899
6889  6900  -------------------------------------------------------------------------------
6890  6901  TESTID: 39
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

6891	6902	the currently active flight phase is climb, the real time climb speeds are valid for current working flight plan then
6892	6903	Optimum Econ/LRC climb CAS and Mach are set to the real time climb CAS and Mach speeds respectively for the current wo
		» rking flight plan.
6893	6904	PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)
6894	6905	the current flight phase is not cruise then
6895	6906	The original step speeds (CAS and Mach) before speed limiting are not be changed.
6896	6907	The flag indicating Predictions are in step not be changed.
6897	6908	The Step CAS and Mach speeds not be changed.
6898	6909	Optimum Econ/LRC Cruise CAS and Mach not be changed.
6899	6910	Flag indicating the speed targets from FG not be changed.
6900	6911	PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
6901	6912	
6902	6913	
6903	6914	--INPUTS
6904	6915	
6905	6916	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
6906	6917	Perf_Background_Dpkg.Pcactorsec := Active
6907	6918	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Valid := true
6908	6919	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Cas := 230.0
6909	6920	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Mach := 0.6
6910	6921	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
6911	6922	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
6912	6923	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
6913	6924	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
6914	6925	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
6915	6926	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
6916	6927	Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) := 100.00
6917	6928	Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) := 0.12
6918	6929	Perf_Background_Dpkg.Psinstep := False
6919	6930	Perf_Background_Dpkg.Psstepcas := 200.00
6920	6931	Perf_Background_Dpkg.Psstepmach := 0.35
6921	6932	Perf_Background_Dpkg.Psecncrzmach :=200.0
6922	6933	Perf_Background_Dpkg.Psecncrzcas := 0.55
6923	6934	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
6924	6935	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target := True
6925	6936	
6926	6937	-- Reset Output
6927	6938	Perf_Background_Dpkg.Pcoptinitspd.Clb.Cas := 0.0
6928	6939	Perf_Background_Dpkg.Pcoptinitspd.Clb.Mach := 0.0
6929	6940	
6930	6941	--this breakpoint is set to verify the variables for PERF_SDD_09063
6931		#sba prf_bkgnd_pkg.get_bk_Data #1105
	6942	#sba prf_bkgnd_pkg.get_bk_Data #1112
6932	6943	#go

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6933   6944  Prf_Bkgnd_Pkg:body.Fgspdsvalid = True
6934   6945
6935   6946  !run_test()
6936   6947
6937   6948  -- OUTPUTS
6938   6949  Perf_Background_Dpkg.Pcoptinitspd.Clb.Cas    = 230.0
6939   6950  Perf_Background_Dpkg.Pcoptinitspd.Clb.Mach   = 0.6
6940   6951  Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec ) = 100.00
6941   6952  Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec ) = 0.12
6942   6953  Perf_Background_Dpkg.Psinstep = False
6943   6954  Perf_Background_Dpkg.Psstepcas = 200.00
6944   6955  Perf_Background_Dpkg.Psstepmach = 0.35
6945   6956  Perf_Background_Dpkg.Psecncrzmach =200.0
6946   6957  Perf_Background_Dpkg.Psecncrzcas = 0.55
6947   6958
6948   6959  ----------------------------------------------------------------------------------
6949   6960  TESTID: 40
6950   6961  the currently active flight phase is climb,the real time climb speeds are not valid for current working flight plan th
             » en
6951   6962  Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
6952   6963  PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)
6953   6964
6954   6965
6955   6966  --INPUTS
6956   6967  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase                   := climb
6957   6968  Perf_Background_Dpkg.Pcactorsec                                     := Active
6958   6969  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Valid := false
6959   6970  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid        := false
6960   6971  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact                   := false
6961   6972  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact                   := false
6962   6973
6963   6974  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Mach  := 0.8
6964   6975  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Cas   := 330.0
6965   6976
6966   6977  -- Reset Output
6967   6978  Perf_Background_Dpkg.Psecncrzmach            := 0.0
6968   6979  Perf_Background_Dpkg.Psecncrzcas             := 0.0
6969   6980  Prf_Bkgnd_Pkg:body.Fgspdsvalid  := True
6970   6981  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target  := True
6971   6982
6972   6983  --this breakpoint is set to verify the variables for PERF_SDD_08226
6973         #sba prf_bkgnd_pkg.get_bk_Data #1062
       6984  #sba prf_bkgnd_pkg.get_bk_Data #1069
6974   6985  #go
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
6975    6986  Prf_Bkgnd_Pkg:body.Fgspdsvalid = false
6976    6987
6977    6988  !run_test()
6978    6989
6979    6990  -- OUTPUTS
6980    6991  Perf_Background_Dpkg.Psecncrzmach          = 0.0
6981    6992  Perf_Background_Dpkg.Psecncrzcas           = 0.0
6982    6993
6983    6994  -----------------------------------------------------------------------------------------------------
              » -----------
6984    6995  TESTID: 41
6985    6996
6986    6997     If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
6987    6998     - Perf hold flag record (Pcholdflags) is copied from guidance
6988    6999     - Descent limit latch record (Pcdeslimlat) is copied from guidance.
6989    7000     - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
              » h.
6990    7001     - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
              » considers
6991    7002       the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
6992    7003     - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
              »  HM if no
6993    7004       deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
              » lear the HM
6994    7005       leg deleted while in decel to HM flag (Pshmdeleted).
6995    7006     - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
              » d, and the
6996    7007       HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
              » t is within
6997    7008       the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
6998    7009     - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
              » l to HM,
6999    7010       then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
7000    7011       PERF_SDD_4794_INT
7001    7012      This test case verify:
7002    7013      (1)HM leg deleted while in decel to HM flag remain False (Pshmdeleted)  (F,F,F)
7003    7014
7004    7015      This case verfify When mach target and the fcu mach selected mode are valid, the speed target tag is set to indica
              » te Mach
7005    7016       and FCU speed is set to the value of selected Mach.
7006    7017       PERF_SDD_4779_INT
7007    7018
7008    7019      Also verify when the current itinerary is Fuel_Plan_Fpln_Preds, but the A/C is in not Takeoff & Climb.
7009    7020       so, Climb Auto Derate will not be processed.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7010  7021        PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7011  7022                    PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7012  7023
7013  7024     Perf_Background_Dpkg.Use_Clb_Autodrt is not true, so Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
7014  7025     PERF_SDD_07919 (PERF_SRD_12641)
7015  7026
7016  7027     REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT, PERF_SDD_07956, PERF_SDD_
             » 07919,
7017  7028     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
             » 70_INT,
7018  7029                        PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7019  7030
7020  7031
7021  7032 -- INPUTS
7022  7033 Perf_Background_Dpkg.Flight_Plan_Type                    := Copy_From_Active
7023  7034 Perf_Background_Dpkg.Pcactorsec                          := Temporary
7024  7035 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive       := True
7025  7036 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel        := False
7026  7037 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn      := True
7027  7038 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel      := True
7028  7039 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv      := True
7029  7040 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval      := True
7030  7041 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm    := False
7031  7042 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim         := False
7032  7043 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim        := False
7033  7044 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel       := False
7034  7045 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase        := Approach --Perf_Background_Dpkg.Pcfltphase
7035  7046 Perf_Dpkg.Pshmdeleted                                    := False
7036  7047
7037  7048 --Io_Fcu_Dpkg.Selected_Mach.Data
7038  7049 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach    := 0.68
7039  7050 --Io_Fcu_Dpkg.Selected_Mach.Is_Valid
7040  7051 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach  := True
7041  7052 --Io_Fg_Fm_Internal_Dpkg.Mach_Selection_Mode_Selected.Data (Machmode)
7042  7053 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
             » True
7043  7054 --Io_Fcu_Dpkg.Selected_Airspeed.Data
7044  7055 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed  := 320.0
7045  7056 --Io_Fcu_Dpkg.Selected_Airspeed.Is_Valid
7046  7057 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed := False
7047  7058 Perf_Background_Dpkg.Pcitin.Itinerary                    := Fuel_Plan_Fpln_Preds
7048  7059 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
7049  7060 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
7050  7061 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach       := true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7051  7062 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
7052  7063 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
7053  7064 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
7054  7065 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
7055  7066 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 200.0
7056  7067 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 0.5
7057  7068 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas := 600.0
7058  7069 Guid_Spds_Dpkg.Vc3curspds.Fltphase := Approach
7059  7070
7060  7071 -- Reset Outputs
7061  7072 Perf_Background_Dpkg.Pcholdflags.Hmactive            := False
7062  7073 Perf_Background_Dpkg.Pcholdflags.Hmdecel             := True
7063  7074 Perf_Background_Dpkg.Pcholdflags.Manhmwarn           := False
7064  7075 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel           := False
7065  7076 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv           := False
7066  7077 Perf_Background_Dpkg.Pcholdflags.Hmdistval           := False
7067  7078 Perf_Background_Dpkg.Pcholdflags.Consider_Hm         := True
7068  7079 Perf_Background_Dpkg.Pcspdtgttag                     := Fmcs_Base_Types.Cas
7069  7080 Perf_Background_Dpkg.Psfcuspd                        := 0.0
7070  7081 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid          := True
7071  7082 Perf_Background_Dpkg.Use_Clb_Autodrt                 := True
7072  7083 Perf_Background_Dpkg.Pshmdecel                       := True
7073  7084
7074  7085 !run_test()
7075  7086
7076  7087 -- OUTPUTS
7077  7088 Perf_Background_Dpkg.Pcholdflags.Hmactive     = True
7078  7089 Perf_Background_Dpkg.Pcholdflags.Hmdecel      = False
7079  7090 Perf_Background_Dpkg.Pcholdflags.Manhmwarn    = True
7080  7091 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel    = True
7081  7092 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv    = True
7082  7093 Perf_Background_Dpkg.Pcholdflags.Hmdistval    = True
7083  7094 Perf_Background_Dpkg.Pcholdflags.Consider_Hm = False
7084  7095 Perf_Dpkg.Pshmdeleted                         = False   --Remain false
7085  7096 Perf_Background_Dpkg.Pcspdtgttag              = Fmcs_Base_Types.Mach
7086  7097 Perf_Background_Dpkg.Psfcuspd                 = 0.68
7087  7098 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid  = False
7088  7099 Perf_Background_Dpkg.Use_Clb_Autodrt          = False
7089  7100 Perf_Background_Dpkg.Pshmdecel                = false
7090  7101
7091  7102 ---------------------------------------------------------------------------
7092  7103 TESTID: 42
7093  7104
7094  7105     If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

7095	7106	- Perf hold flag record (Pcholdflags) is copied from guidance
7096	7107	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
7097	7108	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
		» h.
7098	7109	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
		» considers
7099	7110	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
7100	7111	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
		» HM if no
7101	7112	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
		» lear the HM
7102	7113	leg deleted while in decel to HM flag (Pshmdeleted).
7103	7114	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
		» d, and the
7104	7115	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
		» t is within
7105	7116	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
7106	7117	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece
		» l to HM,
7107	7118	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
7108	7119	PERF_SDD_4794_INT
7109	7120	
7110	7121	This case verify when CAS target is valid, and fcu mach selected mode is invalid(cas selected mode is valid), the
		» speed target
7111	7122	tag is set to indicate CAS and fcu speed is set to the value of selected CAS.
7112	7123	PERF_SDD_4780_INT
7113	7124	
7114	7125	This test case verify
7115	7126	(1)HM leg deleted while in decel to HM flag remain False (Pshmdeleted) (T,T,F)
7116	7127	(2)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to True (T,F)
7117	7128	(3)Flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
		» e (T,T,F)
7118	7129	
7119	7130	When the FPA mode active and the target retrieved from IO are valid,
7120	7131	then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
7121	7132	The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
		» retrieved
7122	7133	from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
		» rom ft/min
7123	7134	to ft/sec. The flag indicating the vertical speed mode active is set to True.
7124	7135	PERF_SDD_07504_INT
7125	7136	--In this test case,Fpa_Target.Valid is false and Vs_Target.Valid is false
7126	7137	REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT,PERF_SDD_07504_INT
7127	7138	SUPPORTING REQUIREMENTS : N/A

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7128   7139
7129   7140
7130   7141 -- INPUTS
7131   7142 Perf_Background_Dpkg.Flight_Plan_Type                              := Copy_From_Active
7132   7143 Perf_Background_Dpkg.Pcactorsec                                    := Temporary
7133   7144 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive                := False
7134   7145 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel                 := True
7135   7146 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn               := False
7136   7147 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel               := False
7137   7148 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv               := False
7138   7149 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval               := False
7139   7150 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm             := True
7140   7151 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim                  := False
7141   7152 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim                 := False
7142   7153 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel                := False
7143   7154 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase                 := Approach --Perf_Background_Dpkg.Pcfltphase
7144   7155 Perf_Dpkg.Pshmdeleted                                             := False
7145   7156 --Io_Fcu_Dpkg.Selected_Mach.Data
7146   7157 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach        := 0.58
7147   7158 --Io_Fcu_Dpkg.Selected_Mach.Is_Valid
7148   7159 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach  := True
7149   7160 --Io_Fg_Fm_Internal_Dpkg.Mach_Selection_Mode_Selected.Data (Machmode)
7150   7161 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected  :=
            »  False
7151   7162 --Io_Fcu_Dpkg.Selected_Airspeed.Data
7152   7163 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed  := 320.0
7153   7164 --Io_Fcu_Dpkg.Selected_Airspeed.Is_Valid
7154   7165 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed  := True
7155   7166
7156   7167 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3              := True
7157   7168 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            »  := true
7158   7169 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target          := false
7159   7170 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target       := 57.3066
7160   7171 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active :=
            »  true
7161   7172 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target  := false
7162   7173 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target  := 60.0
7163   7174 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
7164   7175 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach      := true
7165   7176 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas       := True
7166   7177 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas       := True
7167   7178 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
7168   7179 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7169   7180  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 60.0
7170   7181  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 1.5
7171   7182  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
7172   7183
7173   7184  -- Reset Outputs
7174   7185  Perf_Background_Dpkg.Pcholdflags.Hmactive           := True
7175   7186  Perf_Background_Dpkg.Pcholdflags.Hmdecel            := False
7176   7187  Perf_Background_Dpkg.Pcholdflags.Manhmwarn          := True
7177   7188  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel          := True
7178   7189  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv          := True
7179   7190  Perf_Background_Dpkg.Pcholdflags.Hmdistval          := True
7180   7191  Perf_Background_Dpkg.Pcholdflags.Consider_Hm        := False
7181   7192  Perf_Background_Dpkg.Pshmdecel                      := False
7182   7193  Perf_Background_Dpkg.Psconsider_Hm                  := True
7183   7194  Perf_Background_Dpkg.Pcspdtgttag                    := Fmcs_Base_Types.Mach
7184   7195  Perf_Background_Dpkg.Psfcuspd                       := 0.0
7185   7196  Perf_Background_Dpkg.Psfpatgt                       := 0.0
7186   7197  Perf_Background_Dpkg.Psfpaact                       := false
7187   7198  Perf_Integration_Dpkg.Psvstgt                       := 0.0
7188   7199  Perf_Background_Dpkg.Psvsact                        := false
7189   7200
7190   7201  !run_test()
7191   7202
7192   7203  -- OUTPUTS
7193   7204  Perf_Background_Dpkg.Pcholdflags.Hmactive    = False
7194   7205  Perf_Background_Dpkg.Pcholdflags.Hmdecel     = True
7195   7206  Perf_Background_Dpkg.Pcholdflags.Manhmwarn   = False
7196   7207  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel   = False
7197   7208  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv   = False
7198   7209  Perf_Background_Dpkg.Pcholdflags.Hmdistval   = False
7199   7210  Perf_Background_Dpkg.Pcholdflags.Consider_Hm = True
7200   7211  Perf_Dpkg.Pshmdeleted                        = False   --Remain false
7201   7212  Perf_Background_Dpkg.Pshmdecel               = True
7202   7213  Perf_Background_Dpkg.Psconsider_Hm           = False
7203   7214  Perf_Background_Dpkg.Pcspdtgttag             = CAS
7204   7215  Perf_Background_Dpkg.Psfcuspd                = 320.0
7205   7216  Perf_Background_Dpkg.Psfpatgt                /= 1.0
7206   7217  Perf_Background_Dpkg.Psfpaact                /= true
7207   7218  Perf_Integration_Dpkg.Psvstgt                /= 1.0
7208   7219  Perf_Background_Dpkg.Psvsact                 /= true
7209   7220  -------------------------------------------------------------------------------
7210   7221  TESTID: 43
7211   7222
7212   7223      If the working flight plan is Active or Temporary, flags related to HM legs shall be set    as follows:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

7213	7224	- Perf hold flag record (Pcholdflags) is copied from guidance
7214	7225	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
7215	7226	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
		» h.
7216	7227	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
		» considers
7217	7228	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
7218	7229	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
		» HM if no
7219	7230	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
		» lear the HM
7220	7231	leg deleted while in decel to HM flag (Pshmdeleted).
7221	7232	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
		» d, and the
7222	7233	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
		» t is within
7223	7234	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
7224	7235	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece
		» l to HM,
7225	7236	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
7226	7237	PERF_SDD_4794_INT
7227	7238	This case verify when both PERF_SDD_4779_INT, PERF_SDD_4780_INT are not satisfied.
7228	7239	
7229	7240	This test case verify
7230	7241	(1)Flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to True
		» (T,F,F)
7231	7242	
7232	7243	When the FPA mode active and the target retrieved from IO are valid,
7233	7244	then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
7234	7245	The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
		» retrieved
7235	7246	from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
		» rom ft/min
7236	7247	to ft/sec. The flag indicating the vertical speed mode active is set to True.
7237	7248	PERF_SDD_07504_INT
7238	7249	--In this test case,Fpa_Target.Valid is false and Vspd_Mode_Active.Data is false
7239	7250	REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT,PERF_SDD_07504_INT
7240	7251	SUPPORTING REQUIREMENTS : N/A
7241	7252	
7242	7253	
7243	7254	-- INPUTS
7244	7255	Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
7245	7256	Perf_Background_Dpkg.Pcactorsec := Temporary
7246	7257	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7247  7258  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel          := False
7248  7259  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn        := False
7249  7260  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel        := False
7250  7261  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv        := False
7251  7262  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval        := False
7252  7263  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm      := True
7253  7264  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim           := False
7254  7265  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim          := False
7255  7266  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel         := False
7256  7267  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase          := Approach --Perf_Background_Dpkg.Pcfltphase
7257  7268  Perf_Dpkg.Pshmdeleted                                      := False
7258  7269  --Io_Fcu_Dpkg.Selected_Mach.Data
7259  7270  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach          := 0.58
7260  7271  --Io_Fcu_Dpkg.Selected_Mach.Is_Valid
7261  7272  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach  := False
7262  7273  --Io_Fg_Fm_Internal_Dpkg.Mach_Selection_Mode_Selected.Data (Machmode)
7263  7274  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
            » True
7264  7275  --Io_Fcu_Dpkg.Selected_Airspeed.Data
7265  7276  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed  := 320.0
7266  7277  --Io_Fcu_Dpkg.Selected_Airspeed.Is_Valid
7267  7278  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed := True
7268  7279
7269  7280  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3              := True
7270  7281  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            » := true
7271  7282  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target           := false
7272  7283  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target        := 57.3066
7273  7284  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active :=
            » false
7274  7285  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target  := true
7275  7286  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target  := 451.0
7276  7287  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
7277  7288  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach     := true
7278  7289  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas      := True
7279  7290  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas      := True
7280  7291  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := 20000
7281  7292  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat:=79.0
7282  7293  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas := 451.0
7283  7294  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach := 1.0
7284  7295  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status :=true
7285  7296
7286  7297  -- Reset Outputs
7287  7298  Perf_Background_Dpkg.Pcholdflags.Hmactive          := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7288│  7299│Perf_Background_Dpkg.Pcholdflags.Hmdecel              := True
7289│  7300│Perf_Background_Dpkg.Pcholdflags.Manhmwarn            := True
7290│  7301│Perf_Background_Dpkg.Pcholdflags.Hxpxdecel            := True
7291│  7302│Perf_Background_Dpkg.Pcholdflags.Hxpxactiv            := True
7292│  7303│Perf_Background_Dpkg.Pcholdflags.Hmdistval            := True
7293│  7304│Perf_Background_Dpkg.Pcholdflags.Consider_Hm          := False
7294│  7305│Perf_Background_Dpkg.Psconsider_Hm                    := False
7295│  7306│Perf_Background_Dpkg.Pcspdtgttag                      := Fmcs_Base_Types.Cas
7296│  7307│Perf_Background_Dpkg.Psfcuspd                         := 0.0
7297│  7308│Perf_Background_Dpkg.Psfpatgt                         := 0.0
7298│  7309│Perf_Background_Dpkg.Psfpaact                         := false
7299│  7310│Perf_Integration_Dpkg.Psvstgt                        := 0.0
7300│  7311│Perf_Background_Dpkg.Psvsact                          := false
7301│  7312│!run_test()
7302│  7313│
7303│  7314│-- OUTPUTS
7304│  7315│Perf_Background_Dpkg.Pcholdflags.Hmactive    = False
7305│  7316│Perf_Background_Dpkg.Pcholdflags.Hmdecel     = False
7306│  7317│Perf_Background_Dpkg.Pcholdflags.Manhmwarn   = False
7307│  7318│Perf_Background_Dpkg.Pcholdflags.Hxpxdecel   = False
7308│  7319│Perf_Background_Dpkg.Pcholdflags.Hxpxactiv   = False
7309│  7320│Perf_Background_Dpkg.Pcholdflags.Hmdistval   = False
7310│  7321│Perf_Background_Dpkg.Pcholdflags.Consider_Hm = True
7311│  7322│Perf_Dpkg.Pshmdeleted                        = False   --Remain false
7312│  7323│Perf_Background_Dpkg.Psconsider_Hm           = True
7313│  7324│Perf_Background_Dpkg.Pcspdtgttag             = CAS   --Remain cas
7314│  7325│Perf_Background_Dpkg.Psfcuspd               = 0.0  --Remain 0.0
7315│  7326│Perf_Background_Dpkg.Psfpatgt               /= 1.0
7316│  7327│Perf_Background_Dpkg.Psfpaact               /= true
7317│  7328│Perf_Integration_Dpkg.Psvstgt              /= 7.5
7318│  7329│Perf_Background_Dpkg.Psvsact               /= true
7319│  7330│-------------------------------------------------------------------------------------------------------
     │      │» --
7320│  7331│TESTID: 44
7321│  7332│TC 44 verifies:
7322│  7333│when Itinerary is Fuel_Plan_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
7323│  7334│the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Temporary, so, the Active F
     │      │» light plan
7324│  7335│is passed as input to the function.
7325│  7336│also, when satisfy the following condition, Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true.
7326│  7337│1) OPC Auto-Derate climb option activated set to True
7327│  7338│2) Pilot selected Climb mode is Auto-Derate
7328│  7339│3) Cruise altitude validity flag is set to True
7329│  7340│4) Take-off gross weight validity flag is set to True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7330 7341 PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7331 7342                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7332 7343 When Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true, the procedure Perf_Int_Utils.Climb_Autodrt procedure
7333 7344 shall be called to compute the auto-derate outputs. Also, Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to true.
7334 7345 PERF_SDD_07919 (PERF_SRD_12641)
7335 7346    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7336 7347    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
          » 70_INT,
7337 7348                         PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7338 7349
7339 7350
7340 7351 -- INPUTS
7341 7352 Perf_Background_Dpkg.Flight_Plan_Type                    := Is_Active
7342 7353 Perf_Background_Dpkg.Pcitin.Itinerary                   := Fuel_Plan_Fpln_Preds
7343 7354 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase       := Takeoff   --Perf_Background_Dpkg.Pcfltphase
7344 7355 Perf_Background_Dpkg.Pcactorsec                          := Temporary
7345 7356 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode   := Cdk_Entry_Tpkg.Auto_Derate
7346 7357 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7347 7358 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
7348 7359 Perf_Background_Dpkg.Pscrzalt.Valid                     := True
7349 7360 Perf_Dpkg.takeoff_gwt.valid                             := True
7350 7361 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Woendalt           := 3500.0
7351 7362 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Wos                := 1.5
7352 7363 Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Dtflex             := 2.0
7353 7364
7354 7365 -- Reset Outputs
7355 7366 Perf_Background_Dpkg.Use_Clb_Autodrt                   := False
7356 7367 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid           := False
7357 7368 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_End_Alt   := 0.0
7358 7369 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_Slope     := 0.0
7359 7370 Perf_Background_Dpkg.Climb_Autodrt.Delta_T_Flex       := 0.0
7360 7371
7361 7372 #define Call_Auto_Derated_Climb_Mode   := false
7362 7373 #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7363 7374 #define Call_Auto_Derated_Climb_Mode   := True
7364 7375 #go
7365 7376 #end
7366 7377
7367 7378 #define Call_Climb_Autodrt   := false
7368 7379 #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7369 7380 #define Call_Climb_Autodrt   := True
7370 7381 #go
7371 7382 #end
7372 7383
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
 7373   7384 !run_test()
 7374   7385
 7375   7386 -- OUTPUTS
 7376   7387 Perf_Background_Dpkg.Use_Clb_Autodrt                      = True
 7377   7388 Call_Auto_Derated_Climb_Mode                             = True
 7378   7389 Call_Climb_Autodrt                                       = True
 7379   7390 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid              = True
 7380   7391 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_End_Alt      = 3500.0
 7381   7392 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_Slope        = 1.5
 7382   7393 Perf_Background_Dpkg.Climb_Autodrt.Delta_T_Flex          = 2.0
 7383   7394 -------------------------------------------------------------------------------------------------------
             » --
 7384   7395 TESTID: 45
 7385   7396 TC 45 verifies:
 7386   7397 when Itinerary is Current_Mode_Hi_Pri and the A/C is in Climb, pilot selected climb mode is obtained by calling
 7387   7398 the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Secondary, so, the
 7388   7399 current working flight plan is passed as input to the function.
 7389   7400 also, In this case, condition (2) is not satisfied, Clb_Autodrt_mode is set to Cdk_Entry_Tpkg.Clb.
 7390   7401 so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
 7391   7402
 7392   7403 1) OPC Auto-Derate climb option activated set to True
 7393   7404 2) Pilot selected Climb mode is Auto-Derate
 7394   7405 3) Cruise altitude validity flag is set to True
 7395   7406 4) Take-off gross weight validity flag is set to True
 7396   7407 5) The A/C has not sequenced the initial TOC for Active Flight plan
 7397   7408 PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
 7398   7409                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
 7399   7410 Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
 7400   7411 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
 7401   7412 PERF_SDD_07919 (PERF_SRD_12641)
 7402   7413     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
 7403   7414     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
             » 70_INT,
 7404   7415                                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
 7405   7416
 7406   7417
 7407   7418 -- INPUTS
 7408   7419 Perf_Background_Dpkg.Flight_Plan_Type                    := Is_Active
 7409   7420 Perf_Background_Dpkg.Pcitin.Itinerary                    := Current_Mode_Hi_Pri
 7410   7421 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase        := Climb   --Perf_Background_Dpkg.Pcfltphase
 7411   7422 Perf_Background_Dpkg.Pcactorsec                          := Secondary
 7412   7423 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode   := Cdk_Entry_Tpkg.Auto_Derate
 7413   7424 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Secondary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
 7414   7425 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7415   7426 Perf_Background_Dpkg.Pscrzalt.Valid                        := True
7416   7427 Perf_Dpkg.takeoff_gwt.valid                               := True
7417   7428
7418   7429 -- Reset Outputs
7419   7430 Perf_Background_Dpkg.Use_Clb_Autodrt                       := False
7420   7431 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid               := True
7421   7432 #define Call_Auto_Derated_Climb_Mode   := false
7422   7433 #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7423   7434 #define Call_Auto_Derated_Climb_Mode   := True
7424   7435 #go
7425   7436 #end
7426   7437
7427   7438 #define Call_Climb_Autodrt   := false
7428   7439 #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7429   7440 #define Call_Climb_Autodrt   := True
7430   7441 #go
7431   7442 #end
7432   7443
7433   7444 !run_test()
7434   7445
7435   7446 -- OUTPUTS
7436   7447 Perf_Background_Dpkg.Use_Clb_Autodrt                       = False
7437   7448 Call_Auto_Derated_Climb_Mode                               = True
7438   7449 Call_Climb_Autodrt                                         = False
7439   7450 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid               = False
7440   7451 -----------------------------------------------------------------------------------------------------
             » --
7441   7452 TESTID: 46
7442   7453 TC 46 verifies:
7443   7454 when Itinerary is Prim_Fpln_Preds and the A/C is in Climb, pilot selected climb mode is obtained by calling
7444   7455 the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Temporary, so, the Active F
             » light plan
7445   7456 is passed as input to the function.
7446   7457 also, In this case, condition (1) is not satisfied, Auto_Derate_Climb_Enable is set to False.
7447   7458 so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
7448   7459
7449   7460 1) OPC Auto-Derate climb option activated set to True
7450   7461 2) Pilot selected Climb mode is Auto-Derate
7451   7462 3) Cruise altitude validity flag is set to True
7452   7463 4) Take-off gross weight validity flag is set to True
7453   7464 5) The A/C has not sequenced the initial TOC for Active Flight plan
7454   7465 PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7455   7466                PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7456   7467 Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7457   7468  PERF_SDD_07919 (PERF_SRD_12641)
7458   7469     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7459   7470     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
              » 70_INT,
7460   7471                              PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7461   7472
7462   7473
7463   7474  -- INPUTS
7464   7475  Perf_Background_Dpkg.Flight_Plan_Type                     := Is_Active
7465   7476  Perf_Background_Dpkg.Pcitin.Itinerary                     := Prim_Fpln_Preds
7466   7477  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase         := Climb   --Perf_Background_Dpkg.Pcfltphase
7467   7478  Perf_Background_Dpkg.Pcactorsec                           := Temporary
7468   7479  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode    := Cdk_Entry_Tpkg.Auto_Derate
7469   7480  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7470   7481  Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := False
7471   7482  Perf_Background_Dpkg.Pscrzalt.Valid                       := True
7472   7483  Perf_Dpkg.takeoff_gwt.valid                               := True
7473   7484
7474   7485  -- Reset Outputs
7475   7486  Perf_Background_Dpkg.Use_Clb_Autodrt                      := False
7476   7487
7477   7488  #define Call_Auto_Derated_Climb_Mode   := false
7478   7489  #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7479   7490  #define Call_Auto_Derated_Climb_Mode   := True
7480   7491  #go
7481   7492  #end
7482   7493
7483   7494  #define Call_Climb_Autodrt   := false
7484   7495  #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7485   7496  #define Call_Climb_Autodrt   := True
7486   7497  #go
7487   7498  #end
7488   7499
7489   7500  !run_test()
7490   7501
7491   7502  -- OUTPUTS
7492   7503  Perf_Background_Dpkg.Use_Clb_Autodrt                      = False
7493   7504  Call_Auto_Derated_Climb_Mode                             = True
7494   7505  Call_Climb_Autodrt                                       = False
7495   7506  ------------------------------------------------------------------------------------------------------------------
              » --
7496   7507  TESTID: 47
7497   7508  TC 47 verifies:
7498   7509  when Itinerary is Current_Mode_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7499  7510  the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
            » ht plan
7500  7511  is passed as input to the function.
7501  7512  also, In this case, condition (3) is not satisfied, Perf_Background_Dpkg.Pscrzalt.Valid is set to False.
7502  7513  so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
7503  7514
7504  7515  1) OPC Auto-Derate climb option activated set to True
7505  7516  2) Pilot selected Climb mode is Auto-Derate
7506  7517  3) Cruise altitude validity flag is set to True
7507  7518  4) Take-off gross weight validity flag is set to True
7508  7519  5) The A/C has not sequenced the initial TOC for Active Flight plan
7509  7520  PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7510  7521                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7511  7522  Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
7512  7523  PERF_SDD_07919 (PERF_SRD_12641)
7513  7524     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7514  7525     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            » 70_INT,
7515  7526                              PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7516  7527
7517  7528
7518  7529  -- INPUTS
7519  7530  Perf_Background_Dpkg.Flight_Plan_Type                     := Is_Active
7520  7531  Perf_Background_Dpkg.Pcitin.Itinerary                     := Current_Mode_Preds
7521  7532  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase        := Takeoff    --Perf_Background_Dpkg.Pcfltphase
7522  7533  Perf_Background_Dpkg.Pcactorsec                           := Active
7523  7534  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode    := Cdk_Entry_Tpkg.Auto_Derate
7524  7535  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7525  7536  Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
7526  7537
7527  7538  Perf_Dpkg.takeoff_gwt.valid                               := True
7528  7539
7529  7540  -- Reset Outputs
7530  7541  Perf_Background_Dpkg.Use_Clb_Autodrt                      := False
7531  7542
7532  7543  #define Call_Auto_Derated_Climb_Mode   := false
7533  7544  #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7534  7545  #define Call_Auto_Derated_Climb_Mode   := True
7535  7546  #Perf_Background_Dpkg.Pscrzalt.Valid   := False
7536  7547  #go
7537  7548  #end
7538  7549
7539  7550  #define Call_Climb_Autodrt   := false
7540  7551  #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7541  7552  #define Call_Climb_Autodrt   := True
7542  7553  #go
7543  7554  #end
7544  7555
7545  7556  !run_test()
7546  7557
7547  7558  -- OUTPUTS
7548  7559  Perf_Background_Dpkg.Use_Clb_Autodrt                           = False
7549  7560  Call_Auto_Derated_Climb_Mode                                  = True
7550  7561  Call_Climb_Autodrt                                            = False
7551  7562  -----------------------------------------------------------------------------------------------------------------
            » --
7552  7563  TESTID: 48
7553  7564  TC 48 verifies:
7554  7565  when Itinerary is Fuel_Plan_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
7555  7566  the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
            » ht plan
7556  7567  is passed as input to the function.
7557  7568  also, In this case, condition (4) is not satisfied, Perf_Dpkg.Takeoff_Gwt.Valid is set to False.
7558  7569  so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
7559  7570
7560  7571  1) OPC Auto-Derate climb option activated set to True
7561  7572  2) Pilot selected Climb mode is Auto-Derate
7562  7573  3) Cruise altitude validity flag is set to True
7563  7574  4) Take-off gross weight validity flag is set to True
7564  7575  5) The A/C has not sequenced the initial TOC for Active Flight plan
7565  7576  PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7566  7577                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7567  7578  Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
7568  7579  PERF_SDD_07919 (PERF_SRD_12641)
7569  7580     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7570  7581     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            » 70_INT,
7571  7582                                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7572  7583
7573  7584
7574  7585  -- INPUTS
7575  7586  Perf_Background_Dpkg.Flight_Plan_Type                         := Is_Active
7576  7587  Perf_Background_Dpkg.Pcitin.Itinerary                         := Fuel_Plan_Fpln_Preds
7577  7588  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase            := Takeoff   --Perf_Background_Dpkg.Pcfltphase
7578  7589  Perf_Background_Dpkg.Pcactorsec                               := Active
7579  7590  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode   := Cdk_Entry_Tpkg.Auto_Derate
7580  7591  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7581  7592  Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7582   7593  Perf_Background_Dpkg.Pscrzalt.Valid                        := True
7583   7594  Perf_Dpkg.takeoff_gwt.valid                               := False
7584   7595
7585   7596  -- Reset Outputs
7586   7597  Perf_Background_Dpkg.Use_Clb_Autodrt                       := False
7587   7598
7588   7599  #define Call_Auto_Derated_Climb_Mode   := false
7589   7600  #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7590   7601  #define Call_Auto_Derated_Climb_Mode   := True
7591   7602  #go
7592   7603  #end
7593   7604
7594   7605  #define Call_Climb_Autodrt   := false
7595   7606  #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7596   7607  #define Call_Climb_Autodrt   := True
7597   7608  #go
7598   7609  #end
7599   7610
7600   7611  !run_test()
7601   7612
7602   7613  -- OUTPUTS
7603   7614  Perf_Background_Dpkg.Use_Clb_Autodrt                       = False
7604   7615  Call_Auto_Derated_Climb_Mode                              = True
7605   7616  Call_Climb_Autodrt                                        = False
7606   7617  -------------------------------------------------------------------------------------------------
             » --
7607   7618  TESTID: 49
7608   7619  TC 49 verifies:
7609   7620  when Itinerary is Current_Mode_Hi_Pri and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
7610   7621  the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
             » ht plan
7611   7622  is passed as input to the function. Also, In this case, the following conditions are satisfied
7612   7623  (especially, the A/C has not sequenced the initial TOC for Active Flight plan )
7613   7624  so, Perf_Background_Dpkg.Use_Clb_Autodrt will be set to true.
7614   7625
7615   7626  1) OPC Auto-Derate climb option activated set to True
7616   7627  2) Pilot selected Climb mode is Auto-Derate
7617   7628  3) Cruise altitude validity flag is set to True
7618   7629  4) Take-off gross weight validity flag is set to True
7619   7630  5) The A/C has not sequenced the initial TOC for Active Flight plan
7620   7631  PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7621   7632                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7622   7633  Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true, so Perf_Int_Utils.Climb_Autodrt
7623   7634  will be called to compute the auto-derate outputs.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7624   7635 PERF_SDD_07919 (PERF_SRD_12641)
7625   7636    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7626   7637    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            » 70_INT,
7627   7638                               PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7628   7639
7629   7640
7630   7641 -- INPUTS
7631   7642 Perf_Background_Dpkg.Flight_Plan_Type                      := Is_Active
7632   7643 Perf_Background_Dpkg.Pcitin.Itinerary                      := Current_Mode_Hi_Pri
7633   7644 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase          := Takeoff   --Perf_Background_Dpkg.Pcfltphase
7634   7645 Perf_Background_Dpkg.Pcactorsec                            := Active
7635   7646 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode    := Cdk_Entry_Tpkg.Auto_Derate
7636   7647 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7637   7648 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
7638   7649 Perf_Background_Dpkg.Pscrzalt.Valid                        := True
7639   7650 Perf_Dpkg.takeoff_gwt.valid                                := True
7640   7651 Perf_Background_Dpkg.Psseqtoc                              := False
7641   7652
7642   7653 -- Reset Outputs
7643   7654 Perf_Background_Dpkg.Use_Clb_Autodrt                       := False
7644   7655
7645   7656 #define Call_Auto_Derated_Climb_Mode   := false
7646   7657 #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7647   7658 #define Call_Auto_Derated_Climb_Mode   := True
7648   7659 #go
7649   7660 #end
7650   7661
7651   7662 #define Call_Climb_Autodrt   := false
7652   7663 #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7653   7664 #define Call_Climb_Autodrt   := True
7654   7665 #go
7655   7666 #end
7656   7667
7657   7668 !run_test()
7658   7669
7659   7670 -- OUTPUTS
7660   7671 Perf_Background_Dpkg.Use_Clb_Autodrt                       = True
7661   7672 Call_Auto_Derated_Climb_Mode                               = True
7662   7673 Call_Climb_Autodrt                                         = True
7663   7674 -------------------------------------------------------------------------------------------------------------------
            » --
7664   7675 TESTID: 50
7665   7676 TC 50 verifies:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7666 | 7677 | when Itinerary is Prim_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
7667 | 7678 | the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
      |      | » ht plan
7668 | 7679 | is passed as input to the function.
7669 | 7680 | also, In this case, condition (5) is not satisfied, The A/C has sequenced the initial TOC for Active Flight plan
7670 | 7681 | (Perf_Background_Dpkg.Psseqtoc is true)
7671 | 7682 | so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
7672 | 7683 |
7673 | 7684 | 1) OPC Auto-Derate climb option activated set to True
7674 | 7685 | 2) Pilot selected Climb mode is Auto-Derate
7675 | 7686 | 3) Cruise altitude validity flag is set to True
7676 | 7687 | 4) Take-off gross weight validity flag is set to True
7677 | 7688 | 5) The A/C has not sequenced the initial TOC for Active Flight plan
7678 | 7689 | PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7679 | 7690 |                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7680 | 7691 | Perf_Background_Dpkg.Use_Clb_Autodrt flag is not set to true, so Perf_Int_Utils.Climb_Autodrt
7681 | 7692 | will not be called to compute the auto-derate outputs. Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
7682 | 7693 | PERF_SDD_07919 (PERF_SRD_12641)
7683 | 7694 |     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7684 | 7695 |     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
      |      | » 70_INT,
7685 | 7696 |                                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7686 | 7697 |
7687 | 7698 |
7688 | 7699 | -- INPUTS
7689 | 7700 | Perf_Background_Dpkg.Flight_Plan_Type                      := Is_Active
7690 | 7701 | Perf_Background_Dpkg.Pcitin.Itinerary                      := Prim_Fpln_Preds
7691 | 7702 | Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase         := Takeoff   --Perf_Background_Dpkg.Pcfltphase
7692 | 7703 | Perf_Background_Dpkg.Pcactorsec                            := Active
7693 | 7704 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode   := Cdk_Entry_Tpkg.Auto_Derate
7694 | 7705 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7695 | 7706 | Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable  := True
7696 | 7707 | Perf_Background_Dpkg.Pscrzalt.Valid                        := True
7697 | 7708 | Perf_Dpkg.takeoff_gwt.valid                                := True
7698 | 7709 | Perf_Background_Dpkg.Psseqtoc                              := True
7699 | 7710 |
7700 | 7711 | -- Reset Outputs
7701 | 7712 | Perf_Background_Dpkg.Use_Clb_Autodrt                       := True
7702 | 7713 | Perf_Background_Dpkg.Climb_Autodrt.Is_Valid               := True
7703 | 7714 |
7704 | 7715 | #define Call_Auto_Derated_Climb_Mode   := false
7705 | 7716 | #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7706 | 7717 | #define Call_Auto_Derated_Climb_Mode   := True
7707 | 7718 | #go
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7708 | 7719 | #end
7709 | 7720 |
7710 | 7721 | #define Call_Climb_Autodrt   := false
7711 | 7722 | #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7712 | 7723 | #define Call_Climb_Autodrt   := True
7713 | 7724 | #go
7714 | 7725 | #end
7715 | 7726 |
7716 | 7727 | !run_test()
7717 | 7728 |
7718 | 7729 | -- OUTPUTS
7719 | 7730 | Perf_Background_Dpkg.Use_Clb_Autodrt                       = False
7720 | 7731 | Call_Auto_Derated_Climb_Mode                              = True
7721 | 7732 | Call_Climb_Autodrt                                        = False
7722 | 7733 | Perf_Background_Dpkg.Climb_Autodrt.Is_Valid               = False
7723 | 7734 | ----------------------------------------------------------------------------------------------------------------
      |      | » --
7724 | 7735 |
7725 | 7736 | TESTID: 51
7726 | 7737 | TC 51 verifies when current itinerary is Fuel_Plan_Stage2, and the A/C is in Takeoff, FM will not Compute Climb Auto D
      |      | » erate.
7727 | 7738 | Perf_Background_Dpkg.Use_Clb_Autodrt flag is not set to true, so Perf_Int_Utils.Climb_Autodrt
7728 | 7739 | will not be called to compute the auto-derate outputs.
7729 | 7740 |
7730 | 7741 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7731 | 7742 |    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
      |      | » 70_INT,
7732 | 7743 |                          PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7733 | 7744 |
7734 | 7745 |
7735 | 7746 | -- INPUTS
7736 | 7747 | Perf_Background_Dpkg.Flight_Plan_Type                     := Is_Active
7737 | 7748 | Perf_Background_Dpkg.Pcitin.Itinerary                     := Fuel_Plan_Stage2
7738 | 7749 | Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase        := Takeoff   --Perf_Background_Dpkg.Pcfltphase
7739 | 7750 | Perf_Background_Dpkg.Pcactorsec                          := Active
7740 | 7751 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode   := Cdk_Entry_Tpkg.Auto_Derate
7741 | 7752 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode := Cdk_Entry_Tpkg.Clb
7742 | 7753 | Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable := True
7743 | 7754 | Perf_Background_Dpkg.Pscrzalt.Valid                      := True
7744 | 7755 | Perf_Dpkg.takeoff_gwt.valid                              := True
7745 | 7756 | Perf_Background_Dpkg.Psseqtoc                            := True
7746 | 7757 |
7747 | 7758 | -- Reset Outputs
7748 | 7759 | Perf_Background_Dpkg.Use_Clb_Autodrt                     := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7749   7760
7750   7761  #define Call_Auto_Derated_Climb_Mode   := false
7751   7762  #sba Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode after_elab begin
7752   7763  #define Call_Auto_Derated_Climb_Mode   := True
7753   7764  #go
7754   7765  #end
7755   7766
7756   7767  #define Call_Climb_Autodrt   := false
7757   7768  #sba Prf_Int_Utils.Climb_Autodrt after_elab begin
7758   7769  #define Call_Climb_Autodrt   := True
7759   7770  #go
7760   7771  #end
7761   7772
7762   7773  !run_test()
7763   7774
7764   7775  -- OUTPUTS
7765   7776  Perf_Background_Dpkg.Use_Clb_Autodrt                              = False
7766   7777  Call_Auto_Derated_Climb_Mode                                     = False
7767   7778  Call_Climb_Autodrt                                               = False
7768   7779  -------------------------------------------------------------------------------------------------
              » --
7769   7780  TESTID: 52
7770   7781
7771   7782     And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+
              » 10 speed.
7772   7783     If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited
              »  target speed
7773   7784     shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t
              » ype.
7774   7785     Here set VG CAS is large than V2+10 and flight phase is Preflight, previous CAS/Mach speed indicator is CAS.
7775   7786       PERF_SDD_3053_INT
7776   7787
7777   7788
7778   7789  -- INPUTS
7779   7790  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
7780   7791  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
7781   7792  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
7782   7793  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
7783   7794  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
7784   7795  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid := True
7785   7796  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data := True
7786   7797  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data  := True
7787   7798  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data   := True
7788   7799  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7789 | 7800 | Perf_Dpkg.Min_Gwt := 100.0
7790 | 7801 | Perf_Dpkg.Max_Gwt := 400.0
7791 | 7802 | Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
7792 | 7803 | Perf_Background_Dpkg.Psignorehm := True
7793 | 7804 | Perf_Background_Dpkg.Pcfltphase := Preflight
7794 | 7805 | Perf_Background_Dpkg.Ats_Enable := True
7795 | 7806 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Preflight
7796 | 7807 | Perf_Background_Dpkg.Psacalt := 10000.0
7797 | 7808 | Perf_Database_Dpkg.Psmmo := 0.45
7798 | 7809 | Perf_Background_Dpkg.Pszfw := 300.0
7799 | 7810 | Perf_Background_Dpkg.Psblockfuel := 50.0
7800 | 7811 | Perf_Background_Dpkg.Pstaxifuel := 25.0
7801 | 7812 | Perf_Background_Dpkg.Psairborne := True
7802 | 7813 | Perf_Background_Dpkg.Psautolat := False
7803 | 7814 | Guid_Ext_Dpkg.Gcxxlatautoc := False
7804 | 7815 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
7805 | 7816 | Perf_Background_Dpkg.Psengout := False
7806 | 7817 | Cdk_Vert_Dpkg:Body.Engine_Out_I := True
7807 | 7818 | Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
7808 | 7819 | Perf_Dpkg.Repredict_Hm_Decel := True
7809 | 7820 | Perf_Background_DPkg.Pshmdecel := True
7810 | 7821 | Perf_Background_Dpkg.Pcholdflags.Hmactive := True
7811 | 7822 | Perf_Ads_Dpkg.Fi_Enabled := False
7812 | 7823 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
7813 | 7824 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
7814 | 7825 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
7815 | 7826 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
7816 | 7827 | Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
7817 | 7828 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
7818 | 7829 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
7819 | 7830 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
7820 | 7831 | Perf_Background_Dpkg.Psappspdlat := True
7821 | 7832 | Perf_Dpkg.Pcengoutprds := Altpln
7822 | 7833 | Guid_Ext_Dpkg.Va3lcautoctl := True
7823 | 7834 | Perf_Background_Dpkg.Psvgonpath := False
7824 | 7835 | Perf_Background_Dpkg.Pcpathref := Onpath
7825 | 7836 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmspd
7826 | 7837 | Perf_Background_DPkg.Pscurcas := 5.0
7827 | 7838 | Perf_Background_DPkg.Pscurmach := 5.0
7828 | 7839 | Perf_Background_DPkg.Pscurtas := 5.0
7829 | 7840 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := True
7830 | 7841 | Perf_Background_Dpkg.Pstogwtval := False
7831 | 7842 | Perf_Background_Dpkg.Pstogwt := 50.0
7832 | 7843 | Perf_Background_Dpkg.Pcgwind := Invalid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7833  7844  Perf_Background_Dpkg.Psgw := 0.0
7834  7845  Perf_Dpkg.Gross_Weight.Status := Valid
7835  7846  Perf_Dpkg.Gross_Weight.Data := 150.0
7836  7847  Perf_Integration_DPkg.Pcairbrakes := Fullab
7837  7848  Perf_Background_Dpkg.Pcacconfig := 5
7838  7849  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := False
7839  7850  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
7840  7851  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
7841  7852  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
7842  7853  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
7843  7854  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
7844  7855  Perf_Background_Dpkg.Psstpclbact := True
7845  7856  Perf_Background_Dpkg.Psstpdesact := True
7846  7857  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
7847  7858  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
7848  7859  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
7849  7860  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
7850  7861  Perf_Background_Dpkg.Pccuraltcstr.Valid := True
7851  7862  Perf_Background_Dpkg.Pcprebcalt.Valid := True
7852  7863  Perf_Background_Dpkg.Pcgmttime.Hour := 1
7853  7864  Perf_Background_Dpkg.Pcgmttime.Minute := 1
7854  7865  Perf_Background_Dpkg.Pcgmttime.Second := 1
7855  7866  Perf_Background_Dpkg.Psinertvs := 5.0
7856  7867  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
7857  7868  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
7858  7869  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
7859  7870  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
7860  7871  Perf_Ads_Dpkg.Pr_Enabled := False
7861  7872  ATC_DISCRETES_PKG:body.Adson_Flag := False
7862  7873  Perf_Integration_Dpkg.Psoldnoentgt := 1.0
7863  7874  Perf_Background_Dpkg.Pcoldcasmchi := Fmcs_Base_Types.Mach
7864  7875  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID := true
7865  7876  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET := true
7866  7877  ^Noise_End_Alt_Status := Takeoff_Alt_Types.Active
7867  7878  ^Noise_Speed_Val := True
7868  7879  Perf_Background_Dpkg.Pcitin.Itinerary := Fuel_Plan_Fpln_Preds
7869  7880  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
7870  7881  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
7871  7882  Perf_Background_Dpkg.Psv2plus10                  := -1.0
7872  7883  #sba prf_bkgnd_pkg.get_bk_Data after_elaboration
7873  7884  # go
7874  7885  Perf_Dpkg.takeoff_gwt.valid := True
7875  7886  Perf_Dpkg.takeoff_gwt.data := 400.0
7876  7887  #DELB/ALL
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7877   7888
7878   7889 !run_test()
7879   7890
7880   7891 -- OUTPUTS
7881   7892 Perf_Integration_Dpkg.Psoldnoentgt = 0.0
7882   7893 Perf_Background_Dpkg.Pcoldcasmchi = Cas
7883   7894 ---------------------------------------------------------------------------------------------
           » --
7884   7895 TESTID: 53
7885   7896
7886   7897 When following conditions are met:
7887   7898 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
7888   7899 2. the descent speed limit is latched
7889   7900 3. the flight plan is Temporary,
7890   7901 4. the flight phase is descent
7891   7902 then the following shall be done:
7892   7903 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
7893   7904 ii) If the DES SPD LIM Perf leg is Included, then
7894   7905 If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
7895   7906  Optimum Descent CAS is set to the VG Partially-Limited CAS
7896   7907 Otherwise,
7897   7908 Optimum Descent CAS is set to the DES SPD LIM speed.
7898   7909
7899   7910 Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is not Included, Perf_Buffer.Getperfleg procedure will be call
           » ed and
7900   7911 Optimum Descent CAS will not be set.
7901   7912 PERF_SDD_08158_INT
7902   7913
7903   7914     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
7904   7915
7905   7916     SUPPORTING REQUIREMENTS : N/A
7906   7917
7907   7918
7908   7919 -- INPUTS
7909   7920 Perf_Background_Dpkg.Flight_Plan_Type                := Is_Active
7910   7921 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase   := Descent
7911   7922 Perf_Background_Dpkg.Pcfltphase                      := Descent
7912   7923 Perf_Background_Dpkg.Psairborne                      := False
7913   7924 Guid_Spds_Dpkg.Vc3prtlimcas                          := 0.0
7914   7925
7915   7926 Perf_Background_Dpkg.Pcactorsec                      := Temporary
7916   7927 Perf_Background_Dpkg.Psdeslimspdchg                  := True
7917   7928 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim    := True
7918   7929
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7919  7930  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists        := False
7920  7931  Perf_Dpkg.Psfrstactprd                                 := False
7921  7932  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := False
7922  7933  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included   := False
7923  7934
7924  7935  Perf_Background_Dpkg.Pcitin.Flight_Plan                := Temporary
7925  7936  Perf_Background_Dpkg.Pcitin.Itinerary                  := Prim_Fpln_Preds
7926  7937  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE     := False
7927  7938  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
7928  7939
7929  7940  !run_test()
7930  7941
7931  7942  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  0.0
7932  7943  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE     = True
7933  7944
7934  7945  ------------------------------------------------------------------------------------
7935  7946
7936  7947  TESTID: 54
7937  7948
7938  7949  When following conditions are met:
7939  7950  1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
7940  7951  2. the descent speed limit is latched
7941  7952  3. the flight plan is Temporary,
7942  7953  4. the flight phase is descent
7943  7954  then the following shall be done:
7944  7955  i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
7945  7956  ii) If the DES SPD LIM Perf leg is Included, then
7946  7957  If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
7947  7958   Optimum Descent CAS is set to the VG Partially-Limited CAS
7948  7959  Otherwise,
7949  7960  Optimum Descent CAS is set to the DES SPD LIM speed.
7950  7961
7951  7962  Here conditon 1 is not satisfied, Perf_Buffer.Getperfleg procedure will not be called and
7952  7963  Optimum Descent CAS will not be set.
7953  7964  PERF_SDD_08158_INT
7954  7965
7955  7966  When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
            »  set to False.
7956  7967  1. First Preds After Insert Temporary indication is True or
7957  7968  2. The descent speed limit has not been latched or
7958  7969  3. The temporary flight plan does not exist.
7959  7970
7960  7971  Here verify condition (the flag Psdeslimspdchg is set) is not satisfied, Psdeslimspdchg will not be set.
7961  7972  PERF_SDD_08159_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
7962  7973
7963  7974     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT, PERF_SDD_08159_INT
7964  7975
7965  7976     SUPPORTING REQUIREMENTS : N/A
7966  7977
7967  7978
7968  7979  -- INPUTS
7969  7980  Perf_Background_Dpkg.Flight_Plan_Type                := Is_Active
7970  7981  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase   := Descent
7971  7982  Perf_Background_Dpkg.Pcfltphase                     := Descent
7972  7983  Perf_Background_Dpkg.Psairborne                     := False
7973  7984  Guid_Spds_Dpkg.Vc3prtlimcas                        := 0.0
7974  7985
7975  7986  Perf_Background_Dpkg.Pcactorsec                     := Temporary
7976  7987  Perf_Background_Dpkg.Psdeslimspdchg                 := False
7977  7988  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim   := True
7978  7989
7979  7990  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists    := False
7980  7991  Perf_Dpkg.Psfrstactprd                             := False
7981  7992  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                    := False
7982  7993  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included  := False
7983  7994
7984  7995  Perf_Background_Dpkg.Pcitin.Flight_Plan            := Temporary
7985  7996  Perf_Background_Dpkg.Pcitin.Itinerary              := Prim_Fpln_Preds
7986  7997  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE := False
7987  7998  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas          := 0.0
7988  7999
7989  8000  !run_test()
7990  8001
7991  8002  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas          =  0.0
7992  8003  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE = False
7993  8004  Perf_Background_Dpkg.Psdeslimspdchg                 = False
7994  8005  -------------------------------------------------------------------------------
7995  8006
7996  8007  TESTID: 55
7997  8008
7998  8009  When following conditions are met:
7999  8010  1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
8000  8011  2. the descent speed limit is latched
8001  8012  3. the flight plan is Temporary,
8002  8013  4. the flight phase is descent
8003  8014  then the following shall be done:
8004  8015  i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
8005  8016  ii) If the DES SPD LIM Perf leg is Included, then
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8006   8017 | If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
8007   8018 |  Optimum Descent CAS is set to the VG Partially-Limited CAS
8008   8019 | Otherwise,
8009   8020 |  Optimum Descent CAS is set to the DES SPD LIM speed.
8010   8021 |
8011   8022 | Here conditon 2 is not satisfied, Perf_Buffer.Getperfleg procedure will not be called and
8012   8023 | Optimum Descent CAS will not be set.
8013   8024 | PERF_SDD_08158_INT
8014   8025 |
8015   8026 | When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
              » set to False.
8016   8027 | 1. First Preds After Insert Temporary indication is True or
8017   8028 | 2. The descent speed limit has not been latched or
8018   8029 | 3. The temporary flight plan does not exist.
8019   8030 |
8020   8031 | Here verify condition 2 (descent speed limit has not been latched) is  satisfied, Psdeslimspdchg will  be set to False
              » .
8021   8032 | PERF_SDD_08159_INT
8022   8033 |
8023   8034 |     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT, PERF_SDD_08159_INT
8024   8035 |
8025   8036 |     SUPPORTING REQUIREMENTS : N/A
8026   8037 |
8027   8038 |
8028   8039 | -- INPUTS
8029   8040 | Perf_Background_Dpkg.Flight_Plan_Type              := Is_Active
8030   8041 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
8031   8042 | Perf_Background_Dpkg.Pcfltphase                    := Descent
8032   8043 | Perf_Background_Dpkg.Psairborne                    := False
8033   8044 | Guid_Spds_Dpkg.Vc3prtlimcas                        := 0.0
8034   8045 |
8035   8046 | Perf_Background_Dpkg.Pcactorsec                    := Temporary
8036   8047 | Perf_Background_Dpkg.Psdeslimspdchg                := True
8037   8048 | Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim  := False
8038   8049 |
8039   8050 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists   := True
8040   8051 | Perf_Dpkg.Psfrstactprd                             := False
8041   8052 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds                   := False
8042   8053 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included := False
8043   8054 |
8044   8055 | Perf_Background_Dpkg.Pcitin.Flight_Plan            := Temporary
8045   8056 | Perf_Background_Dpkg.Pcitin.Itinerary              := Prim_Fpln_Preds
8046   8057 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE := False
8047   8058 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas          := 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8048   8059
8049   8060  !run_test()
8050   8061
8051   8062  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  0.0
8052   8063  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE    = False
8053   8064  Perf_Background_Dpkg.Psdeslimspdchg                    = False
8054   8065  ---------------------------------------------------------------------------------
8055   8066
8056   8067  TESTID: 56
8057   8068
8058   8069  When following conditions are met:
8059   8070  1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
8060   8071  2. the descent speed limit is latched
8061   8072  3. the flight plan is Temporary,
8062   8073  4. the flight phase is descent
8063   8074  then the following shall be done:
8064   8075  i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
8065   8076  ii) If the DES SPD LIM Perf leg is Included, then
8066   8077  If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
8067   8078    Optimum Descent CAS is set to the VG Partially-Limited CAS
8068   8079  Otherwise,
8069   8080    Optimum Descent CAS is set to the DES SPD LIM speed.
8070   8081
8071   8082  Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is zero,
8072   8083  Perf_Buffer.Getperfleg procedure will be called and Optimum Descent CAS will be set to DES SPD LIM speed.
8073   8084  PERF_SDD_08158_INT
8074   8085
8075   8086     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
8076   8087
8077   8088     SUPPORTING REQUIREMENTS : N/A
8078   8089
8079   8090
8080   8091  -- INPUTS
8081   8092  Perf_Background_Dpkg.Flight_Plan_Type                 := Is_Active
8082   8093  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase     := Descent
8083   8094  Perf_Background_Dpkg.Pcfltphase                       := Descent
8084   8095  Perf_Background_Dpkg.Psairborne                       := False
8085   8096  Guid_Spds_Dpkg.Vc3prtlimcas                          := 0.0
8086   8097
8087   8098  Perf_Background_Dpkg.Pcactorsec                       := Temporary
8088   8099  Perf_Background_Dpkg.Psdeslimspdchg                   := True
8089   8100  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim     := True
8090   8101
8091   8102  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists      := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8092   8103  Perf_Dpkg.Psfrstactprd                                    := False
8093   8104  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                           := False
8094   8105  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included      := True
8095   8106  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd           := 160.0
8096   8107  Perf_Background_Dpkg.Pcpredcount(Temporary)               := 1
8097   8108
8098   8109  Perf_Background_Dpkg.Pcitin.Flight_Plan                   := Temporary
8099   8110  Perf_Background_Dpkg.Pcitin.Itinerary                     := Prim_Fpln_Preds
8100   8111  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE        := False
8101   8112  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                 := 0.0
8102   8113
8103   8114  !run_test()
8104   8115
8105   8116  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                 =  160.0
8106   8117  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE        = True
8107   8118  --------------------------------------------------------------------------------
8108   8119
8109   8120  TESTID: 57
8110   8121
8111   8122  When following conditions are met:
8112   8123  1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
8113   8124  2. the descent speed limit is latched
8114   8125  3. the flight plan is Temporary,
8115   8126  4. the flight phase is descent
8116   8127  then the following shall be done:
8117   8128  i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
8118   8129  ii) If the DES SPD LIM Perf leg is Included, then
8119   8130   If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
8120   8131   Optimum Descent CAS is set to the VG Partially-Limited CAS
8121   8132   Otherwise,
8122   8133   Optimum Descent CAS is set to the DES SPD LIM speed.
8123   8134
8124   8135  Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is not zero, and
8125   8136  the predictions count is less than or equal to one, verify Perf_Buffer.Getperfleg procedure will be called and
8126   8137  Optimum Descent CAS will be set to the VG Partially-Limited CAS
8127   8138  PERF_SDD_08158_INT
8128   8139
8129   8140      REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
8130   8141
8131   8142      SUPPORTING REQUIREMENTS : N/A
8132   8143
8133   8144
8134   8145  -- INPUTS
8135   8146  Perf_Background_Dpkg.Flight_Plan_Type                     := Is_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8136  8147 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase      := Descent
8137  8148 Perf_Background_Dpkg.Pcfltphase                        := Descent
8138  8149 Perf_Background_Dpkg.Psairborne                        := False
8139  8150 Guid_Spds_Dpkg.Vc3prtlimcas                            := 1.0
8140  8151
8141  8152 Perf_Background_Dpkg.Pcactorsec                        := Temporary
8142  8153 Perf_Background_Dpkg.Psdeslimspdchg                    := True
8143  8154 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim       := True
8144  8155
8145  8156 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists        := False
8146  8157 Perf_Dpkg.Psfrstactprd                                 := False
8147  8158 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := False
8148  8159 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included   := True
8149  8160 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd        := 160.0
8150  8161 Perf_Background_Dpkg.Pcpredcount(Temporary)            := 1
8151  8162 Perf_Background_Dpkg.Psautolat                         := True
8152  8163 Perf_Background_Dpkg.Psappspdlat                       := False
8153  8164 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply        := False
8154  8165
8155  8166 Perf_Background_Dpkg.Pcitin.Flight_Plan                := Temporary
8156  8167 Perf_Background_Dpkg.Pcitin.Itinerary                  := Prim_Fpln_Preds
8157  8168 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE     := False
8158  8169 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
8159  8170
8160  8171 !run_test()
8161  8172
8162  8173 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  1.0
8163  8174 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE     = True
8164  8175 -------------------------------------------------------------------------------
8165  8176
8166  8177 TESTID: 58
8167  8178
8168  8179 When following conditions are met:
8169  8180 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
8170  8181 2. the descent speed limit is latched
8171  8182 3. the flight plan is Temporary,
8172  8183 4. the flight phase is descent
8173  8184 then the following shall be done:
8174  8185 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
8175  8186 ii) If the DES SPD LIM Perf leg is Included, then
8176  8187  If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
8177  8188  Optimum Descent CAS is set to the VG Partially-Limited CAS
8178  8189  Otherwise,
8179  8190  Optimum Descent CAS is set to the DES SPD LIM speed.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8180   8191
8181   8192 Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is not zero, and
8182   8193 the predictions count is larger than to one, verify Perf_Buffer.Getperfleg procedure will be called and
8183   8194 Optimum Descent CAS will be set to DES SPD LIM speed.
8184   8195 PERF_SDD_08158_INT
8185   8196
8186   8197     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
8187   8198
8188   8199     SUPPORTING REQUIREMENTS : N/A
8189   8200
8190   8201
8191   8202 -- INPUTS
8192   8203 Perf_Background_Dpkg.Flight_Plan_Type                := Is_Active
8193   8204 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase   := Descent
8194   8205 Perf_Background_Dpkg.Pcfltphase                      := Descent
8195   8206 Perf_Background_Dpkg.Psairborne                      := False
8196   8207 Guid_Spds_Dpkg.Vc3prtlimcas                          := 1.0
8197   8208
8198   8209 Perf_Background_Dpkg.Pcactorsec                      := Temporary
8199   8210 Perf_Background_Dpkg.Psdeslimspdchg                  := True
8200   8211 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim    := True
8201   8212
8202   8213 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists     := False
8203   8214 Perf_Dpkg.Psfrstactprd                               := False
8204   8215 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                     := False
8205   8216 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included := True
8206   8217 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd     := 160.0
8207   8218 Perf_Background_Dpkg.Pcpredcount(Temporary)          := 3
8208   8219 Perf_Background_Dpkg.Psautolat                       := True
8209   8220 Perf_Background_Dpkg.Psappspdlat                     := False
8210   8221 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply     := False
8211   8222
8212   8223 Perf_Background_Dpkg.Pcitin.Flight_Plan              := Temporary
8213   8224 Perf_Background_Dpkg.Pcitin.Itinerary                := Prim_Fpln_Preds
8214   8225 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE  := False
8215   8226 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas            := 0.0
8216   8227
8217   8228 !run_test()
8218   8229
8219   8230 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas            = 160.0
8220   8231 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE  = True
8221   8232
8222   8233 ----------------------------------------------------------------------------------------
8223   8234 TESTID: 59
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8224  8235      If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
              » s are on,
8225  8236      the aircraft gross weight shall be set to any one of the following:
8226  8237      - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
              » craft
8227  8238       gross weight and Take Off gross weight being valid
8228  8239      - Aircraft GW from the Performance Weights function,  if the flight phase is other
8229  8240       than takeoff or before, or the aircraft gross weight or the Take Off gross weight
8230  8241       being invalid
8231  8242      The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
8232  8243      PERF_SDD_07501_INT
8233  8244      --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is Secondary,engines
              »  are on,
8234  8245      --the flight phase is Preflight,and the aircraftgross weight and Take Off gross weight being valid
8235  8246      --then Aircraft Takeoff GW from the Performance Weights function
8236  8247
8237  8248      If the current itinerary is neither Current Mode Predictions (Normal or High priority)
8238  8249      nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
8239  8250      PERF_SDD_07506(PERF_SRD_6192)
8240  8251      --in this test case, the current itinerary is Pred_To_Alt_Preds
8241  8252      Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
8242  8253      are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
              » d to FL250.
8243  8254      PERF_SDD_07543_INT
8244  8255      --in this test case, only Guid_Spds_Dpkg.Vc3curspds.Mach.Data  leaa than the lower limits, the other are satisfied
8245  8256      REQUIREMENTS UNDER EVALUATION : PERF_SDD_07506(PERF_SRD_6192),
8246  8257                                       PERF_SDD_07543_INT,PERF_SDD_07501_INT
8247  8258      SUPPORTING REQUIREMENTS : N/A
8248  8259
8249  8260
8250  8261  --INPUTS
8251  8262  Perf_Dpkg.Min_Gwt := 100.0
8252  8263  Perf_Dpkg.Max_Gwt := 400.0
8253  8264  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8254  8265  Perf_Background_Dpkg.Pcitin.Itinerary := Pred_To_Alt_Preds
8255  8266  Perf_Background_Dpkg.Pcactorsec := Secondary
8256  8267  Perf_Dpkg.Pcfirstpred(Secondary) := false
8257  8268  Perf_Background_Dpkg.Psenginesoff := False
8258  8269  Perf_Background_Dpkg.Pcgwind := Valid
8259  8270  Perf_Dpkg.Gross_Weight.Status := Valid
8260  8271  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
8261  8272  Guid_Ext_Dpkg.Va3vertmde := Perf_Ext_Tpkg.Vmspd
8262  8273  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase        := Preflight
8263  8274  Perf_Background_Dpkg.Pstogwtval := true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

8264	8275	Perf_Background_Dpkg.Psairborne := false
8265	8276	Guid_Spds_Dpkg.Vc3curspds.Cas.Valid := true
8266	8277	Guid_Spds_Dpkg.Vc3curspds.Cas.Data := 10.01
8267	8278	Guid_Spds_Dpkg.Vc3curspds.Mach.Valid := true
8268	8279	Guid_Spds_Dpkg.Vc3curspds.Mach.Data := 0.009
8269	8280	Perf_Background_Dpkg.Pcvertmode := Perf_Int_Base_Tpkg.Openclb
8270	8281	Perf_Dpkg.Takeoff_Gwt.Valid := true
8271	8282	Perf_Dpkg.Takeoff_Gwt.Data := 90.0
8272	8283	Perf_Background_Dpkg.Psgw := 0.0
8273	8284	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := false
8274	8285	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude := True
8275	8286	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach := true
8276	8287	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas := True
8277	8288	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas := True
8278	8289	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude := -2001
8279	8290	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=
		» true
8280	8291	CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt :=25001.0
8281	8292	Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt := 25001.1
8282	8293	
8283	8294	--this breakpiont is set to verify the GWT of PERF_SDD_07501_INT
8284		#sba prf_bkgnd_pkg.get_bk_Data #889
	8295	#sba prf_bkgnd_pkg.get_bk_Data #896
8285	8296	#go
8286	8297	Perf_Background_Dpkg.Psgw = 90.0
8287	8298	--this breakpiont is set to verify PERF_SDD_07543_INT
8288		#sba prf_bkgnd_pkg.get_bk_Data #1227
	8299	#sba prf_bkgnd_pkg.get_bk_Data #1234
8289	8300	#go
8290	8301	Curcas = 0.0
8291	8302	Curmach = 0.0
8292	8303	Xoveralt = 25000.0
8293	8304	
8294	8305	!run_test()
8295	8306	Perf_Background_Dpkg.Pcvertmode /= Perf_Int_Base_Tpkg.Econo
8296	8307	Perf_Background_Dpkg.Psgw =100.0
8297	8308	---
		» -
8298	8309	TESTID: 60
8299	8310	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
		» s are on,
8300	8311	the aircraft gross weight shall be set to any one of the following:
8301	8312	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
		» craft

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8302   8313      gross weight and Take Off gross weight being valid
8303   8314     - Aircraft GW from the Performance Weights function,  if the flight phase is other
8304   8315      than takeoff or before, or the aircraft gross weight or the Take Off gross weight
8305   8316      being invalid
8306   8317     The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
8307   8318     PERF_SDD_07501_INT
8308   8319     --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar
               » e off,
8309   8320     --the flight phase is Preflight,Take Off gross weight is valid, but the aircraft gross weightis invalid ,then Airc
               » raft GW
8310   8321     --from the Performance Weights function.
8311   8322     Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
8312   8323     are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
               » d to FL250.
8313   8324     PERF_SDD_07543_INT
8314   8325     --In this test case, only Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid is False
8315   8326     --as Flifht phase is Take off also test the negative case of PERF_SDD_07540 and PERF_SDD_08227_INT
8316   8327     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT
8317   8328     SUPPORTING REQUIREMENTS : N/A
8318   8329
8319   8330
8320   8331   --INPUTS
8321   8332   Perf_Dpkg.Min_Gwt := 100.0
8322   8333   Perf_Dpkg.Max_Gwt := 400.0
8323   8334   Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8324   8335   Perf_Background_Dpkg.Pcitin.Itinerary := Pred_To_Alt_Preds
8325   8336   Perf_Background_Dpkg.Pcactorsec := Active
8326   8337   Perf_Dpkg.Pcfirstpred(Active) := false
8327   8338   Perf_Background_Dpkg.Psenginesoff := True
8328   8339   Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := true
8329   8340   Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
8330   8341   Guid_Ext_Dpkg.Va3vertmde := Perf_Ext_Tpkg.Vmspd
8331   8342   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase        := Preflight
8332   8343   Perf_Background_Dpkg.Pcgwind := Invalid
8333   8344   Perf_Background_Dpkg.Pstogwtval := true
8334   8345   Perf_Background_Dpkg.Psairborne := false
8335   8346   Guid_Spds_Dpkg.Vc3curspds.Cas.Valid := true
8336   8347   Guid_Spds_Dpkg.Vc3curspds.Cas.Data := 10.01
8337   8348   Guid_Spds_Dpkg.Vc3curspds.Mach.Valid := false
8338   8349   Guid_Spds_Dpkg.Vc3curspds.Mach.Data := 0.011
8339   8350   Perf_Background_Dpkg.Pcvertmode := Perf_Int_Base_Tpkg.Openclb
8340   8351   Perf_Dpkg.Gross_Weight.Status := Invalid
8341   8352   Perf_Dpkg.Takeoff_Gwt.Valid := True
8342   8353   Perf_Dpkg.Takeoff_Gwt.Data := 90.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

8343	8354	`Perf_Dpkg.Gross_Weight.Data := 150.0`
8344	8355	`Perf_Background_Dpkg.Psgw := 0.0`
8345	8356	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected :=`
		`» false`
8346	8357	`CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt   :=25001.0`
8347	8358	`Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt := 25001.1`
8348	8359	
8349	8360	`--this breakpiont is set to verify PERF_SDD_07543_INT`
8350		`#sba prf_bkgnd_pkg.get_bk_Data #1227`
	8361	`#sba prf_bkgnd_pkg.get_bk_Data #1234`
8351	8362	`#go`
8352	8363	`Curcas  = 0.0`
8353	8364	`Curmach = 0.0`
8354	8365	`Xoveralt = 25000.0`
8355	8366	
8356	8367	`!run_test()`
8357	8368	`Perf_Background_Dpkg.Psgw = 150.0`
8358	8369	
8359	8370	`--------------------------------------------------------------------------------`
8360	8371	`TESTID: 61`
8361	8372	`    If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine`
		`» s are on,`
8362	8373	`    the aircraft gross weight shall be set to any one of the following:`
8363	8374	`   - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air`
		`» craft`
8364	8375	`     gross weight and Take Off gross weight being valid`
8365	8376	`   - Aircraft GW from the Performance Weights function,  if the flight phase is other`
8366	8377	`     than takeoff or before, or the aircraft gross weight or the Take Off gross weight`
8367	8378	`     being invalid`
8368	8379	`    The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.`
8369	8380	`    PERF_SDD_07501_INT`
8370	8381	`    --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar`
		`» e off,`
8371	8382	`    --the flight phase is Preflight,the aircraft gross weightis is valid, but the Take Off gross weight invalid ,then`
		`» Aircraft GW`
8372	8383	`    --from the Performance Weights function.`
8373	8384	`    Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and`
8374	8385	`    are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte`
		`» d to FL250.`
8375	8386	`    PERF_SDD_07543_INT`
8376	8387	`    --in this test case, only Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid is false, the other are satisfied`
8377	8388	`    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT,PERF_SDD_07543_INT`
8378	8389	`    SUPPORTING REQUIREMENTS : N/A`
8379	8390	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8380   8391
8381   8392  --INPUTS
8382   8393  Perf_Dpkg.Min_Gwt := 100.0
8383   8394  Perf_Dpkg.Max_Gwt := 400.0
8384   8395  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8385   8396  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
8386   8397  ATC_DISCRETES_PKG:body.Adson_Flag := True
8387   8398  Perf_Ads_Dpkg.Fi_Enabled := True
8388   8399  Guid_Ext_Dpkg.Gcxxlatautoc := False
8389   8400  Perf_Background_Dpkg.Ats_Enable := True
8390   8401  Perf_Background_Dpkg.Pcactorsec := Active
8391   8402  Perf_Dpkg.Pcfirstpred(Active) := false
8392   8403  Perf_Background_Dpkg.Psenginesoff := True
8393   8404  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off := true
8394   8405  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
8395   8406  Guid_Ext_Dpkg.Va3vertmde := Perf_Ext_Tpkg.Vmspd
8396   8407  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase      := Preflight
8397   8408  Perf_Background_Dpkg.Pcgwind := valid
8398   8409  Perf_Background_Dpkg.Pstogwtval := false
8399   8410  Perf_Background_Dpkg.Psairborne := false
8400   8411  Guid_Spds_Dpkg.Vc3curspds.Cas.Valid := false
8401   8412  Guid_Spds_Dpkg.Vc3curspds.Cas.Data := 10.01
8402   8413  Guid_Spds_Dpkg.Vc3curspds.Mach.Valid := true
8403   8414  Guid_Spds_Dpkg.Vc3curspds.Mach.Data := 0.011
8404   8415  Perf_Background_Dpkg.Pcvertmode := Perf_Int_Base_Tpkg.Openclb
8405   8416  Perf_Dpkg.Gross_Weight.Status := valid
8406   8417  Perf_Dpkg.Takeoff_Gwt.Valid := false
8407   8418  Perf_Dpkg.Takeoff_Gwt.Data := 90.0
8408   8419  Perf_Dpkg.Gross_Weight.Data := 150.0
8409   8420  Perf_Background_Dpkg.Psgw := 0.0
8410   8421  --this breakpiont is set to verify PERF_SDD_07543_INT
8411         #sba prf_bkgnd_pkg.get_bk_Data #1227
       8422  #sba prf_bkgnd_pkg.get_bk_Data #1234
8412   8423  #go
8413   8424  Curcas  = 0.0
8414   8425  Curmach = 0.0
8415   8426  Xoveralt = 25000.0
8416   8427
8417   8428  !run_test()
8418   8429  Perf_Background_Dpkg.Psgw = 150.0
8419   8430  -------------------------------------------------------------------------------
8420   8431  TESTID: 62
8421   8432      If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8422   8433      is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8423   8434        QNH or QFE shall be set to True. Otherwise it is set to False
8424   8435        PERF_SDD_08588_INT
8425   8436
8426   8437        If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag and
8427   8438        the What-If predictions enabled flag shall be set to false.
8428   8439        PERF_SDD_08665(PERF_SRD_23775)
8429   8440
8430   8441        In this case:
8431   8442        the working flight plan is Active
8432   8443        the current barometric reference is not QNH and QFE
8433   8444        the current barometric reference data retrieved from IO is invalid
8434   8445        so
8435   8446        the Secondary flight plan Predictions flag should be set false
8436   8447        the What-If predictions enabled flag should be set to false
8437   8448        the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
             » t to false
8438   8449
8439   8450
8440   8451 --INPUTS
8441   8452 Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8442   8453 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := false
8443   8454 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := false
8444   8455 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := false
8445   8456 Perf_Background_Dpkg.QNH_QFE_Selected := True
8446   8457 Perf_Background_Dpkg.Pcactorsec := Active
8447   8458 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) := True
8448   8459 Perf_Background_Dpkg.Secn_Fpln_Itin := True
8449   8460
8450   8461 !run_test()
8451   8462 Perf_Background_Dpkg.QNH_QFE_Selected = false
8452   8463 Perf_Background_Dpkg.Secn_Fpln_Itin = false
8453   8464 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) = false
8454   8465
8455   8466 -------------------------------------------------------------------------------------------------
8456   8467 TESTID: 63
8457   8468        If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8458   8469        is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
8459   8470        QNH or QFE shall be set to True. Otherwise it is set to False
8460   8471        PERF_SDD_08588_INT
8461   8472
8462   8473        If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag
8463   8474        and the What-If predictions enabled flag shall be set to false.
8464   8475        PERF_SDD_08665(PERF_SRD_23775)
8465   8476
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8466   8477      If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
               » d on the
8467   8478      current flight plan type.
8468   8479      For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8469   8480      For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
8470   8481      For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8471   8482      PERF_SDD_08667(PERF_SRD_23774)
8472   8483
8473   8484      In this case:
8474   8485      the working flight plan is Temporary
8475   8486      the current barometric reference is not QNH and QFE
8476   8487      the current barometric reference data retrieved from IO is valid
8477   8488      so
8478   8489      the Secondary flight plan Predictions flag should be set false
8479   8490      the What-If predictions enabled flag should be set to false
8480   8491      the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
               » t to false
8481   8492      the pseudo button push type is default.
8482   8493
8483   8494
8484   8495   --INPUTS
8485   8496   Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8486   8497   Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := false
8487   8498   Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := True
8488   8499   Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := false
8489   8500   Perf_Background_Dpkg.QNH_QFE_Selected := True
8490   8501   Perf_Background_Dpkg.Pcactorsec := Temporary
8491   8502   Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) := True
8492   8503   Perf_Background_Dpkg.Secn_Fpln_Itin := True
8493   8504   Perf_Background_Dpkg.What_If_Data.Pseudo_Button := 0
8494   8505
8495   8506   !run_test()
8496   8507   Perf_Background_Dpkg.QNH_QFE_Selected = false
8497   8508   Perf_Background_Dpkg.Secn_Fpln_Itin = false
8498   8509   Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) = false
8499   8510   Perf_Background_Dpkg.What_If_Data.Pseudo_Button = 0
8500   8511   ------------------------------------------------------------------------------------------------
8501   8512   TESTID: 64
8502   8513      If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8503   8514      is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
8504   8515      QNH or QFE shall be set to True. Otherwise it is set to False
8505   8516      PERF_SDD_08588_INT
8506   8517
8507   8518      If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag and
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8508  8519      the What-If predictions enabled flag shall be set to false.
8509  8520      PERF_SDD_08665(PERF_SRD_23775)
8510  8521
8511  8522      If the current flight plan is a Copy Active Secondaryn FPLN, then the following shall be Done:
8512  8523      - The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
              » ctions.
8513  8524      - The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
              » ximum_Alt.
8514  8525      - The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
              » Maximum_Alt
8515  8526      PERF_SDD_08666(PERF_SRD_23775)
8516  8527
8517  8528      In this case:
8518  8529      the current flight plan type is a Copy Active
8519  8530      the working flight plan is Secondary
8520  8531      the current itinerary is primary flight plan predictions
8521  8532      the current barometric reference is QNH
8522  8533      the current barometric reference data retrieved from IO is invalid
8523  8534      so
8524  8535      the Secondary flight plan Predictions flag should be set True
8525  8536      the What-If predictions enabled flag should be default
8526  8537      the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
              » t to false
8527  8538      The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Maxi
              » mum_Alt.
8528  8539      The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_Ma
              » ximum_Alt
8529  8540
8530  8541
8531  8542  --INPUTS
8532  8543  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Copy_From_Active
8533  8544  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := True
8534  8545  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := false
8535  8546  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := false
8536  8547  Perf_Background_Dpkg.QNH_QFE_Selected := True
8537  8548  Perf_Background_Dpkg.Pcactorsec := Secondary
8538  8549  Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) := True
8539  8550  Perf_Background_Dpkg.Secn_Fpln_Itin := True
8540  8551  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
8541  8552  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
8542  8553  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
8543  8554  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.20
8544  8555  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.30
8545  8556  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid := false
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

8546	8557	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid := false
8547	8558	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data := 0.00
8548	8559	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data := 0.00
8549	8560	
8550	8561	!run_test()
8551	8562	Perf_Background_Dpkg.QNH_QFE_Selected = false
8552	8563	Perf_Background_Dpkg.Secn_Fpln_Itin = True
8553	8564	Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) = True
8554	8565	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid = True
8555	8566	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid = True
8556	8567	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data = 32.20
8557	8568	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data = 32.30
8558	8569	---
8559	8570	TESTID: 65
8560	8571	If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8561	8572	is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
8562	8573	QNH or QFE shall be set to True. Otherwise it is set to False
8563	8574	PERF_SDD_08588_INT
8564	8575	
8565	8576	If the current flight plan is a Copy Active Secondaryn FPLN, then the following shall be Done:
8566	8577	- The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
		» ctions.
8567	8578	- The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
		» ximum_Alt.
8568	8579	- The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
		» Maximum_Alt
8569	8580	PERF_SDD_08666(PERF_SRD_23775)
8570	8581	
8571	8582	If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
		» d on
8572	8583	the current flight plan type.
8573	8584	For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8574	8585	For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
8575	8586	For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8576	8587	PERF_SDD_08667(PERF_SRD_23774)
8577	8588	
8578	8589	in this case:
8579	8590	the current flight plan type is a Copy Active
8580	8591	the working flight plan is Secondary
8581	8592	the current itinerary is CURRENT VERTICAL MODE PREDS DURING 1ST 2 PASSES OF PREDS
8582	8593	the current barometric reference is QNH
8583	8594	the current barometric reference data retrieved from IO is valid
8584	8595	so
8585	8596	the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
             » t to True
  8586  8597      the Secondary flight plan Predictions flag should be set false
  8587  8598      the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
             » t to false
  8588  8599      The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Maxi
             » mum_Alt
  8589  8600      The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_Ma
             » ximum_Alt
  8590  8601      the pseudo button push type is Pb_Sec_What_If_Cancelled
  8591  8602
  8592  8603
  8593  8604  --INPUTS
  8594  8605  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Copy_From_Active
  8595  8606  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := True
  8596  8607  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := True
  8597  8608  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := false
  8598  8609  Perf_Background_Dpkg.QNH_QFE_Selected := false
  8599  8610  Perf_Background_Dpkg.Pcactorsec := Secondary
  8600  8611  Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec) := True
  8601  8612  Perf_Background_Dpkg.Secn_Fpln_Itin := True
  8602  8613  Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Preds
  8603  8614  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
  8604  8615  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
  8605  8616  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.20
  8606  8617  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.30
  8607  8618  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid := false
  8608  8619  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid := false
  8609  8620  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data := 0.00
  8610  8621  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data := 0.00
  8611  8622  Perf_Background_Dpkg.What_If_Data.Pseudo_Button := 0
  8612  8623
  8613  8624  !run_test()
  8614  8625  Perf_Background_Dpkg.QNH_QFE_Selected = True
  8615  8626  Perf_Background_Dpkg.Secn_Fpln_Itin = false
  8616  8627  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid = True
  8617  8628  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid = True
  8618  8629  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data = 32.20
  8619  8630  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data = 32.30
  8620  8631  Perf_Background_Dpkg.What_If_Data.Pseudo_Button = 52
  8621  8632  -------------------------------------------------------------------------------------------------
  8622  8633  TESTID: 66
  8623  8634      If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
  8624  8635      is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
  8625  8636      QNH or QFE shall be set to True. Otherwise it is set to False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8626   8637        PERF_SDD_08588_INT
8627   8638
8628   8639        If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
                » d
8629   8640        on the current flight plan type.
8630   8641        For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8631   8642        For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
8632   8643        For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8633   8644        PERF_SDD_08667(PERF_SRD_23774)
8634   8645
8635   8646        in this case:
8636   8647        the working flight plan is Secondary2
8637   8648        the current barometric reference is QFE
8638   8649        the current barometric reference data retrieved from IO is invalid
8639   8650        so
8640   8651        the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
                » t to false
8641   8652        the pseudo button push type is Pb_Sec2_What_If_Cancelled
8642   8653
8643   8654
8644   8655  --INPUTS
8645   8656  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8646   8657  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := false
8647   8658  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := false
8648   8659  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := True
8649   8660  Perf_Background_Dpkg.QNH_QFE_Selected := True
8650   8661  Perf_Background_Dpkg.Pcactorsec := Secondary2
8651   8662  Perf_Background_Dpkg.What_If_Data.Pseudo_Button := 0
8652   8663
8653   8664  !run_test()
8654   8665  Perf_Background_Dpkg.QNH_QFE_Selected = false
8655   8666  Perf_Background_Dpkg.What_If_Data.Pseudo_Button = 54
8656   8667  -------------------------------------------------------------------------------------------------
8657   8668  TESTID: 67
8658   8669        If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8659   8670        is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
8660   8671        QNH or QFE shall be set to True. Otherwise it is set to False
8661   8672        PERF_SDD_08588_INT
8662   8673
8663   8674        If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
                » d
8664   8675        on the current flight plan type.
8665   8676        For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8666   8677        For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8667 | 8678       For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8668 | 8679       PERF_SDD_08667(PERF_SRD_23774)
8669 | 8680
8670 | 8681       in this case:
8671 | 8682       the working flight plan is Secondary3
8672 | 8683       the current barometric reference is QFE
8673 | 8684       the current barometric reference data retrieved from IO is valid
8674 | 8685       so
8675 | 8686       the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
              » t to True
8676 | 8687       the pseudo button push type is Pb_Sec3_What_If_Cancelled
8677 | 8688
8678 | 8689
8679 | 8690 --INPUTS
8680 | 8691 Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
8681 | 8692 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL := false
8682 | 8693 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data := True
8683 | 8694 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL := True
8684 | 8695 Perf_Background_Dpkg.QNH_QFE_Selected := false
8685 | 8696 Perf_Background_Dpkg.Pcactorsec := Secondary3
8686 | 8697 Perf_Background_Dpkg.What_If_Data.Pseudo_Button := 0
8687 | 8698
8688 | 8699 !run_test()
8689 | 8700 Perf_Background_Dpkg.QNH_QFE_Selected = True
8690 | 8701 Perf_Background_Dpkg.What_If_Data.Pseudo_Button = 55
8691 | 8702 -----------------------------------------------------------------------------------------------------
8692 | 8703 TESTID: 68
8693 | 8704
8694 | 8705     For an independent from-to pair Secondaryn flight plan, the starting predictions data shall be set up
8695 | 8706     as if the aircraft were sitting on the ground in pre-flight at the origin airport of the Secondaryn flight plan,
8696 | 8707     rather than from the current aircraft state.  Thus, following data are set:
8697 | 8708     - The airborne flag (Psairborne) is set false.
8698 | 8709     - Auto lateral mode (Psautolat) is set to true.
8699 | 8710     - Engine out flag (Psengout) is set to false.
8700 | 8711     - The current flightphase (Pcfltphase) is set to pre-flight.
8701 | 8712     - Speed mode (Pcspeedmode) is set to Vmecon.
8702 | 8713     - Despath reference (Pcpathref) is set to Nopath.
8703 | 8714     - Current GMT time (Pcgmttime) (Hours, Minutes & Seconds) is set to zero.
8704 | 8715     - Inertial vertical speed (Psinertvs) is set to zero.
8705 | 8716     - Current aircraft speeds (Pscurtas, Pscurmach & Pscurcas) are set to zero.
8706 | 8717     - Validity of Aircraft True air speed (Pscurtasvalid) set to False
8707 | 8718     - Aircraft configuration (Pcacconfig) is set to clean.
8708 | 8719     - Airbrakes (Pcairbrakes) are set to zero airbrakes.
8709 | 8720     - Constraint management (Pccuraltcstr) validity is set to false.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

8710	8721	- Previous captured barometric altitude (Pcprebcalt) validity is set to false.
8711	8722	- All the flags in the perf hold flag record (Pcholdflags) are set to false.
8712	8723	- All the flags in the descent limit latch record (Pcdeslimlat) are set to false.
8713	8724	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false.
8714	8725	- Flag indicating aircraft is within 3 NM prior to the entry of the HM(Psconsider_Hm) is set to false.
8715	8726	- Flag indicating aircraft is in HA/HF decel zone (Pshxpxdecel) is set to false.
8716	8727	- Flag indicating aircraft is in HM decel zone (Pshmdecel) is set to false.
8717	8728	- Flag indicating to Ignore HM (Psignorehm) is set to true.
8718	8729	- Background step climb & step descent active flags (Psstpclbact & Psstpdesact) are set to false.
8719	8730	- Engines off status (Psenginesoff) is set to true (off).
8720	8731	- Aircraft engine or wing anti ice (Ac_Anti_Ice) is set to false (Off).
8721	8732	- Aircraft bleeds status (Ac_Bleeds); Engine Cowl Anti-Ice bleed, Wing Anti-Ice Bleed and
8722	8733	Air Conditioning Bleed are set to false (off).
8723	8734	- Cruise altitude (Pscrzalt) data is set by calling procedure
8724	8735	Fpln_Ext_Dpkg.Get_Cruise_Alt.
8725	8736	- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
8726	8737	Data and Valid values respectively.
8727	8738	- Valid cruise altitude flag (Valcrzalt) is set from the retrieved cruise altitude data.
8728	8739	- ADC/FG input data (Adc_Fg_Valid) validity is set to true.
8729	8740	- Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to true.
8730	8741	- The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi » ctions.
8731	8742	- The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma » ximum_Alt.
8732	8743	- The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_ » Maximum_Alt.
8733	8744	
8734	8745	These initializations make predictions independent of the Active Primary flightplan and current aircraft character » istics
8735	8746	PERF_SDD_4796(PERF_SRD_1592, PERF_SRD_23775, PERF_SRD_6005_INT)
8736	8747	
8737	8748	the working flight plan is not Is_Active and Copy_From_Active,
8738	8749	a variety of following global data shall be not retrieved which are common to the Active flight plan prediction » s process.
8739	8750	- A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from
8740	8751	guidance
8741	8752	- Guidance provided TDP capture tolerance
8742	8753	- when the Engine out status and the VG indicator that Green-Dot Speed is latched,
8743	8754	The flag indicating that VG is using latched Green-Dot descent speed is set.
8744	8755	
8745	8756	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
8746	8757	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
8747	8758	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
8748	8759	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8749   8760        in this case,
8750   8761        flight plan is Secondary
8751   8762        the current itinerary is not primary flight plan predictions
8752   8763
8753   8764
8754   8765   -- INPUTS
8755   8766   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec := False
8756   8767   CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec := False
8757   8768   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec := False
8758   8769   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec := False
8759   8770   CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := False
8760   8771   Perf_Dpkg.Min_Gwt := 100.0
8761   8772   Perf_Dpkg.Max_Gwt := 400.0
8762   8773   Prf_Bkgnd_Pkg:BODY.Valcrzalt := False
8763   8774   Perf_Background_Dpkg.Pcactorsec:= Secondary
8764   8775   Perf_Background_Dpkg.Flight_Plan_Type := No_Preds
8765   8776   Perf_Background_Dpkg.Pcitin.Flight_Plan := Secondary
8766   8777   Perf_Background_Dpkg.Psignorehm := False
8767   8778   Perf_Background_Dpkg.Pcfltphase := Cruise
8768   8779   Perf_Background_Dpkg.Ats_Enable := True
8769   8780   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
8770   8781   Perf_Background_Dpkg.Psacalt := 10000.0
8771   8782   Perf_Database_Dpkg.Psmmo := 0.45
8772   8783   Perf_Background_Dpkg.Pszfw := 300.0
8773   8784   Perf_Background_Dpkg.Psblockfuel := 50.0
8774   8785   Perf_Background_Dpkg.Pstaxifuel := 25.0
8775   8786   Perf_Background_Dpkg.Psairborne := True
8776   8787   Perf_Background_Dpkg.Psautolat := False
8777   8788   Guid_Ext_Dpkg.Gcxxlatautoc := False
8778   8789   Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE := False
8779   8790   Perf_Background_Dpkg.Psengout := True
8780   8791   Cdk_Vert_Dpkg:Body.Engine_Out_I := False
8781   8792   Perf_Background_Dpkg.Pcholdflags.Hmdecel := True
8782   8793   Perf_Dpkg.Repredict_Hm_Decel := True
8783   8794   Perf_Background_DPkg.Pshmdecel := True
8784   8795   Perf_Background_Dpkg.Pcholdflags.Hmactive := True
8785   8796   Perf_Ads_Dpkg.Fi_Enabled := False
8786   8797   Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive := False
8787   8798   Perf_Background_Dpkg.Pcholdflags.Manhmwarn := True
8788   8799   Perf_Background_Dpkg.Pcholdflags.Hxpxdecel := True
8789   8800   Perf_Background_Dpkg.Pcholdflags.Hxpxactiv := True
8790   8801   Perf_Background_Dpkg.Pcholdflags.Hmdistval := True
8791   8802   Perf_Integration_Dpkg.Pcdeslimlat.Spdlim := True
8792   8803   Perf_Integration_Dpkg.Pcdeslimlat.Icaolim := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8793 | 8804 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel := True
8794 | 8805 | Perf_Background_Dpkg.Psappspdlat := True
8795 | 8806 | Perf_Dpkg.Pcengoutprds := Altpln
8796 | 8807 | Perf_Background_Dpkg.Pcpathref := Onpath
8797 | 8808 | Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
8798 | 8809 | Perf_Background_DPkg.Pscurcas := 5.0
8799 | 8810 | Perf_Background_DPkg.Pscurmach := 5.0
8800 | 8811 | Perf_Background_DPkg.Pscurtas := 5.0
8801 | 8812 | Perf_Background_Dpkg.Psenginesoff := False
8802 | 8813 | Perf_Despath_Dpkg.Pcdespath.Vgavalid := False
8803 | 8814 | Perf_Background_Dpkg.Pstogwtval := False
8804 | 8815 | Perf_Background_Dpkg.Pstogwt := 50.0
8805 | 8816 | Perf_Background_Dpkg.Pcgwind := Invalid
8806 | 8817 | Perf_Background_Dpkg.Psgw := 0.0
8807 | 8818 | Perf_Dpkg.Gross_Weight.Status := Valid
8808 | 8819 | Perf_Dpkg.Gross_Weight.Data := 150.0
8809 | 8820 | Perf_Integration_DPkg.Pcairbrakes := Fullab
8810 | 8821 | Perf_Background_Dpkg.Pcacconfig := 5
8811 | 8822 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included := True
8812 | 8823 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt := 9000.0
8813 | 8824 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 200.0
8814 | 8825 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd := 400.0
8815 | 8826 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
8816 | 8827 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
8817 | 8828 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
8818 | 8829 | Perf_Background_Dpkg.Psstpclbact := True
8819 | 8830 | Perf_Background_Dpkg.Psstpdesact := True
8820 | 8831 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
8821 | 8832 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.0
8822 | 8833 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data := 0.65
8823 | 8834 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
8824 | 8835 | Perf_Background_Dpkg.Pccuraltcstr.Valid := True
8825 | 8836 | Perf_Background_Dpkg.Pcprebcalt.Valid := True
8826 | 8837 | Perf_Background_Dpkg.Pcgmttime.Hour := 1
8827 | 8838 | Perf_Background_Dpkg.Pcgmttime.Minute := 1
8828 | 8839 | Perf_Background_Dpkg.Pcgmttime.Second := 1
8829 | 8840 | Perf_Background_Dpkg.Psinertvs := 5.0
8830 | 8841 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints := 0
8831 | 8842 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints := 2
8832 | 8843 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points := 0
8833 | 8844 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points := 2
8834 | 8845 | Perf_Ads_Dpkg.Pr_Enabled := False
8835 | 8846 | ATC_DISCRETES_PKG:body.Adson_Flag := False
8836 | 8847 | Perf_Integration_Dpkg.Psoldnoentgt := 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8837   8848  Perf_Background_Dpkg.Pcoldcasmchi := Fmcs_Base_Types.Mach
8838   8849  Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmspd
8839   8850  Perf_Background_Dpkg.Adc_Fg_Valid := False
8840   8851  Prf_Bkgnd_Pkg:body.Fgspdsvalid := False
8841   8852  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
8842   8853  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Val := False
8843   8854  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt :=  300.0
8844   8855  Perf_Background_Dpkg.Noise_Data.Altitude.Data := 0.0
8845   8856  Perf_Background_Dpkg.Noise_Data.Altitude.Valid := False
8846   8857  Perf_Background_Dpkg.Noise_Data.Speed.Valid := True
8847   8858  Perf_Background_Dpkg.Pcitin.Itinerary := Prim_Fpln_Preds
8848   8859  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
8849   8860  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
8850   8861  Perf_Background_Dpkg.Ac_Crosstrack_Error        := 2.5
8851   8862
8852   8863  Perf_Background_Dpkg.Pscurtasvalid               := True
8853   8864  Perf_Background_Dpkg.Psconsider_Hm              := True
8854   8865  Perf_Background_Dpkg.Pshxpxdecel                := True
8855   8866  Perf_Background_Dpkg.Ac_Anti_Ice                := True
8856   8867  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai        := True
8857   8868  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai          := True
8858   8869  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond         := True
8859   8870  Perf_Background_Dpkg.Pcholdflags.Consider_Hm    := True
8860   8871  #define Get_Cruise_Alt_Called := False
8861   8872
8862   8873  Perf_Dpkg.takeoff_gwt.valid := True
8863   8874  Perf_Dpkg.takeoff_gwt.data := 400.0
8864   8875  Perf_Background_Dpkg.Psgetout := True
8865   8876  Perf_Background_Dpkg.Ref_Flight_Plan := 1
8866   8877  Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid := True
8867   8878  Perf_Despath_Dpkg.Pcdespath.Vgavalid := true
8868   8879  Perf_Background_Dpkg.Pcitin.Itinerary := Current_Mode_Preds
8869   8880  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
8870   8881  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
8871   8882  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.20
8872   8883  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.30
8873   8884  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid := false
8874   8885  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid := false
8875   8886  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data := 0.00
8876   8887  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data := 0.00
8877   8888
8878   8889  Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd := True
8879   8890  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment := False
8880   8891  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol := 100.00
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8881  8892 Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance  := 188.00
8882  8893 Perf_Background_Dpkg.Psgrndotdes := true
8883  8894 Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes := true
8884  8895 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid  := False
8885  8896 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data   := 0.0
8886  8897
8887  8898 #sba Fpln_Ext_Dpkg.Get_Cruise_Alt after_elab begin
8888  8899 #define Get_Cruise_Alt_Called   := True
8889  8900 #go
8890  8901 #end
8891  8902
8892  8903 !run_test()
8893  8904
8894  8905 -- OUTPUTS
8895  8906 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment = False
8896  8907 Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol = 100.00
8897  8908 Perf_Background_Dpkg.Psgrndotdes = true
8898  8909
8899  8910 Perf_Integration_Dpkg.Psoldnoentgt = 0.0
8900  8911 Perf_Background_Dpkg.Pcoldcasmchi = Fmcs_Base_Types.Mach
8901  8912 Perf_Despath_Dpkg.Pcdespath.Vgavalid /= False
8902  8913
8903  8914 Perf_Background_Dpkg.Psairborne = False
8904  8915 Perf_Background_Dpkg.Psautolat = True
8905  8916 Perf_Background_Dpkg.Psengout = False
8906  8917 Perf_Background_Dpkg.Psgetout = TRUE
8907  8918 Perf_Background_Dpkg.Pcfltphase = Preflight
8908  8919 Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
8909  8920 Perf_Background_Dpkg.Psinertvs = 0.0
8910  8921 Perf_Background_Dpkg.Pcpathref = Nopath
8911  8922 Perf_Background_Dpkg.Pscurtasvalid = False
8912  8923 Perf_Background_Dpkg.Pcacconfig = Clean
8913  8924 Perf_Integration_Dpkg.Pcairbrakes = Zeroab
8914  8925 Perf_Background_Dpkg.Pccuraltcstr.Valid = False
8915  8926 Perf_Background_Dpkg.Pcprebcalt.Valid = False
8916  8927 Perf_Background_Dpkg.Psappspdlat      = False
8917  8928 Perf_Background_DPkg.Pshmdecel        = False
8918  8929 Perf_Background_Dpkg.Psconsider_Hm    = False
8919  8930 Perf_Background_Dpkg.Pshxpxdecel      = False
8920  8931 Perf_Background_Dpkg.Psignorehm       = True
8921  8932 Perf_Background_Dpkg.Psstpclbact = False
8922  8933 Perf_Background_Dpkg.Psstpdesact = False
8923  8934 Perf_Background_Dpkg.Psenginesoff = True
8924  8935 Perf_Background_Dpkg.Ac_Anti_Ice  = False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8925   8936  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai = False
8926   8937  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai   = False
8927   8938  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond  = False
8928   8939  Prf_Bkgnd_Pkg:BODY.Valcrzalt = Perf_Background_Dpkg.Pscrzalt.Valid
8929   8940  Perf_Background_Dpkg.Adc_Fg_Valid = True
8930   8941  Prf_Bkgnd_Pkg:body.Fgspdsvalid = True
8931   8942  Perf_Background_Dpkg.Pcholdflags.Hmdecel = False
8932   8943  Perf_Background_Dpkg.Pcholdflags.Hmactive = False
8933   8944  Perf_Background_Dpkg.Pcholdflags.Manhmwarn = False
8934   8945  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel = False
8935   8946  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv = False
8936   8947  Perf_Background_Dpkg.Pcholdflags.Hmdistval = False
8937   8948  Perf_Background_Dpkg.Pcholdflags.Consider_Hm =False
8938   8949  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim = False
8939   8950  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim = False
8940   8951  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel = False
8941   8952  Perf_Background_Dpkg.Pcgmttime.Hour = 0
8942   8953  Perf_Background_Dpkg.Pcgmttime.Minute = 0
8943   8954  Perf_Background_Dpkg.Pcgmttime.Second = 0
8944   8955  Perf_Background_DPkg.Pscurcas = 0.0
8945   8956  Perf_Background_DPkg.Pscurmach = 0.0
8946   8957  Perf_Background_DPkg.Pscurtas = 0.0
8947   8958  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 0.0
8948   8959  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach = 0.0
8949   8960  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec = False
8950   8961  Perf_Background_Dpkg.Ac_Crosstrack_Error      = 0.0
8951   8962  Get_Cruise_Alt_Called                         = True
8952   8963  Perf_Background_Dpkg.Noise_Data.Altitude.Valid = True
8953   8964  Perf_Background_Dpkg.Noise_Data.Altitude.Data  = 300.0
8954   8965  Perf_Background_Dpkg.Noise_Data.Speed.Valid = False
8955   8966  Perf_Background_Dpkg.Secn_Fpln_Itin = false
8956   8967  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid = True
8957   8968  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid = True
8958   8969  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data = 32.20
8959   8970  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data = 32.30
8960   8971  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid  = True
8961   8972  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data   = 5.0
8962   8973
8963   8974  -------------------------------------------------------------------------------
8964   8975  TESTID: 69
8965   8976
8966   8977  *When any of the following conditions are satisfied
8967   8978  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
8968   8979      Noise_Thrust_Target from VGUIDE is valid.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
8969  8980  (2) If all the following conditions are satisfied
8970  8981     -Navigation(Nav Filtered) A/C Altitude is Valid
8971  8982     -Noise End altitude is valid
8972  8983     -Noise_Thrust_Target from VGUIDE is valid
8973  8984     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
8974  8985      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
8975  8986      altitude tolerance).
8976  8987     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
8977  8988     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
8978  8989     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
8979  8990     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8980  8991     PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
8981  8992                    PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
8982  8993
8983  8994     in this case,
8984  8995     the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is  not true
8985  8996     Navigation(Nav Filtered) A/C Altitude is Valid
8986  8997     Noise End altitude is invalid
8987  8998     the Noise_Thrust_Target from VGUIDE is valid.
8988  8999     the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
8989  9000     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
8990  9001     so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8991  9002
8992  9003
8993  9004  --INPUTS
8994  9005
8995  9006  Perf_Background_Dpkg.Pcactorsec := Active
8996  9007  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
8997  9008  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := False
8998  9009  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
8999  9010  Perf_Background_Dpkg.Psorgalt := 36090.0
9000  9011  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
9001  9012  Guid_Checkpoint_Resynch_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := False
9002  9013  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                  := True
9003  9014  Navigation_Data.Aircraft_Altitude_Valid := True
9004  9015  Navigation_Data.Aircraft_Altitude := 53.20
9005  9016  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status  := Takeoff_Alt_Types.Inactive
9006  9017  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
9007  9018  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  90.0
9008  9019  Perf_Background_Dpkg.Psengout := True
9009  9020  -- Reset Output
9010  9021  Perf_Background_Dpkg.Flex_Isadev.Data   := 5.0
9011  9022  Perf_Background_Dpkg.Noise_Data.Ramping := True
9012  9023  !run_test()
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9013  9024
9014  9025  -- OUTPUTS
9015  9026  Perf_Background_Dpkg.Noise_Data.Ramping = False
9016  9027  ----------------------------------------------------------------------------------
9017  9028  TESTID: 70
9018  9029
9019  9030  *When any of the following conditions are satisfied
9020  9031  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
9021  9032      Noise_Thrust_Target from VGUIDE is valid.
9022  9033  (2) If all the following conditions are satisfied
9023  9034     -Navigation(Nav Filtered) A/C Altitude is Valid
9024  9035     -Noise End altitude is valid
9025  9036     -Noise_Thrust_Target from VGUIDE is valid
9026  9037     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
9027  9038      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
9028  9039      altitude tolerance).
9029  9040     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
9030  9041     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
9031  9042     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
9032  9043     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9033  9044     PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
9034  9045               PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
9035  9046
9036  9047     in this case,
9037  9048     the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
9038  9049     Navigation(Nav Filtered) A/C Altitude is invalid
9039  9050     Noise End altitude is valid
9040  9051     the Noise_Thrust_Target from VGUIDE is valid.
9041  9052     the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
9042  9053     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
9043  9054     so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9044  9055
9045  9056
9046  9057  --INPUTS
9047  9058
9048  9059  Perf_Background_Dpkg.Pcactorsec := Active
9049  9060  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
9050  9061  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := False
9051  9062  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
9052  9063  Perf_Background_Dpkg.Psorgalt := 36090.0
9053  9064  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
9054  9065  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := False
9055  9066  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                := True
9056  9067  Navigation_Data.Aircraft_Altitude_Valid := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9057   9068  Navigation_Data.Aircraft_Altitude := 53.20
9058   9069  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
9059   9070  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
9060   9071  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  90.0
9061   9072  Perf_Background_Dpkg.Psengout := False
9062   9073  -- Reset Output
9063   9074  Perf_Background_Dpkg.Flex_Isadev.Data    := 5.0
9064   9075  Perf_Background_Dpkg.Noise_Data.Ramping := True
9065   9076  !run_test()
9066   9077
9067   9078  -- OUTPUTS
9068   9079  Perf_Background_Dpkg.Noise_Data.Ramping = False
9069   9080  -----------------------------------------------------------------------------------
9070   9081  TESTID: 71
9071   9082
9072   9083  *When any of the following conditions are satisfied
9073   9084  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
9074   9085      Noise_Thrust_Target from VGUIDE is valid.
9075   9086  (2) If all the following conditions are satisfied
9076   9087     -Navigation(Nav Filtered) A/C Altitude is Valid
9077   9088     -Noise End altitude is valid
9078   9089     -Noise_Thrust_Target from VGUIDE is valid
9079   9090     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
9080   9091      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
9081   9092      altitude tolerance).
9082   9093     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
9083   9094     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
9084   9095     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
9085   9096     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9086   9097     PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
9087   9098               PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
9088   9099
9089   9100     in this case,
9090   9101     the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
9091   9102     Navigation(Nav Filtered) A/C Altitude is Valid
9092   9103     Noise End altitude is valid
9093   9104     the Noise_Thrust_Target from VGUIDE is valid.
9094   9105     the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
9095   9106     current A/C Altitude(Baro corrected) is less than the Noise end altitude(with 1 ft altitude tolerance)
9096   9107     so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9097   9108
9098   9109
9099   9110  --INPUTS
9100   9111
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9101  9112 Perf_Background_Dpkg.Pcactorsec := Active
9102  9113 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
9103  9114 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := False
9104  9115 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data  := 21.0
9105  9116 Perf_Background_Dpkg.Psorgalt := 36090.0
9106  9117 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
9107  9118 Guid_Checkpoint_Resynch_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := False
9108  9119 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                    := True
9109  9120 Navigation_Data.Aircraft_Altitude_Valid := True
9110  9121 Navigation_Data.Aircraft_Altitude := 53.20
9111  9122 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
9112  9123 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
9113  9124 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  300.0
9114  9125 Perf_Background_Dpkg.Psengout := False
9115  9126 -- Reset Output
9116  9127 Perf_Background_Dpkg.Flex_Isadev.Data   := 5.0
9117  9128 Perf_Background_Dpkg.Noise_Data.Ramping := True
9118  9129 !run_test()
9119  9130
9120  9131 -- OUTPUTS
9121  9132 Perf_Background_Dpkg.Noise_Data.Ramping = False
9122  9133 -------------------------------------------------------------------------------
9123  9134 TESTID: 72
9124  9135
9125  9136 *When any of the following conditions are satisfied
9126  9137 (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
9127  9138     Noise_Thrust_Target from VGUIDE is valid.
9128  9139 (2) If all the following conditions are satisfied
9129  9140    -Navigation(Nav Filtered) A/C Altitude is Valid
9130  9141    -Noise End altitude is valid
9131  9142    -Noise_Thrust_Target from VGUIDE is valid
9132  9143    -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
9133  9144     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
9134  9145     altitude tolerance).
9135  9146    Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
9136  9147    initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
9137  9148    and Perf_Background_Dpkg.Noise_Data.Ramping to true,
9138  9149    Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9139  9150    PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
9140  9151               PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
9141  9152
9142  9153    in this case,
9143  9154    the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
9144  9155    Navigation(Nav Filtered) A/C Altitude is Valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9145  9156     Noise End altitude is valid
9146  9157     the Noise_Thrust_Target from VGUIDE is valid.
9147  9158     the Navigation(Nav Filtered) A/C altitude is greater than the Noise end altitude
9148  9159     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
9149  9160     so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
9150  9161
9151  9162
9152  9163  --INPUTS
9153  9164
9154  9165  Perf_Background_Dpkg.Pcactorsec := Active
9155  9166  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Climb
9156  9167  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid := False
9157  9168  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data   := 21.0
9158  9169  Perf_Background_Dpkg.Psorgalt := 36090.0
9159  9170  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target := (10.6, True)
9160  9171  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start := False
9161  9172  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid                      := True
9162  9173  Navigation_Data.Aircraft_Altitude_Valid := True
9163  9174  Navigation_Data.Aircraft_Altitude := 93.20
9164  9175  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status  := Takeoff_Alt_Types.Active
9165  9176  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val := False
9166  9177  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt :=  90.0
9167  9178  Perf_Background_Dpkg.Psengout := False
9168  9179  -- Reset Output
9169  9180  Perf_Background_Dpkg.Flex_Isadev.Data   := 5.0
9170  9181  Perf_Background_Dpkg.Noise_Data.Ramping := True
9171  9182  !run_test()
9172  9183
9173  9184  -- OUTPUTS
9174  9185  Perf_Background_Dpkg.Noise_Data.Ramping = False
9175  9186
9176  9187  -------------------------------------------------------------------------------------------------------------
            » --
9177  9188  TESTID: 73
9178  9189
9179  9190      The following data shall be initialized as specified irrespective of the kind of flight plan:
9180  9191      - Compute old target speed flag (Computoldtgt) = False;
9181  9192      - Current target speed flag from FG(Curspdsval) = True;
9182  9193      - Climb auto derate mode active(Use_Clb_Autodrt) = False;
9183  9194      - First pass of predictions (Psfirstpass) = True;
9184  9195      - First pass of forward predictions (Psonofrstpas) = True;
9185  9196      - Flight test write protect (Psftpbwritok) = True;
9186  9197      - Vertical speed mode active (Psvsact) = False;
9187  9198      - Flight path angle mode active (Psfpaact) = False;
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9188	9199	- Level at baro-changed constraint altitude (Pslvlatbcalt) = False;
9189	9200	- Below path and level at an altitude constraint (Pslvlblwpth) = False;
9190	9201	- Ratio of potential energy to kinetic energy (Potential_To_Kinetic_Share) is initialized to
9191	9202	ratio of potential energy to kinetic energy applied for integration of descent segments.
9192	9203	- First pass of predictions flag repacked for FTB is initialized by flag for first pass
9193	9204	through predictions;
9194	9205	- Thrust reduction altitudes (Psthredalt & Psdesthrdalt) are initialized by calling the
9195	9206	procedure Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt
9196	9207	- Unpredicted Fix-Info points exist (Psfi_Possble) = False;
9197	9208	- Predicted state on decel to ICAO-limited leg (On_Icao_Leg_Decel) = False;
9198	9209	- Do not search for HM decels (Psignorehm) = False;
9199	9210	- Previous reason for speed change (Pcoldwspdchg) = Return to econ speed (Returntoecon)
9200	9211	- Filtered A/C altitude (Navigation Data) is initialized by current aircraft altitude;
9201	9212	- Get the below descent path below DSL vertical speed target in FT/SEC by calling
9202	9213	Guid_Ext_Dpkg.Vs_Target_Below_Speed_Limit and dividing the returned value
9203	9214	(FT/MIN) by 60.0;
9204	9215	- Maximum operating CAS and Mach data initialized from database vmo and mmo and
9205	9216	the delta values obtained by calling Prf_External_Util_Pkg.Get_Maxop_Delta
9206	9217	- Predicted aircraft configuration (Pcconfig) is set to clean.
9207	9218	- Flag indicating that the TDP Level segment at or below clearance altitude
9208	9219	(Tdp_Level_Seg_At_Or_Below_Clralt) is set to False.
9209	9220	- The flag indicating level prediction is determined in current mode due to clearance
9210	9221	altitude or due to aircraft flying in level is set to false.
9211	9222	- The flag indicating the current mode has called state integrator to predict a level1 or
9212	9223	tod2 pseudo locations on TDP is set to false.
9213	9224	- The flag indicating clearance altitude set above the descent speed limit and below the
9214	9225	descent speed limit deceleration start point is set to false.
9215	9226	
9216	9227	PERF_SDD_4155_INT
9217	9228	
9218	9229	the working flight plan is Is_Active,
9219	9230	a variety of following global data shall be retrieved which are common to the Active flight plan predictions proc
		» ess.
9220	9231	- A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from guidance
9221	9232	- Guidance provided TDP capture tolerance
9222	9233	- when the Engine out status and the VG indicator that Green-Dot Speed is latched,
9223	9234	then the flag indicating that VG is using latched Green-Dot descent speed is set
9224	9235	
9225	9236	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9226	9237	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9227	9238	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9228	9239	
9229	9240	the current flight phase is not climb, Flag indicating the speed targets from FG are valid will not be changed.
9230	9241	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9231  9242      PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)
9232  9243
9233  9244    Ithe current flight phase is cruise
9234  9245    the real time cruise speeds are valid for current working flight plan and the real time
9235  9246    step speeds are valid and a step (climb and descent) is active ,so
9236  9247    -The original step speeds (CAS and Mach) before speed limiting are set to the real
9237  9248    time step speeds (CAS and Mach) respectively.
9238  9249    -The flag indicating Predictions are in step is set based on the Step descent active
9239  9250    flag from Guidance.
9240  9251    -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
9241  9252    respectively.
9242  9253    -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9243  9254     Mach speeds for the active flight plan.
9244  9255
9245  9256    PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9246  9257
9247  9258    the real time descent speeds are valid for current working flight plan
9248  9259    Optimum Econ/LRC descent CAS and Mach shall set to the real time descent CAS and Mach respectively.
9249  9260
9250  9261    PERF_SDD_09064(PERF_SRD_23503_INT,PERF_SRD_2489)
9251  9262
9252  9263
9253  9264 -- INPUTS
9254  9265 Perf_Background_Dpkg.Use_Clb_Autodrt := True
9255  9266 Perf_Dpkg.Potential_To_Kinetic_Share := 200.0
9256  9267 Perf_Dpkg.Des_Potential_To_Kinetic_Share := 501.0
9257  9268 Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass := False
9258  9269 Perf_Background_Dpkg.Psfirstpass := False
9259  9270 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid := False
9260  9271 Navigation_Data.Aircraft_Altitude_Valid := True
9261  9272 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data := 100.00
9262  9273 Navigation_Data.Aircraft_Altitude := 93.20
9263  9274 Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred := True
9264  9275 Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred := True
9265  9276 Perf_Background_Dpkg.Pcconfig := Perf_Config_Dpkg.Fidconfidx
9266  9277 Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd := True
9267  9278 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment := False
9268  9279 Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol := 100.00
9269  9280 Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance  := 188.00
9270  9281 Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9271  9282 Perf_Background_Dpkg.Pcactorsec := Active
9272  9283 Perf_Background_Dpkg.Pcfltphase := Cruise
9273  9284 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9274  9285 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9275	9286	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
9276	9287	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
9277	9288	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9278	9289	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
9279	9290	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
9280	9291	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9281	9292	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
9282	9293	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
9283	9294	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
9284	9295	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9285	9296	Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) := 100.00
9286	9297	Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) := 0.12
9287	9298	Perf_Background_Dpkg.Psinstep := False
9288	9299	Perf_Background_Dpkg.Psstepcas := 200.00
9289	9300	Perf_Background_Dpkg.Psstepmach := 0.35
9290	9301	Perf_Background_Dpkg.Psecncrzmach :=200.0
9291	9302	Perf_Background_Dpkg.Psecncrzcas := 0.55
9292	9303	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 100.12
9293	9304	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.78
9294	9305	Perf_Background_Dpkg.Psthredalt := 100.0
9295	9306	Perf_Background_Dpkg.Psdesthrdalt := 800.0
9296	9307	Perf_Background_Dpkg.Tdp_Level_Seg_At_Or_Below_Clralt := true
9297	9308	Perf_Database_Dpkg.Psmmo := 0.45
9298	9309	Perf_Database_Dpkg.Psvmo :=0.0
9299	9310	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Def_Thrust_Reduction_Alt_Arr(Active).Data(Fprequestrec_Types.Takeoff).Altitude := » 866
9300	9311	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Def_Thrust_Reduction_Alt_Arr(Active).Data(Fprequestrec_Types.Goaround).Altitude := » 955
9301	9312	Perf_Background_Dpkg.Psgrndotdes := False
9302	9313	Perf_Background_Dpkg.Psengout := False
9303	9314	Cdk_Vert_Dpkg:Body.Engine_Out_I := true
9304	9315	Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes := true
9305	9316	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target := True
9306	9317	Perf_Background_Dpkg.Clralt_Below_Des_Spd_Lim_Decel_Start := True
9307	9318	Perf_Background_Dpkg.Below_Path_Pred.Below_DSL_VS_Target := 0.0
9308	9319	
9309	9320	#define Get_Def_Thrust_Reduction_Alt_Called := False
9310	9321	#define Get_Maxop_Delta_Called := False
9311	9322	
9312	9323	#sba prf_bkgnd_pkg.get_bk_Data after_elaboration
9313	9324	# go
9314	9325	Computoldtgt := True
9315	9326	Curspdsval := False
9316	9327	Perf_Background_Dpkg.Psfirstpass := False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9317	9328	Perf_Background_Dpkg.Psonofrstpas := False
9318	9329	Perf_Background_Dpkg.Psftpbwritok := False
9319	9330	Perf_Background_Dpkg.Psvsact := True
9320	9331	Perf_Background_Dpkg.Psfpaact := True
9321	9332	Perf_Background_Dpkg.Pslvlatbcalt := True
9322	9333	Perf_Integration_Dpkg.Pslvlblwpth := True
9323	9334	Perf_Background_Dpkg.Psfi_Possble := True
9324	9335	Perf_Background_Dpkg.On_Icao_Leg_Decel := True
9325	9336	Perf_Background_Dpkg.Psignorehm := True
9326	9337	Perf_Integration_Dpkg.Pcoldwspdchg := Icaolimited
9327	9338	Perf_Background_Dpkg.Adc_Fg_Valid := False
9328	9339	Perf_Background_Dpkg.Psenginesoff := True
9329	9340	Perf_Dpkg.Pcdelspdrec.Predicted := True
9330	9341	Perf_Background_Dpkg.Pcoldeconcas.Valid := True
9331	9342	#DELB/ALL
9332	9343	
9333	9344	#sba Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt after_elab
9334	9345	#go
9335	9346	#define Get_Def_Thrust_Reduction_Alt_Called := True
9336	9347	
9337	9348	#sba Prf_External_Util_Pkg.Get_Maxop_Delta after_elab begin
9338	9349	#define Get_Maxop_Delta_Called := True
9339	9350	#go
9340	9351	#end
9341	9352	
9342	9353	-- to test local variables for PERF_SDD_4155_INT
9343		#sba prf_bkgnd_pkg.get_bk_Data #575
	9354	#sba prf_bkgnd_pkg.get_bk_Data #581
9344	9355	#go
9345	9356	Computoldtgt = False
9346	9357	Curspdsval = True
9347		#delba prf_bkgnd_pkg.get_bk_Data #575
	9358	#delba prf_bkgnd_pkg.get_bk_Data #581
9348	9359	
9349	9360	-- to test PERF_SDD_4155_INT
9350		#sba prf_bkgnd_pkg.get_bk_Data #1466
	9361	#sba prf_bkgnd_pkg.get_bk_Data #1473
9351	9362	#go
9352	9363	Perf_Background_Dpkg.Lim_Max_Op_Cas := 5.0
9353	9364	Perf_Background_Dpkg.Lim_Max_Op_Mach := 0.0
9354		#delba prf_bkgnd_pkg.get_bk_Data #1466
	9365	#delba prf_bkgnd_pkg.get_bk_Data #1473
9355	9366	
9356	9367	#sba prf_bkgnd_pkg.get_bk_Data before_end

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9357   9368  #go
9358   9369  Prf_Bkgnd_Pkg:body.Fgspdsvalid = True
9359   9370  Perf_Background_Dpkg.Psfirstpass = True
9360   9371  Perf_Background_Dpkg.Psonofrstpas = True
9361   9372  Perf_Background_Dpkg.Psftpbwritok = True
9362   9373  Perf_Background_Dpkg.Psvsact = False
9363   9374  Perf_Background_Dpkg.Psfpaact = False
9364   9375  Perf_Background_Dpkg.Pslvlatbcalt = False
9365   9376  Perf_Integration_Dpkg.Pslvlblwpth = False
9366   9377  Perf_Background_Dpkg.Psfi_Possble = False
9367   9378  Perf_Background_Dpkg.On_Icao_Leg_Decel = False
9368   9379  Perf_Background_Dpkg.Psignorehm = False
9369   9380  Perf_Integration_Dpkg.Pcoldwspdchg = Returntoecon
9370   9381  #DELB/ALL
9371   9382
9372   9383  !run_test()
9373   9384
9374   9385  -- OUTPUTS
9375   9386  Get_Def_Thrust_Reduction_Alt_Called = True
9376   9387  Perf_Background_Dpkg.Use_Clb_Autodrt = False
9377   9388  Perf_Dpkg.Potential_To_Kinetic_Share = 501.0
9378   9389  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass = TRUE
9379   9390  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid = TRUE
9380   9391  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data = 93.2
9381   9392  Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred = False
9382   9393  Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred = False
9383   9394  Perf_Background_Dpkg.Pcconfig = Perf_Config_Dpkg.Clean
9384   9395  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment = True
9385   9396  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol = 188.00
9386   9397  Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) = 288.0
9387   9398  Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) = 0.66
9388   9399  Perf_Background_Dpkg.Psinstep = True
9389   9400  Perf_Background_Dpkg.Psstepcas = 288.0
9390   9401  Perf_Background_Dpkg.Psstepmach = 0.66
9391   9402  Perf_Background_Dpkg.Psecncrzmach = 0.55
9392   9403  Perf_Background_Dpkg.Psecncrzcas = 265.0
9393   9404  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas =265.0
9394   9405  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach =0.55
9395   9406  Perf_Background_Dpkg.Psthredalt = 866.0
9396   9407  Perf_Background_Dpkg.Psdesthrdalt = 955.0
9397   9408  Get_Maxop_Delta_Called  = True
9398   9409  Perf_Background_Dpkg.Lim_Max_Op_Cas  = 0.0
9399   9410  Perf_Background_Dpkg.Lim_Max_Op_Mach  = 0.45
9400   9411  Perf_Background_Dpkg.Psgrndotdes = true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9401    9412  Perf_Background_Dpkg.Clralt_Below_Des_Spd_Lim_Decel_Start  = False
9402    9413  Perf_Background_Dpkg.Below_Path_Pred.Below_DSL_VS_Target  = -8.333
9403    9414
9404    9415  --------------------------------------------------------------------------------------------------
              » --
9405    9416  TESTID: 74
9406    9417
9407    9418      the working flight plan is Copy_From_Active,
9408    9419      a variety of following global data shall be retrieved which are common to the Active flight plan predictions pr
              » ocess.
9409    9420      - A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from
9410    9421      guidance
9411    9422      - Guidance provided TDP capture tolerance
9412    9423     - when the Engine out status and the VG indicator that Green-Dot Speed is latched,
9413    9424       The flag indicating that VG is using latched Green-Dot descent speed is set.
9414    9425
9415    9426         PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9416    9427              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9417    9428              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9418    9429
9419    9430      the current flight phase is cruise
9420    9431      the real time cruise speeds are not valid for current working flight plan and the real time
9421    9432      step speeds are valid and a step (climb) is not active and a step (descent) is active , then:
9422    9433      -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9423    9434
9424    9435       PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9425    9436
9426    9437      the real time descent speeds are not valid for current working flight plan then
9427    9438      Optimum Econ/LRC descent CAS and Mach shall not set to the real time descent CAS and Mach respectively.
9428    9439
9429    9440       PERF_SDD_09064(PERF_SRD_23503_INT,PERF_SRD_2489)
9430    9441
9431    9442
9432    9443  -- INPUTS
9433    9444  Perf_Background_Dpkg.Use_Clb_Autodrt := True
9434    9445  Perf_Dpkg.Potential_To_Kinetic_Share := 200.0
9435    9446  Perf_Dpkg.Des_Potential_To_Kinetic_Share := 501.0
9436    9447  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass := False
9437    9448  Perf_Background_Dpkg.Psfirstpass := False
9438    9449  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid := False
9439    9450  Navigation_Data.Aircraft_Altitude_Valid := True
9440    9451  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data := 100.00
9441    9452  Navigation_Data.Aircraft_Altitude := 93.20
9442    9453  Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9443	9454	Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred := True
9444	9455	Perf_Background_Dpkg.Pcconfig := Perf_Config_Dpkg.Fidconfidx
9445	9456	Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd := True
9446	9457	Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment := False
9447	9458	Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol := 100.00
9448	9459	Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance := 188.00
9449	9460	Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Copy_From_Active
9450	9461	Perf_Background_Dpkg.Pcactorsec := Active
9451	9462	Perf_Background_Dpkg.Pcfltphase := Cruise
9452	9463	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9453	9464	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := False
9454	9465	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
9455	9466	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
9456	9467	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9457	9468	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
9458	9469	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
9459	9470	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := False
9460	9471	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
9461	9472	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
9462	9473	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
9463	9474	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9464	9475	Cdk_Vert_Dpkg:Body.Engine_Out_I := true
9465	9476	Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes := true
9466	9477	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target := True
9467	9478	
9468	9479	--initial the output
9469		#sba prf_bkgnd_pkg.get_bk_Data #1062
	9480	#sba prf_bkgnd_pkg.get_bk_Data #1069
9470	9481	#go
9471	9482	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
9472	9483	
9473	9484	#sba prf_bkgnd_pkg.get_bk_Data before_end
9474	9485	#go
9475	9486	Prf_Bkgnd_Pkg:body.Fgspdsvalid = False
9476	9487	
9477	9488	#delb/all
9478	9489	!run_test()
9479	9490	
9480	9491	-- OUTPUTS
9481	9492	Perf_Background_Dpkg.Use_Clb_Autodrt = False
9482	9493	Perf_Dpkg.Potential_To_Kinetic_Share = 501.0
9483	9494	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass = TRUE
9484	9495	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid = TRUE
9485	9496	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data = 93.2

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9486  9497  Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred = False
9487  9498  Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred = False
9488  9499  Perf_Background_Dpkg.Pcconfig = Perf_Config_Dpkg.Clean
9489  9500  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment = True
9490  9501  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol = 188.00
9491  9502
9492  9503  ------------------------------------------------------------------------------------------------
            » --
9493  9504  TESTID: 75
9494  9505
9495  9506        the current flight phase is cruise
9496  9507        the real time cruise speeds are valid for current working flight plan and the real time
9497  9508        step speeds are not valid and  a step (climb) is active and a step (descent) is not active , then:
9498  9509        -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9499  9510
9500  9511         PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9501  9512
9502  9513
9503  9514  -- INPUTS
9504  9515  Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9505  9516  Perf_Background_Dpkg.Pcactorsec := Active
9506  9517  Perf_Background_Dpkg.Pcfltphase := Cruise
9507  9518  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9508  9519  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9509  9520  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := False
9510  9521  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9511  9522  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
9512  9523  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
9513  9524  Cdk_Vert_Dpkg:Body.Engine_Out_I := true
9514  9525  Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes := true
9515  9526  Prf_Bkgnd_Pkg:body.Fgspdsvalid := False
9516  9527  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target  := True
9517  9528
9518  9529  --initial the output
9519        #sba prf_bkgnd_pkg.get_bk_Data #1062
      9530  #sba prf_bkgnd_pkg.get_bk_Data #1069
9520  9531  #go
9521  9532  Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
9522  9533
9523  9534  #sba prf_bkgnd_pkg.get_bk_Data before_end
9524  9535  #go
9525  9536  Prf_Bkgnd_Pkg:body.Fgspdsvalid = False
9526  9537  #delb/all
9527  9538
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9528 | 9539 | !run_test()
9529 | 9540 |
9530 | 9541 | -- OUTPUTS
9531 | 9542 |
9532 | 9543 | -----------------------------------------------------------------------------------------------------
      |      | » --
9533 | 9544 | TESTID: 76
9534 | 9545 |       Ihe current flight phase is cruise
9535 | 9546 |       the real time cruise speeds are valid for current working flight plan and the real time
9536 | 9547 |       step speeds are valid and a step (climb) is not active and a step (descent)  is not active, then:
9537 | 9548 |       -The original step speeds (CAS and Mach) before speed limiting are set to the real
9538 | 9549 |       time step speeds (CAS and Mach) respectively.
9539 | 9550 |       -The flag indicating Predictions are in step is set based on the Step descent active
9540 | 9551 |       flag from Guidance.
9541 | 9552 |       -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
9542 | 9553 |       respectively.
9543 | 9554 |       -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9544 | 9555 |       Mach speeds for the active flight plan.
9545 | 9556 |
9546 | 9557 |        PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9547 | 9558 |
9548 | 9559 |
9549 | 9560 | -- INPUTS
9550 | 9561 | Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9551 | 9562 | Perf_Background_Dpkg.Pcactorsec := Active
9552 | 9563 | Perf_Background_Dpkg.Pcfltphase := Cruise
9553 | 9564 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9554 | 9565 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9555 | 9566 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
9556 | 9567 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
9557 | 9568 | Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9558 | 9569 | Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
9559 | 9570 | Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
9560 | 9571 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9561 | 9572 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
9562 | 9573 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
9563 | 9574 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
9564 | 9575 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
9565 | 9576 | Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec ) := 100.00
9566 | 9577 | Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec ) := 0.12
9567 | 9578 | Perf_Background_Dpkg.Psinstep := True
9568 | 9579 | Perf_Background_Dpkg.Psstepcas := 200.00
9569 | 9580 | Perf_Background_Dpkg.Psstepmach := 0.35
9570 | 9581 | Perf_Background_Dpkg.Psecncrzmach :=200.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9571	9582	`Perf_Background_Dpkg.Psecncrzcas := 0.55`
9572	9583	`Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 100.12`
9573	9584	`Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.78`
9574	9585	`Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target   := True`
9575	9586	
9576	9587	`--initial the output`
9577		`#sba prf_bkgnd_pkg.get_bk_Data #1062`
	9588	`#sba prf_bkgnd_pkg.get_bk_Data #1069`
9578	9589	`#go`
9579	9590	`Prf_Bkgnd_Pkg:body.Fgspdsvalid := True`
9580	9591	
9581	9592	`#sba prf_bkgnd_pkg.get_bk_Data before_end`
9582	9593	`#go`
9583	9594	`Prf_Bkgnd_Pkg:body.Fgspdsvalid = True`
9584	9595	
9585	9596	`#delb/all`
9586	9597	`!run_test()`
9587	9598	
9588	9599	`-- OUTPUTS`
9589	9600	`Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) = 288.0`
9590	9601	`Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) = 0.66`
9591	9602	`Perf_Background_Dpkg.Psinstep = False`
9592	9603	`Perf_Background_Dpkg.Psstepcas = 288.0`
9593	9604	`Perf_Background_Dpkg.Psstepmach = 0.66`
9594	9605	`Perf_Background_Dpkg.Psecncrzmach = 0.55`
9595	9606	`Perf_Background_Dpkg.Psecncrzcas = 265.0`
9596	9607	`Perf_Background_Dpkg.Pcoptinitspd.Des.Cas =265.0`
9597	9608	`Perf_Background_Dpkg.Pcoptinitspd.Des.Mach =0.55`
9598	9609	
9599	9610	`-------------------------------------------------------------------------------------------------------`
		`» --`
9600	9611	`TESTID: 77`
9601	9612	
9602	9613	`     the current flight phase is cruise`
9603	9614	`     the real time cruise speeds are not valid for current working flight plan and the real time`
9604	9615	`     step speeds are valid and a step (climb and descent) is active, then:`
9605	9616	`     -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.`
9606	9617	
9607	9618	`      PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)`
9608	9619	
9609	9620	
9610	9621	`-- INPUTS`
9611	9622	`Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active -- Perf_Int_Base_Tpkg.Copy_From_Active`
9612	9623	`Perf_Background_Dpkg.Pcactorsec := Active`

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9613	9624	Perf_Background_Dpkg.Pcfltphase := Cruise
9614	9625	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9615	9626	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := False
9616	9627	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9617	9628	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9618	9629	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
9619	9630	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9620	9631	
9621	9632	--initial the output
9622		#sba prf_bkgnd_pkg.get_bk_Data #1062
	9633	#sba prf_bkgnd_pkg.get_bk_Data #1069
9623	9634	#go
9624	9635	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
9625	9636	
9626	9637	#sba prf_bkgnd_pkg.get_bk_Data before_end
9627	9638	#go
9628	9639	Prf_Bkgnd_Pkg:body.Fgspdsvalid = False
9629	9640	
9630	9641	#delb/all
9631	9642	!run_test()
9632	9643	
9633	9644	-- OUTPUTS
9634	9645	
9635	9646	--- » --
9636	9647	TESTID: 78
9637	9648	
9638	9649	the current flight phase is cruise
9639	9650	the real time cruise speeds are valid for current working flight plan and the real time
9640	9651	step speeds are not valid and a step (climb and descent) is active, then:
9641	9652	-Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9642	9653	
9643	9654	PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9644	9655	
9645	9656	
9646	9657	-- INPUTS
9647	9658	Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9648	9659	Perf_Background_Dpkg.Pcactorsec := Active
9649	9660	Perf_Background_Dpkg.Pcfltphase := Cruise
9650	9661	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9651	9662	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9652	9663	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := False
9653	9664	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9654	9665	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9655	9666	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9656	9667	
9657	9668	--initial the output
9658		#sba prf_bkgnd_pkg.get_bk_Data #1062
	9669	#sba prf_bkgnd_pkg.get_bk_Data #1069
9659	9670	#go
9660	9671	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
9661	9672	
9662	9673	#sba prf_bkgnd_pkg.get_bk_Data before_end
9663	9674	#go
9664	9675	Prf_Bkgnd_Pkg:body.Fgspdsvalid = False
9665	9676	
9666	9677	#delb/all
9667	9678	!run_test()
9668	9679	
9669	9680	-- OUTPUTS
9670	9681	
9671	9682	---
		» --
9672	9683	
9673	9684	TESTID: 79
9674	9685	
9675	9686	the current flight phase is cruise
9676	9687	the real time cruise speeds are valid for current working flight plan and the real time
9677	9688	step speeds are not valid and a step Climb is not active,descent is active then:
9678	9689	-Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9679	9690	
9680	9691	PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9681	9692	
9682	9693	
9683	9694	-- INPUTS
9684	9695	Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9685	9696	Perf_Background_Dpkg.Pcactorsec := Active
9686	9697	Perf_Background_Dpkg.Pcfltphase := Cruise
9687	9698	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9688	9699	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9689	9700	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := False
9690	9701	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9691	9702	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
9692	9703	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9693	9704	
9694	9705	--initial the output
9695		#sba prf_bkgnd_pkg.get_bk_Data #1062
	9706	#sba prf_bkgnd_pkg.get_bk_Data #1069

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9696	9707	#go
9697	9708	Prf_Bkgnd_Pkg:body.Fgspdsvalid := True
9698	9709	
9699	9710	#sba prf_bkgnd_pkg.get_bk_Data before_end
9700	9711	#go
9701	9712	Prf_Bkgnd_Pkg:body.Fgspdsvalid = False
9702	9713	
9703	9714	#delb/all
9704	9715	!run_test()
9705	9716	
9706	9717	-- OUTPUTS
9707	9718	
9708	9719	---
		» --
9709	9720	TESTID: 80
9710	9721	Ihe current flight phase is cruise
9711	9722	the real time cruise speeds are valid for current working flight plan and the real time
9712	9723	step speeds are valid and a step (climb) is active and a step (descent) is not active, then:
9713	9724	-The original step speeds (CAS and Mach) before speed limiting are set to the real
9714	9725	time step speeds (CAS and Mach) respectively.
9715	9726	-The flag indicating Predictions are in step is set based on the Step descent active
9716	9727	flag from Guidance.
9717	9728	-The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
9718	9729	respectively.
9719	9730	-Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9720	9731	Mach speeds for the active flight plan.
9721	9732	
9722	9733	PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9723	9734	
9724	9735	
9725	9736	-- INPUTS
9726	9737	Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9727	9738	Perf_Background_Dpkg.Pcactorsec := Active
9728	9739	Perf_Background_Dpkg.Pcfltphase := Cruise
9729	9740	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9730	9741	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9731	9742	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
9732	9743	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
9733	9744	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9734	9745	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
9735	9746	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
9736	9747	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9737	9748	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
9738	9749	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9739    9750  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
9740    9751  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := False
9741    9752  Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec ) := 100.00
9742    9753  Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec ) := 0.12
9743    9754  Perf_Background_Dpkg.Psinstep := True
9744    9755  Perf_Background_Dpkg.Psstepcas := 200.00
9745    9756  Perf_Background_Dpkg.Psstepmach := 0.35
9746    9757  Perf_Background_Dpkg.Psecncrzmach :=200.0
9747    9758  Perf_Background_Dpkg.Psecncrzcas := 0.55
9748    9759  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 100.12
9749    9760  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.78
9750    9761  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target  := True
9751    9762
9752    9763  !run_test()
9753    9764
9754    9765  -- OUTPUTS
9755    9766  Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) = 288.0
9756    9767  Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) = 0.66
9757    9768  Perf_Background_Dpkg.Psinstep = False
9758    9769  Perf_Background_Dpkg.Psstepcas = 288.0
9759    9770  Perf_Background_Dpkg.Psstepmach = 0.66
9760    9771  Perf_Background_Dpkg.Psecncrzmach = 0.55
9761    9772  Perf_Background_Dpkg.Psecncrzcas = 265.0
9762    9773  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas =265.0
9763    9774  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach =0.55
9764    9775
9765    9776  --------------------------------------------------------------------------------------------------------------
              » --
9766    9777  TESTID: 81
9767    9778       Ihe current flight phase is cruise
9768    9779       the real time cruise speeds are valid for current working flight plan and the real time
9769    9780       step speeds are valid and a step (climb) is not active and a step (descent)  is active, then:
9770    9781       -The original step speeds (CAS and Mach) before speed limiting are set to the real
9771    9782       time step speeds (CAS and Mach) respectively.
9772    9783       -The flag indicating Predictions are in step is set based on the Step descent active
9773    9784       flag from Guidance.
9774    9785       -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
9775    9786       respectively.
9776    9787       -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9777    9788       Mach speeds for the active flight plan.
9778    9789
9779    9790        PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9780    9791
9781    9792
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9782   9793 -- INPUTS
9783   9794 Perf_Background_Dpkg.Flight_Plan_Type := Perf_Int_Base_Tpkg.Is_Active
9784   9795 Perf_Background_Dpkg.Pcactorsec := Active
9785   9796 Perf_Background_Dpkg.Pcfltphase := Cruise
9786   9797 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Cruise
9787   9798 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid := True
9788   9799 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas := 265.0
9789   9800 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach := 0.55
9790   9801 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid := True
9791   9802 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas := 288.0
9792   9803 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach := 0.66
9793   9804 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid := True
9794   9805 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas := 265.0
9795   9806 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach := 0.55
9796   9807 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := False
9797   9808 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
9798   9809 Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec ) := 100.00
9799   9810 Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec ) := 0.12
9800   9811 Perf_Background_Dpkg.Psinstep := True
9801   9812 Perf_Background_Dpkg.Psstepcas := 200.00
9802   9813 Perf_Background_Dpkg.Psstepmach := 0.35
9803   9814 Perf_Background_Dpkg.Psecncrzmach :=200.0
9804   9815 Perf_Background_Dpkg.Psecncrzcas := 0.55
9805   9816 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 100.12
9806   9817 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach := 0.78
9807   9818 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target  := True
9808   9819
9809   9820 !run_test()
9810   9821
9811   9822 -- OUTPUTS
9812   9823 Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec) = 288.0
9813   9824 Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec) = 0.66
9814   9825 Perf_Background_Dpkg.Psinstep = True
9815   9826 Perf_Background_Dpkg.Psstepcas = 288.0
9816   9827 Perf_Background_Dpkg.Psstepmach = 0.66
9817   9828 Perf_Background_Dpkg.Psecncrzmach = 0.55
9818   9829 Perf_Background_Dpkg.Psecncrzcas = 265.0
9819   9830 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas =265.0
9820   9831 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach =0.55
9821   9832
9822   9833 TESTID: 82
9823   9834
9824   9835 Verify the working flight plan is Is_Active, a variety of following global data shall be
9825   9836 retrieved which are common to the Active flight plan predictions process.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9826	9837	- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9827	9838	Data and Valid values respectively.
9828	9839	- Guidance provided PFD display speed and its validity.
9829	9840	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9830	9841	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9831	9842	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9832	9843	
9833	9844	
9834	9845	--Input
9835	9846	
9836	9847	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
9837	9848	
9838	9849	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data := 0.0
9839	9850	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid := False
9840	9851	
9841	9852	Guid_Spds_Dpkg.Pfd_Display_Speed.Valid := True
9842	9853	Guid_Spds_Dpkg.Pfd_Display_Speed.Data := 1.0
9843	9854	Perf_Background_Dpkg.Pfd_Display_Speed.Valid := False
9844	9855	Perf_Background_Dpkg.Pfd_Display_Speed.Data := 0.0
9845	9856	--verify the output
9846		#sba prf_bkgnd_pkg.get_bk_Data #806
	9857	#sba prf_bkgnd_pkg.get_bk_Data #813
9847	9858	#go
9848	9859	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data = 5.0
9849	9860	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid = True
9850		#delba prf_bkgnd_pkg.get_bk_Data #806
	9861	#delba prf_bkgnd_pkg.get_bk_Data #813
9851	9862	
9852	9863	!run_test()
9853	9864	
9854	9865	-- OUTPUTS
9855	9866	
9856	9867	Perf_Background_Dpkg.Pfd_Display_Speed.Valid = True
9857	9868	Perf_Background_Dpkg.Pfd_Display_Speed.Data = 1.0
9858	9869	
9859	9870	
9860	9871	TESTID: 83
9861	9872	
9862	9873	Verify the working flight plan is Copy_From_Active, a variety of following global data shall be
9863	9874	retrieved which are common to the Active flight plan predictions process.
9864	9875	- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9865	9876	Data and Valid values respectively.
9866	9877	- Guidance provided PFD display speed and its validity.
9867	9878	In this case: the validity is false.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9868	9879	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9869	9880	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9870	9881	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9871	9882	
9872	9883	
9873	9884	--Input
9874	9885	
9875	9886	Perf_Background_Dpkg.Flight_Plan_Type := Copy_From_Active
9876	9887	
9877	9888	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data := 0.0
9878	9889	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid := False
9879	9890	
9880	9891	Guid_Spds_Dpkg.Pfd_Display_Speed.Valid := False
9881	9892	Guid_Spds_Dpkg.Pfd_Display_Speed.Data := 0.0
9882	9893	Perf_Background_Dpkg.Pfd_Display_Speed.Valid := True
9883	9894	Perf_Background_Dpkg.Pfd_Display_Speed.Data := 1.0
9884	9895	--verify the output
9885		#sba prf_bkgnd_pkg.get_bk_Data #806
	9896	#sba prf_bkgnd_pkg.get_bk_Data #813
9886	9897	#go
9887	9898	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data = 5.0
9888	9899	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid = True
9889		#delba prf_bkgnd_pkg.get_bk_Data #806
	9900	#delba prf_bkgnd_pkg.get_bk_Data #813
9890	9901	
9891	9902	!run_test()
9892	9903	
9893	9904	-- OUTPUTS
9894	9905	
9895	9906	Perf_Background_Dpkg.Pfd_Display_Speed.Valid = False
9896	9907	Perf_Background_Dpkg.Pfd_Display_Speed.Data = 0.0
9897	9908	
9898	9909	TESTID: 84
9899	9910	
9900	9911	Verify the working flight plan is Indep_From_Active,a variety of following global data be not retrieved
9901	9912	- A/C altitude and its validity
9902	9913	- A/C position
9903	9914	- A/C track and its validity
9904	9915	- A/C ground speed and its validity
9905	9916	- Wind bearing
9906	9917	- Wind magnitude
9907	9918	- Wind validity
9908	9919	- Health status of Engines (Inboard and Outboard Engines of Captain and FO)
9909	9920	- Throttle lever angle (Inboard and Outboard Engines of Captain and FO)

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9910  9921        - A/C flightphase
9911  9922        - Clock time
9912  9923        - FE maneuver speed and validity
9913  9924        - Airborne flag
9914  9925          when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is true
9915  9926          and Perf_Background_Dpkg.Pcfltphase is not Preflight and Done;
9916  9927        - Lateral auto mode flag
9917  9928        - Current aircraft cross track error from guidance.
9918  9929        - Level change auto control mode flag
9919  9930        - Vertical auto mode flag
9920  9931        - Third altitude from guidance
9921  9932        - Current altitude constraint management related data(Pccuraltcstr) from guidance
9922  9933        - Previous captured barometric altitude related data (Pcprebcalt) from guidance
9923  9934        - A/C is descending from level segment or alt constraint (Early_Descent_From_Level) from guidance
9924  9935        - Engine-out flag
9925  9936        - Engines off status
9926  9937        - Number of engines out via Prf_Aeroeng_Pkg.Get_Num_Eng_Out
9927  9938        -when Perf_Background_Dpkg.Pcpathref is not Onpath the descent path is not be captured
9928  9939        - Cruise altitude from Fpln_Ext_Dpkg.Get_Cruise_Alt
9929  9940        - Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9930  9941          Data and Valid values respectively.
9931  9942        - when Sel_Src_Inertial_Vert_Speed is valid, A/C inertial vertical speed is Io_Common_Irs_Dpkg.Data
9932  9943        - Speed mode from Guid_Ext_Dpkg.Va3vertmde
9933  9944        - Active Speed Restriction Annunciation from Guid_Ext_Dpkg.Active_Speed_Restriction
9934  9945        -  when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Activeis valid, Altitude Hold mode flag status from FMGC via th
             » e interface
9935  9946        - Final descent mode flag from FMGC armed or active status via the interfaces
9936  9947           Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Active.Data and
9937  9948           Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Armed.Data
9938  9949        - A/C configuration via Prf_Acstate_Pkg.Get_Ac_Config
9939  9950        - A/C airbrake extension indicator to zero airbrake
9940  9951        - Step climb & step descent active flags (Psstpclbact & Psstpdesact) are set from guidance.
9941  9952        -  when the Engine out status and the VG indicator that Green-Dot Speed is not latched,
9942  9953        then the flag indicating that VG is using latched Green-Dot descent speed is not set
9943  9954      - Guidance provided PFD display speed and its validity when the valid is true.
9944  9955        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9945  9956        PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9946  9957        PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9947  9958
9948  9959
9949  9960  --Input
9950  9961
9951  9962  Perf_Background_Dpkg.Flight_Plan_Type := Indep_From_Active
9952  9963  Perf_Background_Dpkg.Pcactorsec := Secondary
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
9953  9964
9954  9965  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
9955  9966  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid := True
9956  9967  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.20
9957  9968  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data := 32.30
9958  9969
9959  9970  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data  := 0.0
9960  9971  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid := False
9961  9972
9962  9973  Guid_Spds_Dpkg.Pfd_Display_Speed.Valid   := True
9963  9974  Guid_Spds_Dpkg.Pfd_Display_Speed.Data    := 1.0
9964  9975  Perf_Background_Dpkg.Pfd_Display_Speed.Valid := False
9965  9976  Perf_Background_Dpkg.Pfd_Display_Speed.Data   := 0.0
9966  9977
9967  9978  Perf_Background_Dpkg.Pcgmttime.Hour := 0
9968  9979  Perf_Background_Dpkg.Pcgmttime.Minute := 0
9969  9980  Perf_Background_Dpkg.Pcgmttime.Second := 0
9970  9981  Perf_Background_Dpkg.Psairborne :=  True
9971  9982  Perf_Background_Dpkg.Ac_Crosstrack_Error := 1.0
9972  9983  Perf_Background_Dpkg.Psautolat := True
9973  9984  Perf_Background_Dpkg.Psengout := True
9974  9985  Perf_Background_Dpkg.Psenginesoff := True
9975  9986  Perf_Background_Dpkg.Psvgonpath := True
9976  9987  Perf_Integration_DPkg.Pcairbrakes := Fullab
9977  9988  Perf_Background_Dpkg.Psstpclbact := False
9978  9989  Perf_Background_Dpkg.Psstpdesact := False
9979  9990  Perf_Background_Dpkg.Pcmanspd.Speed.CAS          := 1.0
9980  9991  Perf_Background_Dpkg.Pcmanspd.CASVALID         := True
9981  9992  Perf_Background_Dpkg.Pcmanspd.Speed.MACH         := 1.0
9982  9993  Perf_Background_Dpkg.Pcmanspd.MACHVALID        := True
9983  9994  Perf_Background_Dpkg.Pccuraltcstr.Data         := 1.0
9984  9995  Perf_Background_Dpkg.Pccuraltcstr.Valid        := True
9985  9996  Perf_Background_Dpkg.Pccuraltcstr.Legidx       := 1
9986  9997  Perf_Background_Dpkg.Pccuraltcstr.Lgidval       := True
9987  9998  Perf_Background_Dpkg.Pccuraltcstr.Usevga       := True
9988  9999  Perf_Background_Dpkg.Pccuraltcstr.Vgaidx       := 1
9989  10000 Perf_Background_Dpkg.Pcprebcalt.Data          := 1.0
9990  10001 Perf_Background_Dpkg.Pcprebcalt.Valid         := True
9991  10002 Perf_Background_Dpkg.Pc3rdalt.Data            := 1.0
9992  10003 Perf_Background_Dpkg.Pc3rdalt.Valid           := True
9993  10004 Perf_Background_Dpkg.Pslcautoctl              := True
9994  10005 Perf_Background_Dpkg.Vert_Auto_Mode            := True
9995  10006 Perf_Background_Dpkg.Early_Descent_From_Level    := False
9996  10007 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment := False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

9997	10008	Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol := 1.0
9998	10009	Perf_Background_Dpkg.Psinertvs := 0.0
9999	10010	Perf_Background_Dpkg.Speed_Annunciation.Cas := 0.0
10000	10011	Perf_Background_Dpkg.Speed_Annunciation.Alt := 0.0
10001	10012	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type := Vg_Ext_Tpkg.Invalid
10002	10013	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident := " "
10003	10014	Perf_Background_Dpkg.Altholdmode := False
10004	10015	Perf_Background_Dpkg.Psgrndotdes := False
10005	10016	Perf_Background_Dpkg.Vman_Fe.Data := 1.0
10006	10017	Perf_Background_Dpkg.Vman_Fe.Valid := True
10007	10018	Perf_Background_Dpkg.Pcspeedmode := Perf_Ext_Tpkg.Vmecon
10008	10019	
10009	10020	Guid_Ext_Dpkg.Galxtk := 2.49
10010	10021	Fmcs_Partition_Data_Pkg.Ops_Time.Hour := 2
10011	10022	Fmcs_Partition_Data_Pkg.Ops_Time.Minute := 2
10012	10023	Fmcs_Partition_Data_Pkg.Ops_Time.Second := 2
10013	10024	Guid_Ext_Dpkg.Active_Speed_Restriction.Cas := 330.0
10014	10025	Guid_Ext_Dpkg.Active_Speed_Restriction.Alt := 15500.0
10015	10026	Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type := Vg_Ext_Tpkg.Des_Spd_Lim
10016	10027	Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident := "ABCDEFG"
10017	10028	--Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active.Is_Valid & data
10018	10029	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3 := true
10019	10030	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active := » true
10020	10031	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_1_Inboard := True
10021	10032	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5 := True
10022	10033	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_2_Inboard := True
10023	10034	
10024	10035	Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim := True
10025	10036	Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd := True
10026	10037	Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance := 2.0
10027	10038	Guid_Ext_Dpkg.Va3Vertmde := Perf_Ext_Tpkg.Vmnone
10028	10039	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact := True
10029	10040	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact := True
10030	10041	
10031	10042	#define Perf_Get_State_Pkg_Get_State_called := False
10032	10043	#define Fpln_Ext_Dpkg_Get_Flight_Phase_called := False
10033	10044	#define Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called := False
10034	10045	#define Fpln_Ext_Dpkg_Get_Cruise_Alt_called := False
10035	10046	#define Prf_Acstate_Pkg_Get_Ac_Config_called := False
10036	10047	
10037	10048	#sba Perf_Get_State_Pkg.Get_State af begin
10038	10049	#define Perf_Get_State_Pkg_Get_State_called := True
10039	10050	#go

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

10040	10051	#end
10041	10052	
10042	10053	#sba Fpln_Ext_Dpkg.Get_Flight_Phase af begin
10043	10054	#define Fpln_Ext_Dpkg_Get_Flight_Phase_called := True
10044	10055	#go
10045	10056	#end
10046	10057	
10047	10058	#sba Prf_Aeroeng_Pkg.Get_Num_Eng_Out af begin
10048	10059	#define Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called := True
10049	10060	#go
10050	10061	#end
10051	10062	
10052	10063	#sba Fpln_Ext_Dpkg.Get_Cruise_Alt af begin
10053	10064	#define Fpln_Ext_Dpkg_Get_Cruise_Alt_called := True
10054	10065	#go
10055	10066	#end
10056	10067	
10057	10068	#sba Prf_Acstate_Pkg.Get_Ac_Config af begin
10058	10069	#define Prf_Acstate_Pkg_Get_Ac_Config_called := True
10059	10070	#go
10060	10071	#end
10061	10072	
10062	10073	--initial the output
10063		#sba prf_bkgnd_pkg.get_bk_Data #575
	10074	#sba prf_bkgnd_pkg.get_bk_Data #581
10064	10075	#go
10065	10076	--Final_Des_Mode := False
10066	10077	--Final_Des_Armed := False
10067	10078	Eng_Healthy1_Inboard := False
10068	10079	Eng_Healthy1_Outboard := False
10069	10080	Eng_Healthy2_Inboard := False
10070	10081	Eng_Healthy2_Outboard := False
10071	10082	Tla_Ecu1_Inboard.Data := 0.0
10072	10083	Tla_Ecu1_Inboard.Valid := False
10073	10084	Tla_Ecu1_Outboard.Data := 1.0
10074	10085	Tla_Ecu1_Outboard.Valid := True
10075	10086	Tla_Ecu2_Inboard.Data := 0.0
10076	10087	Tla_Ecu2_Inboard.Valid := False
10077	10088	Tla_Ecu2_Outboard.Data := 1.0
10078	10089	Tla_Ecu2_Outboard.Valid := True
10079		#delba prf_bkgnd_pkg.get_bk_Data #575
	10090	#delba prf_bkgnd_pkg.get_bk_Data #581
10080	10091	
10081	10092	--verify the output

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

10082		~~#sba prf_bkgnd_pkg.get_bk_Data #1323~~
	10093	#sba prf_bkgnd_pkg.get_bk_Data #1330
10083	10094	#go
10084	10095	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data = 0.0
10085	10096	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid = False
10086	10097	--Final_Des_Mode = False
10087	10098	--Final_Des_Armed = False
10088	10099	Eng_Healthy1_Inboard = False
10089	10100	Eng_Healthy1_Outboard = False
10090	10101	Eng_Healthy2_Inboard = False
10091	10102	Eng_Healthy2_Outboard = False
10092	10103	Tla_Ecu1_Inboard.Data = 0.0
10093	10104	Tla_Ecu1_Inboard.Valid = False
10094	10105	Tla_Ecu1_Outboard.Data = 1.0
10095	10106	Tla_Ecu1_Outboard.Valid = True
10096	10107	Tla_Ecu2_Inboard.Data = 0.0
10097	10108	Tla_Ecu2_Inboard.Valid = False
10098	10109	Tla_Ecu2_Outboard.Data = 1.0
10099	10110	Tla_Ecu2_Outboard.Valid = True
10100	10111	Fpln_Ext_Dpkg_Get_Cruise_Alt_called = False
10101	10112	Perf_Background_Dpkg.Psairborne = True
10102	10113	Perf_Background_Dpkg.Ac_Crosstrack_Error = 1.0
10103	10114	Perf_Background_Dpkg.Pccuraltcstr.Valid = True
10104	10115	Perf_Background_Dpkg.Pcprebcalt.Valid = True
10105	10116	Perf_Integration_DPkg.Pcairbrakes = Fullab
10106	10117	Perf_Background_Dpkg.Psengout = True
10107		~~#delba prf_bkgnd_pkg.get_bk_Data #1323~~
	10118	#delba prf_bkgnd_pkg.get_bk_Data #1330
10108	10119	
10109	10120	!run_test()
10110	10121	
10111	10122	-- OUTPUTS
10112	10123	
10113	10124	Perf_Background_Dpkg.Pfd_Display_Speed.Valid = False
10114	10125	Perf_Background_Dpkg.Pfd_Display_Speed.Data = 0.0
10115	10126	Perf_Get_State_Pkg_Get_State_called = False
10116	10127	Fpln_Ext_Dpkg_Get_Flight_Phase_called = False
10117	10128	Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called = False
10118	10129	Prf_Acstate_Pkg_Get_Ac_Config_called = False
10119	10130	Perf_Background_Dpkg.Pcgmttime.Hour = 0
10120	10131	Perf_Background_Dpkg.Pcgmttime.Minute = 0
10121	10132	Perf_Background_Dpkg.Pcgmttime.Second = 0
10122	10133	Perf_Background_Dpkg.Vman_Fe.Data = 1.0
10123	10134	Perf_Background_Dpkg.Vman_Fe.Valid = True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10124  10135  Perf_Background_Dpkg.Psautolat          = True
10125  10136  Perf_Background_Dpkg.Psenginesoff        = True
10126  10137  Perf_Background_Dpkg.Pc3rdalt.Data       = 1.0
10127  10138  Perf_Background_Dpkg.Pc3rdalt.Valid      = True
10128  10139  Perf_Background_Dpkg.Pslcautoctl         = True
10129  10140  Perf_Background_Dpkg.Vert_Auto_Mode      = True
10130  10141  Perf_Background_Dpkg.Pccuraltcstr.Data     = 1.0
10131  10142  Perf_Background_Dpkg.Pccuraltcstr.Legidx   = 1
10132  10143  Perf_Background_Dpkg.Pccuraltcstr.Lgidval = True
10133  10144  Perf_Background_Dpkg.Pccuraltcstr.Usevga   = True
10134  10145  Perf_Background_Dpkg.Pccuraltcstr.Vgaidx   = 1
10135  10146  Perf_Background_Dpkg.Pcprebcalt.Data       = 1.0
10136  10147  Perf_Background_Dpkg.Early_Descent_From_Level    = False
10137  10148  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment = False
10138  10149  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol = 1.0
10139  10150  Perf_Background_Dpkg.Psvgonpath = True
10140  10151  Perf_Background_Dpkg.Psinertvs = 0.0
10141  10152  Perf_Background_Dpkg.Pcspeedmode = Perf_Ext_Tpkg.Vmecon
10142  10153  Perf_Background_Dpkg.Speed_Annunciation.Cas          = 0.0
10143  10154  Perf_Background_Dpkg.Speed_Annunciation.Alt          = 0.0
10144  10155  Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type  = Vg_Ext_Tpkg.Invalid
10145  10156  Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident       = "          "
10146  10157  Perf_Background_Dpkg.Altholdmode  = False
10147  10158  Perf_Background_Dpkg.Psstpclbact = False
10148  10159  Perf_Background_Dpkg.Psstpdesact = False
10149  10160  Perf_Background_Dpkg.Psgrndotdes = False
10150  10161
10151  10162  ----------------------------------------------------------------------------------
10152  10163  TESTID: 85
10153  10164
10154  10165  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10155  10166  Approach, then the Optimum Descent speeds shall be set as follows:
10156  10167  if the following are true:
10157  10168    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10158  10169      - The A/C is currently in a deceleration, and either:
10159  10170        - The predictions count is less than or equal to one, or
10160  10171        - The current working flight plan is Active and the difference between the current prediction sequence
10161  10172          counter and starting prediction sequence counter is less than or equal to 2, or
10162  10173        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10163  10174          being processed is Current Mode predictions(Normal or High Priority) ,or
10164  10175        - First Preds After Insert Temporary indication is True;
10165  10176      - The A/C is not in Auto Lateral mode,
10166  10177      - Approach Speeds have been latched.
10167  10178  then,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10168 10179    Optimum Descent CAS is set to the VG Partially-Limited CAS
10169 10180  otherwise,
10170 10181    Optimum Descent CAS is set to current VG CAS target.
10171 10182  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10172 10183  -- VG Partially-Limited CAS is non-zero.
10173 10184  -- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds indicatio
                 » n
10174 10185  -- is True and the itinerary being processed is Current Mode predictions(Normal)
10175 10186  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
10176 10187
10177 10188      REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10178 10189
10179 10190      SUPPORTING REQUIREMENTS : N/A
10180 10191
10181 10192
10182 10193  -- INPUTS
10183 10194  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                := 0.0
10184 10195  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase        := Descent
10185 10196  Perf_Background_Dpkg.Pcfltphase                          := Descent
10186 10197  Perf_Background_Dpkg.Pcactorsec                          := Active
10187 10198  Guid_Spds_Dpkg.Vc3prtlimcas                              := 5.0
10188 10199  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply          := True
10189 10200  Perf_Background_Dpkg.Psautolat                           := True
10190 10201  Guid_Ext_Dpkg.Gcxxlatautoc                               := True
10191 10202  Perf_Background_Dpkg.Psappspdlat                         := False
10192 10203  Perf_Background_Dpkg.Pcpredcount(Active)                 := 3
10193 10204  Perf_Dpkg.Psfrstactprd                                   := True
10194 10205  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                         := False
10195 10206  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                      := 345.0
10196 10207  Perf_Background_Dpkg.Pcitin.Itinerary                    := Current_Mode_Preds
10197 10208
10198 10209  !run_test()
10199 10210  -- OUTPUTS
10200 10211
10201 10212  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                =  5.0
10202 10213
10203 10214  ---------------------------------------------------------------------------------
10204 10215  TESTID: 86
10205 10216
10206 10217  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10207 10218  Approach, then the Optimum Descent speeds shall be set as follows:
10208 10219  if the following are true:
10209 10220    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10210 10221      - The A/C is currently in a deceleration, and either:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10211 10222          - The predictions count is less than or equal to one, or
10212 10223          - The current working flight plan is Active and the difference between the current prediction sequence
10213 10224            counter and starting prediction sequence counter is less than or equal to 2, or
10214 10225          - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10215 10226            being processed is Current Mode predictions(Normal or High Priority) ,or
10216 10227          - First Preds After Insert Temporary indication is True;
10217 10228        - The A/C is not in Auto Lateral mode,
10218 10229        - Approach Speeds have been latched.
10219 10230 then,
10220 10231    Optimum Descent CAS is set to the VG Partially-Limited CAS
10221 10232 otherwise,
10222 10233    Optimum Descent CAS is set to current VG CAS target.
10223 10234 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10224 10235 -- VG Partially-Limited CAS is non-zero.
10225 10236 -- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds indicatio
                 » n
10226 10237 -- is True and the itinerary being processed is Current Mode predictions(High Priority)
10227 10238 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
10228 10239
10229 10240    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10230 10241
10231 10242    SUPPORTING REQUIREMENTS : N/A
10232 10243
10233 10244
10234 10245 -- INPUTS
10235 10246 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
10236 10247 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase     := Descent
10237 10248 Perf_Background_Dpkg.Pcfltphase                       := Descent
10238 10249 Perf_Background_Dpkg.Pcactorsec                       := Active
10239 10250 Guid_Spds_Dpkg.Vc3prtlimcas                           := 5.0
10240 10251 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply       := True
10241 10252 Perf_Background_Dpkg.Psautolat                        := True
10242 10253 Guid_Ext_Dpkg.Gcxxlatautoc                            := True
10243 10254 Perf_Background_Dpkg.Psappspdlat                      := False
10244 10255 Perf_Background_Dpkg.Pcpredcount(Active)              := 3
10245 10256 Perf_Dpkg.Psfrstactprd                                := True
10246 10257 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                      := False
10247 10258 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                   := 345.0
10248 10259 Perf_Background_Dpkg.Pcitin.Itinerary                := Current_Mode_Hi_Pri
10249 10260
10250 10261 !run_test()
10251 10262 -- OUTPUTS
10252 10263
10253 10264 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas             =  5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10254 10265
10255 10266 -----------------------------------------------------------------------------
10256 10267 TESTID: 87
10257 10268
10258 10269 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10259 10270 Approach, then the Optimum Descent speeds shall be set as follows:
10260 10271 if the following are true:
10261 10272   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10262 10273     - The A/C is currently in a deceleration, and either:
10263 10274       - The predictions count is less than or equal to one, or
10264 10275       - The current working flight plan is Active and the difference between the current prediction sequence
10265 10276         counter and starting prediction sequence counter is less than or equal to 2, or
10266 10277       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10267 10278         being processed is Current Mode predictions(Normal or High Priority) ,or
10268 10279       - First Preds After Insert Temporary indication is True;
10269 10280     - The A/C is not in Auto Lateral mode,
10270 10281     - Approach Speeds have been latched.
10271 10282 then,
10272 10283   Optimum Descent CAS is set to the VG Partially-Limited CAS
10273 10284 otherwise,
10274 10285   Optimum Descent CAS is set to current VG CAS target.
10275 10286 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10276 10287 -- VG Partially-Limited CAS is non-zero.
10277 10288 -- The A/C is not currently in a deceleration and First Preds After Insert Temporary indication is True.
10278 10289 -- Optimum Descent CAS is set to current VG CAS target.
10279 10290
10280 10291    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10281 10292
10282 10293    SUPPORTING REQUIREMENTS : N/A
10283 10294
10284 10295
10285 10296 -- INPUTS
10286 10297 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                := 0.0
10287 10298 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase       := Descent
10288 10299 Perf_Background_Dpkg.Pcfltphase                         := Descent
10289 10300 Perf_Background_Dpkg.Pcactorsec                         := Active
10290 10301 Guid_Spds_Dpkg.Vc3prtlimcas                             := 5.0
10291 10302 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply         := False
10292 10303 Perf_Background_Dpkg.Psautolat                          := True
10293 10304 Guid_Ext_Dpkg.Gcxxlatautoc                              := True
10294 10305 Perf_Background_Dpkg.Psappspdlat                        := False
10295 10306 Perf_Background_Dpkg.Pcpredcount(Active)                := 3
10296 10307 Perf_Dpkg.Psfrstactprd                                  := False
10297 10308 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10298 10309 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                            := 345.0
10299 10310
10300 10311 !run_test()
10301 10312 -- OUTPUTS
10302 10313
10303 10314 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                      =  345.0
10304 10315
10305 10316 --------------------------------------------------------------------------------
10306 10317 TESTID: 88
10307 10318
10308 10319 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10309 10320 Approach, then the Optimum Descent speeds shall be set as follows:
10310 10321 if the following are true:
10311 10322   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10312 10323     - The A/C is currently in a deceleration, and either:
10313 10324       - The predictions count is less than or equal to one, or
10314 10325       - The current working flight plan is Active and the difference between the current prediction sequence
10315 10326         counter and starting prediction sequence counter is less than or equal to 2, or
10316 10327       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10317 10328         being processed is Current Mode predictions(Normal or High Priority) ,or
10318 10329       - First Preds After Insert Temporary indication is True;
10319 10330     - The A/C is not in Auto Lateral mode,
10320 10331     - Approach Speeds have been latched.
10321 10332 then,
10322 10333   Optimum Descent CAS is set to the VG Partially-Limited CAS
10323 10334 otherwise,
10324 10335   Optimum Descent CAS is set to current VG CAS target.
10325 10336 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10326 10337 -- VG Partially-Limited CAS is non-zero.
10327 10338 -- The A/C is currently in a deceleration and predictions count is less than one.
10328 10339 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
10329 10340
10330 10341    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10331 10342
10332 10343    SUPPORTING REQUIREMENTS : N/A
10333 10344
10334 10345
10335 10346 -- INPUTS
10336 10347 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                      := 0.0
10337 10348 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase             := Descent
10338 10349 Perf_Background_Dpkg.Pcfltphase                               := Descent
10339 10350 Perf_Background_Dpkg.Pcactorsec                               := Active
10340 10351 Guid_Spds_Dpkg.Vc3prtlimcas                                   := 5.0
10341 10352 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply              := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10342  10353  Perf_Background_Dpkg.Psautolat                              := True
10343  10354  Guid_Ext_Dpkg.Gcxxlatautoc                                  := True
10344  10355  Perf_Background_Dpkg.Psappspdlat                            := False
10345  10356  Perf_Background_Dpkg.Pcpredcount(Active)                    := 0
10346  10357  Perf_Dpkg.Psfrstactprd                                      := False
10347  10358  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                            := False
10348  10359  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                         := 345.0
10349  10360
10350  10361  !run_test()
10351  10362  -- OUTPUTS
10352  10363
10353  10364  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas          =  5.0
10354  10365
10355  10366  -------------------------------------------------------------------------------
10356  10367  TESTID: 89
10357  10368
10358  10369  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10359  10370  Approach, then the Optimum Descent speeds shall be set as follows:
10360  10371  if the following are true:
10361  10372    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10362  10373      - The A/C is currently in a deceleration, and either:
10363  10374        - The predictions count is less than or equal to one, or
10364  10375        - The current working flight plan is Active and the difference between the current prediction sequence
10365  10376          counter and starting prediction sequence counter is less than or equal to 2, or
10366  10377        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10367  10378          being processed is Current Mode predictions(Normal or High Priority) ,or
10368  10379        - First Preds After Insert Temporary indication is True;
10369  10380      - The A/C is not in Auto Lateral mode,
10370  10381      - Approach Speeds have been latched.
10371  10382  then,
10372  10383    Optimum Descent CAS is set to the VG Partially-Limited CAS
10373  10384  otherwise,
10374  10385    Optimum Descent CAS is set to current VG CAS target.
10375  10386  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10376  10387  -- VG Partially-Limited CAS is non-zero.
10377  10388  -- The A/C is currently in a deceleration and predictions count is greater than one.
10378  10389  -- Optimum Descent CAS is set to current VG CAS target.
10379  10390
10380  10391    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10381  10392
10382  10393    SUPPORTING REQUIREMENTS : N/A
10383  10394
10384  10395
10385  10396  -- INPUTS
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10386  10397 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
10387  10398 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase      := Descent
10388  10399 Perf_Background_Dpkg.Pcfltphase                        := Descent
10389  10400 Perf_Background_Dpkg.Pcactorsec                        := Active
10390  10401 Guid_Spds_Dpkg.Vc3prtlimcas                            := 5.0
10391  10402 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply        := True
10392  10403 Perf_Background_Dpkg.Psautolat                         := True
10393  10404 Guid_Ext_Dpkg.Gcxxlatautoc                             := True
10394  10405 Perf_Background_Dpkg.Psappspdlat                       := False
10395  10406 Perf_Background_Dpkg.Pcpredcount(Active)               := 3
10396  10407 Perf_Dpkg.Psfrstactprd                                 := False
10397  10408 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                       := False
10398  10409 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                    := 345.0
10399  10410
10400  10411 !run_test()
10401  10412 -- OUTPUTS
10402  10413
10403  10414 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  345.0
10404  10415
10405  10416 --------------------------------------------------------------------------------
10406  10417 TESTID: 90
10407  10418
10408  10419 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10409  10420 Approach, then the Optimum Descent speeds shall be set as follows:
10410  10421 if the following are true:
10411  10422   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10412  10423     - The A/C is currently in a deceleration, and either:
10413  10424       - The predictions count is less than or equal to one, or
10414  10425       - The current working flight plan is Active and the difference between the current prediction sequence
10415  10426         counter and starting prediction sequence counter is less than or equal to 2, or
10416  10427       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10417  10428         being processed is Current Mode predictions(Normal or High Priority) ,or
10418  10429       - First Preds After Insert Temporary indication is True;
10419  10430     - The A/C is not in Auto Lateral mode,
10420  10431     - Approach Speeds have been latched.
10421  10432 then,
10422  10433   Optimum Descent CAS is set to the VG Partially-Limited CAS
10423  10434 otherwise,
10424  10435   Optimum Descent CAS is set to current VG CAS target.
10425  10436 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10426  10437 -- VG Partially-Limited CAS is non-zero.
10427  10438 -- The A/C is currently in a deceleration and The current working flight plan is Temporary and the difference
10428  10439 -- between the current prediction sequence counter and starting prediction sequence counter is equal to 2.
10429  10440 -- Optimum Descent CAS is set to current VG CAS target.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10430 10441
10431 10442       REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10432 10443
10433 10444       SUPPORTING REQUIREMENTS : N/A
10434 10445
10435 10446
10436 10447 -- INPUTS
10437 10448 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
10438 10449 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase     := Descent
10439 10450 Perf_Background_Dpkg.Pcfltphase                       := Descent
10440 10451 Perf_Background_Dpkg.Pcactorsec                       := Temporary
10441 10452 Guid_Spds_Dpkg.Vc3prtlimcas                           := 5.0
10442 10453 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply       := True
10443 10454 Perf_Background_Dpkg.Psautolat                        := True
10444 10455 Guid_Ext_Dpkg.Gcxxlatautoc                            := True
10445 10456 Perf_Background_Dpkg.Psappspdlat                      := False
10446 10457 Perf_Background_Dpkg.Pcpredcount(Temporary)           := 3
10447 10458 Perf_Background_Dpkg.Active_Start_Predcount           := 1
10448 10459 Perf_Dpkg.Psfrstactprd                                := False
10449 10460 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                       := False
10450 10461 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                    := 345.0
10451 10462
10452 10463 !run_test()
10453 10464 -- OUTPUTS
10454 10465
10455 10466 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas             =  345.0
10456 10467
10457 10468 -------------------------------------------------------------------------------
10458 10469 TESTID: 91
10459 10470
10460 10471 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10461 10472 Approach, then the Optimum Descent speeds shall be set as follows:
10462 10473 if the following are true:
10463 10474   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10464 10475     - The A/C is currently in a deceleration, and either:
10465 10476       - The predictions count is less than or equal to one, or
10466 10477       - The current working flight plan is Active and the difference between the current prediction sequence
10467 10478       counter and starting prediction sequence counter is less than or equal to 2, or
10468 10479       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10469 10480       being processed is Current Mode predictions(Normal or High Priority) ,or
10470 10481       - First Preds After Insert Temporary indication is True;
10471 10482     - The A/C is not in Auto Lateral mode,
10472 10483     - Approach Speeds have been latched.
10473 10484 then,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10474  10485    Optimum Descent CAS is set to the VG Partially-Limited CAS
10475  10486  otherwise,
10476  10487    Optimum Descent CAS is set to current VG CAS target.
10477  10488  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10478  10489  -- VG Partially-Limited CAS is non-zero.
10479  10490  -- The A/C is currently in a deceleration and The current working flight plan is Active and the difference
10480  10491  -- between the current prediction sequence counter and starting prediction sequence counter is less than 2.
10481  10492  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
10482  10493
10483  10494     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10484  10495
10485  10496     SUPPORTING REQUIREMENTS : N/A
10486  10497
10487  10498
10488  10499  -- INPUTS
10489  10500  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas               := 0.0
10490  10501  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase      := Descent
10491  10502  Perf_Background_Dpkg.Pcfltphase                        := Descent
10492  10503  Perf_Background_Dpkg.Pcactorsec                        := Active
10493  10504  Guid_Spds_Dpkg.Vc3prtlimcas                            := 5.0
10494  10505  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply        := True
10495  10506  Perf_Background_Dpkg.Psautolat                         := True
10496  10507  Guid_Ext_Dpkg.Gcxxlatautoc                             := True
10497  10508  Perf_Background_Dpkg.Psappspdlat                       := False
10498  10509  Perf_Background_Dpkg.Pcpredcount(Active)               := 3
10499  10510  Perf_Background_Dpkg.Active_Start_Predcount            := 2
10500  10511  Perf_Dpkg.Psfrstactprd                                 := False
10501  10512  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := False
10502  10513  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                     := 345.0
10503  10514
10504  10515  !run_test()
10505  10516  -- OUTPUTS
10506  10517
10507  10518  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  5.0
10508  10519
10509  10520  ----------------------------------------------------------------------------------------
10510  10521  TESTID: 92
10511  10522
10512  10523  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10513  10524  Approach, then the Optimum Descent speeds shall be set as follows:
10514  10525  if the following are true:
10515  10526    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10516  10527      - The A/C is currently in a deceleration, and either:
10517  10528        - The predictions count is less than or equal to one, or
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10518  10529        - The current working flight plan is Active and the difference between the current prediction sequence
10519  10530          counter and starting prediction sequence counter is less than or equal to 2, or
10520  10531        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10521  10532          being processed is Current Mode predictions(Normal or High Priority) ,or
10522  10533        - First Preds After Insert Temporary indication is True;
10523  10534      - The A/C is not in Auto Lateral mode,
10524  10535      - Approach Speeds have been latched.
10525  10536  then,
10526  10537    Optimum Descent CAS is set to the VG Partially-Limited CAS
10527  10538  otherwise,
10528  10539    Optimum Descent CAS is set to current VG CAS target.
10529  10540  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10530  10541  -- VG Partially-Limited CAS is non-zero.
10531  10542  -- The A/C is currently in a deceleration and The current working flight plan is Active and the difference
10532  10543  -- between the current prediction sequence counter and starting prediction sequence counter is greater than 2.
10533  10544  -- Optimum Descent CAS is set to current VG CAS target.
10534  10545
10535  10546     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10536  10547
10537  10548     SUPPORTING REQUIREMENTS : N/A
10538  10549
10539  10550
10540  10551  -- INPUTS
10541  10552  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                := 0.0
10542  10553  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase       := Descent
10543  10554  Perf_Background_Dpkg.Pcfltphase                         := Descent
10544  10555  Perf_Background_Dpkg.Pcactorsec                         := Active
10545  10556  Guid_Spds_Dpkg.Vc3prtlimcas                             := 5.0
10546  10557  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply         := True
10547  10558  Perf_Background_Dpkg.Psautolat                          := True
10548  10559  Guid_Ext_Dpkg.Gcxxlatautoc                              := True
10549  10560  Perf_Background_Dpkg.Psappspdlat                        := False
10550  10561  Perf_Background_Dpkg.Pcpredcount(Active)                := 3
10551  10562  Perf_Background_Dpkg.Active_Start_Predcount             := 0
10552  10563  Perf_Dpkg.Psfrstactprd                                  := False
10553  10564  Perf_Dpkg.Insrt_Tmpy_Frst_Preds                        := False
10554  10565  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                     := 345.0
10555  10566
10556  10567  !run_test()
10557  10568  -- OUTPUTS
10558  10569
10559  10570  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas               =  345.0
10560  10571
10561  10572  --------------------------------------------------------------------------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10562  10573 TESTID: 93
10563  10574
10564  10575 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10565  10576 Approach, then the Optimum Descent speeds shall be set as follows:
10566  10577 if the following are true:
10567  10578   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10568  10579     - The A/C is currently in a deceleration, and either:
10569  10580       - The predictions count is less than or equal to one, or
10570  10581       - The current working flight plan is Active and the difference between the current prediction sequence
10571  10582         counter and starting prediction sequence counter is less than or equal to 2, or
10572  10583       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10573  10584         being processed is Current Mode predictions(Normal or High Priority) ,or
10574  10585       - First Preds After Insert Temporary indication is True;
10575  10586     - The A/C is not in Auto Lateral mode,
10576  10587     - Approach Speeds have been latched.
10577  10588 then,
10578  10589   Optimum Descent CAS is set to the VG Partially-Limited CAS
10579  10590 otherwise,
10580  10591   Optimum Descent CAS is set to current VG CAS target.
10581  10592 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10582  10593 -- VG Partially-Limited CAS is non-zero.
10583  10594 -- The A/C is currently in a deceleration and current working flight plan is Temporary and First Tactical Preds
10584  10595 -- indication is True and the itinerary being processed is Current Mode predictions(Normal)
10585  10596 -- Optimum Descent CAS is set to current VG CAS target.
10586  10597
10587  10598     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10588  10599
10589  10600     SUPPORTING REQUIREMENTS : N/A
10590  10601
10591  10602
10592  10603 -- INPUTS
10593  10604 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                := 0.0
10594  10605 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase       := Descent
10595  10606 Perf_Background_Dpkg.Pcfltphase                          := Descent
10596  10607 Perf_Background_Dpkg.Pcactorsec                          := Temporary
10597  10608 Guid_Spds_Dpkg.Vc3prtlimcas                             := 5.0
10598  10609 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply         := True
10599  10610 Perf_Background_Dpkg.Psautolat                           := True
10600  10611 Guid_Ext_Dpkg.Gcxxlatautoc                              := True
10601  10612 Perf_Background_Dpkg.Psappspdlat                         := False
10602  10613 Perf_Background_Dpkg.Pcpredcount(Temporary)             := 3
10603  10614 Perf_Dpkg.Psfrstactprd                                  := True
10604  10615 Perf_Dpkg.Insrt_Tmpy_Frst_Preds                         := False
10605  10616 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                     := 345.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10606  10617  Perf_Background_Dpkg.Pcitin.Itinerary                        := Current_Mode_Preds
10607  10618
10608  10619  !run_test()
10609  10620  -- OUTPUTS
10610  10621
10611  10622  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  345.0
10612  10623
10613  10624  -------------------------------------------------------------------------------------
10614  10625  TESTID: 94
10615  10626
10616  10627  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10617  10628  Approach, then the Optimum Descent speeds shall be set as follows:
10618  10629  if the following are true:
10619  10630    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10620  10631      - The A/C is currently in a deceleration, and either:
10621  10632        - The predictions count is less than or equal to one, or
10622  10633        - The current working flight plan is Active and the difference between the current prediction sequence
10623  10634          counter and starting prediction sequence counter is less than or equal to 2, or
10624  10635        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10625  10636          being processed is Current Mode predictions(Normal or High Priority) ,or
10626  10637        - First Preds After Insert Temporary indication is True;
10627  10638      - The A/C is not in Auto Lateral mode,
10628  10639      - Approach Speeds have been latched.
10629  10640  then,
10630  10641    Optimum Descent CAS is set to the VG Partially-Limited CAS
10631  10642  otherwise,
10632  10643    Optimum Descent CAS is set to current VG CAS target.
10633  10644  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10634  10645  -- VG Partially-Limited CAS is non-zero.
10635  10646  -- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds
10636  10647  -- indication is False and the itinerary being processed is Current Mode predictions(Normal)
10637  10648  -- Optimum Descent CAS is set to current VG CAS target.
10638  10649
10639  10650     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10640  10651
10641  10652     SUPPORTING REQUIREMENTS : N/A
10642  10653
10643  10654
10644  10655  -- INPUTS
10645  10656  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              := 0.0
10646  10657  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase     := Descent
10647  10658  Perf_Background_Dpkg.Pcfltphase                       := Descent
10648  10659  Perf_Background_Dpkg.Pcactorsec                       := Active
10649  10660  Guid_Spds_Dpkg.Vc3prtlimcas                           := 5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10650 | 10661 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply        := True
10651 | 10662 | Perf_Background_Dpkg.Psautolat                         := True
10652 | 10663 | Guid_Ext_Dpkg.Gcxxlatautoc                             := True
10653 | 10664 | Perf_Background_Dpkg.Psappspdlat                       := False
10654 | 10665 | Perf_Background_Dpkg.Pcpredcount(Active)               := 3
10655 | 10666 | Perf_Dpkg.Psfrstactprd                                 := False
10656 | 10667 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds                       := False
10657 | 10668 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data                    := 345.0
10658 | 10669 | Perf_Background_Dpkg.Pcitin.Itinerary                 := Current_Mode_Preds
10659 | 10670 |
10660 | 10671 | !run_test()
10661 | 10672 | -- OUTPUTS
10662 | 10673 |
10663 | 10674 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas              =  345.0
10664 | 10675 |
10665 | 10676 | --------------------------------------------------------------------------------
10666 | 10677 | TESTID: 95
10667 | 10678 |
10668 | 10679 | if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10669 | 10680 | Approach, then the Optimum Descent speeds shall be set as follows:
10670 | 10681 | if the following are true:
10671 | 10682 |   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10672 | 10683 |     - The A/C is currently in a deceleration, and either:
10673 | 10684 |       - The predictions count is less than or equal to one, or
10674 | 10685 |       - The current working flight plan is Active and the difference between the current prediction sequence
10675 | 10686 |         counter and starting prediction sequence counter is less than or equal to 2, or
10676 | 10687 |       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10677 | 10688 |         being processed is Current Mode predictions(Normal or High Priority) ,or
10678 | 10689 |       - First Preds After Insert Temporary indication is True;
10679 | 10690 |     - The A/C is not in Auto Lateral mode,
10680 | 10691 |     - Approach Speeds have been latched.
10681 | 10692 | then,
10682 | 10693 |   Optimum Descent CAS is set to the VG Partially-Limited CAS
10683 | 10694 | otherwise,
10684 | 10695 |   Optimum Descent CAS is set to current VG CAS target.
10685 | 10696 | -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10686 | 10697 | -- VG Partially-Limited CAS is non-zero.
10687 | 10698 | -- The A/C is currently in a deceleration and First Preds After Insert Temporary indication is False.
10688 | 10699 | -- Optimum Descent CAS is set to current VG CAS target.
10689 | 10700 |
10690 | 10701 |     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10691 | 10702 |
10692 | 10703 |     SUPPORTING REQUIREMENTS : N/A
10693 | 10704 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

10694	10705	
10695	10706	-- INPUTS
10696	10707	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas := 0.0
10697	10708	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase := Descent
10698	10709	Perf_Background_Dpkg.Pcfltphase := Descent
10699	10710	Perf_Background_Dpkg.Pcactorsec := Active
10700	10711	Guid_Spds_Dpkg.Vc3prtlimcas := 5.0
10701	10712	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply := True
10702	10713	Perf_Background_Dpkg.Psautolat := True
10703	10714	Guid_Ext_Dpkg.Gcxxlatautoc := True
10704	10715	Perf_Background_Dpkg.Psappspdlat := False
10705	10716	Perf_Background_Dpkg.Pcpredcount(Active) := 3
10706	10717	Perf_Dpkg.Psfrstactprd := False
10707	10718	Perf_Dpkg.Insrt_Tmpy_Frst_Preds := False
10708	10719	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data := 345.0
10709	10720	
10710	10721	!run_test()
10711	10722	-- OUTPUTS
10712	10723	
10713	10724	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas = 345.0
10714	10725	
10715	10726	---
	10727	TESTID: 96
	10728	
	10729	The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se » t to true,
	10730	if all of the following conditions are satisfied:
	10731	- Level change auto control mode is engaged.
	10732	- The descent path reference is set to Onpath.
	10733	- The current working flight plan is Active.
	10734	-- In this case,
	10735	-- Level change auto control mode is engaged.
	10736	-- The descent path reference is set to Onpath.
	10737	-- The current working flight plan is Active.
	10738	
	10739	REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
	10740	
	10741	SUPPORTING REQUIREMENTS : N/A
	10742	
	10743	
	10744	-- INPUTS
	10745	Perf_Background_Dpkg.Flight_Plan_Type := Is_Active
	10746	Guid_Ext_Dpkg.Va3lcautoctl := True
	10747	Perf_Background_Dpkg.Pcpathref := Onpath

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10748 Perf_Background_Dpkg.Pcactorsec                      := Active
10749 Perf_Background_Dpkg.Psvgonpath                      := False
10750 Guid_Ext_Dpkg.Va3pathref                             := Onpath
10751 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase    := Descent
10752
10753 !run_test()
10754 -- OUTPUTS
10755
10756 Perf_Background_Dpkg.Psvgonpath                        = True
10757
10758 ------------------------------------------------------------------------------
10759 TESTID: 97
10760
10761 The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
    » t to true,
10762 if all of the following conditions are satisfied:
10763   - Level change auto control mode is engaged.
10764   - The descent path reference is set to Onpath.
10765   - The current working flight plan is Active.
10766 -- In this case,
10767 -- Level change auto control mode is not engaged.
10768 -- The descent path reference is set to Onpath.
10769 -- The current working flight plan is Active.
10770
10771     REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10772
10773     SUPPORTING REQUIREMENTS : N/A
10774
10775
10776 -- INPUTS
10777 Perf_Background_Dpkg.Flight_Plan_Type                := Is_Active
10778 Guid_Ext_Dpkg.Va3lcautoctl                           := False
10779 Perf_Background_Dpkg.Pcpathref                       := Onpath
10780 Perf_Background_Dpkg.Pcactorsec                      := Active
10781 Perf_Background_Dpkg.Psvgonpath                      := True
10782 Guid_Ext_Dpkg.Va3pathref                             := Onpath
10783 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase    := Descent
10784
10785 !run_test()
10786 -- OUTPUTS
10787
10788 Perf_Background_Dpkg.Psvgonpath                        = False
10789
10790 ------------------------------------------------------------------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10791 TESTID: 98
10792
10793 The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
      » t to true,
10794 if all of the following conditions are satisfied:
10795   - Level change auto control mode is engaged.
10796   - The descent path reference is set to Onpath.
10797   - The current working flight plan is Active.
10798 -- In this case,
10799 -- Level change auto control mode is engaged.
10800 -- The descent path reference is set to Nopath.
10801 -- The current working flight plan is Active.
10802
10803    REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10804
10805    SUPPORTING REQUIREMENTS : N/A
10806
10807
10808 -- INPUTS
10809 Perf_Background_Dpkg.Flight_Plan_Type            := Is_Active
10810 Guid_Ext_Dpkg.Va3lcautoctl                       := True
10811 Perf_Background_Dpkg.Pcpathref                   := Nopath
10812 Perf_Background_Dpkg.Pcactorsec                  := Active
10813 Perf_Background_Dpkg.Psvgonpath                  := True
10814 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase  := Cruise
10815
10816 !run_test()
10817 -- OUTPUTS
10818
10819 Perf_Background_Dpkg.Psvgonpath                  = False
10820
10821 -------------------------------------------------------------------------------
10822 TESTID: 99
10823
10824 The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
      » t to true,
10825 if all of the following conditions are satisfied:
10826   - Level change auto control mode is engaged.
10827   - The descent path reference is set to Onpath.
10828   - The current working flight plan is Active.
10829 -- In this case,
10830 -- Level change auto control mode is engaged.
10831 -- The descent path reference is set to Onpath.
10832 -- The current working flight plan is Secondary.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TDF (continued)

```
10833
10834      REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10835
10836      SUPPORTING REQUIREMENTS : N/A
10837
10838
10839 -- INPUTS
10840 Perf_Background_Dpkg.Flight_Plan_Type                := Is_Active
10841 Guid_Ext_Dpkg.Va3lcautoctl                           := True
10842 Perf_Background_Dpkg.Pcpathref                       := Onpath
10843 Perf_Background_Dpkg.Pcactorsec                      := Secondary
10844 Perf_Background_Dpkg.Psvgonpath                      := True
10845 Guid_Ext_Dpkg.Va3pathref                             := Onpath
10846 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase    := Descent
10847
10848 !run_test()
10849 -- OUTPUTS
10850
10851 Perf_Background_Dpkg.Psvgonpath                        = False
10852
10853 --------------------------------------------------------------------------------
```

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TRT

```
 1     1 |!*******************************************************************************************
 2     2 |!*
 3     3 |!* TRACE FILENAME          :CTP_A350_PERF_BKGND_GET_BK_DATA.TRT
 4     4 |!*
 5     5 |!* MODIFICATION HISTORY :
 6     6 |!*                               DATE         SCR #       AUTHOR          DESCRIPTION
 7     7 |!*                               =====        =====       ======          ===========
 8     8 |!*
 9     9 |!*                          1-Aug-2011     1991.91     Bao Tingjie       Updated for A350 S1 Baseline on build A01082.
10    10 |!*                                                                     1.Re-used trace file from A380 Cert2 and Updated
         » as
11    11 |!*                                                                       A350 standards
12    12 |!*                                                                     2.Deleted the following anchors PERF_SDD_08116_I
         » NT,
13    13 |!*                                                                       PERF_SDD_07539_INT,PERF_SDD_07541_INT,PERF_SDD
         » _2248
14    14 |!*                                                                       and PERF_SRD_6015
15    15 |!*                                                                     3.Added the following anchors PERF_SDD_08171_INT
         » ,
16    16 |!*                                                                       PERF_SDD_08225_INT,PERF_SDD_08227_INT,PERF_SDD
         » _08226,
17    17 |!*                                                                       PERF_SRD_23387 and PERF_SRD_23549
18    18 |!*
19    19 |!*                          DEC-25-2011    3149.08     Hao Zhilian       Updated for A350 S1.1 on build A01187.
20    20 |!*                                                                     1.Added SRD anchor PERF_SRD_23775 as per SCR 875
         » .15.
21    21 |!*                                                                     2.Added SDD anchor PERF_SDD_08665、PERF_SDD_0866
         » 6 and
22    22 |!*                                                                       PERF_SDD_08667 as per SCR 875.16.
23    23 |!*                                                                     3.Added SDD anchor PERF_SDD_08588_INT as per SCR
         »  391.01.
24    24 |!*                                                                     4.Deleted SDD anchor PERF_SDD_3731_INT as per SC
         » R 494.01.
25    25 |!*
26    26 |!*                          Feb-19-2012    3149.08     Hao Zhilian       Reworked for A350 S1.1 on build A01187.
27    27 |!*                                                                     1.Added SRD anchor PERF_SRD_23774 as per SCR 875
         » .15.
28    28 |!*
29    29 |!*                          3-July-2012    4418.03     Sun Likun        Updated for A350 S2 Baseline on bulid A01256.
30    30 |!*                                                                     1.Added PERF_SRD_23964, PERF_SRD_23965,
31    31 |!*                                                                       and PERF_SRD_24100 under SCR 2889.04.
32    32 |!*
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TRT (continued)

```
33    33 |!*                          20-Nov-2012     5391.10      Dun Qing         Updated for A350 S2 on build A01283.
34    34 |!*                                                                           1. Updated as per 3652.00
35    35 |!*                                                                             A. Added following SRD anchor:
36    36 |!*                                                                                PERF_SRD_2801, PERF_SRD_23365, PERF_SRD_23455,
37    37 |!*                                                                                PERF_SRD_23478, PERF_SRD_23491,PERF_SRD_23503_I
         » NT,
38    38 |!*                                                                                PERF_SRD_2489
39    39 |!*                                                                             B. Added following SDD anchor:
40    40 |!*                                                                                PERF_SDD_09063, PERF_SDD_09064
41    41 |!*
42    42 |!*                          17-Jul-2013     7226.01      Jiang Xiaomin     Updated for A350 S3 on build A01344.
43    43 |!*                                                                           1.Added the anchor PERF_SRD_6005_INT as per scr
         » 3184.01.
44    44 |!*
45    45 |!*                          11-Sep-2013     7854.01      Ye Lin           Updated for A350 S3 on build A01365.
46    46 |!*                                                                           1. Changed PERF_SDD_07540_INT to PERF_SDD_07540
         »  as per scr 7708.01.
47    47 |!*
48    48 |!*                          14-Oct-2013     7854.01      Ye Lin           Rework after HTSC inspection.
49    49 |!*                                                                           1. Modified the previous history.
50    50 |!*
51    51 |!*                          15-Oct-2013     7854.01      Ye Lin           Rework after self-review.
52    52 |!*                                                                           1. Deleted PERF_SRD_10721 because it do not nee
         » d to be tested here.
53    53 |!*
      54 |!*                          26-Dec-2013     8073.01      Lin Ye           Updated for A350 phase 5 on build A01418.
      55 |!*                                                                           1. Updated as per SCR# 8053.01:
      56 |!*                                                                            A. Added PERF_SDD_09201_INT.
      57 |!*
54    58 |!*****************************************************************************************************************************
         » ***********
55    59 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_0409
56    60 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_0410
57    61 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_0412_INT
58    62 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_0417_INT
59    63 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_0418_INT
60    64 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2123_INT
61    65 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2174_INT
62    66 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2177_INT
63    67 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2249_INT
64    68 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2276_INT
65    69 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2293_INT
66    70 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2852_INT
67    71 |A350     SDD     A350_PERF_TEST_2401     PERF_SDD_2853_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TRT (continued)

```
 68     72 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3053_INT
 69     73 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3055_INT
 70     74 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3105
 71     75 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3317_INT
 72     76 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3482_INT
 73     77 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3681_INT
 74     78 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3682_INT
 75     79 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3718
 76     80 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3746_INT
 77     81 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_3887
 78     82 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_4155_INT
 79     83 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_4327
 80     84 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_4328
 81     85 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_4339
 82     86 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_5607_INT
 83     87 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_5608_INT
 84     88 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_5609_INT
 85     89 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_5610_INT
 86     90 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_5611_INT
 87     91 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07160_INT
 88     92 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07169_INT
 89     93 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07188_INT
 90     94 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07496_INT
 91     95 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07495_INT
 92     96 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07497_INT
 93     97 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07498_INT
 94     98 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07499_INT
 95     99 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07500_INT
 96    100 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07501_INT
 97    101 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07502_INT
 98    102 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07503_INT
 99    103 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07504_INT
100    104 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07505_INT
101    105 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07506
102    106 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07540
103    107 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07542_INT
104    108 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07543_INT
105    109 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07544_INT
106    110 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07545_INT
107    111 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07546_INT
108    112 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07547_INT
109    113 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07548_INT
110    114 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_07549
111    115 │ A350   SDD   A350_PERF_TEST_2401   PERF_SDD_4778_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TRT (continued)

112	116	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4779_INT
113	117	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4780_INT
114	118	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4794_INT
115	119	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4795
116	120	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4796
117	121	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_09064
118	122	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_09063
119	123	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_07919
120	124	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_07956
121	125	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08158_INT
122	126	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08159_INT
123	127	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08171_INT
124	128	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08225_INT
125	129	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08227_INT
126	130	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08226
127	131	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08665
128	132	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08666
129	133	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08667
130	134	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_08588_INT
	135	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_09201_INT
131	136	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23775
132	137	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23774
133	138	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10166_INT
134	139	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10167_INT
135	140	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10168_INT
136	141	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10198_INT
137	142	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10200_INT
138	143	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12371_INT
139	144	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1554_A3XX
140	145	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1919
141	146	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_6057
142	147	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_8964_INT
143	148	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_8976_INT
144	149	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_5585
145	150	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_4600
146	151	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_6012
147	152	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_10199_INT
148	153	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1490_INT
149	154	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12437
150	155	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12370_INT
151	156	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12404
152	157	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1592
153	158	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12529_INT
154	159	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12507_DR

File: CTP_A350_PERF_BKGND_GET_BK_DATA.TRT (continued)

155	160	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12511_DR
156	161	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12514_DR
157	162	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12517_DR
158	163	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12520_DR
159	164	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12523_DR
160	165	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12530_INT
161	166	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1584_A3XX
162	167	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12409_INT
163	168	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1590
164	169	A350	SDD	A350_PERF_TEST_2401	PERF_SDD_3888_INT
165	170	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_1358
166	171	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_9587
167	172	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_9656_INT
168	173	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_6192
169	174	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12641
170	175	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12667_INT
171	176	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12668_INT
172	177	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12669_INT
173	178	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12670_INT
174	179	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12671_INT
175	180	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12672_INT
176	181	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_12673_INT
177	182	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23387
178	183	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23549
179	184	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23964
180	185	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23965
181	186	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_24100
182	187	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_2489
183	188	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23503_INT
184	189	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23491
185	190	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23478
186	191	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23455
187	192	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_23365
188	193	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_2801
189	194	A350	SRD	A350_PERF_TEST_2401	PERF_SRD_6005_INT
190	195				

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.BAT

1	1	ECHO OFF
2	2	REM
3	3	REM BAT File
4	4	REM
5	5	REM CTP_A350_PERF_BKGND_GET_BK_DATA.BAT
6	6	REM
7	7	REM CTP_A350_PERF_BKGND_GET_BK_DATA Started Execution
8	8	ECHO ON
9	9	ECHO Building Library
10	10	%build_lib% A350 %test% fm2
11	11	ECHO Compiling Drv
12	12	%acomp% CTP_A350_PERF_BKGND_GET_BK_DATA_D.ADA
13	13	ECHO Compiling Stb
14	14	%acomp% CTP_A350_PERF_SPEED_LIMIT_TO_ENVELOPE.STB
15	15	%acomp% CTP_A350_PERF_BKGND_GET_GB_DATA.STB
16	16	%acomp% CTP_A350_PERF_BKGND_GET_KY_DATA.STB
17	17	%acomp% CTP_A350_PERF_BKGND_GET_PB_DATA.STB
18	18	%acomp% CTP_A350_PERF_ADS_INTERFACE.STB
19	19	%acomp% CTP_A350_PERF_FPLN_EXT_DPKG.STB
20	20	%acomp% CTP_A350_PERF_PUTHETADEL.STB
21	21	%acomp% CTP_A350_PERF_GET_AC_CONFIG.STB
22	22	%acomp% CTP_A350_PERF_GET_STATE_PKG.STB
23	23	%acomp% CTP_A350_IO_ADC_DPKG.STB
24	24	%acomp% CTP_A350_PERF_CLIMB_AUTODRT.STB
25	25	%acomp% CTP_A350_PERF_PERF_EXT_DESPATH.STB
26	26	%acomp% CTP_A350_PERF_BUFFER.STB
27	27	%acomp% CTP_A350_Io_Engine_Data_Dpkg.STB
28	28	%acomp% CTP_A350_PERF_IO_FMS_AIRCRAF.STB
29	29	ECHO Compiling CTP_A350_PERF_COMMON_OBJECTS.c
30	30	%ccomp% CTP_A350_PERF_COMMON_OBJECTS.c
31	31	ECHO recompiling
32	32	%recomp%
33	33	ECHO Linking
34	34	%alink% CTP_A350_PERF_BKGND_GET_BK_DATA_d
35	35	ECHO Running
36	36	%runtgs% CTP_A350_PERF_BKGND_GET_BK_DATA Y
37	37	ECHO CTP_A350_PERF_BKGND_GET_BK_DATA Completed Execution

Mode: All Lines

File: recompile.BAT

```
  1        1  rem
  2        2  rem
  3        3  rem     BAT File
  4        4  rem
  5        5  rem     RECOMPILE.BAT
  6        6  rem recompile
  7        7
  8        8
  9        9  a29_recompile/noall_units/progress/nokeep/noexecute/config=%a29_config%/scope=global
 10       10  echo off
 11       11
 12       12  echo on
 13       13  recomp
```

Beyond Compare 2.1.1

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.CUL

1	1	##
2	2	## CUL FILE
3	3	##
4	4	## CTP_A350_PERF_BKGND_GET_BK_DATA.CUL
5	5	PRF_BKGND_PKG.GET_BK_DATA

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA_D.ADA

```
  1     1 --
  2     2 --    A350 COMPONENT TEST DRIVER
  3     3 --
  4     4 --     COMPONENT : CTP_A350_PERF_BKGND_GET_BK_DATA_D.ADA
  5     5 --
  6     6 --
  7     7 with Base_Domain_Services_Tpkg;
  8     8 with Portable_Types_Pkg;
  9     9 with Perf_Buffer_Types;
 10    10 package CTP_A350_PERF_BKGND_GET_BK_DATA is
 11    11
 12    12 -- Global test variables go here
 13    13   Envelope_Exec : Boolean;
 14    14   Get_Gb_Data_Exec : Boolean;
 15    15   Get_Ky_Data_Exec : Boolean;
 16    16   Get_Pb_Data_Exec : Boolean;
 17    17   Get_Requested_Num_Waypoints_Exec : Boolean;
 18    18   Sync_Flight_Phase : Base_Domain_Services_Tpkg.Flight_Phase_Type;
 19    19   Data_set         : Boolean;
 20    20   Data_set_valid   : Boolean;
 21    21   Requested_num_Waypoints : Portable_Types_Pkg.Natural_32;
 22    22   Pgvdespath_Exec : Boolean;
 23    23
 24    24   CTP_Woendalt    :Portable_Types_Pkg.Float_32;
 25    25   CTP_Wos         :Portable_Types_Pkg.Float_32;
 26    26   CTP_Dtflex      :Portable_Types_Pkg.Float_32;
 27    27   CTP_Getperfleg_EXE : Boolean;
 28    28   CTP_Perfleg     :Perf_Buffer_Types.Perflegrec;
 29    29
 30    30   Sel_Anti_Ice_Data : Boolean;
 31    31   Sel_Wing_Anti_Ice_Data : Boolean;
 32    32   Sel_Eng_Anti_Ice_Data  : Boolean;
 33    33   Sel_Air_Cond_Data  : Boolean;
 34    34   Is_Valid : Boolean;
 35    35   CTP_Psacalt :Portable_Types_Pkg.Float_32;
 36    36   Airborne_valid :Boolean;
 37    37   Airborne_status :Boolean;
 38    38
 39    39   Parameter_Data : Portable_Types_Pkg.Float_32;
 40    40   Parameter_Valid : Boolean;
 41    41
 42    42 end CTP_A350_PERF_BKGND_GET_BK_DATA;
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA_D.ADA (continued)

```
43    43
44    44  with Prf_Bkgnd_Pkg;
45    45  use Prf_Bkgnd_Pkg;
46    46
47    47
48    48  with CTP_A350_PERF_BKGND_GET_BK_DATA;
49    49  use CTP_A350_PERF_BKGND_GET_BK_DATA;
50    50
51    51  with Io_Adc_Dpkg;
52    52
53    53  procedure CTP_A350_PERF_BKGND_GET_BK_DATA_d is
54    54
55    55  begin
56    56
57    57    Io_Adc_Dpkg.Baro_Corr_Alt.Put(Parameter_Data, Parameter_Valid);
58    58    Prf_Bkgnd_Pkg.Get_Bk_Data;
59    59    <<testend>>  NULL;
60    60  end CTP_A350_PERF_BKGND_GET_BK_DATA_d;
```

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rpt

```
   1 │    1    ######################################################
   2 │    2    #                                                    #
   3 │    3    #              Test Coverage Analyzer                #
   4 │    4    #            Short Summary Coverage Report           #
   5 │    5    #                                                    #
   6 │    6    ######################################################
   7 │    7
   8 │                        Tue Oct 15 13:24:11 China Standard Time 2013
     │    8               Thu Dec 26 16:26:59 China Standard Time 2013
   9 │    9
  10 │   10    Test Coverage Analyzer (TCA)  V6.14 CLASS A ps4082880-122
  11 │   11    Win32 Host: WinNT 6.1 Build 7601  UserID: E828804  Node: CH71DT8QL763X (Intel PentPro Model 42 Step 7)
  12 │         Current Dir: C:\A350_Work\20130716\CTP_A350_PERF_BKGND_GET_BK_DATA(Rework)
     │   12    Current Dir: C:\A350_Work\S4P51418\CTP_A350_PERF_BKGND_GET_BK_DATA
  13 │   13
  14 │   14 ----------------------------------------------------------------------
  15 │      TCA invoked Tue Oct 15 13:23:56 China Standard Time 2013 with command line:
     │   15 TCA invoked Thu Dec 26 16:26:42 China Standard Time 2013 with command line:
  16 │   16    tca.exe -TABS -r CTP_A350_PERF_BKGND_GET_BK_DATA.rpt -type 3 -p ...
  17 │   17    CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth -x ...
  18 │   18    CTP_A350_PERF_BKGND_GET_BK_DATA.xin -c ...
  19 │   19    CTP_A350_PERF_BKGND_GET_BK_DATA.cul
  20 │   20 ----------------------------------------------------------------------
  21 │   21 Expanded command line:
  22 │   22    tca.exe -TABS -r CTP_A350_PERF_BKGND_GET_BK_DATA.rpt -type 3 -p ...
  23 │   23    CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth -x ...
  24 │   24    CTP_A350_PERF_BKGND_GET_BK_DATA.xin -c ...
  25 │   25    CTP_A350_PERF_BKGND_GET_BK_DATA.cul
  26 │   26 ----------------------------------------------------------------------
  27 │   27
  28 │   28
  29 │   29 Test Coverage Type: 3
  30 │   30
  31 │   31 Report File Name  : CTP_A350_PERF_BKGND_GET_BK_DATA.rpt
  32 │   32
  33 │   33 Paths file(s) :
  34 │   34
  35 │         (P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth   Tue Oct 15 12:49:28 2013
     │   35    (P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth   Thu Dec 26 15:52:45 2013
  36 │   36              HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9, PS4078711-104
  37 │   37              HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9.61, PS4082845-107
  38 │   38              Post Object Paths Processor (POPP), v1.6, ps4082858-107
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rpt (continued)

```
39   39            Honeywell 29K Assembler, V2.4, PS4072677-105
40   40            Post Object Paths Processor (POPP), v1.3, ps4082858-104
41   41            HADS-290x0 (PC/Windows NT) Ada Linker, Version 2.9.61, PS4082846-109
42   42
43   43 XInfo file(s)   Test Date   Test Platform:
44   44
45   45   (P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth
46          (X01) CTP_A350_PERF_BKGND_GET_BK_DATA.xin   Tue Oct 15 12:50:52 2013   ISS TCA Xinfo, Platform V7.02.04
     46      (X01) CTP_A350_PERF_BKGND_GET_BK_DATA.xin   Thu Dec 26 15:54:45 2013   ISS TCA Xinfo, Platform V7.02.04
47   47
48   48 -----------------------------------------------------------------------------
49   49      Compilation                  Test Coverage Statistics      Warnings
50   50       Unit Name          Total Decision Cond Statemnt Block  Mixed Bool
51   51 ----------------------------- ----------------------------------- ----------
52   52 PRF_BKGND_PKG.GET_BK_DATA      100.0   100.0   n/a   100.0  100.0     5  18
53                                             226/226  n/a   453/453  888/888
     53                                         226/226  n/a   453/453  890/890
54   54
55   55 -----------------------------------------------------------------------------
56   56 Total Percentages                      100.0   n/a   100.0  100.0
57      Totals                                 226/226  n/a   453/453  888/888
     57 Totals                                 226/226  n/a   453/453  890/890
58   58 Total Coverage            100.0
59   59 -----------------------------------------------------------------------------
60   60 □
61   61 *********************************************************************
62   62
63   63      Test Coverage Analyzer (TCA)  Version 6.14 CLASS A
64   64
65   65 *********************************************************************
66   66
67   67 Coverage Type: 3
68   68
69   69 Date of report / Report name :
70   70
71          Tue Oct 15 13:24:11 2013 CTP_A350_PERF_BKGND_GET_BK_DATA.rpt
     71      Thu Dec 26 16:26:59 2013 CTP_A350_PERF_BKGND_GET_BK_DATA.rpt
72   72
73   73 Current Directory:
74   74
75          C:\A350_Work\20130716\CTP_A350_PERF_BKGND_GET_BK_DATA(Rework)
     75      C:\A350_Work\S4P51418\CTP_A350_PERF_BKGND_GET_BK_DATA
76   76
77   77 Paths file(s) :
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rpt (continued)

78	78	
79		(P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth Tue Oct 15 12:49:28 2013
	79	(P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth Thu Dec 26 15:52:45 2013
80	80	HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9, PS4078711-104
81	81	HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9.61, PS4082845-107
82	82	Post Object Paths Processor (POPP), v1.6, ps4082858-107
83	83	Honeywell 29K Assembler, V2.4, PS4072677-105
84	84	Post Object Paths Processor (POPP), v1.3, ps4082858-104
85	85	HADS-290x0 (PC/Windows NT) Ada Linker, Version 2.9.61, PS4082846-109
86	86	
87	87	XInfo file(s) Test Date Test Platform:
88	88	
89	89	(P01) CTP_A350_PERF_BKGND_GET_BK_DATA_d.pth
90		(X01) CTP_A350_PERF_BKGND_GET_BK_DATA.xin Tue Oct 15 12:50:52 2013 ISS TCA Xinfo, Platform V7.02.04
	90	(X01) CTP_A350_PERF_BKGND_GET_BK_DATA.xin Thu Dec 26 15:54:45 2013 ISS TCA Xinfo, Platform V7.02.04
91	91	
92	92	Source file(s) :
93	93	
94		J:\A350_Builds\A01365\SRC_A01365\fm\PRF_BKGND_PKG_GET_BK_DATA.ADA
	94	J:\A350_Builds\A01418\SRC_A01418\fm\PRF_BKGND_PKG_GET_BK_DATA.ADA
95	95	
96	96	Total Coverage statistics :
97	97	
98	98	TYPE 3, 100.0%
99	99	
100	100	
101	101	**
102	102	Source Report Legend Key
103	103	(Legend Key may be suppressed by -k option)
104	104	
105	105	Coverage messages preceding source code lines are annotated with
106	106	object code block tags of the form [x-y BLOCKTYPE]. For example,
107	107	[263-17 JMPT] is a block tag for the 17th block of the 263rd unit
108	108	in the pathsfile and is a jump true block.
109	109	This block tag annotation is intended to be used as a reference to
110	110	the object code level block report (.tcb) generated with the -B option.
111	111	Each object code block is labeled with a unique block tag.
112	112	
113	113	Each line of source code may be prefixed by one of the following
114	114	indicators:
115	115	. = source line completely or partially executed
116	116	* = source line shown ONLY to clarify previous source lines and
117	117	is NOT actually part of the uncovered source TCA is reporting on
118	118	Note that no prefix indicates source line was not executed

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rpt (continued)

```
119  119
120  120
121  121  ***********************************************************************
122  122
123  123  Compilation Unit / Source file :
124  124
125  125         PRF_BKGND_PKG.GET_BK_DATA
126             C:\A350\Builds\A01365\SRC_A01365\FM\PRF_BKGND_PKG_GET_BK_DATA.ADA
     126         C:\A350\Builds\A01418\SRC_A01418\FM\PRF_BKGND_PKG_GET_BK_DATA.ADA
127  127
128  128  Coverage statistics :
129  129
130  130         TYPE 3, 100.0%
131  131
132  132                             Executed          Total
133  133      Decision Paths        226               226
134  134      Condition Paths       n/a               n/a
135  135      Statements            453               453
136          Blocks                888               888
     136      Blocks                890               890
137  137
138  138
139  139
140  140  *************************** End of Report ***************************
```

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst

```
  1      1  |
  2      2  |
  3      3  |                              RESULTS FILE
  4      4  |
  5      5  |****************************************************************************
  6      6  |                           Test Results Summary
  7      7  |
  8      8  |          Percentage of Comparisons Passed    : 100.0000%
  9      9  |
 10     10  |          Total Number of Comparisons Failed  : 0
 11     11  |          Total Number of Unknown Comparisons : 0
 12         |          Total Number of Comparisons Passed  : 1006
 13         |          Total Number of Comparisons         : 1006
 14         |          Total Number of Test Cases Included : 95
        12  |          Total Number of Comparisons Passed  : 1010
        13  |          Total Number of Comparisons         : 1010
        14  |          Total Number of Test Cases Included : 99
 15     15  |
 16     16  |          Test Complete
 17     17  |
 18     18  |
 19     19  |
 20     20  |****************************************************************************
 21     21  |
 22     22  |
 23         |Test Start Time: Oct 15 12:51:04 2013
        23  |Test Start Time: Dec 26 15:55:00 2013
 24     24  |
 25     25  |FILE                   :   CTP_A350_PERF_BKGND_GET_BK_DATA.TDF
 26     26  |
 27     27  |SOURCE CONFIGURATION   :   ISS (Instruction Set Simulator)
 28     28  |
 29     29  |DESCRIPTION            :   This test is to verify that the variables are properly initialized.
 30     30  |
 31     31  |MODIFICATION HISTORY   :
 32     32  |                          DATE          SCR #         AUTHOR              DESCRIPTION
 33     33  |                          =====         =====         ======             ===========
 34     34  |                          1-Aug-2011    1991.91       Bao Tingjie        Updated for A350 S1 Baseline on bulid A01082.
 35     35  |                                                                        1.Re-used the test from A380 Cert 2 and executed o
            |» n A350 S1
 36     36  |                                                                          Baseline Bulid A01082;
 37     37  |                                                                        2.Updated requirement files'version as:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

38	38		11_2_1_1.SRD ; 84(FMS2000,A3XX)->5(FMS2000,A350
		» _A380)	
39	39		11_2_1_8.SRD ; 41(FMS2000,A3XX)->5(FMS2000,A350
		» _A380)	
40	40		11_2_8_1.SRD ; 29(FMS2000,A3XX)->4(FMS2000,A350
		» _A380)	
41	41		11_2_1_1_7.SRD; 71(FMS2000,A3XX)->3(FMS2000,A350
		» _A380)	
42	42		11_2_1_13.SRD ; 22(FMS2000,A3XX)->8(FMS2000,A350
		» _A380)	
43	43		11_5_1.SRD ; 25(FMS2000,A3XX)->3(FMS2000,A350
		» _A380)	
44	44		11_3_5_1.SRD ; 61(FMS2000,A3XX)->7(FMS2000,A350
		» _A380)	
45	45		11_2_2.SRD ; 33(FMS2000,A3XX)->6(FMS2000,A350
		» _A380)	
46	46		11_2_9.SRD ; 17(FMS2000,A3XX)->5(FMS2000,A350
		» _A380)	
47	47		11_20_3.SRD ; 34(FMS2000,A3XX)->2(FMS2000,A350
		» _A380)	
48	48		11_21_6.SRD ; 18(FMS2000,A3XX)->4(FMS2000,A350
		» _A380)	
49	49		11_21_5.SRD ; 19(FMS2000,A3XX)->2(FMS2000,A350
		» _A380)	
50	50		11_21_7.SRD ; 10(FMS2000,A3XX)->2(FMS2000,A350
		» _A380)	
51	51		11_2_8_2.SRD ; 13(FMS2000,A3XX)->2(FMS2000,A350
		» _A380)	
52	52		11_1_6.SRD ;9(FMS2000,A3XX)->2(FMS2000,A350_A
		» 380)	
53	53		11_2_1_10.SRD ;25(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)	
54	54		11_2_1_11.SRD ;22(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)	
55	55		11_2_1_5.SRD ;29(FMS2000,A3XX)->4(FMS2000,A350_
		» A380)	
56	56		11_2_1_6.SRD ;39(FMS2000,A3XX)->4(FMS2000,A350_
		» A380)	
57	57		11_2_1_7.SRD ;34(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)	
58	58		11_2_1_9.SRD ;30(FMS2000,A3XX)->3(FMS2000,A350_
		» A380)	
59	59		PERF_BACKGROUND_EXEC.SDD;325(FMS2000,A3XX)->
60	60		17(FMS2000,A350_A380)

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

61	61		PERF_ADS.SDD ; 46(FMS2000,A3XX)->4(FMS2000,A35
		» 0_A380)	
62	62		3.Modified the breakpoint number as code changed a
		» nd all IO	
63	63		relative SUT_VARS
64	64		4.Updated TCs 1-6,8,10,14,15,18,19,22-24,26,28,33,
		» 34,52 to	
65	65		modifiy the breakpoint number and IO relative va
		» riables	
66	66		5.Updated as per SCR 741.01(FMS2000,A350_A380)
67	67		1)Updated TCs 11-13,27 to delete PERF_SDD_08116_I
		» NT	
68	68		2)Updated TCs 16,17,25,27,41-43 to verify PERF_SD
		» D_4794_INT	
69	69		completely
70	70		3)Updated TC 29 to verify PERF_SDD_08171_INT comp
		» letely.	
71	71		4)Updated TC 7 as the variable
72	72		Perf_Background_Dpkg.Pshfdecel_found is deleted
73	73		6.Updated as per SCR 632.20(FMS2000,A350_A380)
74	74		1)Deleted PERF_SDD_07539_INT and PERF_SDD_07541_I
		» NT from TCs	
75	75		29,31,32 as they not allocated to A350 anymore.
76	76		2)Updated TCs 16,29-32 to verify PERF_SDD_08225_I
		» NT completely	
77	77		3)Updated TCs 29,30,31 to verify PERF_SDD_08227_I
		» NT completely	
78	78		4)Updated TCs 9,39,40 to delete PERF_SDD_2248 and
		» add	
79	79		PERF_SDD_08226
80	80		5)Deteted PERF_SRD_6015 form TCs TCs 1-6,8-13 as
		» it is not	
81	81		to traced to PERF_SDD_0409
82	82		7.Updated as per SCR 632.19(FMS2000,A350_A380)
83	83		1)Added PERF_SRD_23387 in TCs 1-6,8-13 as it tra
		» ced to	
84	84		PERF_SDD_0409
85	85		2)Added PERF_SRD_23549 in TCs 9,39,40 as it trac
		» ed to	
86	86		PERF_SDD_08226
87	87		8.Updated TCs 29-32,added TCs 59-61 to verify
88	88		PERF_SDD_07500_INT,
89	89		PERF_SDD_07501_INT,PERF_SDD_07502_INT,PERF_SDD_0
		» 7503_INT,	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
  90   90                                                          PERF_SDD_07504_INT,PERF_SDD_07505_INT,PERF_SDD_0
              » 7506,
  91   91                                                          PERF_SDD_07540_INT,PERF_SDD_07542_INT,PERF_SDD_0
              » 7543_INT
  92   92
  93   93                      DEC-25-2011     3149.08     Hao Zhilian    Updated for A350 S1.1 on build A01187.
  94   94                                                          1.Updated the SDD/SRD generation as following:
  95   95                                                            11_2_1_1.SRD  ; 5 -> 18
  96   96                                                            11_2_1_8.SRD  ; 5 -> 8
  97   97                                                            11_2_8_1.SRD  ; 4 -> 8
  98   98                                                            11_2_1_1_7.SRD; 3 -> 7
  99   99                                                            11_2_1_13.SRD ; 8 -> 15
 100  100                                                            11_5_1.SRD    ; 3 -> 6
 101  101                                                            11_3_5_1.SRD  ; 7 -> 14
 102  102                                                            11_2_2.SRD    ; 6 -> 18
 103  103                                                            11_2_9.SRD    ; 5 -> 7
 104  104                                                            11_20_3.SRD   ; 2 -> 4
 105  105                                                            11_21_6.SRD   ; 4 -> 9
 106  106                                                            11_21_5.SRD   ; 2 -> 3
 107  107                                                            11_21_7.SRD   ; 2 -> 3
 108  108                                                            11_2_8_2.SRD  ; 2 -> 3
 109  109                                                            11_2_1_10.SRD ; 3 -> 4
 110  110                                                            11_2_1_11.SRD ; 3 -> 4
 111  111                                                            11_2_1_5.SRD  ; 4 -> 6
 112  112                                                            11_2_1_6.SRD  ; 4 -> 6
 113  113                                                            11_2_1_7.SRD  ; 3 -> 6
 114  114                                                            11_2_1_9.SRD  ; 3 -> 7
 115  115                                                            PERF_BACKGROUND_EXEC.SDD; 17 -> 38
 116  116                                                            PERF_ADS.SDD          ; 4  -> 6
 117  117                                                          2.Updated the breakpiont number as the code change
              » d.
 118  118                                                          3.Updated TCs 1, 2, 8, 11, 25, 27, 29~32 to delete
              »  the SDD
 119  119                                                            anchor PERF_SDD_3731_INT as per SCR 494.01.
 120  120                                                          4.Updated as per 391.01
 121  121                                                            A.Added TCs 62~67 to verify the SDD anchor PERF_
              » SDD_08588_INT
 122  122                                                            B.Updated TCs 1~2 to verify the SDD anchor PERF_
              » SDD_07496_INT
 123  123                                                              completely.
 124  124                                                          5.Updated as per 875.16
 125  125                                                            A.Added TCs 62~64 to verify the SDD anchor PERF_
              » SDD_08665.
 126  126                                                            B.Added TCs 64~65 to verify the SDD anchor PERF_
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » SDD_08666.
  127      127                                                                           C.Added TCs 63,65~67 to verify the SDD anchor PE
                    » RF_SDD_08667.
  128      128                                                                           D.Updated TC 7 and added TC 68 to verify the SDD
                    »  anchor
  129      129                                                                             PERF_SDD_4796 completely.
  130      130                                                                         6.Updated as per 870.01
  131      131                                                                           A.Updated TCs 19~21 and added TCs 69~72 to verif
                    » y the SDD
  132      132                                                                              anchor PERF_SDD_4600 completely.
  133      133
  134      134                          Feb-19-2012     3149.08       Hao Zhilian     Rework for A350 S1.1 on build A01187.
  135      135                                                                         1.Added SRD anchor PERF_SRD_23774 and updated TCs
                    » 63, 65~67
  136      136                                                                           to trace PERF_SDD_08667 to PERF_SRD_23774 under
                    » SCR 875.15.
  137      137                                                                         2.Modified the description of TCs 7, 19~21 and 68~
                    » 72.
  138      138                                                                         3.Modified TC 70 to verify PERF_SDD_4600 completel
                    » y.
  139      139
  140      140                          3-July-2012     4418.03       Sun Likun       Updated for A350 S2 Baseline on bulid A01256.
  141      141                                                                         1.Updated the SDD/SRD generation as following:
  142      142                                                                           11_2_1_10.SRD ; 4->7
  143      143                                                                           PERF_BACKGROUND_EXEC.SDD; 38->50
  144      144                                                                         2.Added SRD anchor PERF_SRD_23964, PERF_SRD_23965,
  145      145                                                                           PERF_SRD_24100 to trace to PERF_SDD_0409 under S
                    » CR 2889.04.
  146      146                                                                         3.Update breakpoints as per code changed.
  147      147                          12-July-2012    4418.03       Sun Likun       Rework after HTS-C review.
  148      148                                                                         1.Updated 11_2_1_10.SRD generation in SDD/SRD DETA
                    » ILS.
  149      149
  150      150                          20-Nov-2012     5391.10       Dun Qing        Updated for A350 S2 on build A01283.
  151      151                                                                         1.Updated the SDD/SRD generation as following:
  152      152                                                                           11_2_1_1.SRD  ; 18 -> 26
  153      153                                                                           11_2_1_8.SRD  ; 8 -> 9
  154      154                                                                           11_2_1_1_7.SRD; 7 -> 19
  155      155                                                                           11_2_1_13.SRD ; 15 -> 18
  156      156                                                                           11_3_5_1.SRD  ; 14 -> 23
  157      157                                                                           11_2_2.SRD    ; 18 -> 24
  158      158                                                                           11_2_9.SRD    ; 7 -> 8
  159      159                                                                           11_21_6.SRD   ; 9 -> 11
  160      160                                                                           11_2_1_11.SRD ; 4 -> 7
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
161  161 |                                                              11_2_1_9.SRD  ; 7 -> 10
162  162 |                                                              PERF_BACKGROUND_EXEC.SDD; 50 -> 66
163  163 |                                                              Added the SDD/SRD generation as following:
164  164 |                                                              11_1.SRD
165  165 |                                                            2.Updated the breakpiont number as the code change
        | » d.
166  166 |                                                            3.Updated SUT_VARS and NOTES
167  167 |                                                            4.Updated as per 3652.00
168  168 |                                                              A.Added TCs 73~78 and Updated TC 39 to verify th
        | » e SDD anchor PERF_SDD_09063
169  169 |                                                              B.Added TCs 73~74 to verify the SDD anchor PERF_
        | » SDD_09064
170  170 |                                                              C.Added TCs 73 and Updated TCs 9,39,40 to verify
        | »  the SDD anchor PERF_SDD_08226
171  171 |                                                              D.Added following SRD anchor:
172  172 |                                                                 PERF_SRD_2801, PERF_SRD_23365, PERF_SRD_23455
        | » ,
173  173 |                                                                 PERF_SRD_23478, PERF_SRD_23491,PERF_SRD_23503
        | » _INT,
174  174 |                                                                 PERF_SRD_2489
175  175 |                                                               Added following SDD anchor:
176  176 |                                                                 PERF_SDD_09063, PERF_SDD_09064
177  177 |                                                               Removed following trace links:
178  178 |                                                                 PERF_SDD_08226 -->   PERF_SRD_10721
179  179 |                                                                 PERF_SDD_08226 -->   PERF_SRD_23549
180  180 |                                                               Added following trace links:
181  181 |                                                                  PERF_SDD_08226 --> PERF_SRD_2801
182  182 |                                                                  PERF_SDD_08226 --> PERF_SRD_23365
183  183 |                                                                  PERF_SDD_08226 --> PERF_SRD_23455
184  184 |                                                                  PERF_SDD_09063 --> PERF_SRD_23478
185  185 |                                                                  PERF_SDD_09063 --> PERF_SRD_23491
186  186 |                                                                  PERF_SDD_09064 --> PERF_SRD_23503_INT
187  187 |                                                                  PERF_SDD_09064 --> PERF_SRD_2489
188  188 |                                                            5.Updated as per 5637.01
189  189 |                                                              A.Added TCs 73~74 and Modified TC 68 to verify t
        | » he SDD anchor PERF_SDD_0409.
190  190 |                                                              B.Removed trace link PERF_SDD_0409 --> PERF_SRD_
        | » 23964
191  191 |                                                            6.Updated as per 5309.02
192  192 |                                                              A.Added TC 73 to verify the SDD anchor PERF_SDD_
        | » 4155_INT
193  193 |
194  194 |                      26-Nov-2012     5391.10     Dun Qing     Rework after HTSC inspection.
195  195 |                                                            1.Modified the description of TCs 1,2,39,40,68,73,
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                                          » 74
  196 | 196 |
  197 | 197 |                      17-Jul-2013      7226.01     Jiang Xiaomin     Updated for A350 S3 on build A01344.
  198 | 198 |                                                                    1.Updated the SDD/SRD generation as following:
  199 | 199 |                                                                      11_2_1_1.SRD  ; 26 -> 28
  200 | 200 |                                                                      11_2_1_8.SRD  ; 9 -> 15
  201 | 201 |                                                                      11_2_8_1.SRD  ; 8 -> 11
  202 | 202 |                                                                      11_2_1_1_7.SRD; 19 -> 20
  203 | 203 |                                                                      11_2_1_13.SRD ; 18 -> 20
  204 | 204 |                                                                      11_3_5_1.SRD  ; 23 -> 30
  205 | 205 |                                                                      11_2_2.SRD    ; 24 -> 27
  206 | 206 |                                                                      11_20_3.SRD   ; 4 -> 5
  207 | 207 |                                                                      11_1_6.SRD    ; 2 -> 3
  208 | 208 |                                                                      11_2_1_10.SRD ; 7 -> 14
  209 | 209 |                                                                      11_2_1_6.SRD  ; 6 -> 7
  210 | 210 |                                                                      11_2_1_7.SRD  ; 6 -> 10
  211 | 211 |                                                                      11_2_1_9.SRD  ; 10 ->20
  212 | 212 |                                                                      11_1.SRD  ;  32 ->37
  213 | 213 |                                                                      PERF_BACKGROUND_EXEC.SDD; 66 -> 91
  214 | 214 |                                                                    2.Updated the breakpiont number as the code chan
                                          » ged.
  215 | 215 |                                                                    3.Added the TC83_85 to verify the ANCHOR PERF_SD
                                          » D_0409 completely
  216 | 216 |                                                                      as per scr 5970.01&3184.02&7649.01.
  217 | 217 |                                                                    4.Updated the TC73 to verify the ANCHOR PERF_SDD
                                          » _4155_INT completely
  218 | 218 |                                                                      as per scr 7665.03&7649.01.
  219 | 219 |                                                                    5.Updated the TC7&68 to verify the ANCHOR PERF_S
                                          » DD_4796 completely
  220 | 220 |                                                                      as per scr 3184.02.
  221 | 221 |                                                                    6.Updated the TC73_79 and added the TC80_82 to v
                                          » erify the ANCHOR
  222 | 222 |                                                                      PERF_SDD_09063 completely as per scr 7191.00.
  223 | 223 |                                                                    7.Added the anhor PERF_SRD_6005_INT and trace to
                                          »  related TCs
  224 | 224 |                                                                      as per scr 3184.01.
  225 | 225 |                                                                    8.Corrected the input of TC19_21&68_72.
  226 | 226 |
  227 | 227 |                      23-Aug-2013      7226.01     Jiang Xiaomin     Rework after HTSC inspection.
  228 | 228 |                                                                    1.Corrected he previous histroy.
  229 | 229 |                                                                    2.Corrected the TC7 for mistake.
  230 | 230 |                                                                    3.Removed the TC79 for duplicated and corrected
                                          » the TC80's description.
  231 | 231 |
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
232  232                    11-Sep-2013    7854.01    Ye Lin      Updated for A350 S3 on build A01365.
233  233                                                          1.Updated the SDD/SRD generation as following:
234  234                                                            11_2_1_1.SRD  ; 28 -> 29
235  235                                                            11_3_5_1.SRD  ; 30 -> 33
236  236                                                            11_1.SRD      ; 37 -> 43
237  237                                                            PERF_BACKGROUND_EXEC.SDD; 91 -> 96
238  238                                                          2.Updated the breakpiont number as the code chan
            » ged.
239  239                                                          3.Updated as per SCR 7708.01
240  240                                                           A.Changed PERF_SDD_07540_INT to PERF_SDD_07540.
241  241                                                          4.Updated as per SCR 7854.01
242  242                                                           A.Modified TCs 8,34~38 as per SDD PERF_SDD_2249
            » _INT
243  243                                                             is updated.
244  244                                                           C.Added TCs 85~95 as per SDD PERF_SDD_2249_INT
            » is updated.
245  245
246  246                    09-Oct-2013    7854.01    Ye Lin      Rework after HTSC inspection.
247  247                                                          1. Modified the previous history.
248  248
249  249                    15-Oct-2013    7854.01    Ye Lin      Rework after self-review.
250  250                                                          1. Deleted PERF_SRD_10721 because it do not need
            »  to be tested here.
251  251
     252                    26-Dec-2013    8073.01    Lin Ye      Updated for A350 phase 5 on build A01418.
     253                                                          1. Updated the SDD/SRD generation as following:
     254                                                            11_2_2.SRD    ; 27 -> 29
     255                                                            11_2_9.SRD    ; 8 -> 10
     256                                                            PERF_BACKGROUND_EXEC.SDD; 96 -> 103
     257                                                          2. Updated breakpoint for TCs 1~6,8~10,14,15,17,
            » 18,22~24,26,28~34,39,40,59~61,73~79,82~84.
     258                                                          3. Updated as per SCR# 8053.01:
     259                                                           A. Added TCs 96~99 as PERF_SDD_09201_INT is add
            » ed.
     260
252  261  SRD/SDD DETAILS        :   11_2_1_1.SRD  ; 29
253  262                             11_2_1_8.SRD  ; 15
254  263                             11_2_8_1.SRD  ; 11
255  264                             11_2_1_1_7.SRD; 20
256  265                             11_2_1_13.SRD ; 20
257  266                             11_5_1.SRD    ; 6
258  267                             11_3_5_1.SRD  ; 33
259                                  11_2_2.SRD    ; 27
260                                  11_2_9.SRD    ; 8
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

	268	11_2_2.SRD ; 29
	269	11_2_9.SRD ; 10
261	270	11_20_3.SRD ; 5
262	271	11_21_6.SRD ; 11
263	272	11_21_5.SRD ; 3
264	273	11_21_7.SRD ; 3
265	274	11_2_8_2.SRD ; 3
266	275	11_1_6.SRD ; 3
267	276	11_2_1_10.SRD ; 14
268	277	11_2_1_11.SRD ; 7
269	278	11_2_1_5.SRD ; 6
270	279	11_2_1_6.SRD ; 7
271	280	11_2_1_7.SRD ; 10
272	281	11_2_1_9.SRD ; 20
273		11_1.SRD ; 43
274		PERF_BACKGROUND_EXEC.SDD; 96
	282	11_1.SRD ; 43
	283	PERF_BACKGROUND_EXEC.SDD; 103
275	284	PERF_ADS.SDD ; 6
276	285	
277	286	TRACE DETAILS :
278	287	ANCHOR : A350_PERF_TEST_2401
279	288	
280	289	SOURCE : SDD; PERF_SDD_0410, PERF_SDD_0412_INT, PERF_SDD_3317_INT, PERF_SDD_4778_INT, PERF_ » SDD_4779_INT,
281	290	PERF_SDD_0417_INT, PERF_SDD_3681_INT, PERF_SDD_3682_INT, PERF_SDD_4780_INT, P » ERF_SDD_4795,
282	291	PERF_SDD_0418_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT, PERF_SDD_4794_INT,
283	292	PERF_SDD_2852_INT, PERF_SDD_2853_INT, PERF_SDD_2249_INT, PERF_SDD_2276_INT, P » ERF_SDD_4796,
284	293	PERF_SDD_3482_INT, PERF_SDD_2293_INT, PERF_SDD_3053_INT, PERF_SDD_3055_INT,
285	294	PERF_SDD_3105, PERF_SDD_0409, PERF_SDD_2123_INT, PERF_SDD_07919, PERF_SDD_079 » 56,
286	295	PERF_SDD_4155_INT, PERF_SDD_4327, PERF_SDD_3746_INT, PERF_SDD_3718,
287	296	PERF_SDD_3887, PERF_SDD_4328, PERF_SDD_4339,
288	297	PERF_SDD_5585, PERF_SDD_4600, PERF_SDD_5607_INT, PERF_SDD_5608_INT,
289	298	PERF_SDD_5610_INT, PERF_SDD_5611_INT, PERF_SDD_07160_INT, PERF_SDD_07169_INT,
290	299	PERF_SDD_07188_INT, PERF_SDD_07496_INT, PERF_SDD_07497_INT, PERF_SDD_07498_IN » T,
291	300	PERF_SDD_07499_INT, PERF_SDD_07500_INT, PERF_SDD_07501_INT, PERF_SDD_07502_IN » T,
292	301	PERF_SDD_07503_INT, PERF_SDD_07504_INT, PERF_SDD_07505_INT, PERF_SDD_07506,
293	302	PERF_SDD_3888_INT, PERF_SDD_07540,
294	303	PERF_SDD_07542_INT, PERF_SDD_07543_INT, PERF_SDD_07544_INT, PERF_SDD_07545_IN

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » T,
 295   304                                           PERF_SDD_07546_INT, PERF_SDD_07547_INT, PERF_SDD_07548_INT, PERF_SDD_07549,
 296   305                                           PERF_SDD_5609_INT, PERF_SDD_07495_INT, PERF_SDD_08158_INT, PERF_SDD_08171_INT
                    » ,
 297   306                                           PERF_SDD_08159_INT, PERF_SDD_08225_INT, PERF_SDD_08227_INT, PERF_SDD_08226,
 298   307                                           PERF_SDD_08588_INT, PERF_SDD_08665, PERF_SDD_08666, PERF_SDD_08667,
 299                                                 PERF_SDD_09063, PERF_SDD_09064,
       308                                           PERF_SDD_09063, PERF_SDD_09064, PERF_SDD_09201_INT
 300   309
 301   310                                    SRD; PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_IN
                    » T,
 302   311                                           PERF_SRD_10200_INT, PERF_SRD_12371_INT, PERF_SRD_1554_A3XX,
 303   312                                           PERF_SRD_1919, PERF_SRD_6057, PERF_SRD_8964_INT, PERF_SRD_1592,
 304   313                                           PERF_SRD_8976_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT,
 305   314                                           PERF_SRD_12437, PERF_SRD_12370_INT, PERF_SRD_12404,
 306   315                                           PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR,
 307   316                                           PERF_SRD_12517_DR, PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT,
 308   317                                           PERF_SRD_1584_A3XX, PERF_SRD_12409_INT, PERF_SRD_1358,
 309   318                                           PERF_SRD_9587, PERF_SRD_9656_INT, PERF_SRD_6192, PERF_SRD_6012, PERF_SRD_1590
                    » ,
 310   319                                           PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT,
 311   320                                           PERF_SRD_12670_INT, PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_IN
                    » T,
 312   321                                           PERF_SRD_23387, PERF_SRD_23549, PERF_SRD_23775, PERF_SRD_23964, PERF_SRD_2396
                    » 5,
 313   322                                           PERF_SRD_24100, PERF_SRD_23455, PERF_SRD_23478, PERF_SRD_23491, PERF_SRD_2350
                    » 3_INT
 314   323                                           PERF_SRD_23365,PERF_SRD_2489,PERF_SRD_2801, PERF_SRD_6005_INT
 315   324
 316   325 -- -- --       BEGIN PROCESSING INCLUDE FILE C:\Program Files\honeywell_eng\TGS_v4_5_2\bin\debug_cmds.inc
 317   326 -- -- --       END PROCESSING INCLUDE FILE C:\Program Files\honeywell_eng\TGS_v4_5_2\bin\debug_cmds.inc
 318   327 -- -- -- ****************************************************************
 319   328 -- -- --                   INITIALIZATION SECTION
 320   329 -- -- -- ****************************************************************
 321   330
 322   331
 323   332 CONSTANT                                                                                    VALUE
 324   333 ------------------------------------------------------------------------------  ------------------
                    » --------
 325   334 FP_DEF_TOL
                    »    0.001
 326   335
 327   336
 328   337 define symbol True                                        := Standard.True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
329   338 define symbol False                              := Standard.False
330   339 define symbol Engoutnotval                       := Perf_Int_Base_Tpkg.Engoutnotval
331   340 define symbol Nopreds                            := Perf_Int_Base_Tpkg.Nopreds
332   341 define symbol Prdstodest                         := Perf_Int_Base_Tpkg.Prdstodest
333   342 define symbol Preflight                          := base_domain_services_tpkg.Preflight
334   343 define symbol Takeoff                            := base_domain_services_tpkg.Takeoff
335   344 define symbol Cruise                             := base_domain_services_tpkg.Cruise
336   345 define symbol Descent                            := base_domain_services_tpkg.Descent
337   346 define symbol Approach                           := base_domain_services_tpkg.Approach
338   347 define symbol Goaround                           := base_domain_services_tpkg.Goaround
339   348 define symbol Climb                              := base_domain_services_tpkg.Climb
340   349 define symbol Altpln                             := Perf_Int_Base_Tpkg.Altpln
341   350 define symbol No_Itinerary                       := Perf_Int_Base_Tpkg.No_Itinerary
342   351 define symbol Fuel_Plan_Fpln_Preds               := Perf_Int_Base_Tpkg.Fuel_Plan_Fpln_Preds
343   352 define symbol Secondary                          := Fprequestrec_Types.Secondary
344   353 define symbol Secondary2                         := Fprequestrec_Types.Secondary2
345   354 define symbol Secondary3                         := Fprequestrec_Types.Secondary3
346   355 define symbol Is_Active                          := Perf_Int_Base_Tpkg.Is_Active
347   356 define symbol Indep_From_Active                  := Perf_Int_Base_Tpkg.Indep_From_Active
348   357 define symbol Valid                              := Io_interface_tpkg.Entry_Stat_Type'(Io_interface_tpkg.Valid)
349   358 define symbol Invalid                            := Io_interface_tpkg.Entry_Stat_Type'(Io_interface_tpkg.Invalid)
350   359 define symbol Fuel_Plan_Stage1                   := Perf_Int_Base_Tpkg.Fuel_Plan_Stage1
351   360 define symbol Active                             := Fprequestrec_Types.Active
352   361 define symbol Temporary                          := Fprequestrec_Types.Temporary
353   362 define symbol Prim_Fpln_Preds                    := Perf_Int_Base_Tpkg.Prim_Fpln_Preds
354   363 define symbol Current_Mode_Preds                 := Perf_Int_Base_Tpkg.Current_Mode_Preds
355   364 define symbol Current_Mode_Hi_Pri                := Perf_Int_Base_Tpkg.Current_Mode_Hi_Pri
356   365 define symbol Pred_To_Alt_Preds                  := Perf_Int_Base_Tpkg.Pred_To_Alt_Preds
357   366 define symbol Fuel_Plan_Stage2                   := Perf_Int_Base_Tpkg.Fuel_Plan_Stage2
358   367 define symbol Cas                                := Fmcs_Base_Types.Cas
359   368 define symbol Nopath                             := Perf_Despath_Tpkg.Nopath
360   369 define symbol Onpath                             := Perf_Despath_Tpkg.Onpath
361   370 define symbol INVALIDPATH                        := Perf_Despath_Tpkg.INVALIDPATH
362   371 define symbol Zeroab                             := Perf_Int_Base_Tpkg.Zeroab
363   372 define symbol Fullab                             := Perf_Int_Base_Tpkg.Fullab
364   373 define symbol Clb_Spdlim                         := Perf_Buffer_Types.Clb_Spdlim
365   374 define symbol Clean                              := Perf_Config_Dpkg.Clean
366   375 define SYMBOL Copy_From_Active                   := Perf_Int_Base_Tpkg.Copy_From_Active
367   376 define SYMBOL No_Preds                           :=  Perf_Int_Base_Tpkg.No_Preds
368   377 define symbol Noise_End_Alt_Status := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
          » _Status"
369   378 define symbol Noise_Speed_Val      := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_V
          » al"
370   379 define Symbol Noise_TSPD           := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_TSPD"
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
371   380 define symbol Noise_End_Alt              := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
          » "
372   381 define symbol Noise_Speed              := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed"
373   382 define symbol Noise_Thrust             := "Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Thrust"
374   383 define symbol Drtnone                  := Cdk_Entry_Tpkg.Climb_Thrust_Mode_Type'value("Drtnone")
375   384 define symbol Maxclb                   := Cdk_Entry_Tpkg.Climb_Thrust_Mode_Type'value("Maxclb")
376   385 define SYMBOL Icaolimited              :=  Spdchgtgt_Tpkg.Icaolimited
377   386 define SYMBOL Returntoecon             :=  Spdchgtgt_Tpkg.Returntoecon
378   387 define SYMBOL Optimum_Altitude         := Perf_Int_Base_Tpkg.Optimum_Altitude
379   388
380   389
381   390 DEFAULTS                                                                                              VALUE
382   391 ----------------------------------------------------------------------------------------------------  ------------------
          » --------
383   392 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status           Takeoff_Alt_Type
          » s.Active
384   393 Perf_Background_Dpkg.Noise_Data.Altitude.Valid
          »      False
385   394 Perf_Background_Dpkg.Noise_Data.Speed.Valid
          »      False
386   395 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai
          »      False
387   396 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai
          »      False
388   397 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond
          »      False
389   398 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1                                                                 system
          » 'address
390   399 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.FRAME_120_Disc_Word_3.Final_Descent_Mode_Active
          »      True
391   400 Io_Adc_Sel_Pkg.The_Selected_Adc                                                                       system
          » 'address
392   401 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat
          »      True
393   402 Io_IRS_Sel_Pkg.The_Selected_IRS                                                                       system
          » 'address
394   403 Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed
          »      True
395   404 Perf_Background_Dpkg.Pcactorsec
          »    Active
396   405 CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec
          »      False
397   406 Perf_Background_Dpkg.Psdeslimspdchg
          »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
398    407 | CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_valid
           | »      true
399    408 | CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
           | »      false
400    409 | CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
           | »      100.0
401    410 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
           | »      0.0
402    411 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
           | »      0.0
403    412 |
404    413 |
405    414 | CONSTANT                                                                                 VALUE
406    415 | ----------------------------------------------------------------------------    ------------------
           | » --------
407    416 | DBG_TIMEOUT
           | »      300
408    417 |
409    418 |
410    419 | TESTID: 1
411    420 |
412    421 |     Verify that if there is no engine out, engine-out predictions flag is set to ENGOUTNOTVAL.
413    422 |     PERF_SDD_0412_INT, PERF_SDD_3317_INT, PERF_SDD_0417_INT
414    423 |     If the current itinerary is associated with the Is_Active flight plan, or with a secondary flight plan copied
415    424 |     from the Is_Active, a variety of global data are retrieved which are common to both the Is_Active and secondary
416    425 |     predictions processes.
417    426 |
418    427 |     TO verify when the working flight plan is Is_Active , a variety of following global data  be retrieved
419    428 |      - A/C altitude and its validity
420    429 |      - A/C position
421    430 |      - A/C track and its validity
422    431 |      - A/C ground speed and its validity
423    432 |      - Wind bearing
424    433 |      - Wind magnitude
425    434 |      - Wind validity
426    435 |      - Health status of Engines (Inboard and Outboard Engines of Captain and FO)
427    436 |      - Throttle lever angle (Inboard and Outboard Engines of Captain and FO)
428    437 |      - A/C flightphase
429    438 |      - Clock time
430    439 |      - FE maneuver speed and validity
431    440 |      - Airborne flag
432    441 |        when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is true
433    442 |        and Perf_Background_Dpkg.Pcfltphase is not Preflight and Done;
434    443 |      - Lateral auto mode flag
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

435	444	- Current aircraft cross track error from guidance.
436	445	- Level change auto control mode flag
437	446	- Vertical auto mode flag
438	447	- Third altitude from guidance
439	448	- Current altitude constraint management related data(Pccuraltcstr) from guidance
440	449	- Previous captured barometric altitude related data (Pcprebcalt) from guidance
441	450	- A/C is descending from level segment or alt constraint (Early_Descent_From_Level) from guidance
442	451	- Engine-out flag
443	452	- Engines off status
444	453	- Number of engines out via Prf_Aeroeng_Pkg.Get_Num_Eng_Out
445	454	-when Perf_Background_Dpkg.Pcpathref is not Onpath the descent path is not be captured
446	455	- Cruise altitude from Fpln_Ext_Dpkg.Get_Cruise_Alt
447	456	- when Sel_Src_Inertial_Vert_Speed is valid, A/C inertial vertical speed is Io_Common_Irs_Dpkg.Data
448	457	- Speed mode from Guid_Ext_Dpkg.Va3vertmde
449	458	- Active Speed Restriction Annunciation from Guid_Ext_Dpkg.Active_Speed_Restriction
450	459	- when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Activeis valid, Altitude Hold mode flag status from FMGC via th » e interface
451	460	- Final descent mode flag from FMGC armed or active status via the interfaces
452	461	Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Active.Data and
453	462	Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Armed.Data
454	463	- A/C configuration via Prf_Acstate_Pkg.Get_Ac_Config
455	464	- A/C airbrake extension indicator to zero airbrake
456	465	- Step climb & step descent active flags (Psstpclbact & Psstpdesact) are set from guidance.
457	466	- when the Engine out status and the VG indicator that Green-Dot Speed is not latched,
458	467	then the flag indicating that VG is using latched Green-Dot descent speed is not set
459	468	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
460	469	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
461	470	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
462	471	
463	472	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
464	473	working flight plan.
465	474	PERF_SDD_4328 (PERF_SRD_10166_INT)
466	475	
467	476	If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in » Noise Ramp
468	477	segment and no engine out condition exist then the following noise data shall be set up for background's usage:
469	478	PERF_SDD_5607_INT
470	479	
471	480	The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_A » lt obtained
472	481	from FPLN.
473	482	PERF_SDD_5608_INT
474	483	
475	484	Here, Cdk_Vert_Dpkg.Engine_Out indicates that there is no Engine Out.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
476   485
477   486      If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed sha
             » ll be set to
478   487    valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
479   488    PERF_SDD_5610_INT  (In this TC, Noise Speed (Noise_Speed_Val) from FPLN is valid)
480   489
481   490    The Perf_Background_Dpkg.Noise_Data.Thrust shall be set to Noise_Thrust obtained from FPLN.
482   491    PERF_SDD_5609_INT
483   492
484   493    If Noise TSPD from FPLN is valid than the validity of Perf_Background_Dpkg.Noise_Data.TSPD shall be set to valid a
             » nd its
485   494    value is set to Noise_TSPD obtained from FPLN, otherwise its validity is set to Invalid.
486   495    PERF_SDD_5611_INT (Here Noise TSPD from FPLN is invalid.)
487   496
488   497   *If  1. the Flex_Takeoff_Temperature validity is true,
489   498      *2. the aircraft is in Climb or below, ("below" in this testcase)
490   499       *3. the aircraft altitude is at or below thrust reduction altitude("at" in this testcase, considering tolerance
             » of 1.0 foot)
491   500           and
492   501        4. there is not an engine out condition
493   502      then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
494   503          Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
495   504      where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C.
496   505      *If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
497   506          Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
498   507       Else
499   508          Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
500   509      Otherwise the Flex_Isadev value will be set to zero.
501   510    PERF_SDD_5585(PERF_SRD_12437)
502   511
503   512    The airborne flag(Psairborne) shall be set when
504   513       - the Is_Airborne flag from IO is valid and
505   514       - the current flight phase is not in preflight or done.
506   515    PERF_SDD_07495_INT
507   516
508   517    The ADC/FG input data validity(Adc_Fg_Valid) shall be determined from the validity of
509   518       - Static Air Temperature
510   519       - Pressure Altitude
511   520       - CAS, TAS, Mach (only if the aircraft is airborne) and
512   521    For the valid ADC/FG input data, the following data are retrieved from IO
513   522       - A/C Pressure altitude
514   523       - A/C CAS
515   524       - A/C Mach
516   525       - A/C TAS
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
517   526        - A/C Current TAS Validity
518   527     Also if the baro corrected altitude is valid, then the current baro corrected altitude is retrieved from IO.
519   528     PERF_SDD_07496_INT
520   529
521   530     The ADC range flag shall be set to true only if all of the following conditions are valid
522   531       - the aircraft pressure altitude is from -2000.00 ft to 50,000.00 ft.
523   532       - the aircraft static air temperature is from -99.00 to 80.00 Celcius
524   533       - the aircraft is airborne and
525   534       - the aircraft CAS is from 0.0 kts to 450.0 kts.
526   535       - the airacrft Mach is from 0.0 to 1.0 mach
527   536       - the aircraft TAS is at or below 599.00 kts
528   537       - the aircraft TAS is at or above 50.0 kts or the aircraft flight phase being takeoff or
529   538         before with aircraft TAS is at or above 0.0 kts
530   539     PERF_SDD_07497_INT
531   540
532   541     The ADC/FG input data validity shall be set based on the validity of ADC range flag.
533   542     PERF_SDD_07498_INT
534   543
535   544     The predicted data of delta speed record shall be reset to false.
536   545     The previous integration interval econ cas speed is invalidated.
537   546     PERF_SDD_07499_INT
538   547
539   548
540   549  INPUT                                                                                                          VALUE
541   550  ---------------------------------------------------------------------------------------------- ------------------
          » --------
542   551  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
          »     False
543   552  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
          »     False
544   553  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
          »     False
545   554  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
          »     False
546   555  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
          »     False
547   556  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
          »     True
548   557  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
          »     True
549   558  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
          »     True
550   559  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
          »     True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
551    560 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
           »      True
552    561 Perf_Dpkg.Min_Gwt
           »      100.0
553    562 Perf_Dpkg.Max_Gwt
           »      400.0
554    563 Perf_Background_Dpkg.Flight_Plan_Type                                            I
           » s_Active
555    564 Perf_Background_Dpkg.Ats_Enable
           »      True
556    565 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           »    Takeoff
557    566 Perf_Database_Dpkg.Psmmo
           »      0.45
558    567 Perf_Background_Dpkg.Pszfw
           »      300.0
559    568 Perf_Background_Dpkg.Psblockfuel
           »      50.0
560    569 Perf_Background_Dpkg.Pstaxifuel
           »      25.0
561    570 Perf_Background_Dpkg.Psairborne
           »    False
562    571 Perf_Background_Dpkg.Psautolat
           »      True
563    572 Guid_Ext_Dpkg.Gcxxlatautoc
           »    False
564    573 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
           »    False
565    574 Perf_Background_Dpkg.Psengout
           »      True
566    575 Cdk_Vert_Dpkg:Body.Engine_Out_I
           »    False
567    576 Perf_Background_Dpkg.Pcholdflags.Hmdecel
           »      True
568    577 Perf_Dpkg.Repredict_Hm_Decel
           »      True
569    578 Perf_Background_DPkg.Pshmdecel
           »      True
570    579 Perf_Background_Dpkg.Pcholdflags.Hmactive
           »      True
571    580 Perf_Ads_Dpkg.Fi_Enabled
           »    False
572    581 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
           »    False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
573   582 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
          »       True
574   583 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
          »       True
575   584 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
          »       True
576   585 Perf_Background_Dpkg.Pcholdflags.Hmdistval
          »       True
577   586 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
          »       True
578   587 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
          »       True
579   588 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
          »       True
580   589 Perf_Background_Dpkg.Psappspdlat
          »       True
581   590 Perf_Dpkg.Pcengoutprds
          »    Altpln
582   591 Perf_Background_Dpkg.Pcpathref
          »    Onpath
583   592 Guid_Ext_Dpkg.Va3Vertmde                                                          Perf_Ext_Tp
          » kg.Vmspd
584   593 Perf_Background_DPkg.Pscurcas
          »       5.0
585   594 Perf_Background_DPkg.Pscurmach
          »       5.0
586   595 Perf_Background_DPkg.Pscurtas
          »       5.0
587   596 Perf_Background_Dpkg.Pcitin.Itinerary                                             No_I
          » tinerary
588   597 Perf_Despath_Dpkg.Pcdespath.Vgavalid
          »       True
589   598 Perf_Background_Dpkg.Pstogwtval
          »    False
590   599 Perf_Background_Dpkg.Pstogwt
          »    50.0
591   600 Perf_Background_Dpkg.Pcgwind
          »    Invalid
592   601 Perf_Background_Dpkg.Psgw
          »       0.0
593   602 Perf_Dpkg.Gross_Weight.Status
          »    Valid
594   603 Perf_Dpkg.Gross_Weight.Data
          »    150.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
595      604  Perf_Integration_DPkg.Pcairbrakes
              »    Fullab
596      605  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
              »     False
597      606  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
              »    9000.0
598      607  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
              »     200.0
599      608  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
              »     False
600      609  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
              »     265.0
601      610  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
              »     0.55
602      611  Perf_Background_Dpkg.Psstpclbact
              »     True
603      612  Perf_Background_Dpkg.Psstpdesact
              »     True
604      613  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »      0.0
605      614  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
              »      0.0
606      615  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
              »      0.65
607      616  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »     345.0
608      617  Perf_Background_Dpkg.Pccuraltcstr.Valid
              »      True
609      618  Perf_Background_Dpkg.Pcprebcalt.Valid
              »      True
610      619  Perf_Background_Dpkg.Pcgmttime.Hour
              »        2
611      620  Perf_Background_Dpkg.Pcgmttime.Minute
              »        2
612      621  Perf_Background_Dpkg.Pcgmttime.Second
              »        2
613      622  Perf_Background_Dpkg.Psinertvs
              »      5.0
614      623  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
              »        0
615      624  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
              »        2
616      625  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
              »        0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
617   626 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            »        2
618   627 Perf_Ads_Dpkg.Pr_Enabled
            »      False
619   628 ATC_DISCRETES_PKG:body.Adson_Flag
            »      False
620   629 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            »      true
621   630 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            »      true
622   631 ^Noise_End_Alt_Status                                                    Takeoff_Alt_Type
            » s.Active
623   632 ^Noise_Speed_Val
            »      True
624   633 ^Noise_TSPD.valid
            »      True
625   634 ^Noise_TSPD.Data
            »      150.0
626   635 ^Noise_End_Alt
            »      300.0
627   636 ^Noise_Speed
            »      250.0
628   637 ^Noise_Thrust
            »     Maxclb
629   638 Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
            »      True
630   639 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
            »      True
631   640 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
            »      21.0
632   641 Perf_Background_Dpkg.Psorgalt
            »    36080.0
633   642 Perf_Background_Dpkg.Noise_Data.Altitude.Data
            »      0.0
634   643 Perf_Background_Dpkg.Noise_Data.Altitude.Valid
            »      False
635   644 Perf_Background_Dpkg.Noise_Data.Speed.Data
            »      0.0
636   645 Perf_Background_Dpkg.Noise_Data.Speed.Valid
            »      False
637   646 Perf_Background_Dpkg.Noise_Data.Tspd.Data
            »      0.0
638   647 Perf_Background_Dpkg.Noise_Data.Tspd.Valid
            »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
639    648 | Perf_Background_Dpkg.Noise_Data.Thrust
           | »   Drtnone
640    649 | Perf_Background_Dpkg.Pcfltphase
           | »     Cruise
641    650 | Perf_Background_Dpkg.Psacalt
           | »       50.0
642    651 | Perf_Background_Dpkg.Psacaltv
           | »     False
643    652 | Perf_Background_Dpkg.Pstruetrkv
           | »     False
644    653 | Perf_Background_Dpkg.Psvgrnd
           | »        0.0
645    654 | Perf_Background_Dpkg.Psvgrndval
           | »     False
646    655 | Perf_Background_Dpkg.Pcacposn.Data.Lat
           | »     100.0
647    656 | Perf_Background_Dpkg.Pcacposn.Data.Lon
           | »     100.0
648    657 | Perf_Background_Dpkg.Pcacposn.Valid
           | »      false
649    658 | Perf_Background_Dpkg.Pstruetrack
           | »        0.2
650    659 | Perf_Background_Dpkg.Pswindbrg
           | »     150.0
651    660 | Perf_Background_Dpkg.Pswindmag
           | »     130.0
652    661 | Perf_Background_Dpkg.Pswindval
           | »      false
653    662 | Fmcs_Partition_Data_Pkg.Ops_Time.Hour
           | »        1
654    663 | Fmcs_Partition_Data_Pkg.Ops_Time.Minute
           | »        1
655    664 | Fmcs_Partition_Data_Pkg.Ops_Time.Second
           | »        1
656    665 | Perf_Dpkg.Psnumengout
           | »        1
657    666 | Perf_Background_Dpkg.Psvgonpath
           | »      true
658    667 | Perf_Background_Dpkg.Pscrzalt.data
           | »      10.0
659    668 | Perf_Background_Dpkg.Pscrzalt.Valid
           | »      false
660    669 | Perf_Background_Dpkg.Psfinaldes
           | »      false
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
661 | 670 | Perf_Background_Dpkg.Pcspeedmode                                                                          Perf_Ext_Tpk
          | » g.Vmecon
662 | 671 | Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
          | »     230.0
663 | 672 | Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
          | »   15000.0
664 | 673 | Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type                                                     Vg_Ext_Tpkg.Clb
          | » _Spd_Lim
665 | 674 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                                                                     "
          | » ABCD      "
666 | 675 | Perf_Background_Dpkg.Pcactorsec
          | »     Active
667 | 676 | Perf_Background_Dpkg.Alt_Curr_Baro.Valid
          | »     False
668 | 677 | Perf_Background_Dpkg.Alt_Curr_Baro.Data
          | »     0.00
669 | 678 | Guid_Ext_Dpkg.Galxtk
          | »     2.49
670 | 679 | Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim
          | »     true
671 | 680 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
          | »     true
672 | 681 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active
          | »     true
673 | 682 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
          | »     2100
674 | 683 | Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
          | »     True
675 | 684 | Perf_Background_Dpkg.Speed_Annunciation.Cas
          | »     0.0
676 | 685 | Perf_Background_Dpkg.Speed_Annunciation.Alt
          | »     0.0
677 | 686 | Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                                    Vg_Ext_Tpkg
          | » .Invalid
678 | 687 | Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                                     "
          | »          "
679 | 688 | Perf_Background_Dpkg.Flex_Isadev.Data
          | »     5.0
680 | 689 | Perf_Background_Dpkg.Ac_Crosstrack_Error
          | »     0.0
681 | 690 | Perf_Background_Dpkg.Early_Descent_From_Level
          | »     false
682 | 691 | Perf_Background_Dpkg.Altholdmode
          | »     false
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
683 |  692 | CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Valid
    |      | »      True
684 |  693 | CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Data
    |      | »      23.20
685 |  694 | Perf_Background_Dpkg.Pspressalt
    |      | »       0.0
686 |  695 | Perf_Background_Dpkg.Pscurtasvalid
    |      | »     false
687 |  696 |
688 |  697 |
689 |  698 |  define Get_Maxop_Delta_Called := False
690 |  699 |  define Get_Def_Thrust_Reduction_Alt_Called := False
691 |  700 |  define Get_Cruise_Alt_Called := False
692 |  701 |  define Get_Ac_Config_Called := False
693 |  702 |
694 |  703 |
695 |  704 | INPUT                                                                                                 VALUE
696 |  705 | -------------------------------------------------------------------------------------------------  ------------------
    |      | » --------
697 |  706 | Computoldtgt
    |      | »      True
698 |  707 | Curspdsval
    |      | »      False
699 |  708 | Perf_Background_Dpkg.Psfirstpass
    |      | »      False
700 |  709 | Perf_Background_Dpkg.Psonofrstpas
    |      | »      False
701 |  710 | Perf_Background_Dpkg.Psftpbwritok
    |      | »      False
702 |  711 | Perf_Background_Dpkg.Psvsact
    |      | »      True
703 |  712 | Perf_Background_Dpkg.Psfpaact
    |      | »      True
704 |  713 | Perf_Background_Dpkg.Pslvlatbcalt
    |      | »      True
705 |  714 | Perf_Integration_Dpkg.Pslvlblwpth
    |      | »      True
706 |  715 | Perf_Background_Dpkg.Psfi_Possble
    |      | »      True
707 |  716 | Perf_Background_Dpkg.On_Icao_Leg_Decel
    |      | »      True
708 |  717 | Perf_Background_Dpkg.Psignorehm
    |      | »      True
709 |  718 | Perf_Integration_Dpkg.Pcoldwspdchg                                                                    Ica
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
        |          |» olimited
    710 |      719 |Perf_Background_Dpkg.Adc_Fg_Valid
        |          |»      False
    711 |      720 |Perf_Background_Dpkg.Psenginesoff
        |          |»        True
    712 |      721 |Perf_Dpkg.Pcdelspdrec.Predicted
        |          |»        True
    713 |      722 |Perf_Background_Dpkg.Pcoldeconcas.Valid
        |          |»        True
    714 |      723 |Perf_Dpkg.takeoff_gwt.valid
        |          |»        True
    715 |      724 |Perf_Dpkg.takeoff_gwt.data
        |          |»      400.0
    716 |      725 |
    717 |      726 |
    718 |      727 | define Get_Def_Thrust_Reduction_Alt_Called   := True
    719 |      728 | define Get_Def_Thrust_Reduction_Alt_Called   := True
    720 |      729 |
    721 |      730 |
    722 |      731 |INPUT                                                                                        VALUE
    723 |      732 |------------------------------------------------------------------------------------- ------------------
        |          |» --------
    724 |      733 |Thredalt.Data(Fprequestrec_Types.Takeoff).Altitude
        |          |»      10001
    725 |      734 |
    726 |      735 |
    727 |      736 |OUTPUT                                                    EXPECTED              TOLERANCE        ACTUAL
        |          |»           P/F
    728 |      737 |-------------------------------------------------- ----------------------------- ------------- ------------------
        |          |» --------  ----
    729 |      738 |Computoldtgt                                               False             (N/A)
        |          |»    FALSE  P
    730 |      739 |Curspdsval                                                 True              (N/A)
        |          |»     TRUE  P
    731 |      740 |Perf_Background_Dpkg.Psfirstpass                           True              (N/A)
        |          |»     TRUE  P
    732 |      741 |Perf_Background_Dpkg.Psonofrstpas                          True              (N/A)
        |          |»     TRUE  P
    733 |      742 |Perf_Background_Dpkg.Psftpbwritok                          True              (N/A)
        |          |»     TRUE  P
    734 |      743 |Perf_Background_Dpkg.Psvsact                               False             (N/A)
        |          |»    FALSE  P
    735 |      744 |Perf_Background_Dpkg.Psfpaact                              False             (N/A)
        |          |»    FALSE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

736	745	Perf_Background_Dpkg.Pslvlatbcalt	False	(N/A)	
		» FALSE P			
737	746	Perf_Integration_Dpkg.Pslvlblwpth	False	(N/A)	
		» FALSE P			
738	747	Perf_Background_Dpkg.Psfi_Possble	False	(N/A)	
		» FALSE P			
739	748	Perf_Background_Dpkg.On_Icao_Leg_Decel	False	(N/A)	
		» FALSE P			
740	749	Perf_Background_Dpkg.Psignorehm	False	(N/A)	
		» FALSE P			
741	750	Perf_Integration_Dpkg.Pcoldwspdchg	Returntoecon	(N/A)	RETU
		» RNTOECON P			
742	751	Perf_Background_Dpkg.Psacalt	100.0	0.001	1.0
		» 0000E+02 P			
743	752	Perf_Background_Dpkg.Psacaltv	True	(N/A)	
		» TRUE P			
744	753	Perf_Background_Dpkg.Pcacposn.Data.Lat	150.0	0.001	1.5
		» 0000E+02 P			
745	754	Perf_Background_Dpkg.Pcacposn.Data.Lon	120.0	0.001	1.2
		» 0000E+02 P			
746	755	Perf_Background_Dpkg.Pcacposn.Valid	true	(N/A)	
		» TRUE P			
747	756	Perf_Background_Dpkg.Pstruetrack	0.1	0.001	1.0
		» 0000E-01 P			
748	757	Perf_Background_Dpkg.Pstruetrkv	True	(N/A)	
		» TRUE P			
749	758	Perf_Background_Dpkg.Pswindbrg	200.0	0.001	2.0
		» 0000E+02 P			
750	759	Perf_Background_Dpkg.Pswindmag	100.0	0.001	1.0
		» 0000E+02 P			
751	760	Perf_Background_Dpkg.Pswindval	true	(N/A)	
		» TRUE P			
752	761	Perf_Background_Dpkg.Psvgrnd	1.0	0.001	1.0
		» 0000E+00 P			
753	762	Perf_Background_Dpkg.Psvgrndval	True	(N/A)	
		» TRUE P			
754	763				
755	764				
756	765	INPUT			VALUE
757	766	--		-----------------
		» --------			
758	767	Eng_Healthy1_Inboard			
		» True			
759	768	Eng_Healthy1_Outboard			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              |             »       True
       760|   769|Eng_Healthy2_Inboard
              |             »       True
       761|   770|Eng_Healthy2_Outboard
              |             »       True
       762|   771|Tla_Ecu1_Inboard.Data
              |             »       1.0
       763|   772|Tla_Ecu1_Inboard.Valid
              |             »       True
       764|   773|Tla_Ecu1_Outboard.Data
              |             »       1.0
       765|   774|Tla_Ecu1_Outboard.Valid
              |             »       True
       766|   775|Tla_Ecu2_Inboard.Data
              |             »       1.0
       767|   776|Tla_Ecu2_Inboard.Valid
              |             »       True
       768|   777|Tla_Ecu2_Outboard.Data
              |             »       1.0
       769|   778|Tla_Ecu2_Outboard.Valid
              |             »       True
       770|   779|
       771|   780|
       772|   781|OUTPUT                                                        EXPECTED            TOLERANCE            ACTUAL
              |             »          P/F
       773|   782|------------------------------------------------------  ------------------------------  ------------  ------------------
              |             » --------   ----
       774|   783|Eng_Healthy1_Inboard                                          False               (N/A)
              |             »     FALSE   P
       775|   784|Eng_Healthy1_Outboard                                         True                (N/A)
              |             »      TRUE   P
       776|   785|Eng_Healthy2_Inboard                                          False               (N/A)
              |             »     FALSE   P
       777|   786|Eng_Healthy2_Outboard                                         True                (N/A)
              |             »      TRUE   P
       778|   787|Tla_Ecu1_Inboard.Data                                         0.0                 0.001                  0.0
              |             » 0000E+00   P
       779|   788|Tla_Ecu1_Inboard.Valid                                        False               (N/A)
              |             »     FALSE   P
       780|   789|Tla_Ecu1_Outboard.Data                                        0.0                 0.001                  0.0
              |             » 0000E+00   P
       781|   790|Tla_Ecu1_Outboard.Valid                                       False               (N/A)
              |             »     FALSE   P
       782|   791|Tla_Ecu2_Inboard.Data                                         0.0                 0.001                  0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » 0000E+00  P
    783      792 | Tla_Ecu2_Inboard.Valid                                      False        (N/A)
                    »    FALSE  P
    784      793 | Tla_Ecu2_Outboard.Data                                        0.0        0.001              0.0
                    » 0000E+00  P
    785      794 | Tla_Ecu2_Outboard.Valid                                     False        (N/A)
                    »    FALSE  P
    786      795 | Perf_Background_Dpkg.Pcfltphase                           Takeoff        (N/A)
                    »  TAKEOFF  P
    787      796 | Perf_Background_Dpkg.Pcgmttime.Hour                             1        (N/A)
                    »       1  P
    788      797 | Perf_Background_Dpkg.Pcgmttime.Minute                           1        (N/A)
                    »       1  P
    789      798 | Perf_Background_Dpkg.Pcgmttime.Second                           1        (N/A)
                    »       1  P
    790      799 |
    791      800 |
    792      801 | INPUT                                                                                        VALUE
    793      802 | ------------------------------------------------------------------------------ ------------------
                    » --------
    794      803 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
                    »     True
    795      804 | Perf_Background_Dpkg.Vman_Fe.Data
                    »      1.0
    796      805 | Perf_Background_Dpkg.Vman_Fe.Valid
                    »     True
    797      806 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
                    »    False
    798      807 | Airborne_Dat
                    »     True
    799      808 |
    800      809 |
    801      810 | OUTPUT                                            EXPECTED            TOLERANCE             ACTUAL
                    »          P/F
    802      811 | --------------------------------------------  ----------------------------  ------------- ------------------
                    » --------  ----
    803      812 | Perf_Background_Dpkg.Vman_Fe.Data                             0.0        0.001              0.0
                    » 0000E+00  P
    804      813 | Perf_Background_Dpkg.Vman_Fe.Valid                         False        (N/A)
                    »    FALSE  P
    805      814 | Perf_Background_Dpkg.Psairborne                             True        (N/A)
                    »     TRUE  P
    806      815 | Perf_Background_Dpkg.Psautolat                             False        (N/A)
                    »    FALSE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
807    816 Perf_Background_Dpkg.Psengout                                                          False          (N/A)
           »     FALSE   P
808    817 Perf_Background_Dpkg.Psenginesoff                                                      False          (N/A)
           »     FALSE   P
809    818
810    819
811    820  define Get_Cruise_Alt_Called   := True
812    821  define Get_Cruise_Alt_Called   := True
813    822
814    823
815    824 INPUT                                                                                                         VALUE
816    825 ------------------------------------------------------------------------------------------------- ------------------
           » --------
817    826 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat
           »      True
818    827 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
           »      True
819    828 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
           »      True
820    829 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
           »      True
821    830 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
           »      True
822    831 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side1
           »      True
823    832 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side2
           »      True
824    833 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1
           »      True
825    834 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2
           »      True
826    835
827    836
828    837 OUTPUT                                                        EXPECTED                 TOLERANCE           ACTUAL
           »           P/F
829    838 ------------------------------------------------------- ----------------------------- ------------- ------------------
           » --------   ----
830    839 Perf_Background_Dpkg.Adc_Fg_Valid                                                      True           (N/A)
           »     TRUE   P
831    840 Perf_Background_Dpkg.Pspressalt                                                        2100.0         0.001              2.1
           » 0000E+03   P
832    841 Perf_Background_Dpkg.Pscurcas                                                          0.0            0.001              0.0
           » 0000E+00   P
833    842 Perf_Background_Dpkg.Pscurmach                                                         0.0            0.001              0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                » 0000E+00  P
834 |  843 | Perf_Background_Dpkg.Pscurtas                                         0.0        0.001             0.0
                » 0000E+00  P
835 |  844 | Perf_Background_Dpkg.Pscurtasvalid                                    True        (N/A)
                »     TRUE  P
836 |  845 | Perf_Dpkg.Psnumengout                                                    0        (N/A)
                »        0  P
837 |  846 | Perf_Background_Dpkg.Psvgonpath                                      false        (N/A)
                »    FALSE  P
838 |  847 | Perf_Background_Dpkg.Pscrzalt.data                                     5.0        0.001             5.0
                » 0000E+00  P
839 |  848 | Perf_Background_Dpkg.Pscrzalt.Valid                                   True        (N/A)
                »     TRUE  P
840 |  849 | Perf_Dpkg.Pcdelspdrec.Predicted                                     False        (N/A)
                »    FALSE  P
841 |  850 | Perf_Background_Dpkg.Pcoldeconcas.Valid                             False        (N/A)
                »    FALSE  P
842 |  851 |
843 |  852 |
844 |  853 | INPUT                                                                                            VALUE
845 |  854 | ------------------------------------------------------------------------------------  -----------------
                » --------
846 |  855 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.PRIM_Voted_Inertial_Vert_Speed
                »     True
847 |  856 | Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed
                »     True
848 |  857 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.PRIM_Voted_Inertial_Vert_Speed
                »     1.0
849 |  858 |
850 |  859 |
851 |  860 | OUTPUT                                                EXPECTED              TOLERANCE         ACTUAL
                »           P/F
852 |  861 | ----------------------------------------------  ---------------------------  ------------  -----------------
                » --------  ----
853 |  862 | Adc_In_Range                                            True        (N/A)
                »     TRUE  P
854 |  863 | Perf_Background_Dpkg.Adc_Fg_Valid                       True        (N/A)
                »     TRUE  P
855 |  864 | Perf_Background_Dpkg.Psinertvs                           1.0        0.001             1.0
                » 0000E+00  P
856 |  865 |
857 |  866 |
858 |  867 |  define Get_Ac_Config_Called  := True
859 |  868 |  define Get_Ac_Config_Called  := True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
860 | 869
861 | 870
862 | 871 OUTPUT                                                        EXPECTED                   TOLERANCE            ACTUAL
             »           P/F
863 | 872 -----------------------------------------------------  ----------------------------  ------------  ------------------
             » --------  ----
864 | 873 Perf_Background_Dpkg.Pcspeedmode                              Perf_Ext_Tpkg.Vmspd          (N/A)
             »     VMSPD   P
865 | 874 Perf_Background_Dpkg.Psfinaldes                                             true          (N/A)
             »      TRUE   P
866 | 875 Perf_Background_Dpkg.Pcacconfig                                                0          (N/A)
             »        0   P
867 | 876
868 | 877
869 | 878 INPUT                                                                                                        VALUE
870 | 879 ------------------------------------------------------------------------------------------  ------------------
             » --------
871 | 880 Perf_Background_Dpkg.Psgrndotdes
             »      True
872 | 881 Perf_Background_Dpkg.Psstpclbact
             »      True
873 | 882 Perf_Background_Dpkg.Psstpdesact
             »      True
874 | 883 Perf_Background_Dpkg.Psengout
             »      False
875 | 884 Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
             »      False
876 | 885 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
             »      False
877 | 886 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
             »      False
878 | 887
879 | 888
880 | 889 OUTPUT                                                        EXPECTED                   TOLERANCE            ACTUAL
             »           P/F
881 | 890 -----------------------------------------------------  ----------------------------  ------------  ------------------
             » --------  ----
882 | 891 Perf_Integration_Dpkg.Pcairbrakes                                        Zeroab          (N/A)
             »    ZEROAB   P
883 | 892 Perf_Background_Dpkg.Psgrndotdes                                           False          (N/A)
             »     FALSE   P
884 | 893 Perf_Background_Dpkg.Psstpclbact                                           False          (N/A)
             »     FALSE   P
885 | 894 Perf_Background_Dpkg.Psstpdesact                                           False          (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 |»      FALSE  P
     886 |   895 |
     887 |   896 |
     888 |   897 |INPUT                                                                              VALUE
     889 |   898 |------------------------------------------------------------------------------  ------------------
                 |» --------
     890 |   899 |Curspdsval
                 |»      False
     891 |   900 |Perf_Background_Dpkg.Pcmanspd.Speed.CAS
                 |»          1.0
     892 |   901 |Perf_Background_Dpkg.Pcmanspd.CASVALID
                 |»      True
     893 |   902 |Perf_Background_Dpkg.Pcmanspd.Speed.MACH
                 |»          1.0
     894 |   903 |Perf_Background_Dpkg.Pcmanspd.MACHVALID
                 |»      True
     895 |   904 |Perf_Background_Dpkg.Pccuraltcstr.Data
                 |»          1.0
     896 |   905 |Perf_Background_Dpkg.Pccuraltcstr.Valid
                 |»      True
     897 |   906 |Perf_Background_Dpkg.Pccuraltcstr.Legidx
                 |»          1
     898 |   907 |Perf_Background_Dpkg.Pccuraltcstr.Lgidval
                 |»      True
     899 |   908 |Perf_Background_Dpkg.Pccuraltcstr.Usevga
                 |»      True
     900 |   909 |Perf_Background_Dpkg.Pccuraltcstr.Vgaidx
                 |»          1
     901 |   910 |Perf_Background_Dpkg.Pcprebcalt.Data
                 |»          1.0
     902 |   911 |Perf_Background_Dpkg.Pcprebcalt.Valid
                 |»      True
     903 |   912 |Perf_Background_Dpkg.Pc3rdalt.Data
                 |»          1.0
     904 |   913 |Perf_Background_Dpkg.Pc3rdalt.Valid
                 |»      True
     905 |   914 |Perf_Background_Dpkg.Pslcautoctl
                 |»      True
     906 |   915 |Perf_Background_Dpkg.Vert_Auto_Mode
                 |»      True
     907 |   916 |
     908 |   917 |
     909 |   918 |OUTPUT                                                          EXPECTED            TOLERANCE           ACTUAL
                 |»          P/F
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
910 | 919 |-------------------------------------------------------  -------------------------------  -------------  ------------------
          | »  --------   ----
911 | 920 |Perf_Background_Dpkg.Pcmanspd.Speed.CAS                                   0.0                      0.001                    0.0
          | »  0000E+00   P
912 | 921 |Perf_Background_Dpkg.Pcmanspd.CASVALID                                  False                      (N/A)
          | »     FALSE   P
913 | 922 |Perf_Background_Dpkg.Pcmanspd.Speed.MACH                                  0.0                      0.001                    0.0
          | »  0000E+00   P
914 | 923 |Perf_Background_Dpkg.Pcmanspd.MACHVALID                                 False                      (N/A)
          | »     FALSE   P
915 | 924 |Perf_Background_Dpkg.Pccuraltcstr.Data                                    0.0                      0.001                    0.0
          | »  0000E+00   P
916 | 925 |Perf_Background_Dpkg.Pccuraltcstr.Valid                                 False                      (N/A)
          | »     FALSE   P
917 | 926 |Perf_Background_Dpkg.Pccuraltcstr.Legidx                                    0                      (N/A)
          | »         0   P
918 | 927 |Perf_Background_Dpkg.Pccuraltcstr.Lgidval                               False                      (N/A)
          | »     FALSE   P
919 | 928 |Perf_Background_Dpkg.Pccuraltcstr.Usevga                                False                      (N/A)
          | »     FALSE   P
920 | 929 |Perf_Background_Dpkg.Pccuraltcstr.Vgaidx                                    0                      (N/A)
          | »         0   P
921 | 930 |Perf_Background_Dpkg.Pcprebcalt.Data                                      0.0                      0.001                    0.0
          | »  0000E+00   P
922 | 931 |Perf_Background_Dpkg.Pcprebcalt.Valid                                   False                      (N/A)
          | »     FALSE   P
923 | 932 |Perf_Background_Dpkg.Pc3rdalt.Data                                        0.0                      0.001                    0.0
          | »  0000E+00   P
924 | 933 |Perf_Background_Dpkg.Pc3rdalt.Valid                                     False                      (N/A)
          | »     FALSE   P
925 | 934 |Perf_Background_Dpkg.Pslcautoctl                                        False                      (N/A)
          | »     FALSE   P
926 | 935 |Perf_Background_Dpkg.Vert_Auto_Mode                                     False                      (N/A)
          | »     FALSE   P
927 | 936 |Perf_Background_Dpkg.Noise_Data.Tspd.Data                               150.0                      0.001                    1.5
          | »  0000E+02   P
928 | 937 |Perf_Background_Dpkg.Noise_Data.Tspd.Valid                               True                      (N/A)
          | »      TRUE   P
929 | 938 |
930 | 939 |
931 | 940 |INPUT                                                                                                            VALUE
932 | 941 |-------------------------------------------------------------------------------------------------  ------------------
          | »  --------
933 | 942 |Perf_Background_Dpkg.Lim_Max_Op_Cas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

			EXPECTED	TOLERANCE	ACTUAL
		» 5.0			
934	943	Perf_Background_Dpkg.Lim_Max_Op_Mach			
		» 0.0			
935	944				
936	945				
937	946	define Get_Maxop_Delta_Called := True			
938	947	define Get_Maxop_Delta_Called := True			
939	948				
940	949				
941	950	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
942	951	--- ----------------------------- ------------- ------------------			
		» -------- ----			
943	952	Rwy_Temp	-56.481	0.001	-5.6
		» 4817E+01 P			
944	953	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec	True	(N/A)	TRUE
		» TRUE P			
945	954	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec	True	(N/A)	TRUE
		» TRUE P			
946	955	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec	True	(N/A)	TRUE
		» TRUE P			
947	956	Perf_Background_Dpkg.Pstogwtval	True	(N/A)	TRUE
		» TRUE P			
948	957	Perf_Background_Dpkg.Pstogwt	400.0	0.001	4.0
		» 0000E+02 P			
949	958	Perf_Background_Dpkg.Pcgwind	Valid	(N/A)	VALID
		» VALID P			
950	959	Perf_Background_Dpkg.Psgw	400.0	0.001	4.0
		» 0000E+02 P			
951	960	Perf_Dpkg.Pcengoutprds	ENGOUTNOTVAL	(N/A)	ENGO
		» UTNOTVAL P			
952	961	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	FALSE
		» FALSE P			
953	962	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	TRUE
		» TRUE P			
954	963	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	TRUE
		» TRUE P			
955	964	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	TRUE
		» TRUE P			
956	965	Perf_Background_Dpkg.Flex_Isadev.Data	77.481696	0.001	7.7
		» 4817E+01 P			
957	966	Perf_Background_Dpkg.Noise_Data.Altitude.Valid	True	(N/A)	TRUE
		» TRUE P			
958	967	Perf_Background_Dpkg.Noise_Data.Altitude.Data	300.0	0.001	3.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 0000E+02 P			
959	968	Perf_Background_Dpkg.Noise_Data.Speed.Valid	True	(N/A)	
		» TRUE P			
960	969	Perf_Background_Dpkg.Noise_Data.Speed.Data	250.0	0.001	2.5
		» 0000E+02 P			
961	970	Perf_Background_Dpkg.Speed_Annunciation.Cas	230.0	0.001	2.3
		» 0000E+02 P			
962	971	Perf_Background_Dpkg.Speed_Annunciation.Alt	15000.0	0.001	1.5
		» 0000E+04 P			
963	972	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type Vg_Ext_Tpkg.Clb_Spd_Lim		(N/A)	CLB
		» _SPD_LIM P			
964	973	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident	"ABCD "	(N/A)	"
		» ABCD " P			
965	974	Get_Maxop_Delta_Called	True	(N/A)	
		» TRUE P			
966	975	Get_Def_Thrust_Reduction_Alt_Called	True	(N/A)	
		» TRUE P			
967	976	Get_Cruise_Alt_Called	True	(N/A)	
		» TRUE P			
968	977	Get_Ac_Config_Called	True	(N/A)	
		» TRUE P			
969	978	Perf_Background_Dpkg.Lim_Max_Op_Cas	0.0	0.001	0.0
		» 0000E+00 P			
970	979	Perf_Background_Dpkg.Lim_Max_Op_Mach	0.45	0.001	4.5
		» 0000E-01 P			
971	980	Perf_Background_Dpkg.Noise_Data.Thrust	Maxclb	(N/A)	
		» MAXCLB P			
972	981	Perf_Background_Dpkg.Ac_Crosstrack_Error	2.49	0.001	2.4
		» 9000E+00 P			
973	982	Perf_Background_Dpkg.Early_Descent_From_Level	true	(N/A)	
		» TRUE P			
974	983	Perf_Background_Dpkg.Altholdmode	true	(N/A)	
		» TRUE P			
975	984	Perf_Background_Dpkg.Alt_Curr_Baro.Valid	True	(N/A)	
		» TRUE P			
976	985	Perf_Background_Dpkg.Alt_Curr_Baro.Data	23.20	0.001	2.3
		» 2000E+01 P			
977	986				
978	987				
979	988	====> All 121 Comparisons Passed <====			
980	989				
981	990				
982	991	TESTID: 2			
983	992				

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

984	993	Verify that if an engine-out condition exists and current flightphase is TO, then engine-out predictions flag is s » et to
985	994	NOPREDS. Verify that when Pcitin is No_Itinerary that descent path is not invalidated.
986	995	PERF_SDD_0410 (PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX), PERF_SDD_3317_INT, PERF_SDD_0417_INT,
987	996	when the working flight plan is Is_Active, a variety of following global data be retrieved
988	997	- Airborne flag
989	998	when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is false
990	999	- when Io_Common_Irs_Dpkg.Sel_Src_Inertial_Vert_Speed is invalid, A/C inertial vertical speed set to 0.0
991	1000	- when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Active is not valid, Altitude Hold mode flag status is not from » FMGC via the interface
992	1001	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
993	1002	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
994	1003	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100,PERF_SRD_6005_INT)
995	1004	
996	1005	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
997	1006	working flight plan.
998	1007	PERF_SDD_4328 (PERF_SRD_10166_INT)
999	1008	
1000	1009	The airborne flag(Psairborne) shall be set when
1001	1010	- the Is_Airborne flag from IO is valid and
1002	1011	- the current flight phase is not in preflight or done.
1003	1012	PERF_SDD_07495_INT
1004	1013	
1005	1014	The ADC/FG input data validity(Adc_Fg_Valid) shall be determined from the validity of
1006	1015	- Static Air Temperature
1007	1016	- Pressure Altitude
1008	1017	- CAS, TAS, Mach (here the aircraft is not airborne and the validity can't perform) and
1009	1018	For the valid ADC/FG input data, the following data are retrieved from IO
1010	1019	- A/C Pressure altitude
1011	1020	- A/C CAS
1012	1021	- A/C Mach
1013	1022	- A/C TAS
1014	1023	Also if the baro corrected altitude is valid, then the current baro corrected altitude is retrieved from IO.
1015	1024	PERF_SDD_07496_INT
1016	1025	
1017	1026	The ADC range flag shall be set to false when not all of the following conditions are valid
1018	1027	- the aircraft pressure altitude is from -2000.00 ft to 50,000.00 ft.
1019	1028	- the aircraft static air temperature is from -99.00 to 80.00 Celcius
1020	1029	- the aircraft is airborne and
1021	1030	- the aircraft CAS is from 0.0 kts to 450.0 kts.
1022	1031	- the airacrft Mach is from 0.0 to 1.0 mach
1023	1032	- the aircraft TAS is at or below 599.00 kts
1024	1033	- the aircraft TAS is at or above 50.0 kts or the aircraft flight phase being takeoff or
1025	1034	before with aircraft TAS is at or above 0.0 kts

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1026  1035        PERF_SDD_07497_INT
1027  1036
1028  1037        The ADC/FG input data validity shall be set based on the validity of ADC range flag.
1029  1038        PERF_SDD_07498_INT
1030  1039
1031  1040        When the flight phase is descent or approach, the descent path reference shall be set to
1032  1041        the guidance descent path reference(Va3pathref).
1033  1042        PERF_SDD_07500_INT
1034  1043
1035  1044        If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is
1036  1045        not Secondary or engines are on, the aircraft gross weight shall be set to the following:
1037  1046           - Aircraft GW from the Performance Weights function, if the flight phase is other than takeoff or before,
1038  1047             or the aircraft gross weight or the Take Off gross weight being invalid
1039  1048        The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
1040  1049        PERF_SDD_07501_INT
1041  1050
1042  1051
1043  1052 INPUT                                                                                           VALUE
1044  1053 ------------------------------------------------------------------------------------------  -----------------
           » --------
1045  1054 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
           »     False
1046  1055 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
           »     False
1047  1056 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
           »     False
1048  1057 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
           »     False
1049  1058 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
           »     False
1050  1059 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
           »     True
1051  1060 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
           »     True
1052  1061 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
           »     True
1053  1062 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
           »     True
1054  1063 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
           »     True
1055  1064 Perf_Dpkg.Min_Gwt
           »     100.0
1056  1065 Perf_Dpkg.Max_Gwt
           »     400.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1057	1066	Perf_Background_Dpkg.Flight_Plan_Type	I
		» s_Active	
1058	1067	Perf_Background_Dpkg.Psignorehm	
		» True	
1059	1068	Perf_Background_Dpkg.Pcfltphase	
		» Takeoff	
1060	1069	Perf_Background_Dpkg.Ats_Enable	
		» True	
1061	1070	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	
		» Takeoff	
1062	1071	Perf_Background_Dpkg.Psacalt	
		» 10000.0	
1063	1072	Perf_Database_Dpkg.Psmmo	
		» 0.45	
1064	1073	Perf_Background_Dpkg.Pszfw	
		» 300.0	
1065	1074	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
1066	1075	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
1067	1076	Perf_Background_Dpkg.Psairborne	
		» True	
1068	1077	Perf_Background_Dpkg.Psautolat	
		» False	
1069	1078	Guid_Ext_Dpkg.Gcxxlatautoc	
		» False	
1070	1079	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
1071	1080	Perf_Background_Dpkg.Psengout	
		» False	
1072	1081	Cdk_Vert_Dpkg:Body.Engine_Out_I	
		» True	
1073	1082	Perf_Background_Dpkg.Pcholdflags.Hmdecel	
		» True	
1074	1083	Perf_Dpkg.Repredict_Hm_Decel	
		» True	
1075	1084	Perf_Background_DPkg.Pshmdecel	
		» True	
1076	1085	Perf_Background_Dpkg.Pcholdflags.Hmactive	
		» True	
1077	1086	Perf_Ads_Dpkg.Fi_Enabled	
		» False	
1078	1087	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive	
		» False	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1079 | 1088 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn
     |      | »      True
1080 | 1089 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
     |      | »      True
1081 | 1090 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
     |      | »      True
1082 | 1091 | Perf_Background_Dpkg.Pcholdflags.Hmdistval
     |      | »      True
1083 | 1092 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
     |      | »      True
1084 | 1093 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
     |      | »      True
1085 | 1094 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
     |      | »      True
1086 | 1095 | Perf_Background_Dpkg.Psappspdlat
     |      | »      True
1087 | 1096 | Perf_Dpkg.Pcengoutprds
     |      | »    Altpln
1088 | 1097 | Perf_Background_Dpkg.Pcpathref
     |      | »    Nopath
1089 | 1098 | Guid_Ext_Dpkg.Va3Vertmde                                        Perf_Ext_Tp
     |      | » kg.Vmspd
1090 | 1099 | Perf_Background_DPkg.Pscurcas
     |      | »      5.0
1091 | 1100 | Perf_Background_DPkg.Pscurmach
     |      | »      5.0
1092 | 1101 | Perf_Background_DPkg.Pscurtas
     |      | »      5.0
1093 | 1102 | Perf_Background_Dpkg.Pcitin.Itinerary                                No_I
     |      | » tinerary
1094 | 1103 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
     |      | »      True
1095 | 1104 | Perf_Background_Dpkg.Pstogwtval
     |      | »    False
1096 | 1105 | Perf_Background_Dpkg.Pstogwt
     |      | »     50.0
1097 | 1106 | Perf_Background_Dpkg.Pcgwind
     |      | »    Invalid
1098 | 1107 | Perf_Background_Dpkg.Psgw
     |      | »      0.0
1099 | 1108 | Perf_Dpkg.Gross_Weight.Status
     |      | »    Valid
1100 | 1109 | Perf_Dpkg.Gross_Weight.Data
     |      | »    150.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1101 | 1110 | Perf_Integration_DPkg.Pcairbrakes
            |   »     Fullab
1102 | 1111 | Perf_Background_Dpkg.Pcacconfig
            |   »          5
1103 | 1112 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            |   »     False
1104 | 1113 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
            |   »     9000.0
1105 | 1114 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
            |   »     200.0
1106 | 1115 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            |   »     False
1107 | 1116 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            |   »     265.0
1108 | 1117 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            |   »     0.55
1109 | 1118 | Perf_Background_Dpkg.Psstpclbact
            |   »     True
1110 | 1119 | Perf_Background_Dpkg.Psstpdesact
            |   »     True
1111 | 1120 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            |   »        0.0
1112 | 1121 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            |   »        0.0
1113 | 1122 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
            |   »       0.65
1114 | 1123 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            |   »      345.0
1115 | 1124 | Perf_Background_Dpkg.Pccuraltcstr.Valid
            |   »     True
1116 | 1125 | Perf_Background_Dpkg.Pcprebcalt.Valid
            |   »     True
1117 | 1126 | Perf_Background_Dpkg.Pcgmttime.Hour
            |   »          1
1118 | 1127 | Perf_Background_Dpkg.Pcgmttime.Minute
            |   »          1
1119 | 1128 | Perf_Background_Dpkg.Pcgmttime.Second
            |   »          1
1120 | 1129 | Perf_Background_Dpkg.Psinertvs
            |   »        5.0
1121 | 1130 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            |   »          0
1122 | 1131 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            |   »          2
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1123    1132  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
              »         0
1124    1133  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
              »         2
1125    1134  Perf_Ads_Dpkg.Pr_Enabled
              »       False
1126    1135  ATC_DISCRETES_PKG:body.Adson_Flag
              »       False
1127    1136  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
              »       true
1128    1137  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
              »       true
1129    1138  ^Noise_End_Alt_Status                                                              Takeoff_Alt_Type
              » s.Active
1130    1139  ^Noise_Speed_Val
              »       True
1131    1140  Perf_Background_Dpkg.Pcactorsec                                                                    T
              » emporary
1132    1141  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Valid
              »       False
1133    1142  CTP_A350_PERF_BKGND_GET_BK_DATA.Parameter_Data
              »       23.20
1134    1143  Perf_Background_Dpkg.Alt_Curr_Baro.Valid
              »       False
1135    1144  Perf_Background_Dpkg.Alt_Curr_Baro.Data
              »       0.00
1136    1145  Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim
              »       false
1137    1146  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
              »       false
1138    1147  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active
              »       true
1139    1148  Perf_Background_Dpkg.Adc_Fg_Valid
              »       True
1140    1149  Perf_Background_Dpkg.Early_Descent_From_Level
              »       True
1141    1150  Perf_Background_Dpkg.Altholdmode
              »       True
1142    1151  Perf_Dpkg.takeoff_gwt.valid
              »       True
1143    1152  Perf_Dpkg.takeoff_gwt.data
              »       400.0
1144    1153  Airborne_Dat
              »       False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1145  1154
1146  1155
1147  1156 OUTPUT                                                           EXPECTED                 TOLERANCE             ACTUAL
           »          P/F
1148  1157 -------------------------------------------------  ---------------------------  -------------  ------------------
           » --------  ----
1149  1158 Perf_Background_Dpkg.Psairborne                                  False          (N/A)
           »    FALSE   P
1150  1159
1151  1160
1152  1161 INPUT                                                                                                           VALUE
1153  1162 -----------------------------------------------------------------------------------------------  ------------------
           » --------
1154  1163 Perf_Background_Dpkg.Pcfltphase
           »  Descent
1155  1164
1156  1165
1157  1166 OUTPUT                                                           EXPECTED                 TOLERANCE             ACTUAL
           »          P/F
1158  1167 -------------------------------------------------  ---------------------------  -------------  ------------------
           » --------  ----
1159  1168 Perf_Background_Dpkg.Pcpathref                                   INVALIDPATH    (N/A)                       INV
           » ALIDPATH   P
1160  1169
1161  1170
1162  1171 INPUT                                                                                                           VALUE
1163  1172 -----------------------------------------------------------------------------------------------  ------------------
           » --------
1164  1173 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat
           »     True
1165  1174 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
           »     False
1166  1175 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
           »     False
1167  1176 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
           »     False
1168  1177 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
           »     False
1169  1178 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side1
           »     False
1170  1179 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Mach_Side2
           »     False
1171  1180 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1
           »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1172  1181 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2
           »     False
1173  1182
1174  1183
1175  1184 OUTPUT                                                        EXPECTED                TOLERANCE          ACTUAL
           »          P/F
1176  1185 ------------------------------------------------------  ----------------------------  -------------  ------------------
           » --------  ----
1177  1186 Perf_Background_Dpkg.Adc_Fg_Valid                                               False          (N/A)
           »     FALSE  P
1178  1187
1179  1188
1180  1189 INPUT                                                                                                      VALUE
1181  1190 ------------------------------------------------------------------------------------------  ------------------
           » --------
1182  1191 Perf_Background_Dpkg.Adc_Fg_Valid
           »     True
1183  1192 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
           »     81.0
1184  1193 Perf_Background_Dpkg.Psairborne
           »     False
1185  1194
1186  1195
1187  1196 OUTPUT                                                        EXPECTED                TOLERANCE          ACTUAL
           »          P/F
1188  1197 ------------------------------------------------------  ----------------------------  -------------  ------------------
           » --------  ----
1189  1198 Adc_In_Range                                                                    False          (N/A)
           »     FALSE  P
1190  1199 Perf_Background_Dpkg.Adc_Fg_Valid                                               False          (N/A)
           »     FALSE  P
1191  1200
1192  1201
1193  1202 INPUT                                                                                                      VALUE
1194  1203 ------------------------------------------------------------------------------------------  ------------------
           » --------
1195  1204 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.PRIM_Voted_Inertial_Vert_Speed
           »     False
1196  1205 Io_IRS_Sel_Pkg.The_Selected_IRS.all.Io_IRS_MSG2_Validity_Rec.Inertial_Vert_Speed
           »     False
1197  1206 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.PRIM_Voted_Inertial_Vert_Speed
           »     1.0
1198  1207
1199  1208
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1200	1209	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
1201	1210	-- ------------------------------ ------------- -------------------			
		» -------- ----			
1202	1211	Perf_Background_Dpkg.Psinertvs	0.0	0.001	0.0
		» 0000E+00 P			
1203	1212	Perf_Background_Dpkg.Noise_Data.Altitude.Valid	False	(N/A)	
		» FALSE P			
1204	1213	Perf_Background_Dpkg.Noise_Data.Speed.Valid	False	(N/A)	
		» FALSE P			
1205	1214	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec	True	(N/A)	
		» TRUE P			
1206	1215	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec	True	(N/A)	
		» TRUE P			
1207	1216	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec	True	(N/A)	
		» TRUE P			
1208	1217	Perf_Background_Dpkg.Pstogwtval	True	(N/A)	
		» TRUE P			
1209	1218	Perf_Background_Dpkg.Pstogwt	400.0	0.001	4.0
		» 0000E+02 P			
1210	1219	Perf_Background_Dpkg.Pcgwind	Valid	(N/A)	
		» VALID P			
1211	1220	Perf_Background_Dpkg.Psgw	150.0	0.001	1.5
		» 0000E+02 P			
1212	1221	Perf_Dpkg.Pcengoutprds	NOPREDS	(N/A)	
		» NOPREDS P			
1213	1222	Perf_Despath_Dpkg.Pcdespath.Vgavalid	True	(N/A)	
		» TRUE P			
1214	1223	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
1215	1224	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	
		» TRUE P			
1216	1225	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	
		» TRUE P			
1217	1226	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	
		» TRUE P			
1218	1227	Perf_Background_Dpkg.Early_Descent_From_Level	false	(N/A)	
		» FALSE P			
1219	1228	Perf_Background_Dpkg.Altholdmode	false	(N/A)	
		» FALSE P			
1220	1229	Perf_Background_Dpkg.Alt_Curr_Baro.Valid	False	(N/A)	
		» FALSE P			
1221	1230	Perf_Background_Dpkg.Alt_Curr_Baro.Data	0.00	0.001	0.0
		» 0000E+00 P			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 1222  1231
 1223  1232
 1224  1233 ====> All 25 Comparisons Passed <====
 1225  1234
 1226  1235
 1227  1236 TESTID: 3
 1228  1237
 1229  1238    Verify that if an engine-out condition exists and current flightphase is Goaround, then the engine-out predictions
            » flag
 1230  1239    is set to NOPREDS.  Verify that when pcitin is Fuel_Plan_Fpln_Preds that descent path is invalidated.
 1231  1240    PERF_SDD_0417_INT, PERF_SDD_0418_INT, PERF_SDD_3105 (PERF_SRD_1919)
 1232  1241    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
 1233  1242     PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
 1234  1243     PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
 1235  1244    PERF_SDD_0410(PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX),
 1236  1245
 1237  1246    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
 1238  1247    working flight plan.
 1239  1248    PERF_SDD_4328 (PERF_SRD_10166_INT)
 1240  1249
 1241  1250    If the flight phase is neither descent nor approach, the descent path reference shall be set to indicate Nopath.
 1242  1251    PERF_SDD_07500_INT
 1243  1252
 1244  1253    If the current itinerary is one of the following:
 1245  1254    - Active Primary Flight Plan Predictions;
 1246  1255    - Temporary Primary Flight Plan Predictions;
 1247  1256    -Current mode predictions(Normal or High priority);
 1248  1257    - Optimum altitude predictions;
 1249  1258    then the descent path shall be retrieved from the descent path object
 1250  1259    manager via a call to Perf_Ext_Despath.Pgvdespath.
 1251  1260    PERF_SDD_3888_INT
 1252  1261
 1253  1262    When flight phase is beyond cruise with manual speed mode, then the speed validity shall be set as follows.
 1254  1263        If CAS is selected on FCU then Valid flag for MACH speed is set to False.
 1255  1264        If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
 1256  1265    CAS is selected in this test case.
 1257  1266    PERF_SDD_07545_INT
 1258  1267
 1259  1268
 1260  1269 INPUT                                                                                                    VALUE
 1261  1270 ----------------------------------------------------------------------------------------------------- -----------------
            » --------
 1262  1271 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
            »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1263   1272 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
              »       False
1264   1273 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
              »       False
1265   1274 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
              »       False
1266   1275 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
              »       False
1267   1276 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »       True
1268   1277 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »       True
1269   1278 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »       True
1270   1279 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »       True
1271   1280 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »       True
1272   1281 Perf_Dpkg.Min_Gwt
              »       100.0
1273   1282 Perf_Dpkg.Max_Gwt
              »       400.0
1274   1283 Perf_Background_Dpkg.Flight_Plan_Type                                                              I
              » s_Active
1275   1284 Perf_Background_Dpkg.Psignorehm
              »       True
1276   1285 Perf_Background_Dpkg.Pcfltphase
              » Goaround
1277   1286 Perf_Background_Dpkg.Ats_Enable
              »       True
1278   1287 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              » Goaround
1279   1288 Perf_Background_Dpkg.Psacalt
              »   10000.0
1280   1289 Perf_Database_Dpkg.Psmmo
              »       0.45
1281   1290 Perf_Background_Dpkg.Pszfw
              »       300.0
1282   1291 Perf_Background_Dpkg.Psblockfuel
              »       50.0
1283   1292 Perf_Background_Dpkg.Pstaxifuel
              »       25.0
1284   1293 Perf_Background_Dpkg.Psairborne
              »       True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1285 | 1294 | Perf_Background_Dpkg.Psautolat
     |      | »     False
1286 | 1295 | Guid_Ext_Dpkg.Gcxxlatautoc
     |      | »     False
1287 | 1296 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
     |      | »     False
1288 | 1297 | Perf_Background_Dpkg.Psengout
     |      | »     False
1289 | 1298 | Cdk_Vert_Dpkg:Body.Engine_Out_I
     |      | »     True
1290 | 1299 | Perf_Background_Dpkg.Pcholdflags.Hmdecel
     |      | »     True
1291 | 1300 | Perf_Dpkg.Repredict_Hm_Decel
     |      | »     True
1292 | 1301 | Perf_Background_DPkg.Pshmdecel
     |      | »     True
1293 | 1302 | Perf_Background_Dpkg.Pcholdflags.Hmactive
     |      | »     True
1294 | 1303 | Perf_Ads_Dpkg.Fi_Enabled
     |      | »     False
1295 | 1304 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
     |      | »     False
1296 | 1305 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn
     |      | »     True
1297 | 1306 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
     |      | »     True
1298 | 1307 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
     |      | »     True
1299 | 1308 | Perf_Background_Dpkg.Pcholdflags.Hmdistval
     |      | »     True
1300 | 1309 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
     |      | »     True
1301 | 1310 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
     |      | »     True
1302 | 1311 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
     |      | »     True
1303 | 1312 | Perf_Background_Dpkg.Psappspdlat
     |      | »     True
1304 | 1313 | Perf_Dpkg.Pcengoutprds
     |      | »     Altpln
1305 | 1314 | Perf_Background_Dpkg.Pcpathref
     |      | »     Onpath
1306 | 1315 | Guid_Ext_Dpkg.Va3Vertmde                                              Perf_Ext_Tp
     |      | » kg.Vmspd
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1307   1316 | Perf_Background_DPkg.Pscurcas
            | »       5.0
1308   1317 | Perf_Background_DPkg.Pscurmach
            | »       5.0
1309   1318 | Perf_Background_DPkg.Pscurtas
            | »       5.0
1310   1319 | Perf_Background_Dpkg.Pcitin.Itinerary                                      Fuel_Plan_Fp
            | » ln_Preds
1311   1320 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
            | »       True
1312   1321 | Perf_Background_Dpkg.Pstogwtval
            | »       False
1313   1322 | Perf_Background_Dpkg.Pstogwt
            | »       50.0
1314   1323 | Perf_Background_Dpkg.Pcgwind
            | »   Invalid
1315   1324 | Perf_Background_Dpkg.Psgw
            | »       0.0
1316   1325 | Perf_Dpkg.Gross_Weight.Status
            | »       Valid
1317   1326 | Perf_Dpkg.Gross_Weight.Data
            | »       150.0
1318   1327 | Perf_Integration_DPkg.Pcairbrakes
            | »       Fullab
1319   1328 | Perf_Background_Dpkg.Pcacconfig
            | »       5
1320   1329 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            | »       False
1321   1330 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
            | »   9000.0
1322   1331 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
            | »   200.0
1323   1332 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            | »       False
1324   1333 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            | »       265.0
1325   1334 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            | »       0.55
1326   1335 | Perf_Background_Dpkg.Psstpclbact
            | »       True
1327   1336 | Perf_Background_Dpkg.Psstpdesact
            | »       True
1328   1337 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            | »       0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1329	1338	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
		» 0.0
1330	1339	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
		» 0.65
1331	1340	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
		» 345.0
1332	1341	Perf_Background_Dpkg.Pccuraltcstr.Valid
		» True
1333	1342	Perf_Background_Dpkg.Pcprebcalt.Valid
		» True
1334	1343	Perf_Background_Dpkg.Pcgmttime.Hour
		» 1
1335	1344	Perf_Background_Dpkg.Pcgmttime.Minute
		» 1
1336	1345	Perf_Background_Dpkg.Pcgmttime.Second
		» 1
1337	1346	Perf_Background_Dpkg.Psinertvs
		» 5.0
1338	1347	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
		» 0
1339	1348	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
		» 2
1340	1349	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
		» 0
1341	1350	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
		» 2
1342	1351	Perf_Ads_Dpkg.Pr_Enabled
		» False
1343	1352	ATC_DISCRETES_PKG:body.Adson_Flag
		» False
1344	1353	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
		» true
1345	1354	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
		» true
1346	1355	^Noise_End_Alt_Status Takeoff_Alt_Type
		» s.Active
1347	1356	^Noise_Speed_Val
		» True
1348	1357	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
		» true
1349	1358	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active
		» false
1350	1359	Perf_Background_Dpkg.Altholdmode
		» true

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1351  1360 Perf_Dpkg.takeoff_gwt.valid
            »       True
1352  1361 Perf_Dpkg.takeoff_gwt.data
            »       400.0
1353  1362
1354  1363
1355  1364 OUTPUT                                             EXPECTED              TOLERANCE            ACTUAL
            »           P/F
1356  1365 ------------------------------------------------- ---------------------------- ------------- ------------------
            » --------  ----
1357  1366 Perf_Background_Dpkg.Pcpathref                                 Nopath          (N/A)
            »   NOPATH  P
1358  1367
1359  1368
1360  1369 INPUT                                                                                               VALUE
1361  1370 ------------------------------------------------- ---------------------------- ----------------
            » --------
1362  1371 Perf_Background_Dpkg.Pcspeedmode                                                            Perf_Ext_Tp
            » kg.Vmspd
1363  1372 Machmode
            »       False
1364  1373 Perf_Background_Dpkg.Pcmanspd.Machvalid
            »       True
1365  1374
1366  1375
1367  1376 OUTPUT                                             EXPECTED              TOLERANCE            ACTUAL
            »           P/F
1368  1377 ------------------------------------------------- ---------------------------- ------------- ------------------
            » --------  ----
1369  1378 CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec               False           (N/A)
            »     FALSE  P
1370  1379 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                False           (N/A)
            »     FALSE  P
1371  1380 Perf_Background_Dpkg.Noise_Data.Speed.Valid                   False           (N/A)
            »     FALSE  P
1372  1381 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec              True            (N/A)
            »      TRUE  P
1373  1382 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec              True            (N/A)
            »      TRUE  P
1374  1383 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec              True            (N/A)
            »      TRUE  P
1375  1384 Perf_Background_Dpkg.Pstogwtval                               True            (N/A)
            »      TRUE  P
1376  1385 Perf_Background_Dpkg.Pstogwt                                  325.0           0.001                    3.2
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »  5000E+02  P
 1377    1386 Perf_Background_Dpkg.Pcgwind                                      Valid          (N/A)
              »    VALID  P
 1378    1387 Perf_Background_Dpkg.Psgw                                         325.0          0.001                3.2
              »  5000E+02  P
 1379    1388 Perf_Dpkg.Pcengoutprds                                           NOPREDS         (N/A)
              »  NOPREDS  P
 1380    1389 Perf_Despath_Dpkg.Pcdespath.Vgavalid                             False          (N/A)
              »    FALSE  P
 1381    1390 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                    False          (N/A)
              »    FALSE  P
 1382    1391 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                         True           (N/A)
              »     TRUE  P
 1383    1392 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                           True           (N/A)
              »     TRUE  P
 1384    1393 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                         True           (N/A)
              »     TRUE  P
 1385    1394 Perf_Background_Dpkg.Pcmanspd.Machvalid                          False          (N/A)
              »    FALSE  P
 1386    1395 Perf_Background_Dpkg.Altholdmode                                 False          (N/A)
              »    FALSE  P
 1387    1396
 1388    1397
 1389    1398 ====> All 19 Comparisons Passed <====
 1390    1399
 1391    1400
 1392    1401 TESTID: 4
 1393    1402
 1394    1403    Verify that if an engine-out condition exists and current flightphase is Preflight then the engine-out predictions
              »  flag
 1395    1404    is set to NOPREDS.  Verify that when pcitin is Secondary that descent path is invalidated.
 1396    1405    PERF_SDD_0417_INT, PERF_SDD_0418_INT, PERF_SDD_3105 (PERF_SRD_1919),
 1397    1406    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
 1398    1407            PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
 1399    1408            PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
 1400    1409    PERF_SDD_0410(PERF_SRD_1554_A3XX, PERF_SRD_1584_A3XX),
 1401    1410
 1402    1411    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
 1403    1412    working flight plan.
 1404    1413    PERF_SDD_4328 (PERF_SRD_10166_INT)
 1405    1414
 1406    1415    And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+
              »  10 speed.
 1407    1416    If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » target speed
  1408    1417        shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t
                    » ype.
  1409    1418        Here set VG CAS is less than V2+10 and flight phase is Preflight, previous CAS/Mach speed indicator is CAS.
  1410    1419        PERF_SDD_3053_INT
  1411    1420
  1412    1421
  1413    1422  INPUT                                                                                                         VALUE
  1414    1423  ------------------------------------------------------------------------------------------------  ------------------
                    » --------
  1415    1424  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
                    »     False
  1416    1425  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
                    »     False
  1417    1426  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
                    »     False
  1418    1427  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
                    »     False
  1419    1428  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
                    »     False
  1420    1429  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
                    »     True
  1421    1430  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
                    »     True
  1422    1431  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
                    »     True
  1423    1432  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
                    »     True
  1424    1433  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
                    »     True
  1425    1434  Perf_Dpkg.Min_Gwt
                    »     100.0
  1426    1435  Perf_Dpkg.Max_Gwt
                    »     400.0
  1427    1436  Perf_Background_Dpkg.Flight_Plan_Type                                                              I
                    » s_Active
  1428    1437  Perf_Background_Dpkg.Psignorehm
                    »     True
  1429    1438  Perf_Background_Dpkg.Pcfltphase                                                                    P
                    » reflight
  1430    1439  Perf_Background_Dpkg.Ats_Enable
                    »     True
  1431    1440  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase                                                  P
                    » reflight
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1432   1441 Perf_Background_Dpkg.Psacalt
            »   10000.0
1433   1442 Perf_Database_Dpkg.Psmmo
            »      0.45
1434   1443 Perf_Background_Dpkg.Pszfw
            »    300.0
1435   1444 Perf_Background_Dpkg.Psblockfuel
            »     50.0
1436   1445 Perf_Background_Dpkg.Pstaxifuel
            »     25.0
1437   1446 Perf_Background_Dpkg.Psairborne
            »      True
1438   1447 Perf_Background_Dpkg.Psautolat
            »      False
1439   1448 Guid_Ext_Dpkg.Gcxxlatautoc
            »      False
1440   1449 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
            »      False
1441   1450 Perf_Background_Dpkg.Psengout
            »      False
1442   1451 Cdk_Vert_Dpkg:Body.Engine_Out_I
            »      True
1443   1452 Perf_Background_Dpkg.Pcholdflags.Hmdecel
            »      True
1444   1453 Perf_Dpkg.Repredict_Hm_Decel
            »      True
1445   1454 Perf_Background_DPkg.Pshmdecel
            »      True
1446   1455 Perf_Background_Dpkg.Pcholdflags.Hmactive
            »      True
1447   1456 Perf_Ads_Dpkg.Fi_Enabled
            »      False
1448   1457 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
            »      False
1449   1458 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            »      True
1450   1459 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            »      True
1451   1460 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            »      True
1452   1461 Perf_Background_Dpkg.Pcholdflags.Hmdistval
            »      True
1453   1462 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1454   1463  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
             »         True
1455   1464  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
             »         True
1456   1465  Perf_Background_Dpkg.Psappspdlat
             »         True
1457   1466  Perf_Dpkg.Pcengoutprds
             »     Altpln
1458   1467  Guid_Ext_Dpkg.Va3lcautoctl
             »         True
1459   1468  Perf_Background_Dpkg.Psvgonpath
             »       False
1460   1469  Perf_Background_Dpkg.Pcpathref
             »     Onpath
1461   1470  Guid_Ext_Dpkg.Va3Vertmde                                                                      Perf_Ext_Tp
             » kg.Vmspd
1462   1471  Perf_Background_DPkg.Pscurcas
             »         5.0
1463   1472  Perf_Background_DPkg.Pscurmach
             »         5.0
1464   1473  Perf_Background_DPkg.Pscurtas
             »         5.0
1465   1474  Perf_Despath_Dpkg.Pcdespath.Vgavalid
             »         True
1466   1475  Perf_Background_Dpkg.Pstogwtval
             »       False
1467   1476  Perf_Background_Dpkg.Pstogwt
             »        50.0
1468   1477  Perf_Background_Dpkg.Pcgwind
             »   Invalid
1469   1478  Perf_Background_Dpkg.Psgw
             »         0.0
1470   1479  Perf_Dpkg.Gross_Weight.Status
             »       Valid
1471   1480  Perf_Dpkg.Gross_Weight.Data
             »       150.0
1472   1481  Perf_Integration_DPkg.Pcairbrakes
             »       Fullab
1473   1482  Perf_Background_Dpkg.Pcacconfig
             »           5
1474   1483  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             »       False
1475   1484  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             »      9000.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1476   1485 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
            »       200.0
1477   1486 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            »       False
1478   1487 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            »       265.0
1479   1488 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            »       0.55
1480   1489 Perf_Background_Dpkg.Psstpclbact
            »       True
1481   1490 Perf_Background_Dpkg.Psstpdesact
            »       True
1482   1491 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »       0.0
1483   1492 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            »       0.0
1484   1493 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
            »       0.65
1485   1494 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            »       345.0
1486   1495 Perf_Background_Dpkg.Pccuraltcstr.Valid
            »       True
1487   1496 Perf_Background_Dpkg.Pcprebcalt.Valid
            »       True
1488   1497 Perf_Background_Dpkg.Pcgmttime.Hour
            »       1
1489   1498 Perf_Background_Dpkg.Pcgmttime.Minute
            »       1
1490   1499 Perf_Background_Dpkg.Pcgmttime.Second
            »       1
1491   1500 Perf_Background_Dpkg.Psinertvs
            »       5.0
1492   1501 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            »       0
1493   1502 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            »       2
1494   1503 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            »       0
1495   1504 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            »       2
1496   1505 Perf_Ads_Dpkg.Pr_Enabled
            »       False
1497   1506 ATC_DISCRETES_PKG:body.Adson_Flag
            »       False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1498 | 1507 | Perf_Integration_Dpkg.Psoldnoentgt
      |      | »       1.0
1499 | 1508 | Perf_Background_Dpkg.Pcoldcasmchi                                                                         Fmcs_Base_Ty
      |      | » pes.Mach
1500 | 1509 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
      |      | »       true
1501 | 1510 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
      |      | »       true
1502 | 1511 | ^Noise_End_Alt_Status                                                                                     Takeoff_Alt_Type
      |      | » s.Active
1503 | 1512 | ^Noise_Speed_Val
      |      | »       True
1504 | 1513 | Perf_Background_Dpkg.Pcitin.Itinerary                                                                     Fuel_Plan_Fp
      |      | » ln_Preds
1505 | 1514 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
      |      | »      False
1506 | 1515 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
      |      | »      False
1507 | 1516 | Perf_Background_Dpkg.Psv2plus10
      |      | »       1.0
1508 | 1517 | Perf_Dpkg.takeoff_gwt.valid
      |      | »       True
1509 | 1518 | Perf_Dpkg.takeoff_gwt.data
      |      | »      400.0
1510 | 1519 |
1511 | 1520 |
1512 | 1521 | OUTPUT                                                EXPECTED              TOLERANCE              ACTUAL
      |      | »            P/F
1513 | 1522 | ------------------------------------------------- ------------------------------ ------------- ------------------
      |      | » --------  ----
1514 | 1523 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid                        False        (N/A)
      |      | »      FALSE   P
1515 | 1524 | Perf_Background_Dpkg.Noise_Data.Speed.Valid                           False        (N/A)
      |      | »      FALSE   P
1516 | 1525 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec                      True         (N/A)
      |      | »      TRUE   P
1517 | 1526 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec                      True         (N/A)
      |      | »      TRUE   P
1518 | 1527 | CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec                      True         (N/A)
      |      | »      TRUE   P
1519 | 1528 | Perf_Integration_Dpkg.Psoldnoentgt                                    1.0          0.001                  1.0
      |      | » 0000E+00   P
1520 | 1529 | Perf_Background_Dpkg.Pcoldcasmchi                                     Cas          (N/A)
      |      | »        CAS   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1521	1530	Perf_Background_Dpkg.Pstogwtval	True	(N/A)	
		» TRUE P			
1522	1531	Perf_Background_Dpkg.Pstogwt	325.0	0.001	3.2
		» 5000E+02 P			
1523	1532	Perf_Background_Dpkg.Pcgwind	Valid	(N/A)	
		» VALID P			
1524	1533	Perf_Background_Dpkg.Psgw	325.0	0.001	3.2
		» 5000E+02 P			
1525	1534	Perf_Dpkg.Pcengoutprds	NOPREDS	(N/A)	
		» NOPREDS P			
1526	1535	Perf_Despath_Dpkg.Pcdespath.Vgavalid	False	(N/A)	
		» FALSE P			
1527	1536	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
1528	1537	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	
		» TRUE P			
1529	1538	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	
		» TRUE P			
1530	1539	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	
		» TRUE P			
1531	1540				
1532	1541				
1533	1542	INPUT			VALUE
1534	1543	--- ------------------			
		» --------			
1535	1544	Perf_Background_Dpkg.Psvgonpath			
		» True			
1536	1545				
1537	1546				
1538	1547	====> All 17 Comparisons Passed <====			
1539	1548				
1540	1549				
1541	1550	TESTID: 5			
1542	1551				
1543	1552	Verify that if an engine-out condition exists and current flightphase is cruise then the engine-out predictions fl			
		» ag			
1544	1553	is set to PRDSTODEST. Verify that when pcitin is Fuel_Plan_Stage1 that descent path is invalidated.			
1545	1554	The Current Itinary is not secondary and so descent path is not retrieved from descent path object manager.(PERF_S			
		» DD_3682_INT).			
1546	1555	PERF_SDD_0412_INT, PERF_SDD_0417_INT, PERF_SDD_3682_INT			
1547	1556	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,			
1548	1557	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,			
1549	1558	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)			
1550	1559				

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1551   1560     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
1552   1561     working flight plan.
1553   1562     PERF_SDD_4328 (PERF_SRD_10166_INT)
1554   1563
1555   1564     Cdk_Vert_Dpkg.Engine_Out indicates that there is an Engine Out.
1556   1565
1557   1566     If not ( Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is curren
             » tly in Noise
1558   1567     Ramp segment and no engine out condition exist) then, the validity of Perf_Background_Dpkg.Noise_Data.Altitude &
1559   1568     Perf_Background_Dpkg.Noise_Data.Tspd shall be set to invalid and Perf_Background_Dpkg.Noise_Data.Thrust is set to
             » no derate
1560   1569     (Cdk_Entry_Tpkg.Drtnone).
1561   1570     PERF_SDD_4339 (PERF_SRD_12371_INT)
1562   1571
1563   1572     The anti ice data shall be copied from the IO_Engine_Data_Dpkg for the working flight plan when it valid.
1564   1573     PERF_SDD_07169_INT
1565   1574
1566   1575     A/C is in Cruise and current itin is Fuel_Plan_Stage1 so target speed is not
1567   1576     limited by calling the speed envelope module.
1568   1577     PERF_SDD_3055_INT
1569   1578
1570   1579     And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+
             » 10 speed.
1571   1580     If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited
             »  target speed
1572   1581     shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t
             » ype.
1573   1582     Here set VG CAS is less than V2+10 and flight phase is Cruise, previous CAS/Mach speed indicator is CAS.
1574   1583     PERF_SDD_3053_INT
1575   1584
1576   1585
1577   1586 INPUT                                                                                                          VALUE
1578   1587 -------------------------------------------------------------------------------------------------- ------------------
             » --------
1579   1588 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
             »     False
1580   1589 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
             »     False
1581   1590 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
             »     False
1582   1591 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
             »     False
1583   1592 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
             »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1584 | 1593 | CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
            »       True
1585 | 1594 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
            »       True
1586 | 1595 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
            »       True
1587 | 1596 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
            »       True
1588 | 1597 | CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
            »       True
1589 | 1598 | Perf_Dpkg.Min_Gwt
            »      100.0
1590 | 1599 | Perf_Dpkg.Max_Gwt
            »      400.0
1591 | 1600 | Perf_Background_Dpkg.Flight_Plan_Type                                            I
            » s_Active
1592 | 1601 | Perf_Background_Dpkg.Psignorehm
            »       True
1593 | 1602 | Perf_Background_Dpkg.Pcfltphase
            »    Cruise
1594 | 1603 | Perf_Background_Dpkg.Ats_Enable
            »       True
1595 | 1604 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »    Cruise
1596 | 1605 | Perf_Background_Dpkg.Psacalt
            »    10000.0
1597 | 1606 | Perf_Database_Dpkg.Psmmo
            »       0.45
1598 | 1607 | Perf_Background_Dpkg.Pszfw
            »      300.0
1599 | 1608 | Perf_Background_Dpkg.Psblockfuel
            »       50.0
1600 | 1609 | Perf_Background_Dpkg.Pstaxifuel
            »       25.0
1601 | 1610 | Perf_Background_Dpkg.Psairborne
            »       True
1602 | 1611 | Perf_Background_Dpkg.Psautolat
            »      False
1603 | 1612 | Guid_Ext_Dpkg.Gcxxlatautoc
            »      False
1604 | 1613 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
            »      False
1605 | 1614 | Perf_Background_Dpkg.Psengout
            »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1606 │ 1615 │ Cdk_Vert_Dpkg:Body.Engine_Out_I
     │      │ »         True
1607 │ 1616 │ Perf_Background_Dpkg.Pcholdflags.Hmdecel
     │      │ »         True
1608 │ 1617 │ Perf_Dpkg.Repredict_Hm_Decel
     │      │ »         True
1609 │ 1618 │ Perf_Background_DPkg.Pshmdecel
     │      │ »         True
1610 │ 1619 │ Perf_Background_Dpkg.Pcholdflags.Hmactive
     │      │ »         True
1611 │ 1620 │ Perf_Ads_Dpkg.Fi_Enabled
     │      │ »         False
1612 │ 1621 │ Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
     │      │ »         False
1613 │ 1622 │ Perf_Background_Dpkg.Pcholdflags.Manhmwarn
     │      │ »         True
1614 │ 1623 │ Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
     │      │ »         True
1615 │ 1624 │ Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
     │      │ »         True
1616 │ 1625 │ Perf_Background_Dpkg.Pcholdflags.Hmdistval
     │      │ »         True
1617 │ 1626 │ Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
     │      │ »         True
1618 │ 1627 │ Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
     │      │ »         True
1619 │ 1628 │ Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
     │      │ »         True
1620 │ 1629 │ Perf_Background_Dpkg.Psappspdlat
     │      │ »         True
1621 │ 1630 │ Perf_Dpkg.Pcengoutprds
     │      │ »         Altpln
1622 │ 1631 │ Perf_Background_Dpkg.Pcpathref
     │      │ »         Onpath
1623 │ 1632 │ Guid_Ext_Dpkg.Va3Vertmde                                                        Perf_Ext_Tp
     │      │ » kg.Vmspd
1624 │ 1633 │ Perf_Background_DPkg.Pscurcas
     │      │ »         5.0
1625 │ 1634 │ Perf_Background_DPkg.Pscurmach
     │      │ »         5.0
1626 │ 1635 │ Perf_Background_DPkg.Pscurtas
     │      │ »         5.0
1627 │ 1636 │ Perf_Background_Dpkg.Pcitin.Itinerary                                           Fuel_Pla
     │      │ » n_Stage1
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1628    1637 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
             | »      False
1629    1638 | Perf_Background_Dpkg.Pstogwtval
             | »      False
1630    1639 | Perf_Background_Dpkg.Pstogwt
             | »      50.0
1631    1640 | Perf_Background_Dpkg.Pcgwind
             | »   Invalid
1632    1641 | Perf_Background_Dpkg.Psgw
             | »      0.0
1633    1642 | Perf_Dpkg.Gross_Weight.Status
             | »      Valid
1634    1643 | Perf_Dpkg.Gross_Weight.Data
             | »      150.0
1635    1644 | Perf_Integration_DPkg.Pcairbrakes
             | »      Fullab
1636    1645 | Perf_Background_Dpkg.Pcacconfig
             | »         5
1637    1646 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             | »      False
1638    1647 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             | »      9000.0
1639    1648 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             | »      200.0
1640    1649 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             | »      400.0
1641    1650 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             | »      False
1642    1651 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             | »      265.0
1643    1652 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             | »      0.55
1644    1653 | Perf_Background_Dpkg.Psstpclbact
             | »      True
1645    1654 | Perf_Background_Dpkg.Psstpdesact
             | »      True
1646    1655 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             | »      0.0
1647    1656 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             | »      0.0
1648    1657 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
             | »      0.65
1649    1658 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             | »      345.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 1650   1659 | Perf_Background_Dpkg.Pccuraltcstr.Valid
             | »       True
 1651   1660 | Perf_Background_Dpkg.Pcprebcalt.Valid
             | »       True
 1652   1661 | Perf_Background_Dpkg.Pcgmttime.Hour
             | »       1
 1653   1662 | Perf_Background_Dpkg.Pcgmttime.Minute
             | »       1
 1654   1663 | Perf_Background_Dpkg.Pcgmttime.Second
             | »       1
 1655   1664 | Perf_Background_Dpkg.Psinertvs
             | »       5.0
 1656   1665 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
             | »       0
 1657   1666 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
             | »       2
 1658   1667 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
             | »       0
 1659   1668 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
             | »       2
 1660   1669 | Perf_Ads_Dpkg.Pr_Enabled
             | »       False
 1661   1670 | ATC_DISCRETES_PKG:body.Adson_Flag
             | »       False
 1662   1671 | Perf_Integration_Dpkg.Psoldnoentgt
             | »       1.0
 1663   1672 | Perf_Background_Dpkg.Pcoldcasmchi                                              Fmcs_Base_Ty
             | » pes.Mach
 1664   1673 | Perf_Background_Dpkg.Pcspeedmode                                               Perf_Ext_Tpk
             | » g.Vmecon
 1665   1674 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
             | »       true
 1666   1675 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
             | »       true
 1667   1676 | ^Noise_End_Alt_Status                                                          Takeoff_Alt_Type
             | » s.Active
 1668   1677 | ^Noise_Speed_Val
             | »       False
 1669   1678 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid
             | »       True
 1670   1679 | Perf_Background_Dpkg.Noise_Data.Speed.Valid
             | »       True
 1671   1680 | Perf_Background_Dpkg.Noise_Data.Thrust                                         Cdk_Entry_T
             | » pkg.Drt1
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1672 | 1681 | Perf_Background_Dpkg.Noise_Data.Tspd.Valid
            | »        True
1673 | 1682 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
            | »        False
1674 | 1683 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
            | »        False
1675 | 1684 | Perf_Background_Dpkg.Ac_Anti_Ice
            | »        False
1676 | 1685 | Perf_Integration_Dpkg.Psoldnoentgt
            | »        1.0
1677 | 1686 | Perf_Dpkg.takeoff_gwt.valid
            | »        True
1678 | 1687 | Perf_Dpkg.takeoff_gwt.data
            | »        400.0
1679 | 1688 | Perf_Background_Dpkg.Psgetout
            | »        True
1680 | 1689 | Perf_Background_Dpkg.Ref_Flight_Plan
            | »        1
1681 | 1690 | Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid
            | »        True
1682 | 1691 |
1683 | 1692 |
```

		OUTPUT	EXPECTED	TOLERANCE	ACTUAL
1684	1693	» P/F			
1685	1694	-- » -------- ----	------------------------------	-------------	------------------
1686	1695	Perf_Background_Dpkg.Noise_Data.Altitude.Valid » FALSE P	False	(N/A)	
1687	1696	Perf_Background_Dpkg.Noise_Data.Speed.Valid » FALSE P	False	(N/A)	
1688	1697	Perf_Background_Dpkg.Noise_Data.Thrust » DRTNONE P	Drtnone	(N/A)	
1689	1698	Perf_Background_Dpkg.Noise_Data.Tspd.Valid » FALSE P	False	(N/A)	
1690	1699	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec » TRUE P	True	(N/A)	
1691	1700	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec » TRUE P	True	(N/A)	
1692	1701	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec » TRUE P	True	(N/A)	
1693	1702	Perf_Integration_Dpkg.Psoldnoentgt » 0000E+00 P	0.0	0.001	0.0
1694	1703	Perf_Background_Dpkg.Pcoldcasmchi » CAS P	Cas	(N/A)	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1695	1704	Perf_Dpkg.Pcengoutprds	PRDSTODEST	(N/A)	PR
		» DSTODEST P			
1696	1705	Perf_Despath_Dpkg.Pcdespath.Vgavalid	False	(N/A)	
		» FALSE P			
1697	1706	Perf_Background_Dpkg.Psautolat	False	(N/A)	
		» FALSE P			
1698	1707	Perf_Background_Dpkg.Psengout	True	(N/A)	
		» TRUE P			
1699	1708	Perf_Background_Dpkg.Pcfltphase	Cruise	(N/A)	
		» CRUISE P			
1700	1709	Perf_Background_Dpkg.Pcspeedmode	Perf_Ext_Tpkg.Vmspd	(N/A)	
		» VMSPD P			
1701	1710	Perf_Background_DPkg.Pscurcas	5.0	0.001	5.0
		» 0000E+00 P			
1702	1711	Perf_Background_DPkg.Pscurmach	5.0	0.001	5.0
		» 0000E+00 P			
1703	1712	Perf_Background_DPkg.Pscurtas	5.0	0.001	5.0
		» 0000E+00 P			
1704	1713	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
1705	1714	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	
		» TRUE P			
1706	1715	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	
		» TRUE P			
1707	1716	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	
		» TRUE P			
1708	1717	Perf_Background_Dpkg.Ac_Anti_Ice	True	(N/A)	
		» TRUE P			
1709	1718				
1710	1719				
1711	1720	====> All 23 Comparisons Passed <====			
1712	1721				
1713	1722				
1714	1723	TESTID: 6			
1715	1724				
1716	1725	Verify that when current itinerary is Fuel_Plan_Stage1 and Psgetout set to False,then			
1717	1726	Invalidate the descent path to ensure that it is rebuilt. (PERF_SDD_3681_INT).			
1718	1727	PERF_SDD_3053_INT, PERF_SDD_3681_INT			
1719	1728	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,			
1720	1729	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,			
1721	1730	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)			
1722	1731				
1723	1732	Cdk_Vert_Dpkg.Engine_Out indicates that there is an Engine Out.			
1724	1733				

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1725  1734      If not ( Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is curren
              » tly in Noise
1726  1735      Ramp segment and no engine out condition exist) then, the validity of Perf_Background_Dpkg.Noise_Data.Altitude &
1727  1736      Perf_Background_Dpkg.Noise_Data.Tspd shall be set to invalid and Perf_Background_Dpkg.Noise_Data.Thrust is set to
              » no derate
1728  1737      (Cdk_Entry_Tpkg.Drtnone).
1729  1738      PERF_SDD_4339 (PERF_SRD_12371_INT)
1730  1739
1731  1740      The anti ice validity flag is set to false when it invalid.
1732  1741      PERF_SDD_07169_INT
1733  1742
1734  1743      The Current Itinary is FUEL PLANNING STAGE 1 and descent path is retrieved from descent path object manager.
1735  1744      PERF_SDD_3682_INT
1736  1745
1737  1746      The bleeds data: the engine cowl, wing and air conditioning bleeds validity flags are set to false when it invalid
1738  1747      PERF_SDD_4328 (PERF_SRD_10166_INT)
1739  1748
1740  1749
1741  1750  INPUT                                                                                                        VALUE
1742  1751  ------------------------------------------------------------------------------------------  ------------------
              » --------
1743  1752  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
              »     False
1744  1753  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
              »     False
1745  1754  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
              »     False
1746  1755  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
              »     False
1747  1756  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
              »     False
1748  1757  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »     false
1749  1758  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »     false
1750  1759  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »     false
1751  1760  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »     false
1752  1761  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »     false
1753  1762  Perf_Dpkg.Min_Gwt
              »     100.0
1754  1763  Perf_Dpkg.Max_Gwt
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 400.0	
1755	1764	Perf_Background_Dpkg.Flight_Plan_Type	I
		» s_Active	
1756	1765	Perf_Background_Dpkg.Psignorehm	
		» True	
1757	1766	Perf_Background_Dpkg.Pcfltphase	
		» Cruise	
1758	1767	Perf_Background_Dpkg.Ats_Enable	
		» True	
1759	1768	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	
		» Cruise	
1760	1769	Perf_Background_Dpkg.Psacalt	
		» 10000.0	
1761	1770	Perf_Database_Dpkg.Psmmo	
		» 0.45	
1762	1771	Perf_Background_Dpkg.Pszfw	
		» 300.0	
1763	1772	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
1764	1773	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
1765	1774	Perf_Background_Dpkg.Psairborne	
		» True	
1766	1775	Perf_Background_Dpkg.Psautolat	
		» False	
1767	1776	Guid_Ext_Dpkg.Gcxxlatautoc	
		» False	
1768	1777	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» True	
1769	1778	Perf_Background_Dpkg.Psengout	
		» False	
1770	1779	Cdk_Vert_Dpkg:Body.Engine_Out_I	
		» True	
1771	1780	Perf_Background_Dpkg.Pcholdflags.Hmdecel	
		» True	
1772	1781	Perf_Dpkg.Repredict_Hm_Decel	
		» True	
1773	1782	Perf_Background_DPkg.Pshmdecel	
		» True	
1774	1783	Perf_Background_Dpkg.Pcholdflags.Hmactive	
		» True	
1775	1784	Perf_Ads_Dpkg.Fi_Enabled	
		» False	
1776	1785	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                     »      False
  1777    1786 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
                     »       True
  1778    1787 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
                     »       True
  1779    1788 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
                     »       True
  1780    1789 Perf_Background_Dpkg.Pcholdflags.Hmdistval
                     »       True
  1781    1790 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
                     »       True
  1782    1791 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
                     »       True
  1783    1792 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
                     »       True
  1784    1793 Perf_Background_Dpkg.Psappspdlat
                     »       True
  1785    1794 Perf_Dpkg.Pcengoutprds
                     »      Altpln
  1786    1795 Perf_Background_Dpkg.Pcpathref
                     »      Onpath
  1787    1796 Guid_Ext_Dpkg.Va3Vertmde                                                              Perf_Ext_Tp
                     » kg.Vmspd
  1788    1797 Perf_Background_DPkg.Pscurcas
                     »        5.0
  1789    1798 Perf_Background_DPkg.Pscurmach
                     »        5.0
  1790    1799 Perf_Background_DPkg.Pscurtas
                     »        5.0
  1791    1800 Perf_Despath_Dpkg.Pcdespath.Vgavalid
                     »       True
  1792    1801 Perf_Background_Dpkg.Pstogwtval
                     »      False
  1793    1802 Perf_Background_Dpkg.Pstogwt
                     »       50.0
  1794    1803 Perf_Background_Dpkg.Pcgwind
                     »     Invalid
  1795    1804 Perf_Background_Dpkg.Psgw
                     »        0.0
  1796    1805 Perf_Dpkg.Gross_Weight.Status
                     »      Valid
  1797    1806 Perf_Dpkg.Gross_Weight.Data
                     »      150.0
  1798    1807 Perf_Integration_DPkg.Pcairbrakes
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                        »      Fullab
   1799    1808 Perf_Background_Dpkg.Pcacconfig
                        »         5
   1800    1809 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                        »      False
   1801    1810 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                        »    9000.0
   1802    1811 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                        »     200.0
   1803    1812 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                        »     400.0
   1804    1813 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                        »      False
   1805    1814 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                        »     265.0
   1806    1815 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                        »      0.55
   1807    1816 Perf_Background_Dpkg.Psstpclbact
                        »      True
   1808    1817 Perf_Background_Dpkg.Psstpdesact
                        »      True
   1809    1818 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                        »       0.0
   1810    1819 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                        »       0.0
   1811    1820 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                        »      0.65
   1812    1821 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                        »     345.0
   1813    1822 Perf_Background_Dpkg.Pccuraltcstr.Valid
                        »      True
   1814    1823 Perf_Background_Dpkg.Pcprebcalt.Valid
                        »      True
   1815    1824 Perf_Background_Dpkg.Pcgmttime.Hour
                        »         1
   1816    1825 Perf_Background_Dpkg.Pcgmttime.Minute
                        »         1
   1817    1826 Perf_Background_Dpkg.Pcgmttime.Second
                        »         1
   1818    1827 Perf_Background_Dpkg.Psinertvs
                        »       5.0
   1819    1828 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                        »         0
   1820    1829 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »        2
  1821   1830  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                  »        0
  1822   1831  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                  »        2
  1823   1832  Perf_Ads_Dpkg.Pr_Enabled
                  »      False
  1824   1833  ATC_DISCRETES_PKG:body.Adson_Flag
                  »      False
  1825   1834  Perf_Integration_Dpkg.Psoldnoentgt
                  »      1.0
  1826   1835  Perf_Background_Dpkg.Pcoldcasmchi
                  »      Cas
  1827   1836  Perf_Background_Dpkg.Pcspeedmode                                        Perf_Ext_Tpk
                  » g.Vmecon
  1828   1837  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
                  »      False
  1829   1838  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
                  »      False
  1830   1839  ^Noise_End_Alt_Status                                                  Takeoff_Alt_Type
                  » s.Active
  1831   1840  ^Noise_Speed_Val
                  »      False
  1832   1841  Perf_Background_Dpkg.Pcitin.Itinerary                                  Fuel_Pla
                  » n_Stage1
  1833   1842  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                  »      False
  1834   1843  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                  »      False
  1835   1844  Perf_Background_Dpkg.Ac_Anti_Ice
                  »      True
  1836   1845  Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai
                  »      True
  1837   1846  Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai
                  »      True
  1838   1847  Perf_Background_Dpkg.Ac_Bleeds.Air_Cond
                  »      True
  1839   1848  Perf_Background_Dpkg.Noise_Data.Altitude.Valid
                  »      True
  1840   1849  Perf_Background_Dpkg.Noise_Data.Speed.Valid
                  »      True
  1841   1850  Perf_Background_Dpkg.Noise_Data.Thrust                                 Cdk_Entry_T
                  » pkg.Drt1
  1842   1851  Perf_Background_Dpkg.Noise_Data.Tspd.Valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »        True
 1843   1852 Perf_Dpkg.takeoff_gwt.valid
              »        True
 1844   1853 Perf_Dpkg.takeoff_gwt.data
              »        400.0
 1845   1854 Perf_Background_Dpkg.Psgetout
              »        False
 1846   1855
 1847   1856
 1848   1857 OUTPUT                                                       EXPECTED                TOLERANCE            ACTUAL
              »           P/F
 1849   1858 ----------------------------------------------------- -----------------------------  -------------  ------------------
              » --------  ----
 1850   1859 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                   False                  (N/A)
              »       FALSE   P
 1851   1860 Perf_Background_Dpkg.Noise_Data.Speed.Valid                      False                  (N/A)
              »       FALSE   P
 1852   1861 Perf_Background_Dpkg.Noise_Data.Thrust                          Drtnone                 (N/A)
              »    DRTNONE   P
 1853   1862 Perf_Background_Dpkg.Noise_Data.Tspd.Valid                       False                  (N/A)
              »       FALSE   P
 1854   1863 Perf_Integration_Dpkg.Psoldnoentgt                               0.0                   0.001                0.0
              » 0000E+00   P
 1855   1864 Perf_Background_Dpkg.Pcoldcasmchi                        Fmcs_Base_Types.Mach           (N/A)
              »       MACH   P
 1856   1865 Perf_Despath_Dpkg.Pcdespath.Vgavalid                             False                  (N/A)
              »       FALSE   P
 1857   1866 Perf_Background_Dpkg.Psautolat                                   False                  (N/A)
              »       FALSE   P
 1858   1867 Perf_Background_Dpkg.Psengout                                    True                   (N/A)
              »        TRUE   P
 1859   1868 Perf_Background_Dpkg.Pcfltphase                                  Cruise                 (N/A)
              »      CRUISE   P
 1860   1869 Perf_Background_Dpkg.Pcspeedmode                         Perf_Ext_Tpkg.Vmspd            (N/A)
              »       VMSPD   P
 1861   1870 Perf_Background_DPkg.Pscurcas                                    5.0                   0.001                5.0
              » 0000E+00   P
 1862   1871 Perf_Background_DPkg.Pscurmach                                   5.0                   0.001                5.0
              » 0000E+00   P
 1863   1872 Perf_Background_DPkg.Pscurtas                                    5.0                   0.001                5.0
              » 0000E+00   P
 1864   1873 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                   False                  (N/A)
              »       FALSE   P
 1865   1874 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                        False                  (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
          |      |  »        FALSE   P
   1866   1875 | Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                     False         (N/A)
          |      |  »        FALSE   P
   1867   1876 | Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                    False         (N/A)
          |      |  »        FALSE   P
   1868   1877 | Perf_Background_Dpkg.Ac_Anti_Ice                                           False         (N/A)
          |      |  »        FALSE   P
   1869   1878 |
   1870   1879 |
   1871   1880 | ====> All 19 Comparisons Passed <====
   1872   1881 |
   1873   1882 |
   1874   1883 | TESTID: 7
   1875   1884 |
   1876   1885 |     Verify that when itin is Secprim that descent path is not invalidated.
   1877   1886 |     The Current Itinary is secondary and descent path is retrieved from descent path object manager.(PERF_SDD_3682_INT
          |      |  » ).
   1878   1887 |
   1879   1888 |     For an independent from-to pair Secondaryn flight plan, the starting predictions data shall be set up
   1880   1889 |     as if the aircraft were sitting on the ground in pre-flight at the origin airport of the Secondaryn flight plan,
   1881   1890 |     rather than from the current aircraft state.  Thus, following data are set:
   1882   1891 |     - The airborne flag (Psairborne) is set false.
   1883   1892 |     - Auto lateral mode (Psautolat) is set to true.
   1884   1893 |     - Engine out flag (Psengout) is set to false.
   1885   1894 |     - The current flightphase (Pcfltphase) is set to pre-flight.
   1886   1895 |     - Speed mode (Pcspeedmode) is set to Vmecon.
   1887   1896 |     - Despath reference (Pcpathref) is set to Nopath.
   1888   1897 |     - Current GMT time (Pcgmttime) (Hours, Minutes & Seconds) is set to zero.
   1889   1898 |     - Inertial vertical speed (Psinertvs) is set to zero.
   1890   1899 |     - Current aircraft speeds (Pscurtas, Pscurmach & Pscurcas) are set to zero.
   1891   1900 |     - Validity of Aircraft True air speed (Pscurtasvalid) set to False
   1892   1901 |     - Aircraft configuration (Pcacconfig) is set to clean.
   1893   1902 |     - Airbrakes (Pcairbrakes) are set to zero airbrakes.
   1894   1903 |     - Constraint management (Pccuraltcstr) validity is set to false.
   1895   1904 |     - Previous captured barometric altitude (Pcprebcalt) validity is set to false.
   1896   1905 |     - All the flags in the perf hold flag record (Pcholdflags) are set to false.
   1897   1906 |     - All the flags in the descent limit latch record (Pcdeslimlat) are set to false.
   1898   1907 |     - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false.
   1899   1908 |     - Flag indicating aircraft is within 3 NM prior to the entry of the HM(Psconsider_Hm) is      set to false.
   1900   1909 |     - Flag indicating aircraft is in HA/HF decel zone (Pshxpxdecel) is set to false.
   1901   1910 |     - Flag indicating aircraft is in HM decel zone (Pshmdecel) is set to false.
   1902   1911 |     - Flag indicating to Ignore HM (Psignorehm) is set to true.
   1903   1912 |     - Background step climb & step descent active flags (Psstpclbact & Psstpdesact) are set     to false.
   1904   1913 |     - Engines off status (Psenginesoff) is set to true (off).
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

1905	1914	- Aircraft engine or wing anti ice (Ac_Anti_Ice) is set to false (Off).
1906	1915	- Aircraft bleeds status (Ac_Bleeds); Engine Cowl Anti-Ice bleed, Wing Anti-Ice Bleed and
1907	1916	Air Conditioning Bleed are set to false (off).
1908	1917	- Cruise altitude (Pscrzalt) data is set by calling procedure
1909	1918	Fpln_Ext_Dpkg.Get_Cruise_Alt.
1910	1919	- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
1911	1920	Data and Valid values respectively.
1912	1921	- Valid cruise altitude flag (Valcrzalt) is set from the retrieved cruise altitude data.
1913	1922	- ADC/FG input data (Adc_Fg_Valid) validity is set to true.
1914	1923	- Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to true.
1915	1924	- The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi » ctions.
1916	1925	- The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma » ximum_Alt.
1917	1926	- The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_ » Maximum_Alt.
1918	1927	
1919	1928	These initializations make predictions independent of the Active Primary flightplan and current aircraft character » istics
1920	1929	
1921	1930	in this case,
1922	1931	flight plan is Secondary
1923	1932	the current itinerary is primary flight plan predictions
1924	1933	PERF_SDD_4796(PERF_SRD_1592, PERF_SRD_23775, PERF_SRD_6005_INT)
1925	1934	
1926	1935	If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in » Noise Ramp
1927	1936	segment and no engine out condition exist then the following noise data shall be set up for background's usage:
1928	1937	PERF_SDD_5607_INT
1929	1938	
1930	1939	The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_A » lt obtained
1931	1940	from FPLN.
1932	1941	PERF_SDD_5608_INT
1933	1942	
1934	1943	Here, Cdk_Vert_Dpkg.Engine_Out indicates that there is no Engine Out.
1935	1944	
1936	1945	If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed sha » ll be set to
1937	1946	valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
1938	1947	As in this TC, Noise_Speed_Val is False, the validity of Perf_Background_Dpkg.Noise_Data.Speed is set to False.
1939	1948	PERF_SDD_5610_INT
1940	1949	
1941	1950	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
1942  1951 INPUT                                                                                    VALUE
1943  1952 ------------------------------------------------------------------------------- ------------------
           » --------
1944  1953 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
           »     False
1945  1954 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
           »     False
1946  1955 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
           »     False
1947  1956 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
           »     False
1948  1957 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
           »     False
1949  1958 Perf_Dpkg.Min_Gwt
           »     100.0
1950  1959 Perf_Dpkg.Max_Gwt
           »     400.0
1951  1960 Prf_Bkgnd_Pkg:BODY.Valcrzalt
           »     False
1952  1961 Perf_Background_Dpkg.Pcactorsec                                                             S
           » econdary
1953  1962 Perf_Background_Dpkg.Flight_Plan_Type
           » No_Preds
1954  1963 Perf_Background_Dpkg.Pcitin.Flight_Plan                                                     S
           » econdary
1955  1964 Perf_Background_Dpkg.Psignorehm
           »     False
1956  1965 Perf_Background_Dpkg.Pcfltphase
           »    Cruise
1957  1966 Perf_Background_Dpkg.Ats_Enable
           »     True
1958  1967 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           »    Cruise
1959  1968 Perf_Background_Dpkg.Psacalt
           »  10000.0
1960  1969 Perf_Database_Dpkg.Psmmo
           »     0.45
1961  1970 Perf_Background_Dpkg.Pszfw
           »    300.0
1962  1971 Perf_Background_Dpkg.Psblockfuel
           »     50.0
1963  1972 Perf_Background_Dpkg.Pstaxifuel
           »     25.0
1964  1973 Perf_Background_Dpkg.Psairborne
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                       »        True
 1965    1974  Perf_Background_Dpkg.Psautolat
                       »        False
 1966    1975  Guid_Ext_Dpkg.Gcxxlatautoc
                       »        False
 1967    1976  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
                       »        False
 1968    1977  Perf_Background_Dpkg.Psengout
                       »        True
 1969    1978  Cdk_Vert_Dpkg:Body.Engine_Out_I
                       »        False
 1970    1979  Perf_Background_Dpkg.Pcholdflags.Hmdecel
                       »        True
 1971    1980  Perf_Dpkg.Repredict_Hm_Decel
                       »        True
 1972    1981  Perf_Background_DPkg.Pshmdecel
                       »        True
 1973    1982  Perf_Background_Dpkg.Pcholdflags.Hmactive
                       »        True
 1974    1983  Perf_Ads_Dpkg.Fi_Enabled
                       »        False
 1975    1984  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
                       »        False
 1976    1985  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
                       »        True
 1977    1986  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
                       »        True
 1978    1987  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
                       »        True
 1979    1988  Perf_Background_Dpkg.Pcholdflags.Hmdistval
                       »        True
 1980    1989  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
                       »        True
 1981    1990  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
                       »        True
 1982    1991  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
                       »        True
 1983    1992  Perf_Background_Dpkg.Psappspdlat
                       »        True
 1984    1993  Perf_Dpkg.Pcengoutprds
                       »        Altpln
 1985    1994  Perf_Background_Dpkg.Pcpathref
                       »        Onpath
 1986    1995  Guid_Ext_Dpkg.Va3Vertmde                              Perf_Ext_Tpk
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »   g.Vmnone
 1987   1996 Perf_Background_DPkg.Pscurcas
                    »        5.0
 1988   1997 Perf_Background_DPkg.Pscurmach
                    »        5.0
 1989   1998 Perf_Background_DPkg.Pscurtas
                    »        5.0
 1990   1999 Perf_Background_Dpkg.Psenginesoff
                    »     False
 1991   2000 Perf_Despath_Dpkg.Pcdespath.Vgavalid
                    »     False
 1992   2001 Perf_Background_Dpkg.Pstogwtval
                    »     False
 1993   2002 Perf_Background_Dpkg.Pstogwt
                    »       50.0
 1994   2003 Perf_Background_Dpkg.Pcgwind
                    »   Invalid
 1995   2004 Perf_Background_Dpkg.Psgw
                    »        0.0
 1996   2005 Perf_Dpkg.Gross_Weight.Status
                    »     Valid
 1997   2006 Perf_Dpkg.Gross_Weight.Data
                    »      150.0
 1998   2007 Perf_Integration_DPkg.Pcairbrakes
                    »    Fullab
 1999   2008 Perf_Background_Dpkg.Pcacconfig
                    »         5
 2000   2009 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                    »      True
 2001   2010 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                    »   9000.0
 2002   2011 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                    »      200.0
 2003   2012 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                    »      400.0
 2004   2013 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                    »      False
 2005   2014 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                    »      265.0
 2006   2015 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                    »       0.55
 2007   2016 Perf_Background_Dpkg.Psstpclbact
                    »      True
 2008   2017 Perf_Background_Dpkg.Psstpdesact
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                     »       True
  2009    2018 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                     »        0.0
  2010    2019 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                     »        0.0
  2011    2020 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                     »        0.65
  2012    2021 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                     »       345.0
  2013    2022 Perf_Background_Dpkg.Pccuraltcstr.Valid
                     »       True
  2014    2023 Perf_Background_Dpkg.Pcprebcalt.Valid
                     »       True
  2015    2024 Perf_Background_Dpkg.Pcgmttime.Hour
                     »         1
  2016    2025 Perf_Background_Dpkg.Pcgmttime.Minute
                     »         1
  2017    2026 Perf_Background_Dpkg.Pcgmttime.Second
                     »         1
  2018    2027 Perf_Background_Dpkg.Psinertvs
                     »        5.0
  2019    2028 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                     »         0
  2020    2029 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
                     »         2
  2021    2030 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                     »         0
  2022    2031 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                     »         2
  2023    2032 Perf_Ads_Dpkg.Pr_Enabled
                     »      False
  2024    2033 ATC_DISCRETES_PKG:body.Adson_Flag
                     »      False
  2025    2034 Perf_Integration_Dpkg.Psoldnoentgt
                     »        0.0
```

| 2026 | 2035 | Perf_Background_Dpkg.Pcoldcasmchi | Fmcs_Base_Ty |

```
                     » pes.Mach
```

| 2027 | 2036 | Perf_Background_Dpkg.Pcspeedmode | Perf_Ext_Tp |

```
                     » kg.Vmspd
  2028    2037 Perf_Background_Dpkg.Adc_Fg_Valid
                     »      False
  2029    2038 Prf_Bkgnd_Pkg:body.Fgspdsvalid
                     »      False
```

| 2030 | 2039 | Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status | Takeoff_Alt_Type |

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 » s.Active
     2031    2040 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Val
                 »     False
     2032    2041 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt
                 »     300.0
     2033    2042 Perf_Background_Dpkg.Noise_Data.Altitude.Data
                 »       0.0
     2034    2043 Perf_Background_Dpkg.Noise_Data.Altitude.Valid
                 »     False
     2035    2044 Perf_Background_Dpkg.Noise_Data.Speed.Valid
                 »     True
     2036    2045 Perf_Background_Dpkg.Pcitin.Itinerary                                              Prim_Fp
                 » ln_Preds
     2037    2046 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                 »     False
     2038    2047 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                 »     False
     2039    2048 Perf_Background_Dpkg.Ac_Crosstrack_Error
                 »     2.5
     2040    2049 Perf_Background_Dpkg.Pscurtasvalid
                 »     True
     2041    2050 Perf_Background_Dpkg.Psconsider_Hm
                 »     True
     2042    2051 Perf_Background_Dpkg.Pshxpxdecel
                 »     True
     2043    2052 Perf_Background_Dpkg.Ac_Anti_Ice
                 »     True
     2044    2053 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai
                 »     True
     2045    2054 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai
                 »     True
     2046    2055 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond
                 »     True
     2047    2056 Perf_Background_Dpkg.Pcholdflags.Consider_Hm
                 »     True
     2048    2057
     2049    2058
     2050    2059  define Get_Cruise_Alt_Called := False
     2051    2060
     2052    2061
     2053    2062 INPUT                                                                             VALUE
     2054    2063 ------------------------------------------------------------------------------ ------------------
                 » --------
     2055    2064 Perf_Dpkg.takeoff_gwt.valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »      True
  2056    2065   Perf_Dpkg.takeoff_gwt.data
                    »      400.0
  2057    2066   Perf_Background_Dpkg.Psgetout
                    »      True
  2058    2067   Perf_Background_Dpkg.Ref_Flight_Plan
                    »       1
  2059    2068   Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid
                    »      True
  2060    2069   Perf_Despath_Dpkg.Pcdespath.Vgavalid
                    »      true
  2061    2070   Perf_Background_Dpkg.Pcitin.Itinerary                                                                    Prim_Fp
                    » ln_Preds
  2062    2071   Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
                    »      True
  2063    2072   Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
                    »      True
  2064    2073   Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
                    »      32.20
  2065    2074   Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
                    »      32.30
  2066    2075   Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid
                    »      false
  2067    2076   Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid
                    »      false
  2068    2077   Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data
                    »      0.00
  2069    2078   Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data
                    »      0.00
  2070    2079   Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid
                    »      False
  2071    2080   Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
                    »      0.0
  2072    2081
  2073    2082
  2074    2083    define Get_Cruise_Alt_Called   := True
  2075    2084    define Get_Cruise_Alt_Called   := True
  2076    2085
  2077    2086
  2078    2087   OUTPUT                                                   EXPECTED                   TOLERANCE              ACTUAL
                    »        P/F
  2079    2088   -------------------------------------------------------  ----------------------------  -------------  ------------------
                    » --------  ----
  2080    2089   Perf_Integration_Dpkg.Psoldnoentgt                                              0.0            0.001                 0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              » 0000E+00  P
 2081   2090 Perf_Background_Dpkg.Pcoldcasmchi                      Fmcs_Base_Types.Mach      (N/A)
              »    MACH  P
 2082   2091 Perf_Despath_Dpkg.Pcdespath.Vgavalid                           /= False          (N/A)
              »    TRUE  P
 2083   2092 Perf_Background_Dpkg.Psairborne                                    False          (N/A)
              »   FALSE  P
 2084   2093 Perf_Background_Dpkg.Psautolat                                      True          (N/A)
              »    TRUE  P
 2085   2094 Perf_Background_Dpkg.Psengout                                      False          (N/A)
              »   FALSE  P
 2086   2095 Perf_Background_Dpkg.Psgetout                                       TRUE          (N/A)
              »    TRUE  P
 2087   2096 Perf_Background_Dpkg.Pcfltphase                                Preflight          (N/A)                    P
              » REFLIGHT  P
 2088   2097 Perf_Background_Dpkg.Pcspeedmode                    Perf_Ext_Tpkg.Vmecon          (N/A)
              »   VMECON  P
 2089   2098 Perf_Background_Dpkg.Psinertvs                                       0.0          0.001                  0.0
              » 0000E+00  P
 2090   2099 Perf_Background_Dpkg.Pcpathref                                    Nopath          (N/A)
              »   NOPATH  P
 2091   2100 Perf_Background_Dpkg.Pscurtasvalid                                 False          (N/A)
              »   FALSE  P
 2092   2101 Perf_Background_Dpkg.Pcacconfig                                    Clean          (N/A)
              »       0  P
 2093   2102 Perf_Integration_Dpkg.Pcairbrakes                                 Zeroab          (N/A)
              »   ZEROAB  P
 2094   2103 Perf_Background_Dpkg.Pccuraltcstr.Valid                            False          (N/A)
              »   FALSE  P
 2095   2104 Perf_Background_Dpkg.Pcprebcalt.Valid                             False          (N/A)
              »   FALSE  P
 2096   2105 Perf_Background_Dpkg.Psappspdlat                                   False          (N/A)
              »   FALSE  P
 2097   2106 Perf_Background_DPkg.Pshmdecel                                     False          (N/A)
              »   FALSE  P
 2098   2107 Perf_Background_Dpkg.Psconsider_Hm                                 False          (N/A)
              »   FALSE  P
 2099   2108 Perf_Background_Dpkg.Pshxpxdecel                                   False          (N/A)
              »   FALSE  P
 2100   2109 Perf_Background_Dpkg.Psignorehm                                     True          (N/A)
              »    TRUE  P
 2101   2110 Perf_Background_Dpkg.Psstpclbact                                   False          (N/A)
              »   FALSE  P
 2102   2111 Perf_Background_Dpkg.Psstpdesact                                   False          (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» FALSE P			
2103	2112	Perf_Background_Dpkg.Psenginesoff		True	(N/A)
		» TRUE P			
2104	2113	Perf_Background_Dpkg.Ac_Anti_Ice		False	(N/A)
		» FALSE P			
2105	2114	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai		False	(N/A)
		» FALSE P			
2106	2115	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai		False	(N/A)
		» FALSE P			
2107	2116	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond		False	(N/A)
		» FALSE P			
2108	2117	Prf_Bkgnd_Pkg:BODY.Valcrzalt	Perf_Background_Dpkg.Pscrzalt.Valid		(N/A)
		» TRUE P			
2109	2118	Perf_Background_Dpkg.Adc_Fg_Valid		True	(N/A)
		» TRUE P			
2110	2119	Prf_Bkgnd_Pkg:body.Fgspdsvalid		True	(N/A)
		» TRUE P			
2111	2120	Perf_Background_Dpkg.Pcholdflags.Hmdecel		False	(N/A)
		» FALSE P			
2112	2121	Perf_Background_Dpkg.Pcholdflags.Hmactive		False	(N/A)
		» FALSE P			
2113	2122	Perf_Background_Dpkg.Pcholdflags.Manhmwarn		False	(N/A)
		» FALSE P			
2114	2123	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel		False	(N/A)
		» FALSE P			
2115	2124	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv		False	(N/A)
		» FALSE P			
2116	2125	Perf_Background_Dpkg.Pcholdflags.Hmdistval		False	(N/A)
		» FALSE P			
2117	2126	Perf_Background_Dpkg.Pcholdflags.Consider_Hm		False	(N/A)
		» FALSE P			
2118	2127	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim		False	(N/A)
		» FALSE P			
2119	2128	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim		False	(N/A)
		» FALSE P			
2120	2129	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel		False	(N/A)
		» FALSE P			
2121	2130	Perf_Background_Dpkg.Pcgmttime.Hour		0	(N/A)
		» 0 P			
2122	2131	Perf_Background_Dpkg.Pcgmttime.Minute		0	(N/A)
		» 0 P			
2123	2132	Perf_Background_Dpkg.Pcgmttime.Second		0	(N/A)
		» 0 P			
2124	2133	Perf_Background_DPkg.Pscurcas		0.0	0.001 0.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 0000E+00 P			
2125	2134	Perf_Background_DPkg.Pscurmach	0.0	0.001	0.0
		» 0000E+00 P			
2126	2135	Perf_Background_DPkg.Pscurtas	0.0	0.001	0.0
		» 0000E+00 P			
2127	2136	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	0.0	0.001	0.0
		» 0000E+00 P			
2128	2137	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.0	0.001	0.0
		» 0000E+00 P			
2129	2138	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
2130	2139	Perf_Background_Dpkg.Ac_Crosstrack_Error	0.0	0.001	0.0
		» 0000E+00 P			
2131	2140	Get_Cruise_Alt_Called	True	(N/A)	
		» TRUE P			
2132	2141	Perf_Background_Dpkg.Noise_Data.Altitude.Valid	True	(N/A)	
		» TRUE P			
2133	2142	Perf_Background_Dpkg.Noise_Data.Altitude.Data	300.0	0.001	3.0
		» 0000E+02 P			
2134	2143	Perf_Background_Dpkg.Noise_Data.Speed.Valid	False	(N/A)	
		» FALSE P			
2135	2144	Perf_Background_Dpkg.Secn_Fpln_Itin	True	(N/A)	
		» TRUE P			
2136	2145	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid	True	(N/A)	
		» TRUE P			
2137	2146	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid	True	(N/A)	
		» TRUE P			
2138	2147	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data	32.20	0.001	3.2
		» 2000E+01 P			
2139	2148	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data	32.30	0.001	3.2
		» 3000E+01 P			
2140	2149	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid	True	(N/A)	
		» TRUE P			
2141	2150	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data	5.0	0.001	5.0
		» 0000E+00 P			
2142	2151				
2143	2152				
2144	2153	====> All 62 Comparisons Passed <====			
2145	2154				
2146	2155				
2147	2156	TESTID: 8			
2148	2157				
2149	2158	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or			
2150	2159	Approach, then the Optimum Descent speeds shall be set as follows:			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2151   2160      if the following are true:
2152   2161        - VG Partially-Limited CAS is non-zero, and Any of the following are true:
2153   2162          - The A/C is currently in a deceleration, and either:
2154   2163            - The predictions count is less than or equal to one, or
2155   2164            - The current working flight plan is Active and the difference between the current prediction sequence
2156   2165              counter and starting prediction sequence counter is less than or equal to 2, or
2157   2166            - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
2158   2167              being processed is Current Mode predictions(Normal or High Priority) ,or
2159   2168            - First Preds After Insert Temporary indication is True;
2160   2169          - The A/C is not in Auto Lateral mode,
2161   2170          - Approach Speeds have been latched.
2162   2171      then,
2163   2172        Optimum Descent CAS is set to the VG Partially-Limited CAS
2164   2173      otherwise,
2165   2174        Optimum Descent CAS is set to current VG CAS target.
2166   2175      -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
2167   2176      -- VG Partially-Limited CAS is zero.
2168   2177      -- Optimum Descent CAS is set to current VG CAS target.
2169   2178      PERF_SDD_2249_INT
2170   2179      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2171   2180              PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2172   2181              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2173   2182
2174   2183      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
2175   2184      working flight plan.
2176   2185      PERF_SDD_4328 (PERF_SRD_10166_INT)
2177   2186
2178   2187
2179   2188  INPUT                                                                                            VALUE
2180   2189  ----------------------------------------------------------------------------------------------  -----------------
           » --------
2181   2190  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
           »       False
2182   2191  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
           »       False
2183   2192  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
           »       False
2184   2193  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
           »       False
2185   2194  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
           »       False
2186   2195  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
           »       True
2187   2196  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »      True
2188   2197 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
                    »      True
2189   2198 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
                    »      True
2190   2199 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
                    »      True
2191   2200 Guid_Spds_Dpkg.Vc3prtlimcas
                    »       0.0
2192   2201 Perf_Dpkg.Min_Gwt
                    »     100.0
2193   2202 Perf_Dpkg.Max_Gwt
                    »     400.0
2194   2203 Perf_Background_Dpkg.Flight_Plan_Type                                    I
                    » s_Active
2195   2204 Perf_Background_Dpkg.Psignorehm
                    »      True
2196   2205 Perf_Background_Dpkg.Pcfltphase
                    »   Descent
2197   2206 Perf_Background_Dpkg.Ats_Enable
                    »      True
2198   2207 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
                    »   Descent
2199   2208 Perf_Background_Dpkg.Psacalt
                    »   10000.0
2200   2209 Perf_Database_Dpkg.Psmmo
                    »      0.45
2201   2210 Perf_Background_Dpkg.Pszfw
                    »     300.0
2202   2211 Perf_Background_Dpkg.Psblockfuel
                    »      50.0
2203   2212 Perf_Background_Dpkg.Pstaxifuel
                    »      25.0
2204   2213 Perf_Background_Dpkg.Psairborne
                    »      True
2205   2214 Perf_Background_Dpkg.Psautolat
                    »     False
2206   2215 Guid_Ext_Dpkg.Gcxxlatautoc
                    »     False
2207   2216 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
                    »     False
2208   2217 Perf_Background_Dpkg.Psengout
                    »      True
2209   2218 Cdk_Vert_Dpkg:Body.Engine_Out_I
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »        True
    2210    2219 Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »        True
    2211    2220 Perf_Dpkg.Repredict_Hm_Decel
              »        True
    2212    2221 Perf_Background_DPkg.Pshmdecel
              »        True
    2213    2222 Perf_Background_Dpkg.Pcholdflags.Hmactive
              »        True
    2214    2223 Perf_Ads_Dpkg.Fi_Enabled
              »        False
    2215    2224 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »        False
    2216    2225 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »        True
    2217    2226 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »        True
    2218    2227 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »        True
    2219    2228 Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »        True
    2220    2229 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »        True
    2221    2230 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »        True
    2222    2231 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »        True
    2223    2232 Perf_Background_Dpkg.Psappspdlat
              »        True
    2224    2233 Perf_Dpkg.Pcengoutprds
              »     Altpln
    2225    2234 Perf_Background_Dpkg.Pcpathref
              »     Onpath
    2226    2235 Guid_Ext_Dpkg.Va3Vertmde                                                                                     Perf_Ext_Tpk
              » g.Vmnone
    2227    2236 Perf_Background_DPkg.Pscurcas
              »        5.0
    2228    2237 Perf_Background_DPkg.Pscurmach
              »        5.0
    2229    2238 Perf_Background_DPkg.Pscurtas
              »        5.0
    2230    2239 Perf_Despath_Dpkg.Pcdespath.Vgavalid
              »        True
    2231    2240 Perf_Background_Dpkg.Pstogwtval
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »      False
2232   2241  Perf_Background_Dpkg.Pstogwt
                »        50.0
2233   2242  Perf_Background_Dpkg.Pcgwind
                »    Invalid
2234   2243  Perf_Background_Dpkg.Psgw
                »         0.0
2235   2244  Perf_Dpkg.Gross_Weight.Status
                »      Valid
2236   2245  Perf_Dpkg.Gross_Weight.Data
                »       150.0
2237   2246  Perf_Integration_DPkg.Pcairbrakes
                »    Fullab
2238   2247  Perf_Background_Dpkg.Pcacconfig
                »          5
2239   2248  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                »      False
2240   2249  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                »    9000.0
2241   2250  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                »       200.0
2242   2251  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                »      False
2243   2252  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                »       265.0
2244   2253  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                »       0.55
2245   2254  Perf_Background_Dpkg.Psstpclbact
                »      True
2246   2255  Perf_Background_Dpkg.Psstpdesact
                »      True
2247   2256  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                »         0.0
2248   2257  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                »         0.0
2249   2258  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                »       0.65
2250   2259  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                »       345.0
2251   2260  Perf_Background_Dpkg.Pccuraltcstr.Valid
                »      True
2252   2261  Perf_Background_Dpkg.Pcprebcalt.Valid
                »      True
2253   2262  Perf_Background_Dpkg.Pcgmttime.Hour
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
             |      |   »      1
  2254 | 2263 | Perf_Background_Dpkg.Pcgmttime.Minute
             |      |   »      1
  2255 | 2264 | Perf_Background_Dpkg.Pcgmttime.Second
             |      |   »      1
  2256 | 2265 | Perf_Background_Dpkg.Psinertvs
             |      |   »      5.0
  2257 | 2266 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
             |      |   »      0
  2258 | 2267 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
             |      |   »      2
  2259 | 2268 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
             |      |   »      0
  2260 | 2269 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
             |      |   »      2
  2261 | 2270 | Perf_Ads_Dpkg.Pr_Enabled
             |      |   »      False
  2262 | 2271 | ATC_DISCRETES_PKG:body.Adson_Flag
             |      |   »      False
  2263 | 2272 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
             |      |   »      true
  2264 | 2273 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
             |      |   »      true
  2265 | 2274 | ^Noise_End_Alt_Status                                      Takeoff_Alt_Types.
             |      |   » Inactive
  2266 | 2275 | Perf_Background_Dpkg.Pcactorsec                                              S
             |      |   » econdary
  2267 | 2276 | Perf_Dpkg.takeoff_gwt.valid
             |      |   »      True
  2268 | 2277 | Perf_Dpkg.takeoff_gwt.data
             |      |   »      400.0
  2269 | 2278 |
  2270 | 2279 |
  2271 | 2280 | OUTPUT                                          EXPECTED          TOLERANCE          ACTUAL
             |      |   »         P/F
  2272 | 2281 | -------------------------------------------  --------------------  ------------  ------------------
             |      |   » --------  ----
  2273 | 2282 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid              False        (N/A)
             |      |   »    FALSE  P
  2274 | 2283 | Perf_Background_Dpkg.Noise_Data.Speed.Valid                 False        (N/A)
             |      |   »    FALSE  P
  2275 | 2284 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                   345.0        0.001              3.4
             |      |   » 5000E+02  P
  2276 | 2285 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach                  0.65         0.001              6.5
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
            » 0000E-01  P
 2277   2286 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                          False        (N/A)
            »     FALSE  P
 2278   2287 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                True         (N/A)
            »     TRUE  P
 2279   2288 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                  True         (N/A)
            »     TRUE  P
 2280   2289 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                 True         (N/A)
            »     TRUE  P
 2281   2290
 2282   2291
 2283   2292 ====> All 8 Comparisons Passed <====
 2284   2293
 2285   2294
 2286   2295 TESTID: 9
 2287   2296
 2288   2297     If the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum De
            » scent Mach
 2289   2298     shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target
            » ;otherwise,
 2290   2299     if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.
 2291   2300
 2292   2301     the current flight phase is not climb then:
 2293   2302     the real time climb speeds are valid for current working flight plan then Optimum Econ/LRC climb CAS and Mach are
 2294   2303     not set to the real time climb CAS and Mach speeds respectively for the current working flight plan.
 2295   2304     Flag indicating the speed targets from FG are valid (Fgspdsvalid) is not set to False.
 2296   2305     PERF_SDD_2276_INT, PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455),
 2297   2306     PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
 2298   2307              PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
 2299   2308              PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
 2300   2309
 2301   2310     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
 2302   2311     working flight plan.
 2303   2312
 2304   2313     PERF_SDD_4328 (PERF_SRD_10166_INT)
 2305   2314
 2306   2315     The Tailwind, Crosswind and their validity at destination along the runway axis shall be retrieved
 2307   2316     for the working flight plan.
 2308   2317     PERF_SDD_07188_INT
 2309   2318
 2310   2319
 2311   2320 INPUT                                                                                          VALUE
 2312   2321 -------------------------------------------------------------------------------  ------------------
            » --------
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

2313	2322	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec	
		» False	
2314	2323	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	
		» False	
2315	2324	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec	
		» False	
2316	2325	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec	
		» False	
2317	2326	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec	
		» False	
2318	2327	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid	
		» True	
2319	2328	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data	
		» True	
2320	2329	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
2321	2330	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
2322	2331	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
2323	2332	Perf_Background_Dpkg.Pcactorsec	
		» Active	
2324	2333	Perf_Background_Dpkg.Dest_Wind_Components.Dest_Wind_Valid	
		» False	
2325	2334	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdu	
		» 0.0	
2326	2335	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdy	
		» 0.0	
2327	2336	Perf_Retained_Dpkg.Psvcdu(Active).Valid	
		» True	
2328	2337	Perf_Retained_Dpkg.Psvcdu(Active).Data	
		» 1.01	
2329	2338	Perf_Retained_Dpkg.Psvcdy(Active).Data	
		» 1.01	
2330	2339	Perf_Dpkg.Min_Gwt	
		» 100.0	
2331	2340	Perf_Dpkg.Max_Gwt	
		» 400.0	
2332	2341	Perf_Background_Dpkg.Flight_Plan_Type	I
		» s_Active	
2333	2342	Perf_Background_Dpkg.Psignorehm	
		» True	
2334	2343	Perf_Background_Dpkg.Pcfltphase	
		» Approach	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2335    2344   Perf_Background_Dpkg.Ats_Enable
               »      True
2336    2345   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
               » Approach
2337    2346   Perf_Background_Dpkg.Psacalt
               »   10000.0
2338    2347   Perf_Database_Dpkg.Psmmo
               »      0.45
2339    2348   Perf_Background_Dpkg.Pszfw
               »      300.0
2340    2349   Perf_Background_Dpkg.Psblockfuel
               »      50.0
2341    2350   Perf_Background_Dpkg.Pstaxifuel
               »      25.0
2342    2351   Perf_Background_Dpkg.Psairborne
               »      True
2343    2352   Perf_Background_Dpkg.Psautolat
               »      False
2344    2353   Guid_Ext_Dpkg.Gcxxlatautoc
               »      False
2345    2354   Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
               »      False
2346    2355   Perf_Background_Dpkg.Psengout
               »      True
2347    2356   Cdk_Vert_Dpkg:Body.Engine_Out_I
               »      True
2348    2357   Perf_Background_Dpkg.Pcholdflags.Hmdecel
               »      True
2349    2358   Perf_Dpkg.Repredict_Hm_Decel
               »      True
2350    2359   Perf_Background_DPkg.Pshmdecel
               »      True
2351    2360   Perf_Background_Dpkg.Pcholdflags.Hmactive
               »      True
2352    2361   Perf_Ads_Dpkg.Fi_Enabled
               »      False
2353    2362   Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
               »      False
2354    2363   Perf_Background_Dpkg.Pcholdflags.Manhmwarn
               »      True
2355    2364   Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
               »      True
2356    2365   Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
               »      True
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2357 | 2366 | Perf_Background_Dpkg.Pcholdflags.Hmdistval
            |      »        True
2358 | 2367 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            |      »        True
2359 | 2368 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
            |      »        True
2360 | 2369 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
            |      »        True
2361 | 2370 | Perf_Background_Dpkg.Psappspdlat
            |      »        True
2362 | 2371 | Perf_Dpkg.Pcengoutprds
            |      »     Altpln
2363 | 2372 | Perf_Background_Dpkg.Pcpathref
            |      »     Onpath
2364 | 2373 | Guid_Ext_Dpkg.Va3Vertmde                                                              Perf_Ext_Tpk
            |      » g.Vmnone
2365 | 2374 | Perf_Background_DPkg.Pscurcas
            |      »        5.0
2366 | 2375 | Perf_Background_DPkg.Pscurmach
            |      »        5.0
2367 | 2376 | Perf_Background_DPkg.Pscurtas
            |      »        5.0
2368 | 2377 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
            |      »        True
2369 | 2378 | Perf_Background_Dpkg.Pstogwtval
            |      »     False
2370 | 2379 | Perf_Background_Dpkg.Pstogwt
            |      »        50.0
2371 | 2380 | Perf_Background_Dpkg.Pcgwind
            |      »    Invalid
2372 | 2381 | Perf_Background_Dpkg.Psgw
            |      »        0.0
2373 | 2382 | Perf_Dpkg.Gross_Weight.Status
            |      »     Valid
2374 | 2383 | Perf_Dpkg.Gross_Weight.Data
            |      »        150.0
2375 | 2384 | Perf_Integration_DPkg.Pcairbrakes
            |      »     Fullab
2376 | 2385 | Perf_Background_Dpkg.Pcacconfig
            |      »         5
2377 | 2386 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            |      »     False
2378 | 2387 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
            |      »     9000.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2379   2388 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
            »       200.0
2380   2389 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            »       True
2381   2390 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            »       265.0
2382   2391 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            »       0.55
2383   2392 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Valid
            »       True
2384   2393 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Cas
            »       266.0
2385   2394 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Mach
            »       0.56
2386   2395 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
            »       True
2387   2396 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
            »       267.0
2388   2397 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
            »       0.57
2389   2398 Perf_Background_Dpkg.Psstpclbact
            »       True
2390   2399 Perf_Background_Dpkg.Psstpdesact
            »       True
2391   2400 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »        0.0
2392   2401 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            »        0.0
2393   2402 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
            »       0.65
2394   2403 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            »       345.0
2395   2404 Perf_Background_Dpkg.Pccuraltcstr.Valid
            »       True
2396   2405 Perf_Background_Dpkg.Pcprebcalt.Valid
            »       True
2397   2406 Perf_Background_Dpkg.Pcgmttime.Hour
            »         1
2398   2407 Perf_Background_Dpkg.Pcgmttime.Minute
            »         1
2399   2408 Perf_Background_Dpkg.Pcgmttime.Second
            »         1
2400   2409 Perf_Background_Dpkg.Psinertvs
            »        5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2401   2410 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            »         0
2402   2411 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            »         2
2403   2412 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            »         0
2404   2413 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            »         2
2405   2414 Perf_Ads_Dpkg.Pr_Enabled
            »      False
2406   2415 ATC_DISCRETES_PKG:body.Adson_Flag
            »      False
2407   2416 Perf_Ads_Dpkg.Ii_Enabled
            »      True
2408   2417 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            »      true
2409   2418 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            »      true
2410   2419 ^Noise_End_Alt_Status                                                               Takeoff_Alt_Types.
            » Inactive
2411   2420 Perf_Dpkg.takeoff_gwt.valid
            »      True
2412   2421 Perf_Dpkg.takeoff_gwt.data
            »      400.0
2413   2422 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
            »      True
2414   2423 Prf_Bkgnd_Pkg:body.Fgspdsvalid
            »      True
2415   2424 Perf_Background_Dpkg.Psecncrzmach
            »      0.0
2416   2425 Perf_Background_Dpkg.Psecncrzcas
            »      0.0
2417   2426
2418   2427
2419   2428 OUTPUT                                                          EXPECTED            TOLERANCE              ACTUAL
            »         P/F
2420   2429 ------------------------------------------------------  ----------------------------  -------------  ------------------
            » --------  ----
2421   2430 Perf_Speeds(Active)(Cruise).Valid                                TRUE                (N/A)
            »     TRUE  P
2422   2431 Perf_Speeds(Active)(Climb).Valid                                 TRUE                (N/A)
            »     TRUE  P
2423   2432 Perf_Speeds(Active)(Descent).Valid                               TRUE                (N/A)
            »     TRUE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

2424	2433	Perf_Speeds(Active)(Climb).Mach	0.56	0.001	5.6
		» 0000E-01 P			
2425	2434	Perf_Speeds(Active)(Climb).Cas	266.0	0.001	2.6
		» 6000E+02 P			
2426	2435	Perf_Speeds(Active)(Cruise).Mach	0.57	0.001	5.7
		» 0000E-01 P			
2427	2436	Perf_Speeds(Active)(Cruise).Cas	267.0	0.001	2.6
		» 7000E+02 P			
2428	2437	Perf_Speeds(Active)(Descent).Mach	0.55	0.001	5.5
		» 0000E-01 P			
2429	2438	Perf_Speeds(Active)(Descent).Cas	265.0	0.001	2.6
		» 5000E+02 P			
2430	2439	Prf_Bkgnd_Pkg:body.Fgspdsvalid	True	(N/A)	
		» TRUE P			
2431	2440	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	345.0	0.001	3.4
		» 5000E+02 P			
2432	2441	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.55	0.001	5.5
		» 0000E-01 P			
2433	2442	Perf_Ads_Dpkg.Ii_Enabled	False	(N/A)	
		» FALSE P			
2434	2443	Perf_Ads_Dpkg.Pr_Enabled	False	(N/A)	
		» FALSE P			
2435	2444	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
2436	2445	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	
		» TRUE P			
2437	2446	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	
		» TRUE P			
2438	2447	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	
		» TRUE P			
2439	2448				
2440	2449				
2441	2450	INPUT			VALUE
2442	2451	---		------------------	
		» --------			
2443	2452	Perf_Background_Dpkg.Dest_Wind_Components.Dest_Wind_Valid			
		» True			
2444	2453	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdu			
		» 1.01			
2445	2454	Perf_Background_Dpkg.Dest_Wind_Components.Psvcdy			
		» 1.01			
2446	2455				
2447	2456				
2448	2457	OUTPUT	EXPECTED	TOLERANCE	ACTUAL

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                   »            P/F
 2449  2458 ------------------------------------------------- ----------------------------- ------------- ------------------
                   » --------   ----
 2450  2459 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                                 False         (N/A)
                   »      FALSE  P
 2451  2460 Perf_Background_Dpkg.Noise_Data.Speed.Valid                                    False         (N/A)
                   »      FALSE  P
 2452  2461 Perf_Background_Dpkg.Psecncrzmach                                              0.0           0.001                   0.0
                   » 0000E+00  P
 2453  2462 Perf_Background_Dpkg.Psecncrzcas                                               0.0           0.001                   0.0
                   » 0000E+00  P
 2454  2463
 2455  2464
 2456  2465 ====> All 22 Comparisons Passed <====
 2457  2466
 2458  2467
 2459  2468 TESTID: 10
 2460  2469
 2461  2470    If the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum De
                   » scent Mach
 2462  2471    shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target
                   » ;otherwise,
 2463  2472    if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.
 2464  2473    PERF_SDD_2276_INT, PERF_SDD_2853_INT, PERF_SDD_2293_INT
 2465  2474    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
 2466  2475           PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
 2467  2476           PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
 2468  2477
 2469  2478    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
 2470  2479    working flight plan.
 2471  2480    PERF_SDD_4328 (PERF_SRD_10166_INT)
 2472  2481
 2473  2482
 2474  2483 INPUT                                                                                                     VALUE
 2475  2484 -------------------------------------------------------------------------------------- ------------------
                   » --------
 2476  2485 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
                   »      False
 2477  2486 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
                   »      False
 2478  2487 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
                   »      False
 2479  2488 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
                   »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2480   2489 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
             »      False
2481   2490 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
             »        True
2482   2491 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
             »        True
2483   2492 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
             »        True
2484   2493 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
             »        True
2485   2494 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
             »        True
2486   2495 Perf_Dpkg.Min_Gwt
             »      100.0
2487   2496 Perf_Dpkg.Max_Gwt
             »      400.0
2488   2497 Perf_Background_Dpkg.Flight_Plan_Type                                                    I
             » s_Active
2489   2498 Perf_Background_Dpkg.Psignorehm
             »        True
2490   2499 Perf_Background_Dpkg.Pcfltphase
             » Approach
2491   2500 Perf_Background_Dpkg.Ats_Enable
             »        True
2492   2501 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             » Approach
2493   2502 Perf_Background_Dpkg.Psacalt
             »    10000.0
2494   2503 Perf_Database_Dpkg.Psmmo
             »       0.45
2495   2504 Perf_Background_Dpkg.Pszfw
             »      300.0
2496   2505 Perf_Background_Dpkg.Psblockfuel
             »       50.0
2497   2506 Perf_Background_Dpkg.Pstaxifuel
             »       25.0
2498   2507 Perf_Background_Dpkg.Psairborne
             »        True
2499   2508 Perf_Background_Dpkg.Psautolat
             »      False
2500   2509 Guid_Ext_Dpkg.Gcxxlatautoc
             »      False
2501   2510 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
             »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2502    2511  Perf_Background_Dpkg.Psengout
              »       True
2503    2512  Cdk_Vert_Dpkg:Body.Engine_Out_I
              »       True
2504    2513  Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »       True
2505    2514  Perf_Dpkg.Repredict_Hm_Decel
              »       True
2506    2515  Perf_Background_DPkg.Pshmdecel
              »       True
2507    2516  Perf_Background_Dpkg.Pcholdflags.Hmactive
              »       True
2508    2517  Perf_Ads_Dpkg.Fi_Enabled
              »       False
2509    2518  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »       False
2510    2519  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »       True
2511    2520  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »       True
2512    2521  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »       True
2513    2522  Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »       True
2514    2523  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »       True
2515    2524  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »       True
2516    2525  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »       True
2517    2526  Perf_Background_Dpkg.Psappspdlat
              »       True
2518    2527  Perf_Dpkg.Pcengoutprds
              »       Altpln
2519    2528  Perf_Background_Dpkg.Pcpathref
              »       Onpath
2520    2529  Guid_Ext_Dpkg.Va3Vertmde                                                    Perf_Ext_Tpk
              » g.Vmnone
2521    2530  Perf_Background_DPkg.Pscurcas
              »       5.0
2522    2531  Perf_Background_DPkg.Pscurmach
              »       5.0
2523    2532  Perf_Background_DPkg.Pscurtas
              »       5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2524 | 2533 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
     |      |   »      True
2525 | 2534 | Perf_Background_Dpkg.Pstogwtval
     |      |   »      False
2526 | 2535 | Perf_Background_Dpkg.Pstogwt
     |      |   »      50.0
2527 | 2536 | Perf_Background_Dpkg.Pcgwind
     |      |   »   Invalid
2528 | 2537 | Perf_Background_Dpkg.Psgw
     |      |   »      0.0
2529 | 2538 | Perf_Dpkg.Gross_Weight.Status
     |      |   »      Valid
2530 | 2539 | Perf_Dpkg.Gross_Weight.Data
     |      |   »      150.0
2531 | 2540 | Perf_Integration_DPkg.Pcairbrakes
     |      |   »      Fullab
2532 | 2541 | Perf_Background_Dpkg.Pcacconfig
     |      |   »         5
2533 | 2542 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
     |      |   »      False
2534 | 2543 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
     |      |   »      9000.0
2535 | 2544 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
     |      |   »      200.0
2536 | 2545 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
     |      |   »      False
2537 | 2546 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
     |      |   »      265.0
2538 | 2547 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
     |      |   »      0.55
2539 | 2548 | Perf_Background_Dpkg.Psstpclbact
     |      |   »      True
2540 | 2549 | Perf_Background_Dpkg.Psstpdesact
     |      |   »      True
2541 | 2550 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     |      |   »      0.0
2542 | 2551 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
     |      |   »      0.0
2543 | 2552 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
     |      |   »      0.65
2544 | 2553 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |      |   »      345.0
2545 | 2554 | Perf_Background_Dpkg.Pccuraltcstr.Valid
     |      |   »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2546   2555 | Perf_Background_Dpkg.Pcprebcalt.Valid
            | »        True
2547   2556 | Perf_Background_Dpkg.Pcgmttime.Hour
            | »           1
2548   2557 | Perf_Background_Dpkg.Pcgmttime.Minute
            | »           1
2549   2558 | Perf_Background_Dpkg.Pcgmttime.Second
            | »           1
2550   2559 | Perf_Background_Dpkg.Psinertvs
            | »        5.0
2551   2560 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            | »        0
2552   2561 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            | »        2
2553   2562 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            | »        0
2554   2563 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            | »        2
2555   2564 | Perf_Ads_Dpkg.Pr_Enabled
            | »        False
2556   2565 | ATC_DISCRETES_PKG:body.Adson_Flag
            | »        False
2557   2566 | Perf_Ads_Dpkg.Ii_Enabled
            | »        True
2558   2567 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            | »        true
2559   2568 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            | »        true
2560   2569 | ^Noise_End_Alt_Status                                                        Takeoff_Alt_Types.
            | » Inactive
2561   2570 | Perf_Dpkg.takeoff_gwt.valid
            | »        True
2562   2571 | Perf_Dpkg.takeoff_gwt.data
            | »        400.0
2563   2572 |
2564   2573 |
```

2565	2574	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
2566	2575	--	-----------------------------	------------	------------------
		» -------- ----			
2567	2576	Perf_Background_Dpkg.Noise_Data.Altitude.Valid	False	(N/A)	
		» FALSE P			
2568	2577	Perf_Background_Dpkg.Noise_Data.Speed.Valid	False	(N/A)	
		» FALSE P			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

2569	2578	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	345.0	0.001	3.4
		» 5000E+02 P			
2570	2579	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.45	0.001	4.5
		» 0000E-01 P			
2571	2580	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec	False	(N/A)	
		» FALSE P			
2572	2581	Perf_Ads_Dpkg.Ii_Enabled	False	(N/A)	
		» FALSE P			
2573	2582	Perf_Ads_Dpkg.Pr_Enabled	False	(N/A)	
		» FALSE P			
2574	2583	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
2575	2584	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai	True	(N/A)	
		» TRUE P			
2576	2585	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai	True	(N/A)	
		» TRUE P			
2577	2586	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond	True	(N/A)	
		» TRUE P			
2578	2587				
2579	2588				
2580	2589	====> All 11 Comparisons Passed <====			
2581	2590				
2582	2591				
2583	2592	TESTID: 11			
2584	2593				
2585	2594	Verify that for a secondary flight plan relevant plags are set so HM legs will be ignored. Also, when current iti			
		» n is			
2586	2595	active primary flight plan preds and ADS enabled flag is true Get_Requested_Num_Waypoints is called.			
2587	2596	PERF_SDD_4795(PERF_SRD_1590, PERF_SRD_6012), PERF_SDD_3482_INT, PERF_SDD_2852_INT, PERF_SDD_2174_INT, PERF_SDD_217			
		» 7_INT,			
2588	2597	PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,			
2589	2598	PERF_SRD_10200_INT, PERF_SRD_10199_INT, PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,			
2590	2599	PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)			
2591	2600				
2592	2601	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the			
2593	2602	working flight plan.			
2594	2603	PERF_SDD_4328 (PERF_SRD_10166_INT)			
2595	2604				
2596	2605	The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout			
		» e			
2597	2606	information for use as the Predictions Reference GMT.			
2598	2607	PERF_SDD_3718 (PERF_SRD_8964_INT)			
2599	2608				
2600	2609	The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                      » ute
  2601    2610    Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
  2602    2611    PERF_SDD_3887 (PERF_SRD_8976_INT)
  2603    2612
  2604    2613    If the current itinerary is one of the following:
  2605    2614    - Active Primary Flight Plan Predictions;
  2606    2615    - Temporary Primary Flight Plan Predictions;
  2607    2616    -Current mode predictions(Normal or High priority);
  2608    2617    - Optimum altitude predictions;
  2609    2618    then the descent path shall be retrieved from the descent path object
  2610    2619    manager via a call to Perf_Ext_Despath.Pgvdespath.
  2611    2620    PERF_SDD_3888_INT
  2612    2621
  2613    2622    If there is no speed mode valid, then speed mode shall be set to economy mode.
  2614    2623    PERF_SDD_07546_INT
  2615    2624
  2616    2625
  2617    2626 INPUT                                                                                                      VALUE
  2618    2627 ------------------------------------------------------------------------------------------------- ------------------
                      » --------
  2619    2628 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
                      »      False
  2620    2629 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
                      »      False
  2621    2630 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
                      »      False
  2622    2631 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
                      »      False
  2623    2632 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
                      »      False
  2624    2633 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
                      »      True
  2625    2634 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
                      »      True
  2626    2635 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
                      »      True
  2627    2636 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
                      »      True
  2628    2637 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
                      »      True
  2629    2638 Perf_Dpkg.Min_Gwt
                      »      100.0
  2630    2639 Perf_Dpkg.Max_Gwt
                      »      400.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2631   2640 | Perf_Background_Dpkg.Pcactorsec                                                          S
            | » econdary
2632   2641 | Perf_Background_Dpkg.Psignorehm
            | »     False
2633   2642 | Perf_Background_Dpkg.Flight_Plan_Type                                             Copy_Fro
            | » m_Active
2634   2643 | Perf_Background_Dpkg.Pcfltphase
            | » Approach
2635   2644 | Perf_Background_Dpkg.Ats_Enable
            | »     True
2636   2645 | Perf_Background_Dpkg.Pcitin.Flight_Plan
            | »     Active
2637   2646 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            | » Approach
2638   2647 | Perf_Background_Dpkg.Psacalt
            | »   10000.0
2639   2648 | Perf_Database_Dpkg.Psmmo
            | »     0.45
2640   2649 | Perf_Background_Dpkg.Pszfw
            | »     300.0
2641   2650 | Perf_Background_Dpkg.Psblockfuel
            | »     50.0
2642   2651 | Perf_Background_Dpkg.Pstaxifuel
            | »     25.0
2643   2652 | Perf_Background_Dpkg.Psairborne
            | »     True
2644   2653 | Perf_Background_Dpkg.Psautolat
            | »     False
2645   2654 | Guid_Ext_Dpkg.Gcxxlatautoc
            | »     False
2646   2655 | Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
            | »     False
2647   2656 | Perf_Background_Dpkg.Psengout
            | »     True
2648   2657 | Cdk_Vert_Dpkg:Body.Engine_Out_I
            | »     True
2649   2658 | Perf_Background_Dpkg.Pcholdflags.Hmdecel
            | »     True
2650   2659 | Perf_Dpkg.Repredict_Hm_Decel
            | »     True
2651   2660 | Perf_Background_DPkg.Pshmdecel
            | »     True
2652   2661 | Perf_Background_Dpkg.Pcholdflags.Hmactive
            | »     True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2653   2662 Perf_Ads_Dpkg.Fi_Enabled
              »       False
2654   2663 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »       False
2655   2664 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »       True
2656   2665 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »       True
2657   2666 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »       True
2658   2667 Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »       True
2659   2668 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »       True
2660   2669 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »       True
2661   2670 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »       True
2662   2671 Perf_Background_Dpkg.Psappspdlat
              »       True
2663   2672 Perf_Dpkg.Pcengoutprds
              »     Altpln
2664   2673 Perf_Background_Dpkg.Pcpathref
              »     Onpath
2665   2674 Guid_Ext_Dpkg.Va3Vertmde                                                        Perf_Ext_Tpk
              » g.Vmnone
2666   2675 Perf_Background_DPkg.Pscurcas
              »       5.0
2667   2676 Perf_Background_DPkg.Pscurmach
              »       5.0
2668   2677 Perf_Background_DPkg.Pscurtas
              »       5.0
2669   2678 Perf_Background_Dpkg.Pcitin.Itinerary                                           Prim_Fp
              » ln_Preds
2670   2679 Perf_Background_Dpkg.Psenginesoff
              »       True
2671   2680 Perf_Despath_Dpkg.Pcdespath.Vgavalid
              »       True
2672   2681 Perf_Background_Dpkg.Pstogwtval
              »       False
2673   2682 Perf_Background_Dpkg.Pstogwt
              »      50.0
2674   2683 Perf_Background_Dpkg.Pcgwind
              »   Invalid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2675   2684 | Perf_Background_Dpkg.Psgw
              »         0.0
2676   2685 | Perf_Dpkg.Gross_Weight.Status
              »       Valid
2677   2686 | Perf_Dpkg.Gross_Weight.Data
              »       150.0
2678   2687 | Perf_Integration_DPkg.Pcairbrakes
              »      Fullab
2679   2688 | Perf_Background_Dpkg.Pcacconfig
              »         5
2680   2689 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
              »       False
2681   2690 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
              »      9000.0
2682   2691 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
              »       200.0
2683   2692 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
              »       False
2684   2693 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
              »       265.0
2685   2694 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
              »        0.55
2686   2695 | Perf_Background_Dpkg.Psstpclbact
              »        True
2687   2696 | Perf_Background_Dpkg.Psstpdesact
              »        True
2688   2697 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »         0.0
2689   2698 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
              »         0.0
2690   2699 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
              »        0.65
2691   2700 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »       345.0
2692   2701 | Perf_Background_Dpkg.Pccuraltcstr.Valid
              »        True
2693   2702 | Perf_Background_Dpkg.Pcprebcalt.Valid
              »        True
2694   2703 | Perf_Background_Dpkg.Pcgmttime.Hour
              »         1
2695   2704 | Perf_Background_Dpkg.Pcgmttime.Minute
              »         1
2696   2705 | Perf_Background_Dpkg.Pcgmttime.Second
              »         1
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2697 | 2706 | Perf_Background_Dpkg.Psinertvs
             |   »        5.0
2698 | 2707 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
             |   »        0
2699 | 2708 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
             |   »        2
2700 | 2709 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
             |   »        0
2701 | 2710 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
             |   »        2
2702 | 2711 | Perf_Ads_Dpkg.Pr_Enabled
             |   »     False
2703 | 2712 | ATC_DISCRETES_PKG:body.Adson_Flag
             |   »     False
2704 | 2713 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
             |   »     True
2705 | 2714 | Perf_Ads_Dpkg.Ii_Enabled
             |   »     True
2706 | 2715 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
             |   »     true
2707 | 2716 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
             |   »     true
2708 | 2717 | ^Noise_End_Alt_Status                                                    Takeoff_Alt_Type
             |   » s.Active
2709 | 2718 | ^Noise_Speed_Val
             |   »     False
2710 | 2719 | CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
             |   »     (5)
2711 | 2720 | Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
             |   »     330.0
2712 | 2721 | Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
             |   »   15500.0
2713 | 2722 | Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type                     Vg_Ext_Tpkg.Des
             |   » _Spd_Lim
2714 | 2723 | Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                                        "
             |   » ABCDEFG"
2715 | 2724 | Perf_Dpkg.takeoff_gwt.valid
             |   »     True
2716 | 2725 | Perf_Dpkg.takeoff_gwt.data
             |   »     400.0
2717 | 2726 | Perf_Background_Dpkg.Speed_Annunciation.Cas
             |   »     0.0
2718 | 2727 | Perf_Background_Dpkg.Speed_Annunciation.Alt
             |   »     0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2719  2728 Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                                    Vg_Ext_Tpkg
           » .Invalid
2720  2729 Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                                  "
           »           "
2721  2730 Perf_Background_Dpkg.Pcholdflags.Consider_Hm
           »     True
2722  2731 Perf_Background_Dpkg.Psconsider_Hm
           »     True
2723  2732 Perf_Background_Dpkg.Pshxpxdecel
           »     True
2724  2733
2725  2734
2726  2735 OUTPUT                                                           EXPECTED              TOLERANCE              ACTUAL
           »          P/F
2727  2736 -------------------------------------------------- ------------------------------ ------------- ------------------
           » --------  ----
2728  2737 Perf_Background_Dpkg.Pcholdflags.Hmdecel                          False                 (N/A)
           »     FALSE  P
2729  2738 Perf_Background_Dpkg.Pcholdflags.Consider_Hm                      False                 (N/A)
           »     FALSE  P
2730  2739 Perf_Background_Dpkg.Pcholdflags.Hmactive                         False                 (N/A)
           »     FALSE  P
2731  2740 Perf_Background_Dpkg.Pcholdflags.Manhmwarn                        False                 (N/A)
           »     FALSE  P
2732  2741 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                        False                 (N/A)
           »     FALSE  P
2733  2742 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                        False                 (N/A)
           »     FALSE  P
2734  2743 Perf_Background_Dpkg.Pcholdflags.Hmdistval                        False                 (N/A)
           »     FALSE  P
2735  2744 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                          False                 (N/A)
           »     FALSE  P
2736  2745 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                         False                 (N/A)
           »     FALSE  P
2737  2746 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                       False                 (N/A)
           »     FALSE  P
2738  2747 Perf_Background_DPkg.Pshmdecel                                    False                 (N/A)
           »     FALSE  P
2739  2748 Perf_Background_Dpkg.Psappspdlat                                  False                 (N/A)
           »     FALSE  P
2740  2749 Perf_Background_Dpkg.Psconsider_Hm                                False                 (N/A)
           »     FALSE  P
2741  2750 Perf_Background_Dpkg.Pshxpxdecel                                  False                 (N/A)
           »     FALSE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

2742	2751	Perf_Background_Dpkg.Psignorehm		True	(N/A)	
		» TRUE P				
2743	2752	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec		True	(N/A)	
		» TRUE P				
2744	2753	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints		5	(N/A)	
		» 5 P				
2745	2754	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints		0	(N/A)	
		» 0 P				
2746	2755	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points		0	(N/A)	
		» 0 P				
2747	2756	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points		2	(N/A)	
		» 2 P				
2748	2757	Perf_Ads_Dpkg.Ii_Enabled		False	(N/A)	
		» FALSE P				
2749	2758	Perf_Ads_Dpkg.Pr_Enabled		True	(N/A)	
		» TRUE P				
2750	2759	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec		False	(N/A)	
		» FALSE P				
2751	2760	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai		True	(N/A)	
		» TRUE P				
2752	2761	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai		True	(N/A)	
		» TRUE P				
2753	2762	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond		True	(N/A)	
		» TRUE P				
2754	2763	Perf_Background_Dpkg.Speed_Annunciation.Cas		330.0	0.001	3.3
		» 0000E+02 P				
2755	2764	Perf_Background_Dpkg.Speed_Annunciation.Alt		15500.0	0.001	1.5
		» 5000E+04 P				
2756	2765	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type	Vg_Ext_Tpkg.Des_Spd_Lim		(N/A)	DES
		» _SPD_LIM P				
2757	2766	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident		"ABCDEFG"	(N/A)	"
		» ABCDEFG" P				
2758	2767	CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec		True	(N/A)	
		» TRUE P				
2759	2768	Perf_Background_Dpkg.Pcspeedmode	Perf_Ext_Tpkg.Vmecon		(N/A)	
		» VMECON P				
2760	2769					
2761	2770					
2762	2771	====> All 32 Comparisons Passed <====				
2763	2772					
2764	2773					
2765	2774	TESTID: 12				
2766	2775					
2767	2776	ADS Enabled flag is set for Intermediate Intent Buffer Predictions.				

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2768   2777      PERF_SDD_2123_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT
2769   2778      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2770   2779               PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2771   2780               PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2772   2781
2773   2782      The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
2774   2783      working flight plan.
2775   2784      PERF_SDD_4328 (PERF_SRD_10166_INT)
2776   2785
2777   2786      The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout
            » e
2778   2787      information for use as the Predictions Reference GMT.
2779   2788      PERF_SDD_3718 (PERF_SRD_8964_INT)
2780   2789
2781   2790      The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro
            » ute
2782   2791      Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
2783   2792      PERF_SDD_3887 (PERF_SRD_8976_INT)
2784   2793
2785   2794      If all of the following conditions are met, the number of requested Intermediate Intent Waypoints shall be set to
            » maximum
2786   2795        number of intermediate intent points(10) and number of predicted Intermediate Intent Waypoints is set to zero:
2787   2796        The current itinerary is Active Primary Flight Plan Predictions
2788   2797        This is not the first pass of active primary flight plan predictions
2789   2798        OPC ATS-enabled flag is true
2790   2799        ADS ON is true
2791   2800      PERF_SDD_07160_INT
2792   2801
2793   2802
2794   2803 INPUT                                                                                                        VALUE
2795   2804 ------------------------------------------------------------------------------------------  ------------------
            » --------
2796   2805 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
            »     False
2797   2806 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
            »     False
2798   2807 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
            »     False
2799   2808 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
            »     False
2800   2809 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
            »     False
2801   2810 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
            »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

2802	2811	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data	
		» True	
2803	2812	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
2804	2813	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
2805	2814	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
2806	2815	Perf_Dpkg.Min_Gwt	
		» 100.0	
2807	2816	Perf_Dpkg.Max_Gwt	
		» 400.0	
2808	2817	Perf_Background_Dpkg.Pcactorsec	S
		» econdary	
2809	2818	Perf_Background_Dpkg.Psignorehm	
		» True	
2810	2819	Perf_Background_Dpkg.Flight_Plan_Type	Copy_Fro
		» m_Active	
2811	2820	Perf_Background_Dpkg.Pcfltphase	
		» Approach	
2812	2821	Perf_Background_Dpkg.Ats_Enable	
		» True	
2813	2822	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	
		» Approach	
2814	2823	Perf_Background_Dpkg.Psacalt	
		» 10000.0	
2815	2824	Perf_Database_Dpkg.Psmmo	
		» 0.45	
2816	2825	Perf_Background_Dpkg.Pszfw	
		» 300.0	
2817	2826	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
2818	2827	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
2819	2828	Perf_Background_Dpkg.Psairborne	
		» True	
2820	2829	Perf_Background_Dpkg.Psautolat	
		» False	
2821	2830	Guid_Ext_Dpkg.Gcxxlatautoc	
		» True	
2822	2831	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
2823	2832	Perf_Background_Dpkg.Psengout	
		» True	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2824   2833 Cdk_Vert_Dpkg:Body.Engine_Out_I
            »        True
2825   2834 Perf_Background_Dpkg.Pcholdflags.Hmdecel
            »        True
2826   2835 Perf_Dpkg.Repredict_Hm_Decel
            »        True
2827   2836 Perf_Background_DPkg.Pshmdecel
            »        True
2828   2837 Perf_Background_Dpkg.Pcholdflags.Hmactive
            »        True
2829   2838 Perf_Ads_Dpkg.Fi_Enabled
            »        True
2830   2839 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
            »        False
2831   2840 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            »        True
2832   2841 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            »        True
2833   2842 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            »        True
2834   2843 Perf_Background_Dpkg.Pcholdflags.Hmdistval
            »        True
2835   2844 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            »        True
2836   2845 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
            »        True
2837   2846 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
            »        True
2838   2847 Perf_Background_Dpkg.Psappspdlat
            »        True
2839   2848 Perf_Dpkg.Pcengoutprds
            »     Altpln
2840   2849 Perf_Background_Dpkg.Pcpathref
            »     Onpath
2841   2850 Guid_Ext_Dpkg.Va3Vertmde                                                  Perf_Ext_Tpk
            » g.Vmnone
2842   2851 Perf_Background_DPkg.Pscurcas
            »        5.0
2843   2852 Perf_Background_DPkg.Pscurmach
            »        5.0
2844   2853 Perf_Background_DPkg.Pscurtas
            »        5.0
2845   2854 Perf_Background_Dpkg.Pcitin.Itinerary                                         Prim_Fp
            » ln_Preds
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2846  2855  Perf_Background_Dpkg.Psenginesoff
            »       True
2847  2856  Perf_Despath_Dpkg.Pcdespath.Vgavalid
            »       True
2848  2857  Perf_Background_Dpkg.Pstogwtval
            »       False
2849  2858  Perf_Background_Dpkg.Pstogwt
            »       50.0
2850  2859  Perf_Background_Dpkg.Pcgwind
            »   Invalid
2851  2860  Perf_Background_Dpkg.Psgw
            »       0.0
2852  2861  Perf_Dpkg.Gross_Weight.Status
            »       Valid
2853  2862  Perf_Dpkg.Gross_Weight.Data
            »       150.0
2854  2863  Perf_Integration_DPkg.Pcairbrakes
            »     Fullab
2855  2864  Perf_Background_Dpkg.Pcacconfig
            »         5
2856  2865  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            »       False
2857  2866  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
            »     9000.0
2858  2867  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
            »     400.0
2859  2868  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            »       False
2860  2869  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            »     265.0
2861  2870  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            »       0.55
2862  2871  Perf_Background_Dpkg.Psstpclbact
            »       True
2863  2872  Perf_Background_Dpkg.Psstpdesact
            »       True
2864  2873  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »       0.0
2865  2874  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            »       0.0
2866  2875  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
            »       0.65
2867  2876  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            »       345.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2868 | 2877 | Perf_Background_Dpkg.Pccuraltcstr.Valid
     |      | »        True
2869 | 2878 | Perf_Background_Dpkg.Pcprebcalt.Valid
     |      | »        True
2870 | 2879 | Perf_Background_Dpkg.Pcgmttime.Hour
     |      | »        1
2871 | 2880 | Perf_Background_Dpkg.Pcgmttime.Minute
     |      | »        1
2872 | 2881 | Perf_Background_Dpkg.Pcgmttime.Second
     |      | »        1
2873 | 2882 | Perf_Background_Dpkg.Psinertvs
     |      | »        5.0
2874 | 2883 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
     |      | »        0
2875 | 2884 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
     |      | »        2
2876 | 2885 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
     |      | »        0
2877 | 2886 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
     |      | »        2
2878 | 2887 | Perf_Ads_Dpkg.Pr_Enabled
     |      | »        False
2879 | 2888 | ATC_DISCRETES_PKG:body.Adson_Flag
     |      | »        True
2880 | 2889 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
     |      | »        True
2881 | 2890 | Perf_Ads_Dpkg.Ii_Enabled
     |      | »        False
2882 | 2891 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
     |      | »        true
2883 | 2892 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
     |      | »        true
2884 | 2893 | ^Noise_End_Alt_Status                                                   Takeoff_Alt_Type
     |      | » s.Active
2885 | 2894 | CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
     |      | »        (5)
2886 | 2895 | Perf_Dpkg.takeoff_gwt.valid
     |      | »        True
2887 | 2896 | Perf_Dpkg.takeoff_gwt.data
     |      | »        400.0
2888 | 2897 |
2889 | 2898 |
2890 | 2899 | OUTPUT                                        EXPECTED              TOLERANCE              ACTUAL
     |      | »          P/F
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2891   2900 ------------------------------------------------------ ------------------------------ ------------- ------------------
            » --------  ----
2892   2901 Perf_Background_Dpkg.Pcholdflags.Hmactive                                              False        (N/A)
            »      FALSE  P
2893   2902 Perf_Background_Dpkg.Pcholdflags.Manhmwarn                                             False        (N/A)
            »      FALSE  P
2894   2903 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                                            False        (N/A)
            »      FALSE  P
2895   2904 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                                            False        (N/A)
            »      FALSE  P
2896   2905 Perf_Background_Dpkg.Pcholdflags.Hmdistval                                            False        (N/A)
            »      FALSE  P
2897   2906 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                                              False        (N/A)
            »      FALSE  P
2898   2907 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                                             False        (N/A)
            »      FALSE  P
2899   2908 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                                            False        (N/A)
            »      FALSE  P
2900   2909 Perf_Background_DPkg.Pshmdecel                                                        False        (N/A)
            »      FALSE  P
2901   2910 Perf_Background_Dpkg.Psappspdlat                                                      False        (N/A)
            »      FALSE  P
2902   2911 Perf_Background_Dpkg.Psignorehm                                                       True         (N/A)
            »      TRUE   P
2903   2912 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec                      True         (N/A)
            »      TRUE   P
2904   2913 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints                            5            (N/A)
            »       5   P
2905   2914 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints                            0            (N/A)
            »       0   P
2906   2915 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points                              10           (N/A)
            »      10   P
2907   2916 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points                              0            (N/A)
            »       0   P
2908   2917 Perf_Ads_Dpkg.Ii_Enabled                                                             True         (N/A)
            »      TRUE   P
2909   2918 Perf_Ads_Dpkg.Pr_Enabled                                                             True         (N/A)
            »      TRUE   P
2910   2919 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                                         False        (N/A)
            »      FALSE  P
2911   2920 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                              True         (N/A)
            »      TRUE   P
2912   2921 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                                True         (N/A)
            »      TRUE   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
2913   2922 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                        True            (N/A)
            »     TRUE  P
2914   2923
2915   2924
2916   2925 ====> All 22 Comparisons Passed <====
2917   2926
2918   2927
2919   2928 TESTID: 13
2920   2929
2921   2930    A/C is in Cruise and current itin is active primary so target speed is limited by calling the speed envelope modul
            » e.
2922   2931    PERF_SDD_3055_INT, PERF_SDD_2174_INT, PERF_SDD_2177_INT
2923   2932    PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
2924   2933            PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
2925   2934            PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
2926   2935
2927   2936    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
2928   2937    working flight plan.
2929   2938    PERF_SDD_4328 (PERF_SRD_10166_INT)
2930   2939
2931   2940    The GMT time snapshot taken at the beginning of the pass of predictions is stored with the Perf ADS Predicted Rout
            » e
2932   2941    information for use as the Predictions Reference GMT.
2933   2942    PERF_SDD_3718 (PERF_SRD_8964_INT)
2934   2943
2935   2944    The number of requested Predicted Route waypoints is 0 (Zero) and valid Predicted data resides in the Predicted Ro
            » ute
2936   2945    Buffer. Verify the Perf Predicted Route Buffer is invalidated and stored into the ADS Interface for IO's use.
2937   2946    PERF_SDD_3887 (PERF_SRD_8976_INT)
2938   2947
2939   2948    If all of the following conditions are met, the number of requested Intermediate Intent Waypoints shall be set to
            » maximum
2940   2949      number of intermediate intent points(10) and number of predicted Intermediate Intent Waypoints is set to zero:
2941   2950      The current itinerary is Active Primary Flight Plan Predictions
2942   2951      This is not the first pass of active primary flight plan predictions
2943   2952      OPC ATS-enabled flag is true
2944   2953      ADS ON is true
2945   2954    PERF_SDD_07160_INT
2946   2955
2947   2956
2948   2957 INPUT                                                                                                     VALUE
2949   2958 ----------------------------------------------------------------------------------------------- ------------------
            » --------
2950   2959 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False	
2951	2960	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	
		» False	
2952	2961	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec	
		» False	
2953	2962	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec	
		» False	
2954	2963	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec	
		» False	
2955	2964	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid	
		» True	
2956	2965	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data	
		» True	
2957	2966	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
2958	2967	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
2959	2968	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
2960	2969	Perf_Dpkg.Min_Gwt	
		» 100.0	
2961	2970	Perf_Dpkg.Max_Gwt	
		» 400.0	
2962	2971	Perf_Background_Dpkg.Pcactorsec	S
		» econdary	
2963	2972	Perf_Background_Dpkg.Psignorehm	
		» True	
2964	2973	Perf_Background_Dpkg.Flight_Plan_Type	Copy_Fro
		» m_Active	
2965	2974	Perf_Background_Dpkg.Pcfltphase	
		» Approach	
2966	2975	Perf_Background_Dpkg.Ats_Enable	
		» True	
2967	2976	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	
		» Cruise	
2968	2977	Perf_Background_Dpkg.Psacalt	
		» 10000.0	
2969	2978	Perf_Database_Dpkg.Psmmo	
		» 0.45	
2970	2979	Perf_Background_Dpkg.Pszfw	
		» 300.0	
2971	2980	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
2972	2981	Perf_Background_Dpkg.Pstaxifuel	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »        25.0
   2973    2982  Perf_Background_Dpkg.Psairborne
                  »        True
   2974    2983  Perf_Background_Dpkg.Psautolat
                  »        False
   2975    2984  Guid_Ext_Dpkg.Gcxxlatautoc
                  »        True
   2976    2985  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
                  »        False
   2977    2986  Perf_Background_Dpkg.Psengout
                  »        True
   2978    2987  Cdk_Vert_Dpkg:Body.Engine_Out_I
                  »        True
   2979    2988  Perf_Background_Dpkg.Pcholdflags.Hmdecel
                  »        True
   2980    2989  Perf_Dpkg.Repredict_Hm_Decel
                  »        True
   2981    2990  Perf_Background_DPkg.Pshmdecel
                  »        True
   2982    2991  Perf_Background_Dpkg.Pcholdflags.Hmactive
                  »        True
   2983    2992  Perf_Ads_Dpkg.Fi_Enabled
                  »        false
   2984    2993  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
                  »        False
   2985    2994  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
                  »        True
   2986    2995  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
                  »        True
   2987    2996  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
                  »        True
   2988    2997  Perf_Background_Dpkg.Pcholdflags.Hmdistval
                  »        True
   2989    2998  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
                  »        True
   2990    2999  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
                  »        True
   2991    3000  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
                  »        True
   2992    3001  Perf_Background_Dpkg.Psappspdlat
                  »        True
   2993    3002  Perf_Dpkg.Pcengoutprds
                  »        Altpln
   2994    3003  Perf_Background_Dpkg.Pcpathref
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              │   »    Onpath
 2995 │  3004 │ Guid_Ext_Dpkg.Va3Vertmde                                                    Perf_Ext_Tpk
              │   »  g.Vmnone
 2996 │  3005 │ Perf_Background_DPkg.Pscurcas
              │   »       5.0
 2997 │  3006 │ Perf_Background_DPkg.Pscurmach
              │   »       5.0
 2998 │  3007 │ Perf_Background_DPkg.Pscurtas
              │   »       5.0
 2999 │  3008 │ Perf_Background_Dpkg.Pcitin.Itinerary                                        Prim_Fp
              │   »  ln_Preds
 3000 │  3009 │ Perf_Background_Dpkg.Psenginesoff
              │   »       True
 3001 │  3010 │ Perf_Despath_Dpkg.Pcdespath.Vgavalid
              │   »       True
 3002 │  3011 │ Perf_Background_Dpkg.Pstogwtval
              │   »       False
 3003 │  3012 │ Perf_Background_Dpkg.Pstogwt
              │   »       50.0
 3004 │  3013 │ Perf_Background_Dpkg.Pcgwind
              │   »  Invalid
 3005 │  3014 │ Perf_Background_Dpkg.Psgw
              │   »       0.0
 3006 │  3015 │ Perf_Dpkg.Gross_Weight.Status
              │   »       Valid
 3007 │  3016 │ Perf_Dpkg.Gross_Weight.Data
              │   »       150.0
 3008 │  3017 │ Perf_Integration_DPkg.Pcairbrakes
              │   »    Fullab
 3009 │  3018 │ Perf_Background_Dpkg.Pcacconfig
              │   »         5
 3010 │  3019 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
              │   »     False
 3011 │  3020 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
              │   »    9000.0
 3012 │  3021 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
              │   »     400.0
 3013 │  3022 │ Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
              │   »     False
 3014 │  3023 │ Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
              │   »     265.0
 3015 │  3024 │ Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
              │   »       0.55
 3016 │  3025 │ Perf_Background_Dpkg.Psstpclbact
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »        True
  3017    3026  Perf_Background_Dpkg.Psstpdesact
                »        True
  3018    3027  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                »        0.0
  3019    3028  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                »        0.0
  3020    3029  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                »        0.65
  3021    3030  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                »        345.0
  3022    3031  Perf_Background_Dpkg.Pccuraltcstr.Valid
                »        True
  3023    3032  Perf_Background_Dpkg.Pcprebcalt.Valid
                »        True
  3024    3033  Perf_Background_Dpkg.Pcgmttime.Hour
                »        1
  3025    3034  Perf_Background_Dpkg.Pcgmttime.Minute
                »        1
  3026    3035  Perf_Background_Dpkg.Pcgmttime.Second
                »        1
  3027    3036  Perf_Background_Dpkg.Psinertvs
                »        5.0
  3028    3037  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                »        0
  3029    3038  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
                »        2
  3030    3039  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                »        0
  3031    3040  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                »        2
  3032    3041  Perf_Ads_Dpkg.Pr_Enabled
                »     False
  3033    3042  ATC_DISCRETES_PKG:body.Adson_Flag
                »        True
  3034    3043  Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
                »        True
  3035    3044  Perf_Background_Dpkg.Pcitin.Flight_Plan
                »     Active
  3036    3045  Perf_Ads_Dpkg.Ii_Enabled
                »     False
  3037    3046  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
                »     true
  3038    3047  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
       |       |»       true
 3039  | 3048  |^Noise_End_Alt_Status                                                                              Takeoff_Alt_Type
       |       |» s.Active
 3040  | 3049  |CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
       |       |»      (0)
 3041  | 3050  |Perf_Dpkg.takeoff_gwt.valid
       |       |»      True
 3042  | 3051  |Perf_Dpkg.takeoff_gwt.data
       |       |»      400.0
 3043  | 3052  |
 3044  | 3053  |
 3045  | 3054  |OUTPUT                                                            EXPECTED              TOLERANCE            ACTUAL
       |       |»           P/F
 3046  | 3055  |------------------------------------------------------  ----------------------------  -------------  ------------------
       |       |» --------  ----
 3047  | 3056  |Perf_Background_Dpkg.Pcholdflags.Hmactive                             False              (N/A)
       |       |»     FALSE   P
 3048  | 3057  |Perf_Background_Dpkg.Pcholdflags.Manhmwarn                            False              (N/A)
       |       |»     FALSE   P
 3049  | 3058  |Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                            False              (N/A)
       |       |»     FALSE   P
 3050  | 3059  |Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                            False              (N/A)
       |       |»     FALSE   P
 3051  | 3060  |Perf_Background_Dpkg.Pcholdflags.Hmdistval                            False              (N/A)
       |       |»     FALSE   P
 3052  | 3061  |Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                             False              (N/A)
       |       |»     FALSE   P
 3053  | 3062  |Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                            False              (N/A)
       |       |»     FALSE   P
 3054  | 3063  |Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                           False              (N/A)
       |       |»     FALSE   P
 3055  | 3064  |Perf_Background_DPkg.Pshmdecel                                        False              (N/A)
       |       |»     FALSE   P
 3056  | 3065  |Perf_Background_Dpkg.Psappspdlat                                      False              (N/A)
       |       |»     FALSE   P
 3057  | 3066  |Perf_Background_Dpkg.Psignorehm                                       True               (N/A)
       |       |»     TRUE   P
 3058  | 3067  |CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec     True               (N/A)
       |       |»     TRUE   P
 3059  | 3068  |Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints             0               (N/A)
       |       |»      0   P
 3060  | 3069  |Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints             0               (N/A)
       |       |»      0   P
 3061  | 3070  |Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points               10               (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                   »         10  P
3062   3071 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points                            0          (N/A)
                   »          0  P
3063   3072 Perf_Ads_Dpkg.Ii_Enabled                                                        False        (N/A)
                   »      FALSE  P
3064   3073 Perf_Ads_Dpkg.Pr_Enabled                                                        False        (N/A)
                   »      FALSE  P
3065   3074 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                                    True        (N/A)
                   »       TRUE  P
3066   3075 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                         True        (N/A)
                   »       TRUE  P
3067   3076 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                           True        (N/A)
                   »       TRUE  P
3068   3077 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                          True        (N/A)
                   »       TRUE  P
3069   3078
3070   3079
3071   3080 ====> All 22 Comparisons Passed <====
3072   3081
3073   3082
3074   3083 TESTID: 14
3075   3084
3076   3085    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3077   3086    working flight plan.
3078   3087    PERF_SDD_4328 (PERF_SRD_10166_INT)
3079   3088
3080   3089
3081   3090 INPUT                                                                                               VALUE
3082   3091 ------------------------------------------------------------------------------------------  ------------------
                   » --------
3083   3092 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
                   »      False
3084   3093 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
                   »      False
3085   3094 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
                   »      False
3086   3095 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
                   »      False
3087   3096 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
                   »      False
3088   3097 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
                   »       True
3089   3098 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
                   »       True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

3090	3099	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
		» True
3091	3100	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
		» True
3092	3101	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
		» True
3093	3102	Perf_Dpkg.Min_Gwt
		» 100.0
3094	3103	Perf_Dpkg.Max_Gwt
		» 400.0
3095	3104	Perf_Background_Dpkg.Flight_Plan_Type I
		» s_Active
3096	3105	Perf_Background_Dpkg.Psignorehm
		» True
3097	3106	Perf_Background_Dpkg.Ats_Enable
		» True
3098	3107	Perf_Background_Dpkg.Psautolat
		» False
3099	3108	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
		» False
3100	3109	Perf_Background_Dpkg.Psengout
		» True
3101	3110	Cdk_Vert_Dpkg:Body.Engine_Out_I
		» True
3102	3111	Perf_Background_DPkg.Pscurcas
		» 5.0
3103	3112	Perf_Background_DPkg.Pscurmach
		» 5.0
3104	3113	Perf_Background_DPkg.Pscurtas
		» 5.0
3105	3114	Perf_Despath_Dpkg.Pcdespath.Vgavalid
		» True
3106	3115	Perf_Background_Dpkg.Pstogwtval
		» False
3107	3116	Perf_Background_Dpkg.Pstogwt
		» 50.0
3108	3117	Perf_Background_Dpkg.Pcgwind
		» Invalid
3109	3118	Perf_Background_Dpkg.Psgw
		» 0.0
3110	3119	Perf_Dpkg.Gross_Weight.Status
		» Valid
3111	3120	Perf_Dpkg.Gross_Weight.Data
		» 150.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3112  3121  Perf_Integration_DPkg.Pcairbrakes
            »    Fullab
3113  3122  Perf_Background_Dpkg.Pcacconfig
            »        5
3114  3123  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            »    False
3115  3124  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
            »    9000.0
3116  3125  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            »    265.0
3117  3126  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            »     0.55
3118  3127  Perf_Background_Dpkg.Psstpclbact
            »        True
3119  3128  Perf_Background_Dpkg.Psstpdesact
            »        True
3120  3129  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »        0.0
3121  3130  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            »        0.0
3122  3131  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
            »        0.65
3123  3132  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            »      345.0
3124  3133  Perf_Background_Dpkg.Pccuraltcstr.Valid
            »        True
3125  3134  Perf_Background_Dpkg.Pcprebcalt.Valid
            »        True
3126  3135  Perf_Background_Dpkg.Pcgmttime.Hour
            »        1
3127  3136  Perf_Background_Dpkg.Pcgmttime.Minute
            »        1
3128  3137  Perf_Background_Dpkg.Pcgmttime.Second
            »        1
3129  3138  Perf_Background_Dpkg.Psinertvs
            »        5.0
3130  3139  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            »        0
3131  3140  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            »        2
3132  3141  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            »        0
3133  3142  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            »        2
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3134    3143 Perf_Ads_Dpkg.Pr_Enabled
             »       False
3135    3144 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
             »       true
3136    3145 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
             »       true
3137    3146 ^Noise_End_Alt_Status                                                                        Takeoff_Alt_Type
             » s.Active
3138    3147 Perf_Dpkg.takeoff_gwt.valid
             »       True
3139    3148 Perf_Dpkg.takeoff_gwt.data
             »       400.0
3140    3149
3141    3150
3142    3151 OUTPUT                                                     EXPECTED               TOLERANCE              ACTUAL
             »           P/F
3143    3152 ------------------------------------------------------  ----------------------------  ------------  -------------------
             » --------  ----
3144    3153 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                          False           (N/A)
             »     FALSE   P
3145    3154 Perf_Background_Dpkg.Noise_Data.Speed.Valid                             False           (N/A)
             »     FALSE   P
3146    3155 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                True            (N/A)
             »     TRUE   P
3147    3156 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                  True            (N/A)
             »     TRUE   P
3148    3157 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                 True            (N/A)
             »     TRUE   P
3149    3158
3150    3159
3151    3160 ====> All 5 Comparisons Passed <====
3152    3161
3153    3162
3154    3163 TESTID: 15
3155    3164
3156    3165     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3157    3166     working flight plan.
3158    3167     PERF_SDD_4328 (PERF_SRD_10166_INT)
3159    3168
3160    3169
3161    3170 INPUT                                                                                                     VALUE
3162    3171 ------------------------------------------------------------------------------------------------  -------------------
             » --------
3163    3172 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False	
3164	3173	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	
		» False	
3165	3174	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec	
		» False	
3166	3175	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec	
		» False	
3167	3176	CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec	
		» False	
3168	3177	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid	
		» True	
3169	3178	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data	
		» True	
3170	3179	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
3171	3180	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
3172	3181	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
3173	3182	Perf_Dpkg.Min_Gwt	
		» 100.0	
3174	3183	Perf_Dpkg.Max_Gwt	
		» 400.0	
3175	3184	Perf_Background_Dpkg.Flight_Plan_Type	I
		» s_Active	
3176	3185	Perf_Background_Dpkg.Psignorehm	
		» True	
3177	3186	Perf_Background_Dpkg.Ats_Enable	
		» True	
3178	3187	Perf_Background_Dpkg.Psautolat	
		» False	
3179	3188	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
3180	3189	Perf_Background_Dpkg.Psengout	
		» True	
3181	3190	Cdk_Vert_Dpkg:Body.Engine_Out_I	
		» True	
3182	3191	Perf_Background_DPkg.Pscurcas	
		» 5.0	
3183	3192	Perf_Background_DPkg.Pscurmach	
		» 5.0	
3184	3193	Perf_Background_DPkg.Pscurtas	
		» 5.0	
3185	3194	Perf_Despath_Dpkg.Pcdespath.Vgavalid	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »      True
 3186    3195 Perf_Background_Dpkg.Pstogwtval
                    »      False
 3187    3196 Perf_Background_Dpkg.Pstogwt
                    »       50.0
 3188    3197 Perf_Background_Dpkg.Pcgwind
                    »   Invalid
 3189    3198 Perf_Background_Dpkg.Psgw
                    »       0.0
 3190    3199 Perf_Dpkg.Gross_Weight.Status
                    »      Valid
 3191    3200 Perf_Dpkg.Gross_Weight.Data
                    »      150.0
 3192    3201 Perf_Integration_DPkg.Pcairbrakes
                    »      Fullab
 3193    3202 Perf_Background_Dpkg.Pcacconfig
                    »          5
 3194    3203 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                    »      False
 3195    3204 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                    »    9000.0
 3196    3205 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                    »      265.0
 3197    3206 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                    »       0.55
 3198    3207 Perf_Background_Dpkg.Psstpclbact
                    »      True
 3199    3208 Perf_Background_Dpkg.Psstpdesact
                    »      True
 3200    3209 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                    »       0.0
 3201    3210 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                    »       0.0
 3202    3211 Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                    »       0.65
 3203    3212 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                    »      345.0
 3204    3213 Perf_Background_Dpkg.Pccuraltcstr.Valid
                    »      True
 3205    3214 Perf_Background_Dpkg.Pcprebcalt.Valid
                    »      True
 3206    3215 Perf_Background_Dpkg.Pcgmttime.Hour
                    »        1
 3207    3216 Perf_Background_Dpkg.Pcgmttime.Minute
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »         1
  3208   3217 Perf_Background_Dpkg.Pcgmttime.Second
                  »         1
  3209   3218 Perf_Background_Dpkg.Psinertvs
                  »       5.0
  3210   3219 Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                  »       0
  3211   3220 Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
                  »       2
  3212   3221 Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                  »       0
  3213   3222 Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                  »       2
  3214   3223 Perf_Ads_Dpkg.Pr_Enabled
                  »     False
  3215   3224 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
                  »     true
  3216   3225 CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
                  »     true
  3217   3226 ^Noise_End_Alt_Status                                            Takeoff_Alt_Type
                  » s.Active
  3218   3227 Perf_Dpkg.takeoff_gwt.valid
                  »     True
  3219   3228 Perf_Dpkg.takeoff_gwt.data
                  »     400.0
  3220   3229
  3221   3230
  3222   3231 OUTPUT                                               EXPECTED              TOLERANCE            ACTUAL
                  »         P/F
  3223   3232 -------------------------------------------------- ----------------------------- ------------- ------------------
                  » --------  ----
  3224   3233 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                      False         (N/A)
                  »   FALSE   P
  3225   3234 Perf_Background_Dpkg.Noise_Data.Speed.Valid                         False         (N/A)
                  »   FALSE   P
  3226   3235 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                            True          (N/A)
                  »    TRUE   P
  3227   3236 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                              True          (N/A)
                  »    TRUE   P
  3228   3237 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                             True          (N/A)
                  »    TRUE   P
  3229   3238
  3230   3239
  3231   3240 ====> All 5 Comparisons Passed <====
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3232  3241
3233  3242
3234  3243  TESTID: 16
3235  3244
3236  3245    If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
3237  3246    - Perf hold flag record (Pcholdflags) is copied from guidance
3238  3247    - Descent limit latch record (Pcdeslimlat) is copied from guidance.
3239  3248    - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
            » h.
3240  3249    - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
            » considers
3241  3250      the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
3242  3251    - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
            »  HM if no
3243  3252      deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
            » lear the HM
3244  3253      leg deleted while in decel to HM flag (Pshmdeleted).
3245  3254    - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
            » d, and the
3246  3255      HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
            » t is within
3247  3256      the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
3248  3257    - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
            » l to HM,
3249  3258      then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false.
3250  3259       PERF_SDD_4794_INT
3251  3260
3252  3261    If Guidance considers the aircraft to be in a HA/HF deceleration, then flag indicating that the aircraft is within
3253  3262    the HA/HF decel zone is set to true. Otherwise, it is set to false.
3254  3263    PERF_SDD_4778_INT
3255  3264
3256  3265    The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3257  3266    working flight plan.
3258  3267    PERF_SDD_4328 (PERF_SRD_10166_INT)
3259  3268
3260  3269    ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
            » e first pass
3261  3270    of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
3262  3271    PERF_SDD_08225_INT
3263  3272    --In this test case, it is manual speed mode and flight phase is Approach but this is not the first pass
3264  3273
3265  3274    In this case, the working flight plan is Active,we set the corresponding condition and verify:
3266  3275    (1)Perf hold flag record (Pcholdflags) is copied from guidance
3267  3276    (2)Descent limit latch record (Pcdeslimlat) is copied from guidance
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3268  3277      (3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true
3269  3278      (4)the re-evaluation indication flag is cleared (Repredict_Hm_Decel) (F,T)
3270  3279      (5)clear the HM leg deleted while in decel to HM flag (Pshmdeleted)  (F,F,T)
3271  3280      (6)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
              » e (F,F,F)
3272  3281      (7)flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F, F)
3273  3282      (8)Flag indicating that the aircraft is within the HA/HF decel zone (Pshxpxdecel) is set to false.
3274  3283
3275  3284  REQUIREMENTS UNDER EVALUATION :PERF_SDD_4794_INT,PERF_SDD_4778_INT,PERF_SDD_4328 (PERF_SRD_10166_INT),PERF_SDD_08225_I
              » NT
3276  3285
3277  3286
3278  3287  INPUT                                                                                                     VALUE
3279  3288  ------------------------------------------------------------------------------------------  ------------------
              » --------
3280  3289  Perf_Dpkg.takeoff_gwt.valid
              »     True
3281  3290  Perf_Dpkg.takeoff_gwt.data
              »     400.0
3282  3291  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
              »     False
3283  3292  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
              »     False
3284  3293  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
              »     False
3285  3294  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
              »     False
3286  3295  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
              »     False
3287  3296  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »     True
3288  3297  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »     True
3289  3298  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »     True
3290  3299  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »     True
3291  3300  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »     True
3292  3301  Perf_Dpkg.Min_Gwt
              »     100.0
3293  3302  Perf_Dpkg.Max_Gwt
              »     400.0
3294  3303  Perf_Background_Dpkg.Pcactorsec
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 »    Active
 3295    3304  Perf_Background_Dpkg.Flight_Plan_Type                                                      I
                 » s_Active
 3296    3305  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
                 » Approach
 3297    3306  Perf_Background_Dpkg.Psignorehm
                 »      True
 3298    3307  Perf_Background_Dpkg.Ats_Enable
                 »      True
 3299    3308  Perf_Background_Dpkg.Psautolat
                 »      False
 3300    3309  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
                 »      False
 3301    3310  Perf_Background_Dpkg.Psengout
                 »      True
 3302    3311  Cdk_Vert_Dpkg:Body.Engine_Out_I
                 »      True
 3303    3312  Perf_Dpkg.Repredict_Hm_Decel
                 »      True
 3304    3313  Perf_Background_DPkg.Pscurcas
                 »      5.0
 3305    3314  Perf_Background_DPkg.Pscurmach
                 »      5.0
 3306    3315  Perf_Background_DPkg.Pscurtas
                 »      5.0
 3307    3316  Perf_Despath_Dpkg.Pcdespath.Vgavalid
                 »      True
 3308    3317  Perf_Background_Dpkg.Pstogwtval
                 »      False
 3309    3318  Perf_Background_Dpkg.Pstogwt
                 »      50.0
 3310    3319  Perf_Background_Dpkg.Pcgwind
                 »   Invalid
 3311    3320  Perf_Background_Dpkg.Psgw
                 »      0.0
 3312    3321  Perf_Dpkg.Gross_Weight.Status
                 »    Valid
 3313    3322  Perf_Dpkg.Gross_Weight.Data
                 »    150.0
 3314    3323  Perf_Integration_DPkg.Pcairbrakes
                 »    Fullab
 3315    3324  Perf_Background_Dpkg.Pcacconfig
                 »       5
 3316    3325  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                   »      False
     3317    3326  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                   »      9000.0
     3318    3327  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                   »      265.0
     3319    3328  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                   »      0.55
     3320    3329  Perf_Background_Dpkg.Psstpclbact
                   »      True
     3321    3330  Perf_Background_Dpkg.Psstpdesact
                   »      True
     3322    3331  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                   »      0.0
     3323    3332  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                   »      0.0
     3324    3333  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                   »      0.65
     3325    3334  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                   »      345.0
     3326    3335  Perf_Background_Dpkg.Pccuraltcstr.Valid
                   »      True
     3327    3336  Perf_Background_Dpkg.Pcprebcalt.Valid
                   »      True
     3328    3337  Perf_Background_Dpkg.Pcgmttime.Hour
                   »      1
     3329    3338  Perf_Background_Dpkg.Pcgmttime.Minute
                   »      1
     3330    3339  Perf_Background_Dpkg.Pcgmttime.Second
                   »      1
     3331    3340  Perf_Background_Dpkg.Psinertvs
                   »      5.0
     3332    3341  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                   »      0
     3333    3342  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
                   »      2
     3334    3343  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                   »      0
     3335    3344  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                   »      2
     3336    3345  Perf_Ads_Dpkg.Pr_Enabled
                   »      False
     3337    3346  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
                   »      true
     3338    3347  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »       true
  3339   3348 │^Noise_End_Alt_Status                                                              Takeoff_Alt_Types.
                »  Inactive
  3340   3349 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
                »       True
  3341   3350 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
                »       False
  3342   3351 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
                »       False
  3343   3352 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
                »       False
  3344   3353 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
                »       False
  3345   3354 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
                »       False
  3346   3355 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
                »       false
  3347   3356 │Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
                »       True
  3348   3357 │Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
                »       True
  3349   3358 │Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
                »       True
  3350   3359 │Perf_Dpkg.Pshmdeleted
                »       True
  3351   3360 │Perf_Dpkg.Pcfirstpred(Active)
                »       false
  3352   3361 │Guid_Ext_Dpkg.Va3vertmde                                                           Perf_Ext_Tp
                » kg.Vmspd
  3353   3362 │CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
                »       true
  3354   3363 │Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
                »       True
  3355   3364 │Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
                »       true
  3356   3365 │Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
                »       True
  3357   3366 │Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
                »       True
  3358   3367 │Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
                »       50010
  3359   3368 │Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
                »       true
  3360   3369 │CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »  25001.1
  3361|  3370|Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
              »  25001.0
  3362|  3371|Perf_Background_Dpkg.Pcholdflags.Hmactive
              »      False
  3363|  3372|Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »      True
  3364|  3373|Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »      True
  3365|  3374|Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »      True
  3366|  3375|Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »      True
  3367|  3376|Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »       True
  3368|  3377|Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »      False
  3369|  3378|Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »      False
  3370|  3379|Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »      False
  3371|  3380|Perf_Dpkg.Pshmdeleted
              »      True
  3372|  3381|Perf_Background_Dpkg.Pcholdflags.Consider_Hm
              »      True
  3373|  3382|Perf_Background_Dpkg.Psappspdlat
              »      False
  3374|  3383|Perf_Background_Dpkg.Noise_Data.Altitude.Valid
              »      True
  3375|  3384|Perf_Background_Dpkg.Noise_Data.Speed.Valid
              »      True
  3376|  3385|Perf_Background_Dpkg.Pshmdecel
              »      True
  3377|  3386|Perf_Background_Dpkg.Psconsider_Hm
              »      True
  3378|  3387|Perf_Background_Dpkg.Pshxpxdecel
              »      True
  3379|  3388|Perf_Background_Dpkg.Pcspeedmode                                                        Perf_Ext_Tpk
              » g.Vmecon
  3380|  3389|
  3381|  3390|
  3382|  3391|OUTPUT                                                      EXPECTED            TOLERANCE            ACTUAL
              »          P/F
  3383|  3392|----------------------------------------------------------  ----------------------------  ------------  ------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
      »  --------   ----
3384  3393 Perf_Dpkg.Repredict_Hm_Decel                                       False          (N/A)
      »      FALSE  P
3385  3394 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                           True           (N/A)
      »      TRUE   P
3386  3395 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                             True           (N/A)
      »      TRUE   P
3387  3396 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                           True           (N/A)
      »      TRUE   P
3388  3397 Perf_Background_Dpkg.Pcholdflags.Hmactive                          True           (N/A)
      »      TRUE   P
3389  3398 Perf_Background_Dpkg.Pcholdflags.Hmdecel                           False          (N/A)
      »      FALSE  P
3390  3399 Perf_Background_Dpkg.Pcholdflags.Manhmwarn                         False          (N/A)
      »      FALSE  P
3391  3400 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                         False          (N/A)
      »      FALSE  P
3392  3401 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                         False          (N/A)
      »      FALSE  P
3393  3402 Perf_Background_Dpkg.Pcholdflags.Hmdistval                         False          (N/A)
      »      FALSE  P
3394  3403 Perf_Background_Dpkg.Pcholdflags.Consider_Hm                       False          (N/A)
      »      FALSE  P
3395  3404 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                           True           (N/A)
      »      TRUE   P
3396  3405 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                          True           (N/A)
      »      TRUE   P
3397  3406 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                         True           (N/A)
      »      TRUE   P
3398  3407 Perf_Dpkg.Pshmdeleted                                              False          (N/A)
      »      FALSE  P
3399  3408 Perf_Background_Dpkg.Pshmdecel                                     false          (N/A)
      »      FALSE  P
3400  3409 Perf_Background_Dpkg.Psappspdlat                                   True           (N/A)
      »      TRUE   P
3401  3410 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                     False          (N/A)
      »      FALSE  P
3402  3411 Perf_Background_Dpkg.Noise_Data.Speed.Valid                        False          (N/A)
      »      FALSE  P
3403  3412 Perf_Background_Dpkg.Psconsider_Hm                                 False          (N/A)
      »      FALSE  P
3404  3413 Perf_Background_Dpkg.Pshxpxdecel                                   False          (N/A)
      »      FALSE  P
3405  3414 Perf_Background_Dpkg.Pcspeedmode                 /= Perf_Ext_Tpkg.Vmecon          (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» VMSPD P
3406	3415	
3407	3416	
3408	3417	====> All 22 Comparisons Passed <====
3409	3418	
3410	3419	
3411	3420	TESTID: 17
3412	3421	
3413	3422	If the working flight plan is Active or Temporary, flags related to HM legs shall be set as follows:
3414	3423	- Perf hold flag record (Pcholdflags) is copied from guidance
3415	3424	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
3416	3425	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac » h.
3417	3426	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer » considers
3418	3427	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
3419	3428	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the » HM if no
3420	3429	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c » lear the HM
3421	3430	leg deleted while in decel to HM flag (Pshmdeleted).
3422	3431	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte » d, and the
3423	3432	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf » t is within
3424	3433	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
3425	3434	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece » l to HM,
3426	3435	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
3427	3436	PERF_SDD_4794_INT
3428	3437	If Guidance considers the aircraft to be in a HA/HF deceleration, then flag indicating that the aircraft is within
3429	3438	the HA/HF decel zone is set to true. Otherwise, it is set to false.
3430	3439	PERF_SDD_4778_INT
3431	3440	
3432	3441	The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3433	3442	working flight plan.
3434	3443	PERF_SDD_4328 (PERF_SRD_10166_INT)
3435	3444	
3436	3445	This test case Stores the noise data from the Active Flight Plan when the working flight plan is a Temporary fligh » t plan
3437	3446	as per the change in the Anchor. PERF_SDD_4327(PERF_SRD_12370_INT, PERF_SRD_12404, PERF_SRD_10166_INT)
3438	3447	
3439	3448	This test case verify:
3440	3449	(1)Perf hold flag record (Pcholdflags) is copied from guidance

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3441  3450      (2)Descent limit latch record (Pcdeslimlat) is copied from guidance
3442  3451      (3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
3443  3452      (4)the re-evaluation indication flag is not cleared (Repredict_Hm_Decel not false) (T,T)
3444  3453      (5)HM leg deleted is not cleared while in decel to HM flag (Pshmdeleted)  (T,F,T)
3445  3454      (6)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (T, T)
3446  3455      (7)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
                » e (F,T,T)
3447  3456      (8)Flag indicating that the aircraft is within the HA/HF decel zone (Pshxpxdecel) is set to True.
3448  3457
3449  3458  REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4778_INT,PERF_SDD_4328 (PERF_SRD_10166_INT)
3450  3459                             PERF_SDD_4327(PERF_SRD_12370_INT, PERF_SRD_12404, PERF_SRD_10166_INT)
3451  3460
3452  3461
3453  3462  INPUT                                                                                              VALUE
3454  3463  ------------------------------------------------------------------------------------  -----------------
                » --------
3455  3464  Perf_Dpkg.takeoff_gwt.valid
                »      True
3456  3465  Perf_Background_Dpkg.Pcactorsec                                                                      T
                » emporary
3457  3466  Perf_Dpkg.takeoff_gwt.data
                »      400.0
3458  3467  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
                »      False
3459  3468  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
                »      False
3460  3469  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
                »      False
3461  3470  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
                »      False
3462  3471  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
                »      False
3463  3472  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
                »      True
3464  3473  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
                »      True
3465  3474  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
                »      True
3466  3475  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
                »      True
3467  3476  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
                »      True
3468  3477  Perf_Dpkg.Min_Gwt
                »      100.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3469 │ 3478 │ Perf_Dpkg.Max_Gwt
     │      │ »     400.0
3470 │ 3479 │ Perf_Background_Dpkg.Flight_Plan_Type                              I
     │      │ » s_Active
3471 │ 3480 │ Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
     │      │ »   Descent
3472 │ 3481 │ Perf_Background_Dpkg.Psignorehm
     │      │ »     True
3473 │ 3482 │ Perf_Background_Dpkg.Ats_Enable
     │      │ »     True
3474 │ 3483 │ Perf_Background_Dpkg.Psautolat
     │      │ »     False
3475 │ 3484 │ Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
     │      │ »     False
3476 │ 3485 │ Perf_Background_Dpkg.Psengout
     │      │ »     True
3477 │ 3486 │ Cdk_Vert_Dpkg:Body.Engine_Out_I
     │      │ »     True
3478 │ 3487 │ Perf_Background_DPkg.Pscurcas
     │      │ »     5.0
3479 │ 3488 │ Perf_Background_DPkg.Pscurmach
     │      │ »     5.0
3480 │ 3489 │ Perf_Background_DPkg.Pscurtas
     │      │ »     5.0
3481 │ 3490 │ Perf_Despath_Dpkg.Pcdespath.Vgavalid
     │      │ »     True
3482 │ 3491 │ Perf_Background_Dpkg.Pstogwtval
     │      │ »     False
3483 │ 3492 │ Perf_Background_Dpkg.Pstogwt
     │      │ »     50.0
3484 │ 3493 │ Perf_Background_Dpkg.Pcgwind
     │      │ »   Invalid
3485 │ 3494 │ Perf_Background_Dpkg.Psgw
     │      │ »     0.0
3486 │ 3495 │ Perf_Dpkg.Gross_Weight.Status
     │      │ »    Valid
3487 │ 3496 │ Perf_Dpkg.Gross_Weight.Data
     │      │ »    150.0
3488 │ 3497 │ Perf_Integration_DPkg.Pcairbrakes
     │      │ »    Fullab
3489 │ 3498 │ Perf_Background_Dpkg.Pcacconfig
     │      │ »      5
3490 │ 3499 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
     │      │ »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3491 | 3500 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
     |      |   »     9000.0
3492 | 3501 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
     |      |   »      265.0
3493 | 3502 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
     |      |   »      0.55
3494 | 3503 | Perf_Background_Dpkg.Psstpclbact
     |      |   »     True
3495 | 3504 | Perf_Background_Dpkg.Psstpdesact
     |      |   »     True
3496 | 3505 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     |      |   »      0.0
3497 | 3506 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
     |      |   »      0.0
3498 | 3507 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
     |      |   »      0.65
3499 | 3508 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |      |   »      345.0
3500 | 3509 | Perf_Background_Dpkg.Pccuraltcstr.Valid
     |      |   »     True
3501 | 3510 | Perf_Background_Dpkg.Pcprebcalt.Valid
     |      |   »     True
3502 | 3511 | Perf_Background_Dpkg.Pcgmttime.Hour
     |      |   »      1
3503 | 3512 | Perf_Background_Dpkg.Pcgmttime.Minute
     |      |   »      1
3504 | 3513 | Perf_Background_Dpkg.Pcgmttime.Second
     |      |   »      1
3505 | 3514 | Perf_Background_Dpkg.Psinertvs
     |      |   »      5.0
3506 | 3515 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
     |      |   »      0
3507 | 3516 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
     |      |   »      2
3508 | 3517 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
     |      |   »      0
3509 | 3518 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
     |      |   »      2
3510 | 3519 | Perf_Ads_Dpkg.Pr_Enabled
     |      |   »     False
3511 | 3520 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
     |      |   »     true
3512 | 3521 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
     |      |   »     true
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3513   3522 ^Noise_End_Alt_Status                                                       Takeoff_Alt_Types.
            »    Inactive
3514   3523 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
            »        true
3515   3524 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
            »        True
3516   3525 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
            »        true
3517   3526 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
            »        True
3518   3527 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
            »        True
3519   3528 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
            »      20000
3520   3529 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
            »        79.0
3521   3530 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
            »       100.0
3522   3531 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
            »         0.5
3523   3532 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
            »        50.0
3524   3533 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
            »       False
3525   3534 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
            »        True
3526   3535 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
            »       False
3527   3536 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
            »        True
3528   3537 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
            »       False
3529   3538 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
            »       False
3530   3539 Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Consider_Hm
            »       False
3531   3540 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »       False
3532   3541 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
            »       False
3533   3542 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
            »       False
3534   3543 Perf_Dpkg.Pshmdeleted
            »        True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3535   3544 | Perf_Background_Dpkg.Pcholdflags.Hmactive
            | »      True
3536   3545 | Perf_Background_Dpkg.Pcholdflags.Hmdecel
            | »      False
3537   3546 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            | »      True
3538   3547 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            | »      False
3539   3548 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            | »      True
3540   3549 | Perf_Background_Dpkg.Pcholdflags.Hmdistval
            | »      True
3541   3550 | Perf_Background_Dpkg.Pcholdflags.Consider_Hm
            | »      True
3542   3551 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            | »      True
3543   3552 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
            | »      True
3544   3553 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
            | »      True
3545   3554 | Perf_Dpkg.Repredict_Hm_Decel
            | »      True
3546   3555 | Perf_Background_Dpkg.Psappspdlat
            | »      True
3547   3556 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid
            | »      True
3548   3557 | Perf_Background_Dpkg.Noise_Data.Speed.Valid
            | »      True
3549   3558 | Perf_Background_Dpkg.Pshmdecel
            | »      True
3550   3559 | Perf_Background_Dpkg.Psconsider_Hm
            | »      True
3551   3560 | Perf_Background_Dpkg.Pshxpxdecel
            | »      False
3552   3561 |
3553   3562 |
3554   3563 | OUTPUT                                                        EXPECTED            TOLERANCE          ACTUAL
            | »         P/F
3555   3564 | -------------------------------------------------- ------------------------- ------------ ------------------
            | » -------- ----
3556   3565 | Noise_Abate_Data.NOISE_SPEED
3557   3566 |     FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).NOISE_SPEED       (N/A)              0.0
            | » 0000E+00  P
3558   3567 | Noise_Abate_Data.Noise_Speed_Val
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3559 | 3568 |    FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val        (N/A)
      |      | »      FALSE   P
3560 | 3569 | Noise_Abate_Data.Noise_End_Alt
3561 | 3570 |    FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt          (N/A)            0.0
      |      | » 0000E+00  P
3562 | 3571 | Noise_Abate_Data.Default_Noise_Spd
3563 | 3572 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noise_Spd          (N/A)            0.0
      |      | » 0000E+00  P
3564 | 3573 | Noise_Abate_Data.Default_Noise_Spd_Val
3565 | 3574 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Default_Noise_Spd_Val      (N/A)
      |      | »      FALSE   P
3566 | 3575 | Noise_Abate_Data.Noise_Thrust
3567 | 3576 |    FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Thrust            (N/A)
      |      | »  DRTNONE  P
3568 | 3577 | Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                         True        (N/A)
      |      | »     TRUE   P
3569 | 3578 | Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                           True        (N/A)
      |      | »     TRUE   P
3570 | 3579 | Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                          True        (N/A)
      |      | »     TRUE   P
3571 | 3580 | Perf_Background_Dpkg.Pcholdflags.Hmactive                                        False       (N/A)
      |      | »     FALSE   P
3572 | 3581 | Perf_Background_Dpkg.Pcholdflags.Hmdecel                                         True        (N/A)
      |      | »     TRUE   P
3573 | 3582 | Perf_Background_Dpkg.Pcholdflags.Manhmwarn                                       False       (N/A)
      |      | »     FALSE   P
3574 | 3583 | Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                                       True        (N/A)
      |      | »     TRUE   P
3575 | 3584 | Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                                       False       (N/A)
      |      | »     FALSE   P
3576 | 3585 | Perf_Background_Dpkg.Pcholdflags.Hmdistval                                       False       (N/A)
      |      | »     FALSE   P
3577 | 3586 | Perf_Background_Dpkg.Pcholdflags.Consider_Hm                                     False       (N/A)
      |      | »     FALSE   P
3578 | 3587 | Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                                         False       (N/A)
      |      | »     FALSE   P
3579 | 3588 | Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                                        False       (N/A)
      |      | »     FALSE   P
3580 | 3589 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                                       False       (N/A)
      |      | »     FALSE   P
3581 | 3590 | Perf_Dpkg.Repredict_Hm_Decel                                                /= false        (N/A)
      |      | »     TRUE   P
3582 | 3591 | Perf_Dpkg.Pshmdeleted                                                       /= false        (N/A)
      |      | »     TRUE   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3583  3592 Perf_Background_Dpkg.Pshmdecel                                                    False          (N/A)
           »    FALSE  P
3584  3593 Perf_Background_Dpkg.Psappspdlat                                                  False          (N/A)
           »    FALSE  P
3585  3594 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                                    False          (N/A)
           »    FALSE  P
3586  3595 Perf_Background_Dpkg.Noise_Data.Speed.Valid                                       False          (N/A)
           »    FALSE  P
3587  3596 Perf_Background_Dpkg.Psconsider_Hm                                                False          (N/A)
           »    FALSE  P
3588  3597 Perf_Background_Dpkg.Pshxpxdecel                                                  True           (N/A)
           »    TRUE   P
3589  3598
3590  3599
3591  3600 ====> All 27 Comparisons Passed <====
3592  3601
3593  3602
3594  3603 TESTID: 18
3595  3604
3596  3605     The bleeds data: engine cowl, wing and air conditioning flags is copied from the IO_Engine_Data_Dpkg for the
3597  3606     working flight plan.
3598  3607     PERF_SDD_4328 (PERF_SRD_10166_INT)
3599  3608
3600  3609     The noise data:  altitude, speed and thrust shall be copied from FPLN inputs for the all working flight plans,
3601  3610     by calling Fpln_Ext_Dpkg.Get_Noise_Data except when the working flight plan is a Temporary.  When the working
3602  3611     flight plan is a Temporary flight plan, the noise data is copied from the Active flight plan.
3603  3612     Anchor PERF_SDD_4327 (PERF_SRD_10166_INT, PERF_SRD_12370_INT, PERF_SRD_12404)
3604  3613
3605  3614
3606  3615 INPUT                                                                                                      VALUE
3607  3616 ------------------------------------------------------------------------------------------------ ------------------
           » --------
3608  3617 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
           »    False
3609  3618 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
           »    False
3610  3619 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
           »    False
3611  3620 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
           »    False
3612  3621 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
           »    False
3613  3622 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
           »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3614 │ 3623 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
       │      │ »        True
3615 │ 3624 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
       │      │ »        True
3616 │ 3625 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
       │      │ »        True
3617 │ 3626 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
       │      │ »        True
3618 │ 3627 │ Perf_Dpkg.Min_Gwt
       │      │ »        100.0
3619 │ 3628 │ Perf_Dpkg.Max_Gwt
       │      │ »        400.0
3620 │ 3629 │ Perf_Background_Dpkg.Flight_Plan_Type                                                    I
       │      │ » s_Active
3621 │ 3630 │ Perf_Background_Dpkg.Psignorehm
       │      │ »        True
3622 │ 3631 │ Perf_Background_Dpkg.Ats_Enable
       │      │ »        True
3623 │ 3632 │ Perf_Background_Dpkg.Psautolat
       │      │ »        False
3624 │ 3633 │ Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
       │      │ »        False
3625 │ 3634 │ Perf_Background_Dpkg.Psengout
       │      │ »        True
3626 │ 3635 │ Cdk_Vert_Dpkg:Body.Engine_Out_I
       │      │ »        True
3627 │ 3636 │ Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.hmdecel
       │      │ »        True
3628 │ 3637 │ Perf_Background_Dpkg.Pcholdflags.Hmdecel
       │      │ »        True
3629 │ 3638 │ Perf_Dpkg.Repredict_Hm_Decel
       │      │ »        False
3630 │ 3639 │ Perf_Background_DPkg.Pscurcas
       │      │ »        5.0
3631 │ 3640 │ Perf_Background_DPkg.Pscurmach
       │      │ »        5.0
3632 │ 3641 │ Perf_Background_DPkg.Pscurtas
       │      │ »        5.0
3633 │ 3642 │ Perf_Despath_Dpkg.Pcdespath.Vgavalid
       │      │ »        True
3634 │ 3643 │ Perf_Background_Dpkg.Pstogwtval
       │      │ »        False
3635 │ 3644 │ Perf_Background_Dpkg.Pstogwt
       │      │ »        50.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3636 │ 3645 │ Perf_Background_Dpkg.Pcgwind
     │      │ »    Invalid
3637 │ 3646 │ Perf_Background_Dpkg.Psgw
     │      │ »        0.0
3638 │ 3647 │ Perf_Dpkg.Gross_Weight.Status
     │      │ »      Valid
3639 │ 3648 │ Perf_Dpkg.Gross_Weight.Data
     │      │ »      150.0
3640 │ 3649 │ Perf_Integration_DPkg.Pcairbrakes
     │      │ »    Fullab
3641 │ 3650 │ Perf_Background_Dpkg.Pcacconfig
     │      │ »        5
3642 │ 3651 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
     │      │ »      False
3643 │ 3652 │ Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
     │      │ »    9000.0
3644 │ 3653 │ Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
     │      │ »      265.0
3645 │ 3654 │ Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
     │      │ »      0.55
3646 │ 3655 │ Perf_Background_Dpkg.Psstpclbact
     │      │ »      True
3647 │ 3656 │ Perf_Background_Dpkg.Psstpdesact
     │      │ »      True
3648 │ 3657 │ Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     │      │ »        0.0
3649 │ 3658 │ Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
     │      │ »        0.0
3650 │ 3659 │ Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
     │      │ »        0.65
3651 │ 3660 │ Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     │      │ »      345.0
3652 │ 3661 │ Perf_Background_Dpkg.Pccuraltcstr.Valid
     │      │ »      True
3653 │ 3662 │ Perf_Background_Dpkg.Pcprebcalt.Valid
     │      │ »      True
3654 │ 3663 │ Perf_Background_Dpkg.Pcgmttime.Hour
     │      │ »        1
3655 │ 3664 │ Perf_Background_Dpkg.Pcgmttime.Minute
     │      │ »        1
3656 │ 3665 │ Perf_Background_Dpkg.Pcgmttime.Second
     │      │ »        1
3657 │ 3666 │ Perf_Background_Dpkg.Psinertvs
     │      │ »        5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3658   3667  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
             »        0
3659   3668  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
             »        2
3660   3669  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
             »        0
3661   3670  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
             »        2
3662   3671  Perf_Ads_Dpkg.Pr_Enabled
             »      False
3663   3672  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
             »       true
3664   3673  CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
             »       true
3665   3674  ^Noise_End_Alt_Status                                                           Takeoff_Alt_Types.
             » Inactive
3666   3675  Perf_Dpkg.takeoff_gwt.valid
             »       True
3667   3676  Perf_Background_Dpkg.Pcactorsec                                                               S
             » econdary
3668   3677  Perf_Dpkg.takeoff_gwt.data
             »      400.0
3669   3678
3670   3679
3671   3680  OUTPUT                                                    EXPECTED              TOLERANCE              ACTUAL
             »          P/F
3672   3681  --------------------------------------------------------  ----------------------------  -------------  ------------------
             » --------  ----
3673   3682  Perf_Background_Dpkg.Noise_Data.Altitude.Valid                                 False         (N/A)
             »      FALSE  P
3674   3683  Perf_Background_Dpkg.Noise_Data.Speed.Valid                                    False         (N/A)
             »      FALSE  P
3675   3684  Noise_Abate_Data.NOISE_SPEED
3676   3685    FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).NOISE_SPEED           (N/A)                   0.0
             » 0000E+00  P
3677   3686  Noise_Abate_Data.Noise_Speed_Val
3678   3687  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Val          (N/A)
             »      FALSE  P
3679   3688  Noise_Abate_Data.Noise_End_Alt
3680   3689   FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt           (N/A)                   0.0
             » 0000E+00  P
3681   3690  Noise_Abate_Data.Default_Noise_Spd
3682   3691  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Default_Noise_Spd        (N/A)
             » 0.00000E+00  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3683   3692 Noise_Abate_Data.Default_Noise_Spd_Val
3684   3693 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Default_Noise_Spd_Val        (N/A)
            »          FALSE  P
3685   3694 Noise_Abate_Data.Noise_Thrust
3686   3695   FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Thrust        (N/A)
            »   DRTNONE  P
3687   3696 Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai                                        True        (N/A)
            »        TRUE   P
3688   3697 Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai                                          True        (N/A)
            »        TRUE   P
3689   3698 Perf_Background_Dpkg.Ac_Bleeds.Air_Cond                                         True        (N/A)
            »        TRUE   P
3690   3699
3691   3700
3692   3701 ====> All 11 Comparisons Passed <====
3693   3702
3694   3703
3695   3704 TESTID: 19
3696   3705
3697   3706 *When any of the following conditions are satisfied
3698   3707 (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
3699   3708     Noise_Thrust_Target from VGUIDE is valid.
3700   3709 (2) If all the following conditions are satisfied
3701   3710   -Navigation(Nav Filtered) A/C Altitude is Valid
3702   3711   -Noise End altitude is valid
3703   3712   -Noise_Thrust_Target from VGUIDE is valid
3704   3713   -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
3705   3714    current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
3706   3715    altitude tolerance).
3707   3716   Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
3708   3717   initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
3709   3718   and Perf_Background_Dpkg.Noise_Data.Ramping to true,
3710   3719   Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
3711   3720   PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
3712   3721             PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
3713   3722
3714   3723   in this case,
3715   3724   the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true
3716   3725   the Noise_Thrust_Target from VGUIDE is valid.
3717   3726   so, predicted noise thrust ramping data is initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to
3718   3727   the Noise_Thrust_Target, and Perf_Background_Dpkg.Noise_Data.Ramping to true.
3719   3728
3720   3729 *If  1. the Flex_Takeoff_Temperature validity is true,
3721   3730   *2. the aircraft is in Climb or below, ("Climb" in this testcase)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3722  3731     *3. the aircraft altitude is at or below thrust reduction altitude ("below" in this testcase) and
3723  3732      4. there is not an engine out condition
3724  3733   then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
3725  3734       Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
3726  3735        where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
      »  .
3727  3736          If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
3728  3737             Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
3729  3738          *Else
3730  3739             Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
3731  3740    Otherwise the Flex_Isadev value will be set to zero.
3732  3741 PERF_SDD_5585(PERF_SRD_12437)
3733  3742
3734  3743
3735  3744 INPUT                                                                                          VALUE
3736  3745 ------------------------------------------------------------------------------------  ------------------
      »  --------
3737  3746 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
      »      Climb
3738  3747 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
      »      True
3739  3748 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
      »      21.0
3740  3749 Perf_Background_Dpkg.Psorgalt
      »  36090.0
3741  3750 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                               (10.
      »  6, True)
3742  3751 Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
      »      True
3743  3752 Perf_Background_Dpkg.Flex_Isadev.Data
      »      5.0
3744  3753 Perf_Background_Dpkg.Noise_Data.Tspd                                                           (0.0
      »  , False)
3745  3754 Perf_Background_Dpkg.Noise_Data.Ramping
      »      False
3746  3755 Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
      »      156
3747  3756 Curacalt
      »      155.0
3748  3757 Engine_Out_I
      »      False
3749  3758
3750  3759
3751  3760 OUTPUT                                             EXPECTED            TOLERANCE          ACTUAL
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »           P/F
 3752  3761  ----------------------------------------------  -----------------------------  --------------  -------------------
              » --------  ----
 3753  3762  Perf_Background_Dpkg.Flex_Isadev.Data                                77.501508            0.001                     7.7
              » 5015E+01  P
 3754  3763  Perf_Background_Dpkg.Noise_Data.Tspd.Data                                  10.6            0.001                     1.0
              » 6000E+01  P
 3755  3764  Perf_Background_Dpkg.Noise_Data.Tspd.Valid                                 True            (N/A)
              »     TRUE  P
 3756  3765  Perf_Background_Dpkg.Noise_Data.Ramping                                    True            (N/A)
              »     TRUE  P
 3757  3766
 3758  3767
 3759  3768  ====> All 4 Comparisons Passed <====
 3760  3769
 3761  3770
 3762  3771  TESTID: 20
 3763  3772
 3764  3773  *When any of the following conditions are satisfied
 3765  3774  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
 3766  3775      Noise_Thrust_Target from VGUIDE is valid.
 3767  3776  (2) If all the following conditions are satisfied
 3768  3777     -Navigation(Nav Filtered) A/C Altitude is Valid
 3769  3778     -Noise End altitude is valid
 3770  3779     -Noise_Thrust_Target from VGUIDE is valid
 3771  3780     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
 3772  3781      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
 3773  3782      altitude tolerance).
 3774  3783     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
 3775  3784     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
 3776  3785     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
 3777  3786     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
 3778  3787     PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
 3779  3788                    PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
 3780  3789
 3781  3790     in this case,
 3782  3791     the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
 3783  3792     Navigation(Nav Filtered) A/C Altitude is Valid
 3784  3793     Noise End altitude is valid
 3785  3794     the Noise_Thrust_Target from VGUIDE is valid.
 3786  3795     the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
 3787  3796     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
 3788  3797     so, predicted noise thrust ramping data is initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to
 3789  3798     the Noise_Thrust_Target, and Perf_Background_Dpkg.Noise_Data.Ramping to true.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3790  3799
3791  3800  If *1. the Flex_Takeoff_Temperature validity is true,
3792  3801     2. the aircraft is in Climb or below,
3793  3802     3. the aircraft altitude is at or below thrust reduction altitude and
3794  3803     4. there is not an engine out condition
3795  3804   then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
3796  3805       Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
3797  3806        where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
           »  .
3798  3807           If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
3799  3808               Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
3800  3809             Else
3801  3810               Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
3802  3811   *Otherwise the Flex_Isadev value will be set to zero.
3803  3812  PERF_SDD_5585(PERF_SRD_12437)
3804  3813
3805  3814
3806  3815  INPUT                                                                                         VALUE
3807  3816  ------------------------------------------------------------------------------------------- ------------------
           »  --------
3808  3817  Perf_Background_Dpkg.Pcactorsec
           »     Active
3809  3818  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           »     Climb
3810  3819  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
           »     False
3811  3820  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
           »     21.0
3812  3821  Perf_Background_Dpkg.Psorgalt
           »  36090.0
3813  3822  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                              (10.
           »  6, True)
3814  3823  Navigation_Data.Aircraft_Altitude_Valid
           »     True
3815  3824  Navigation_Data.Aircraft_Altitude
           »     53.20
3816  3825  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status       Takeoff_Alt_Type
           »  s.Active
3817  3826  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
           »     False
3818  3827  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
           »     90.0
3819  3828  Perf_Background_Dpkg.Psengout
           »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3820 | 3829 | Perf_Background_Dpkg.Flex_Isadev.Data
     |      | »        5.0
3821 | 3830 | Perf_Background_Dpkg.Noise_Data.Tspd                                                                       (0.0
     |      | » , False)
3822 | 3831 | Perf_Background_Dpkg.Noise_Data.Ramping
     |      | »       False
3823 | 3832 | Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
     |      | »        156
3824 | 3833 | Curacalt
     |      | »       155.0
3825 | 3834 |
3826 | 3835 |
3827 | 3836 | OUTPUT                                                     EXPECTED              TOLERANCE              ACTUAL
     |      | »           P/F
3828 | 3837 | ------------------------------------------------------  ----------------------------  -------------  ------------------
     |      | » --------  ----
3829 | 3838 | Perf_Background_Dpkg.Flex_Isadev.Data                             0.0            0.001                 0.0
     |      | » 0000E+00  P
3830 | 3839 | Perf_Background_Dpkg.Noise_Data.Tspd.Data                        10.6            0.001                 1.0
     |      | » 6000E+01  P
3831 | 3840 | Perf_Background_Dpkg.Noise_Data.Tspd.Valid                       True            (N/A)
     |      | »     TRUE  P
3832 | 3841 | Perf_Background_Dpkg.Noise_Data.Ramping                          True            (N/A)
     |      | »     TRUE  P
3833 | 3842 |
3834 | 3843 |
3835 | 3844 | ====> All 4 Comparisons Passed <====
3836 | 3845 |
3837 | 3846 |
3838 | 3847 | TESTID: 21
3839 | 3848 |
3840 | 3849 | *When any of the following conditions are satisfied
3841 | 3850 | (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
3842 | 3851 |     Noise_Thrust_Target from VGUIDE is valid.
3843 | 3852 | (2) If all the following conditions are satisfied
3844 | 3853 |     -Navigation(Nav Filtered) A/C Altitude is Valid
3845 | 3854 |     -Noise End altitude is valid
3846 | 3855 |     -Noise_Thrust_Target from VGUIDE is valid
3847 | 3856 |     -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
3848 | 3857 |      current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ftaltitude tolerance).
3849 | 3858 |     Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
3850 | 3859 |     initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
3851 | 3860 |     and Perf_Background_Dpkg.Noise_Data.Ramping to true,
3852 | 3861 |     Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                │    » False
  3889 │ 3898 │ Navigation_Data.Aircraft_Altitude_Valid
                │    »      True
  3890 │ 3899 │ Navigation_Data.Aircraft_Altitude
                │    »      53.20
  3891 │ 3900 │ Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status          Takeoff_Alt_Type
                │    » s.Active
  3892 │ 3901 │ Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
                │    »      False
  3893 │ 3902 │ Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
                │    »      90.0
  3894 │ 3903 │ Perf_Background_Dpkg.Psengout
                │    »      False
  3895 │ 3904 │ Perf_Background_Dpkg.Flex_Isadev.Data
                │    »       5.0
  3896 │ 3905 │ Perf_Background_Dpkg.Noise_Data.Ramping
                │    »      True
  3897 │ 3906 │ Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
                │    »      156
  3898 │ 3907 │ Curacalt
                │    »      155.0
  3899 │ 3908 │
  3900 │ 3909 │
  3901 │ 3910 │ OUTPUT                                                   EXPECTED            TOLERANCE            ACTUAL
                │    »          P/F
  3902 │ 3911 │ -----------------------------------------------------  ---------------------------  ------------  ------------------
                │    » --------  ----
  3903 │ 3912 │ Perf_Background_Dpkg.Flex_Isadev.Data                                0.0           0.001                0.0
                │    » 0000E+00  P
  3904 │ 3913 │ Perf_Background_Dpkg.Noise_Data.Ramping                            False           (N/A)
                │    »     FALSE  P
  3905 │ 3914 │
  3906 │ 3915 │
  3907 │ 3916 │ ====> All 2 Comparisons Passed <====
  3908 │ 3917 │
  3909 │ 3918 │
  3910 │ 3919 │ TESTID: 22
  3911 │ 3920 │
  3912 │ 3921 │ If  1. the Flex_Takeoff_Temperature validity is true,
  3913 │ 3922 │      2. the aircraft is in Climb or below,
  3914 │ 3923 │    *3. the aircraft altitude is at or below thrust reduction altitude and
  3915 │ 3924 │      4. there is not an engine out condition
  3916 │ 3925 │    then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
  3917 │ 3926 │         Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
3918 | 3927 |        where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
     |      | » .
3919 | 3928 |            If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
3920 | 3929 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
3921 | 3930 |            Else
3922 | 3931 |                Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
3923 | 3932 | *Otherwise the Flex_Isadev value will be set to zero.
3924 | 3933 | PERF_SDD_5585(PERF_SRD_12437)
3925 | 3934 |
3926 | 3935 | If Noise End Altitude status is active i.e., A/C is below entered Noise End Altitude or if the A/C is currently in Noi
     |      | » se Ramp
3927 | 3936 | segment and no engine out condition exist then the following noise data shall be set up for background's usage:
3928 | 3937 | PERF_SDD_5607_INT
3929 | 3938 |
3930 | 3939 | The validity of Perf_Background_Dpkg.Noise_Data.Altitude shall be set to valid and its value is set to Noise_End_Alt o
     |      | » btained
3931 | 3940 | from FPLN.
3932 | 3941 | PERF_SDD_5608_INT
3933 | 3942 |
3934 | 3943 | If Noise Speed (Noise_Speed_Val) from FPLN is valid then the validity of Perf_Background_Dpkg.Noise_Data.Speed shall b
     |      | » e set to
3935 | 3944 | valid and its value is set to Noise_Speed obtained from FPLN, otherwise its validity is set to invalid.
3936 | 3945 | PERF_SDD_5610_INT (Here Noise Speed (Noise_Speed_Val) from FPLN is invalid)
3937 | 3946 |
3938 | 3947 | If Noise TSPD from FPLN  is valid than the validity of Perf_Background_Dpkg.Noise_Data.TSPD shall be set to valid and
     |      | » its
3939 | 3948 | value is set to Noise_TSPD obtained from FPLN, otherwise its validity is set to Invalid.
3940 | 3949 | PERF_SDD_5611_INT (Here Noise TSPD from FPLN is invalid.)
3941 | 3950 |
3942 | 3951 | When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follows
3943 | 3952 |        If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
3944 | 3953 |        If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
3945 | 3954 | This TC checks for negative conditions when CAS is selected, but A/C is not above crossover altitude.
3946 | 3955 | PERF_SDD_07544_INT
3947 | 3956 |
3948 | 3957 |
3949 | 3958 | INPUT                                                                                              VALUE
3950 | 3959 | ----------------------------------------------------------------------------------------------- ------------------
     |      | » --------
3951 | 3960 | ^Noise_End_Alt_Status                                                                         Takeoff_Alt_Type
     |      | » s.Active
3952 | 3961 | ^Noise_Speed_Val
     |      | »     False
3953 | 3962 | ^Noise_TSPD.valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False
3954	3963	^Noise_End_Alt
		» 300.0
3955	3964	Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
		» True
3956	3965	Cdk_Vert_Dpkg:Body.Engine_Out_I
		» False
3957	3966	Perf_Background_Dpkg.Pcactorsec
		» Active
3958	3967	Perf_Background_Dpkg.Noise_Data.Altitude.Valid
		» False
3959	3968	Perf_Background_Dpkg.Noise_Data.Altitude.Data
		» 0.0
3960	3969	Perf_Background_Dpkg.Noise_Data.Speed.Valid
		» True
3961	3970	Perf_Background_Dpkg.Noise_Data.Tspd.Valid
		» True
3962	3971	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
		» Climb
3963	3972	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
		» True
3964	3973	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
		» 21.0
3965	3974	Perf_Background_Dpkg.Psorgalt
		» 36090.0
3966	3975	Perf_Background_Dpkg.Flex_Isadev.Data
		» 5.0
3967	3976	Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
		» 156
3968	3977	Curacalt
		» 156.5
3969	3978	Perf_Background_Dpkg.Pcspeedmode Perf_Ext_Tp
		» kg.Vmspd
3970	3979	Perf_Background_Dpkg.Pcmanspd.Machvalid
		» True
3971	3980	Perf_Background_Dpkg.Psacalt
		» 10000.0
3972	3981	Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
		» 20000.0
3973	3982	Machmode
		» False
3974	3983	
3975	3984	
3976	3985	OUTPUT EXPECTED TOLERANCE ACTUAL

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »          P/F
 3977│ 3986 ------------------------------------------------ ------------------------------ ------------- ------------------
              » --------  ----
 3978│ 3987 Perf_Background_Dpkg.Noise_Data.Tspd.Valid                              False           (N/A)
              »    FALSE  P
 3979│ 3988 Perf_Background_Dpkg.Flex_Isadev.Data                                   0.0             0.001                    0.0
              » 0000E+00  P
 3980│ 3989 Perf_Background_Dpkg.Noise_Data.Altitude.Valid                         True            (N/A)
              »    TRUE  P
 3981│ 3990 Perf_Background_Dpkg.Noise_Data.Altitude.Data                          300.0           0.001                    3.0
              » 0000E+02  P
 3982│ 3991 Perf_Background_Dpkg.Noise_Data.Speed.Valid                            False           (N/A)
              »    FALSE  P
 3983│ 3992 Perf_Background_Dpkg.Noise_Data.Tspd.Valid                             False           (N/A)
              »    FALSE  P
 3984│ 3993 Perf_Background_Dpkg.Pcmanspd.Machvalid                                 True            (N/A)
              »    TRUE  P
 3985│ 3994
 3986│ 3995
 3987│ 3996 ====> All 7 Comparisons Passed <====
 3988│ 3997
 3989│ 3998
 3990│ 3999 TESTID: 23
 3991│ 4000
 3992│ 4001 If  1. the Flex_Takeoff_Temperature validity is true,
 3993│ 4002    2. the aircraft is in Climb or below,
 3994│ 4003   *3. the aircraft altitude is at or below thrust reduction altitude and
 3995│ 4004    4. there is not an engine out condition
 3996│ 4005  then the Flex ISA temperature deviation (Flex_Isadev) value shall be computed as follows:
 3997│ 4006      Flex_Isadev = Flex_Takeoff_Temperature - Rwy_Temp
 3998│ 4007       where: Flex_Takeoff_Temperature = Flex temperature entered by the pilot on the Perf Take-off page, in degrees C
              » .
 3999│ 4008          If Origin Reference Altitude (Psorgalt) is below standard tropopause altitude then
 4000│ 4009             Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * Psorgalt
 4001│ 4010          Else
 4002│ 4011             Rwy_Temp = SEA_LEVEL_TEMP - TEMP_LAPSE_RATE * DEFAULT_TROPOPAUSE_ALT
 4003│ 4012   *Otherwise the Flex_Isadev value will be set to zero.
 4004│ 4013 PERF_SDD_5585(PERF_SRD_12437)
 4005│ 4014
 4006│ 4015 When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follows
 4007│ 4016       If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
 4008│ 4017       If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
 4009│ 4018 This TC checks for negative conditions when MACH is selected, but A/C is not below crossover altitude.
 4010│ 4019 PERF_SDD_07544_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4011│ 4020│
4012│ 4021│
4013│ 4022│INPUT                                                                                              VALUE
4014│ 4023│------------------------------------------------------------------------------------ ------------------
     │     │» --------
4015│ 4024│CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     │     │»     Climb
4016│ 4025│Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
     │     │»       True
4017│ 4026│Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
     │     │»       21.0
4018│ 4027│Perf_Background_Dpkg.Psorgalt
     │     │»    36090.0
4019│ 4028│Perf_Background_Dpkg.Flex_Isadev.Data
     │     │»        5.0
4020│ 4029│Thrust_Reduction_Alt.Data(Fprequestrec_Types.Takeoff).Altitude
     │     │»        156
4021│ 4030│Curacalt
     │     │»      155.0
4022│ 4031│Engine_Out_I
     │     │»       True
4023│ 4032│Perf_Background_Dpkg.Pcspeedmode                                                                Perf_Ext_Tp
     │     │» kg.Vmspd
4024│ 4033│Perf_Background_Dpkg.Pcmanspd.Casvalid
     │     │»       True
4025│ 4034│Perf_Background_Dpkg.Psacalt
     │     │»    20000.0
4026│ 4035│Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
     │     │»    10000.0
4027│ 4036│Machmode
     │     │»       True
4028│ 4037│
4029│ 4038│
4030│ 4039│OUTPUT                                                         EXPECTED              TOLERANCE             ACTUAL
     │     │»           P/F
4031│ 4040│------------------------------------------------------ ------------------------------ ------------- ------------------
     │     │» --------  ----
4032│ 4041│Perf_Background_Dpkg.Flex_Isadev.Data                                              0.0       0.001                0.0
     │     │» 0000E+00  P
4033│ 4042│Perf_Background_Dpkg.Pcmanspd.Casvalid                                           True       (N/A)
     │     │»       TRUE  P
4034│ 4043│
4035│ 4044│
4036│ 4045│====> All 2 Comparisons Passed <====
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4037   4046
4038   4047
4039   4048  TESTID: 24
4040   4049
4041   4050     A/C is in Cruise and current itin is Current Mode Predictions (Normal) so target speed is
4042   4051     limited by calling the speed envelope module.
4043   4052
4044   4053     The previous non-envelope-limited target speed is set to the current VG MACH speed target
4045   4054     and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4046   4055     if all of the following are true:
4047   4056       - A VG speed change target is not currently being applied and the flight phase is less than Approach;
4048   4057       - Current flight phase is cruise and the aircraft is at above 24950 ft
4049   4058         and the current VG CAS target is below of Climb speed limit speed.
4050   4059
4051   4060     If the current itinerary is one of the following:
4052   4061     - Active Primary Flight Plan Predictions;
4053   4062     - Temporary Primary Flight Plan Predictions;
4054   4063     -Current mode predictions(Normal or High priority);
4055   4064     - Optimum altitude predictions;
4056   4065     then the descent path shall be retrieved from the descent path object
4057   4066     manager via a call to Perf_Ext_Despath.Pgvdespath.
4058   4067
4059   4068     When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follow
              » s
4060   4069         If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4061   4070         If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4062   4071     CAS is selected on FCU and A/C is above crossover altitude in this TC.
4063   4072
4064   4073     REQUIREMENTS UNDER EVALUATION : PERF_SDD_3055_INT, PERF_SDD_3053_INT, PERF_SDD_3888_INT, PERF_SDD_07544_INT.
4065   4074     SUPPORTING REQUIREMENTS : N/A
4066   4075
4067   4076
4068   4077  INPUT                                                                                                         VALUE
4069   4078  ------------------------------------------------------------------------------------------------------  ------------------
              » --------
4070   4079  Navigation_Data.Aircraft_Altitude
              »  25000.0
4071   4080  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
              »     False
4072   4081  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
              »     False
4073   4082  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
              »     False
4074   4083  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              │       │ »       False
       4075   │  4084 │ CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
              │       │ »       False
       4076   │  4085 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              │       │ »       True
       4077   │  4086 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              │       │ »       True
       4078   │  4087 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              │       │ »       True
       4079   │  4088 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              │       │ »       True
       4080   │  4089 │ CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              │       │ »       True
       4081   │  4090 │ Perf_Dpkg.Min_Gwt
              │       │ »       100.0
       4082   │  4091 │ Perf_Dpkg.Max_Gwt
              │       │ »       400.0
       4083   │  4092 │ Perf_Background_Dpkg.Pcactorsec                                              S
              │       │ » econdary
       4084   │  4093 │ Perf_Background_Dpkg.Psignorehm
              │       │ »       True
       4085   │  4094 │ Perf_Background_Dpkg.Flight_Plan_Type                                        Copy_Fro
              │       │ » m_Active
       4086   │  4095 │ Perf_Background_Dpkg.Pcfltphase
              │       │ » Approach
       4087   │  4096 │ Perf_Background_Dpkg.Ats_Enable
              │       │ »       True
       4088   │  4097 │ CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              │       │ »    Cruise
       4089   │  4098 │ Perf_Background_Dpkg.Psacalt
              │       │ »   25000.0
       4090   │  4099 │ Perf_Database_Dpkg.Psmmo
              │       │ »     0.45
       4091   │  4100 │ Perf_Background_Dpkg.Pszfw
              │       │ »     300.0
       4092   │  4101 │ Perf_Background_Dpkg.Psblockfuel
              │       │ »      50.0
       4093   │  4102 │ Perf_Background_Dpkg.Pstaxifuel
              │       │ »      25.0
       4094   │  4103 │ Perf_Background_Dpkg.Psairborne
              │       │ »       True
       4095   │  4104 │ Perf_Background_Dpkg.Psautolat
              │       │ »      False
       4096   │  4105 │ Guid_Ext_Dpkg.Gcxxlatautoc
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »        True
   4097  4106 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
              »        False
   4098  4107 Perf_Background_Dpkg.Psengout
              »        True
   4099  4108 Cdk_Vert_Dpkg:Body.Engine_Out_I
              »        True
   4100  4109 Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »        True
   4101  4110 Perf_Dpkg.Repredict_Hm_Decel
              »        True
   4102  4111 Perf_Background_DPkg.Pshmdecel
              »        True
   4103  4112 Perf_Background_Dpkg.Pcholdflags.Hmactive
              »        True
   4104  4113 Perf_Ads_Dpkg.Fi_Enabled
              »        True
   4105  4114 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »        False
   4106  4115 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »        True
   4107  4116 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »        True
   4108  4117 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »        True
   4109  4118 Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »        True
   4110  4119 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »        True
   4111  4120 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »        True
   4112  4121 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »        True
   4113  4122 Perf_Background_Dpkg.Psappspdlat
              »        True
   4114  4123 Perf_Dpkg.Pcengoutprds
              »     Altpln
   4115  4124 Perf_Background_Dpkg.Pcpathref
              »     Onpath
   4116  4125 Guid_Ext_Dpkg.Va3Vertmde                                                         Perf_Ext_Tpk
              » g.Vmnone
   4117  4126 Perf_Background_DPkg.Pscurcas
              »        5.0
   4118  4127 Perf_Background_DPkg.Pscurmach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »        5.0
  4119      4128  Perf_Background_DPkg.Pscurtas
                    »        5.0
  4120      4129  Perf_Background_Dpkg.Pcitin.Itinerary                                                        Current_Mo
                    » de_Preds
  4121      4130  Perf_Background_Dpkg.Psenginesoff
                    »        True
  4122      4131  Perf_Despath_Dpkg.Pcdespath.Vgavalid
                    »        True
  4123      4132  Perf_Background_Dpkg.Pstogwtval
                    »        False
  4124      4133  Perf_Background_Dpkg.Pstogwt
                    »       50.0
  4125      4134  Perf_Background_Dpkg.Pcgwind
                    »    Invalid
  4126      4135  Perf_Background_Dpkg.Psgw
                    »        0.0
  4127      4136  Perf_Dpkg.Gross_Weight.Status
                    »      Valid
  4128      4137  Perf_Dpkg.Gross_Weight.Data
                    »      150.0
  4129      4138  Perf_Integration_DPkg.Pcairbrakes
                    »     Fullab
  4130      4139  Perf_Background_Dpkg.Pcacconfig
                    »        5
  4131      4140  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                    »        True
  4132      4141  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                    »    25004.0
  4133      4142  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                    »      400.0
  4134      4143  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                    »      False
  4135      4144  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                    »      265.0
  4136      4145  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                    »      0.55
  4137      4146  Perf_Background_Dpkg.Psstpclbact
                    »        True
  4138      4147  Perf_Background_Dpkg.Psstpdesact
                    »        True
  4139      4148  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                    »        0.0
  4140      4149  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
          |        |  »         0.0
     4141 |   4150 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
          |        |  »         0.65
     4142 |   4151 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
          |        |  »         345.0
     4143 |   4152 | Perf_Background_Dpkg.Pccuraltcstr.Valid
          |        |  »         True
     4144 |   4153 | Perf_Background_Dpkg.Pcprebcalt.Valid
          |        |  »         True
     4145 |   4154 | Perf_Background_Dpkg.Pcgmttime.Hour
          |        |  »         1
     4146 |   4155 | Perf_Background_Dpkg.Pcgmttime.Minute
          |        |  »         1
     4147 |   4156 | Perf_Background_Dpkg.Pcgmttime.Second
          |        |  »         1
     4148 |   4157 | Perf_Background_Dpkg.Psinertvs
          |        |  »         5.0
     4149 |   4158 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
          |        |  »         0
     4150 |   4159 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
          |        |  »         2
     4151 |   4160 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
          |        |  »         0
     4152 |   4161 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
          |        |  »         2
     4153 |   4162 | Perf_Ads_Dpkg.Pr_Enabled
          |        |  »         False
     4154 |   4163 | ATC_DISCRETES_PKG:body.Adson_Flag
          |        |  »         True
     4155 |   4164 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
          |        |  »         True
     4156 |   4165 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
          |        |  »         False
     4157 |   4166 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
          |        |  »         True
     4158 |   4167 | Perf_Background_Dpkg.Pcoldcasmchi
          |        |  »         Cas
     4159 |   4168 | Perf_Ads_Dpkg.Ii_Enabled
          |        |  »         False
     4160 |   4169 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
          |        |  »         true
     4161 |   4170 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
          |        |  »         true
     4162 |   4171 | ^Noise_End_Alt_Status                                              Takeoff_Alt_Type
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                » s.Active
  4163    4172 CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
                »       (0)
  4164    4173 Perf_Background_Dpkg.Pcitin.Flight_Plan
                »    Active
  4165    4174 Perf_Background_Dpkg.Pcspeedmode                                                                         Perf_Ext_Tp
                » kg.Vmspd
  4166    4175 Perf_Background_Dpkg.Pcmanspd.Machvalid
                »      True
  4167    4176 Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
                »      50.0
  4168    4177 Machmode
                »     False
  4169    4178
  4170    4179
  4171    4180 OUTPUT                                                      EXPECTED                   TOLERANCE           ACTUAL
                »          P/F
  4172    4181 --------------------------------------------------  ----------------------------  -------------  ------------------
                » --------  ----
  4173    4182 CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec                                    True           (N/A)
                »    TRUE   P
  4174    4183
  4175    4184
  4176    4185 INPUT                                                                                                      VALUE
  4177    4186 --------------------------------------------------------------------------------------------  ------------------
                » --------
  4178    4187 Perf_Background_Dpkg.Pcfltphase
                »    Cruise
  4179    4188 Perf_Background_Dpkg.Psacalt
                »   25001.0
  4180    4189 Perf_Integration_Dpkg.Psoldnoentgt
                »       1.0
  4181    4190 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                »     False
  4182    4191 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                »     False
  4183    4192
  4184    4193
  4185    4194 OUTPUT                                                      EXPECTED                   TOLERANCE           ACTUAL
                »          P/F
  4186    4195 --------------------------------------------------  ----------------------------  -------------  ------------------
                » --------  ----
  4187    4196 Perf_Integration_Dpkg.Psoldnoentgt                                                 0.0            0.001               0.0
                » 0000E+00  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4188    4197 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec                          True          (N/A)
             »     TRUE  P
4189    4198 Perf_Background_Dpkg.Pcoldcasmchi                         Fmcs_Base_Types.Mach       (N/A)
             »     MACH  P
4190    4199 Perf_Background_Dpkg.Pcmanspd.Machvalid                                 False         (N/A)
             »     FALSE  P
4191    4200
4192    4201
4193    4202 ====> All 5 Comparisons Passed <====
4194    4203
4195    4204
4196    4205 TESTID: 25
4197    4206
4198    4207    A/C is in Cruise and current itin is Current Mode Predictions (High priority) so target speed is
4199    4208    limited by calling the speed envelope module.
4200    4209
4201    4210    If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
4202    4211    - Perf hold flag record (Pcholdflags) is copied from guidance
4203    4212    - Descent limit latch record (Pcdeslimlat) is copied from guidance.
4204    4213    - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
             » h.
4205    4214    - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
             » considers
4206    4215      the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
4207    4216    - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
             »  HM if no
4208    4217      deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
             » lear the HM
4209    4218      leg deleted while in decel to HM flag (Pshmdeleted).
4210    4219    - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
             » d, and the
4211    4220      HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
             » t is within
4212    4221      the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
4213    4222    - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
             » l to HM,
4214    4223      then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
4215    4224    PERF_SDD_4794_INT
4216    4225
4217    4226    The previous non-envelope-limited target speed is set to the current VG MACH speed target
4218    4227    and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4219    4228    if all of the following are true:
4220    4229      - A VG speed change target is not currently being applied and the flight phase is less than Approach
4221    4230        (here flight phase is cruise);
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4222  4231           - Current flight phase is cruise and the aircraft is at above 24950 ft
4223  4232              and the Climb speed limit altitude is not included or the aircraft is at or above climb speed limit altitude;
4224  4233
4225  4234       If the current itinerary is one of the following:
4226  4235       - Active Primary Flight Plan Predictions;
4227  4236       - Temporary Primary Flight Plan Predictions;
4228  4237       -Current mode predictions(Normal or High priority);
4229  4238       - Optimum altitude predictions;
4230  4239       then the descent path shall be retrieved from the descent path object
4231  4240       manager via a call to Perf_Ext_Despath.Pgvdespath.
4232  4241
4233  4242       When flight phase is prior to descent phase with manual speed mode, then the speed validity shall be set as follow
      »  s
4234  4243           If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
4235  4244           If CAS is selected on FCU and A/C is above crossover altitude then Valid flag for MACH speed is set to False.
4236  4245       MACH is selected on FCU and A/C is below crossover altitude in this TC.
4237  4246
4238  4247       In this case, we set the corresponding condition and verify:
4239  4248       (1)Repredict_Hm_Decel is Remain false as the Initialization.  (F,F)
4240  4249       (2)the HM leg deleted while in decel to HM flag is not Cleared(Pshmdeleted)  (F,T,T)
4241  4250       (3)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
      »  e (T,F,T)
4242  4251       (4)flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F, T)
4243  4252       (5)Perf hold flag record (Pcholdflags) is copied from guidance
4244  4253       (6)Descent limit latch record (Pcdeslimlat) is copied from guidance
4245  4254       (7)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
4246  4255
4247  4256       REQUIREMENTS UNDER EVALUATION : PERF_SDD_3055_INT, PERF_SDD_3053_INT, PERF_SDD_3888_INT,
4248  4257                                       PERF_SDD_07544_INT, PERF_SDD_4794_INT
4249  4258       SUPPORTING REQUIREMENTS : N/A
4250  4259
4251  4260
4252  4261 INPUT                                                                                                         VALUE
4253  4262 ------------------------------------------------------------------------------------------------- ------------------
      »  --------
4254  4263 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
      »      False
4255  4264 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
      »      False
4256  4265 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
      »      False
4257  4266 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
      »      False
4258  4267 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False	
4259	4268	CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid	
		» True	
4260	4269	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data	
		» True	
4261	4270	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
4262	4271	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
4263	4272	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
4264	4273	Perf_Dpkg.Min_Gwt	
		» 100.0	
4265	4274	Perf_Dpkg.Max_Gwt	
		» 400.0	
4266	4275	Perf_Background_Dpkg.Pcactorsec	
		» Active	
4267	4276	Perf_Background_Dpkg.Psignorehm	
		» True	
4268	4277	Perf_Background_Dpkg.Flight_Plan_Type	Copy_Fro
		» m_Active	
4269	4278	Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase	
		» Cruise	
4270	4279	Perf_Background_Dpkg.Ats_Enable	
		» True	
4271	4280	Perf_Background_Dpkg.Psacalt	
		» 25001.0	
4272	4281	Perf_Database_Dpkg.Psmmo	
		» 0.45	
4273	4282	Perf_Background_Dpkg.Pszfw	
		» 300.0	
4274	4283	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
4275	4284	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
4276	4285	Perf_Background_Dpkg.Psairborne	
		» True	
4277	4286	Perf_Background_Dpkg.Psautolat	
		» False	
4278	4287	Guid_Ext_Dpkg.Gcxxlatautoc	
		» True	
4279	4288	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
4280	4289	Perf_Background_Dpkg.Psengout	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              │    » True
4281 │ 4290 │ Cdk_Vert_Dpkg:Body.Engine_Out_I
              │    » True
4282 │ 4291 │ Perf_Dpkg.Repredict_Hm_Decel
              │    » False
4283 │ 4292 │ Perf_Background_DPkg.Pshmdecel
              │    » True
4284 │ 4293 │ Perf_Background_Dpkg.Pcholdflags.Hmactive
              │    » True
4285 │ 4294 │ Perf_Ads_Dpkg.Fi_Enabled
              │    » false
4286 │ 4295 │ Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              │    » True
4287 │ 4296 │ Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              │    » True
4288 │ 4297 │ Perf_Background_Dpkg.Pcholdflags.Hmdistval
              │    » True
4289 │ 4298 │ Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              │    » True
4290 │ 4299 │ Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              │    » True
4291 │ 4300 │ Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              │    » True
4292 │ 4301 │ Perf_Dpkg.Pcengoutprds
              │    » Altpln
4293 │ 4302 │ Perf_Background_Dpkg.Pcpathref
              │    » Onpath
4294 │ 4303 │ Guid_Ext_Dpkg.Va3Vertmde                                                        Perf_Ext_Tp
              │ » kg.Vmspd
4295 │ 4304 │ Perf_Background_DPkg.Pscurcas
              │    » 5.0
4296 │ 4305 │ Perf_Background_DPkg.Pscurmach
              │    » 5.0
4297 │ 4306 │ Perf_Background_DPkg.Pscurtas
              │    » 5.0
4298 │ 4307 │ Perf_Background_Dpkg.Pcitin.Itinerary                                           Current_Mod
              │ » e_Hi_Pri
4299 │ 4308 │ Perf_Background_Dpkg.Psenginesoff
              │    » True
4300 │ 4309 │ Perf_Despath_Dpkg.Pcdespath.Vgavalid
              │    » True
4301 │ 4310 │ Perf_Background_Dpkg.Pstogwtval
              │    » False
4302 │ 4311 │ Perf_Background_Dpkg.Pstogwt
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »       50.0
  4303    4312   Perf_Background_Dpkg.Pcgwind
                    »    Invalid
  4304    4313   Perf_Background_Dpkg.Psgw
                    »        0.0
  4305    4314   Perf_Dpkg.Gross_Weight.Status
                    »     Valid
  4306    4315   Perf_Dpkg.Gross_Weight.Data
                    »      150.0
  4307    4316   Perf_Integration_DPkg.Pcairbrakes
                    »     Fullab
  4308    4317   Perf_Background_Dpkg.Pcacconfig
                    »        5
  4309    4318   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                    »      False
  4310    4319   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                    »     9000.0
  4311    4320   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                    »      300.0
  4312    4321   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                    »      False
  4313    4322   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                    »      265.0
  4314    4323   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                    »       0.55
  4315    4324   Perf_Background_Dpkg.Psstpclbact
                    »      True
  4316    4325   Perf_Background_Dpkg.Psstpdesact
                    »      True
  4317    4326   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                    »        0.0
  4318    4327   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                    »        0.0
  4319    4328   Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                    »       0.65
  4320    4329   Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                    »      345.0
  4321    4330   Perf_Background_Dpkg.Pccuraltcstr.Valid
                    »      True
  4322    4331   Perf_Background_Dpkg.Pcprebcalt.Valid
                    »      True
  4323    4332   Perf_Background_Dpkg.Pcgmttime.Hour
                    »        1
  4324    4333   Perf_Background_Dpkg.Pcgmttime.Minute
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                |  »          1
        4325 |  4334 | Perf_Background_Dpkg.Pcgmttime.Second
                |  »          1
        4326 |  4335 | Perf_Background_Dpkg.Psinertvs
                |  »          5.0
        4327 |  4336 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
                |  »          0
        4328 |  4337 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
                |  »          2
        4329 |  4338 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
                |  »          0
        4330 |  4339 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
                |  »          2
        4331 |  4340 | Perf_Ads_Dpkg.Pr_Enabled
                |  »       False
        4332 |  4341 | ATC_DISCRETES_PKG:body.Adson_Flag
                |  »        True
        4333 |  4342 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
                |  »        True
        4334 |  4343 | Perf_Ads_Dpkg.Ii_Enabled
                |  »       False
        4335 |  4344 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
                |  »       true
        4336 |  4345 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
                |  »       true
        4337 |  4346 | ^Noise_End_Alt_Status                                                Takeoff_Alt_Type
                |  » s.Active
        4338 |  4347 | CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
                |  »        (0)
        4339 |  4348 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                |  »       false
        4340 |  4349 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                |  »       False
        4341 |  4350 | Perf_Background_Dpkg.Pcitin.Flight_Plan
                |  »       Active
        4342 |  4351 | Navigation_Data.Aircraft_Altitude
                |  »       25001.0
        4343 |  4352 | Perf_Background_Dpkg.Pcoldcasmchi
                |  »         Cas
        4344 |  4353 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
                |  »       False
        4345 |  4354 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
                |  »       False
        4346 |  4355 | Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »       True
4347    4356 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
                  »       False
4348    4357 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
                  »       False
4349    4358 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
                  »       False
4350    4359 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
                  »       True
4351    4360 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
                  »       True
4352    4361 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
                  »       True
4353    4362 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
                  »       True
4354    4363 Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
                  »       0.0
4355    4364 Perf_Dpkg.Pshmdeleted
                  »       True
4356    4365 CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
                  »   25001.0
4357    4366 Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
                  »   25001.1
4358    4367 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
                  »       true
4359    4368 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
                  »       True
4360    4369 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
                  »       True
4361    4370 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
                  »       true
4362    4371 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
                  »       True
4363    4372 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
                  »       True
4364    4373 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
                  »   20000
4365    4374 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
                  »       79.0
4366    4375 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
                  »       -100.0
4367    4376 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
                  »       0.5
4368    4377 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 50.0			
4369	4378	Perf_Background_Dpkg.Pcholdflags.Hmactive			
		» True			
4370	4379	Perf_Background_Dpkg.Pcholdflags.Hmdecel			
		» True			
4371	4380	Perf_Background_Dpkg.Pcholdflags.Manhmwarn			
		» False			
4372	4381	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel			
		» True			
4373	4382	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv			
		» True			
4374	4383	Perf_Background_Dpkg.Pcholdflags.Hmdistval			
		» True			
4375	4384	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim			
		» False			
4376	4385	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim			
		» False			
4377	4386	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel			
		» False			
4378	4387	Perf_Background_Dpkg.Pcholdflags.Consider_Hm			
		» False			
4379	4388	Perf_Background_Dpkg.Psappspdlat			
		» true			
4380	4389	Perf_Background_Dpkg.Psconsider_Hm			
		» True			
4381	4390	Perf_Background_Dpkg.Pshmdecel			
		» true			
4382	4391	Perf_Integration_Dpkg.Psoldnoentgt			
		» 1.0			
4383	4392	Perf_Background_Dpkg.Pcmanspd.Casvalid			
		» True			
4384	4393				
4385	4394				
4386	4395	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
4387	4396	-- ------------------------------- ------------- -------------------			
		» -------- ----			
4388		~~Perf_Integration_Dpkg.Psoldnoentgt~~	~~0.0~~	~~0.001~~	~~2.9~~
		» ~~0227E-38 P~~			
	4397	Perf_Integration_Dpkg.Psoldnoentgt	0.0	0.001	0.0
		» 0000E+00 P			
4389	4398	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	True	(N/A)	
		» TRUE P			
4390	4399	Perf_Background_Dpkg.Pcoldcasmchi	Fmcs_Base_Types.Mach	(N/A)	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »      MACH   P
 4391   4400  Perf_Background_Dpkg.Pcholdflags.Hmactive                                        False        (N/A)
                    »      FALSE  P
 4392   4401  Perf_Background_Dpkg.Pcholdflags.Hmdecel                                         False        (N/A)
                    »      FALSE  P
 4393   4402  Perf_Background_Dpkg.Pcholdflags.Manhmwarn                                       True         (N/A)
                    »      TRUE   P
 4394   4403  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                                       False        (N/A)
                    »      FALSE  P
 4395   4404  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                                       False        (N/A)
                    »      FALSE  P
 4396   4405  Perf_Background_Dpkg.Pcholdflags.Hmdistval                                       False        (N/A)
                    »      FALSE  P
 4397   4406  Perf_Background_Dpkg.Pcholdflags.Consider_Hm                                     True         (N/A)
                    »      TRUE   P
 4398   4407  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                                         True         (N/A)
                    »      TRUE   P
 4399   4408  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                                        True         (N/A)
                    »      TRUE   P
 4400   4409  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel                                       True         (N/A)
                    »      TRUE   P
 4401   4410  Perf_Dpkg.Pshmdeleted                                                      /= false           (N/A)
                    »      TRUE   P
 4402   4411  Perf_Background_Dpkg.Pshmdecel                                                   False        (N/A)
                    »      FALSE  P
 4403   4412  Perf_Background_Dpkg.Pcmanspd.Casvalid                                           False        (N/A)
                    »      FALSE  P
 4404   4413  Perf_Background_Dpkg.Psappspdlat                                                 false        (N/A)
                    »      FALSE  P
 4405   4414  Perf_Background_Dpkg.Psconsider_Hm                                               False        (N/A)
                    »      FALSE  P
 4406   4415  Perf_Dpkg.Repredict_Hm_Decel                                                    False        (N/A)
                    »      FALSE  P
 4407   4416  CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec                                  True         (N/A)
                    »      TRUE   P
 4408   4417
 4409   4418
 4410   4419  ====> All 20 Comparisons Passed <====
 4411   4420
 4412   4421
 4413   4422  TESTID: 26
 4414   4423
 4415   4424      The previous non-envelope-limited target speed is set to the current VG MACH speed target
 4416   4425      and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4417   4426        if all of the following are true:
4418   4427          - A VG speed change target is not currently being applied and The flight phase is less than Approach
4419   4428            (here flight phase is Takeoff);
4420   4429          - A CMS is currently active and the aircraft is above climb speed limit altitude;
4421   4430
4422   4431        REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT
4423   4432        SUPPORTING REQUIREMENTS : N/A
4424   4433
4425   4434
4426   4435  INPUT                                                                                                 VALUE
4427   4436  ------------------------------------------------------------------------------------------------ ------------------
           » --------
4428   4437  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
           »     False
4429   4438  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
           »     False
4430   4439  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
           »     False
4431   4440  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
           »     False
4432   4441  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
           »     False
4433   4442  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
           »       True
4434   4443  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
           »       True
4435   4444  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
           »       True
4436   4445  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
           »       True
4437   4446  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
           »       True
4438   4447  Perf_Dpkg.Min_Gwt
           »     100.0
4439   4448  Perf_Dpkg.Max_Gwt
           »     400.0
4440   4449  Perf_Background_Dpkg.Pcactorsec
           »     Active
4441   4450  Perf_Background_Dpkg.Psignorehm
           »       True
4442   4451  Perf_Background_Dpkg.Flight_Plan_Type                                                                Copy_Fro
           » m_Active
4443   4452  Perf_Background_Dpkg.Pcfltphase
           » Approach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4444    4453 Perf_Background_Dpkg.Ats_Enable
             »       True
4445    4454 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »      Cruise
4446    4455 Perf_Background_Dpkg.Psacalt
             »    25001.0
4447    4456 Perf_Database_Dpkg.Psmmo
             »       0.45
4448    4457 Perf_Background_Dpkg.Pszfw
             »      300.0
4449    4458 Perf_Background_Dpkg.Psblockfuel
             »      50.0
4450    4459 Perf_Background_Dpkg.Pstaxifuel
             »      25.0
4451    4460 Perf_Background_Dpkg.Psairborne
             »       True
4452    4461 Perf_Background_Dpkg.Psautolat
             »       False
4453    4462 Guid_Ext_Dpkg.Gcxxlatautoc
             »       True
4454    4463 Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
             »       True
4455    4464 Perf_Background_Dpkg.Psengout
             »       True
4456    4465 Cdk_Vert_Dpkg:Body.Engine_Out_I
             »       True
4457    4466 Perf_Dpkg.Repredict_Hm_Decel
             »       True
4458    4467 Perf_Background_DPkg.Pshmdecel
             »       True
4459    4468 Perf_Background_Dpkg.Pcholdflags.Hmactive
             »       True
4460    4469 Perf_Ads_Dpkg.Fi_Enabled
             »       True
4461    4470 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
             »       False
4462    4471 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
             »       True
4463    4472 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
             »       True
4464    4473 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
             »       True
4465    4474 Perf_Background_Dpkg.Pcholdflags.Hmdistval
             »       True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4466  4475  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            »       True
4467  4476  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
            »       True
4468  4477  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
            »       True
4469  4478  Perf_Background_Dpkg.Psappspdlat
            »       True
4470  4479  Perf_Dpkg.Pcengoutprds
            »    Altpln
4471  4480  Perf_Background_Dpkg.Pcpathref
            »    Onpath
4472  4481  Guid_Ext_Dpkg.Va3Vertmde                                              Perf_Ext_Tpk
            » g.Vmnone
4473  4482  Perf_Background_DPkg.Pscurcas
            »       5.0
4474  4483  Perf_Background_DPkg.Pscurmach
            »       5.0
4475  4484  Perf_Background_DPkg.Pscurtas
            »       5.0
4476  4485  Perf_Background_Dpkg.Pcitin.Itinerary                                 Current_Mod
            » e_Hi_Pri
4477  4486  Perf_Background_Dpkg.Psenginesoff
            »       True
4478  4487  Perf_Despath_Dpkg.Pcdespath.Vgavalid
            »       True
4479  4488  Perf_Background_Dpkg.Pstogwtval
            »       False
4480  4489  Perf_Background_Dpkg.Pstogwt
            »       50.0
4481  4490  Perf_Background_Dpkg.Pcgwind
            »    Invalid
4482  4491  Perf_Background_Dpkg.Psgw
            »       0.0
4483  4492  Perf_Dpkg.Gross_Weight.Status
            »    Valid
4484  4493  Perf_Dpkg.Gross_Weight.Data
            »     150.0
4485  4494  Perf_Integration_DPkg.Pcairbrakes
            »    Fullab
4486  4495  Perf_Background_Dpkg.Pcacconfig
            »       5
4487  4496  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
            »       True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4488   4497  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
              »    9000.0
4489   4498  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
              »    400.0
4490   4499  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
              »    False
4491   4500  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
              »    265.0
4492   4501  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
              »    0.55
4493   4502  Perf_Background_Dpkg.Psstpclbact
              »    True
4494   4503  Perf_Background_Dpkg.Psstpdesact
              »    True
4495   4504  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »    0.0
4496   4505  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
              »    0.0
4497   4506  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
              »    0.65
4498   4507  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »    345.0
4499   4508  Perf_Background_Dpkg.Pccuraltcstr.Valid
              »    True
4500   4509  Perf_Background_Dpkg.Pcprebcalt.Valid
              »    True
4501   4510  Perf_Background_Dpkg.Pcgmttime.Hour
              »    1
4502   4511  Perf_Background_Dpkg.Pcgmttime.Minute
              »    1
4503   4512  Perf_Background_Dpkg.Pcgmttime.Second
              »    1
4504   4513  Perf_Background_Dpkg.Psinertvs
              »    5.0
4505   4514  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
              »    0
4506   4515  Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
              »    2
4507   4516  Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
              »    0
4508   4517  Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
              »    2
4509   4518  Perf_Ads_Dpkg.Pr_Enabled
              »    False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4510   4519 | ATC_DISCRETES_PKG:body.Adson_Flag
            | »      True
4511   4520 | Perf_Ads_Interface_Dpkg:BODY.Predicted_Route_Data.Predicted_Data_Is_Valid
            | »      True
4512   4521 | Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Hmdecel
            | »    False
4513   4522 | Perf_Dpkg.Pshmdeleted
            | »      True
4514   4523 | Perf_Ads_Dpkg.Ii_Enabled
            | »    False
4515   4524 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            | »      true
4516   4525 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            | »      true
4517   4526 | ^Noise_End_Alt_Status                                                              Takeoff_Alt_Type
            | » s.Active
4518   4527 | CTP_A350_PERF_BKGND_GET_BK_DATA.Requested_num_Waypoints
            | »     (0)
4519   4528 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
            | »      True
4520   4529 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
            | »    False
4521   4530 | Perf_Background_Dpkg.Pcitin.Flight_Plan
            | »    Active
4522   4531 | Navigation_Data.Aircraft_Altitude
            | »  25001.0
4523   4532 | Perf_Background_Dpkg.Pcoldcasmchi
            | »      Cas
4524   4533 | Perf_Background_Dpkg.Psacalt
            | »  25001.0
4525   4534 | Perf_Integration_Dpkg.Psoldnoentgt
            | »    1.0
4526   4535 | Perf_Background_Dpkg.Pcfltphase
            | »  Takeoff
4527   4536 |
4528   4537 |
4529   4538 | OUTPUT                                             EXPECTED              TOLERANCE           ACTUAL
            | »         P/F
4530   4539 | --------------------------------------------------  ----------------------------  ------------  ------------------
            | » --------  ----
4531   4540 | Perf_Integration_Dpkg.Psoldnoentgt                                    0.0         0.001               0.0
            | » 0000E+00   P
4532   4541 | Perf_Background_Dpkg.Pcoldcasmchi                  Fmcs_Base_Types.Mach          (N/A)
            | »    MACH   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

4533	4542	
4534	4543	
4535	4544	====> All 2 Comparisons Passed <====
4536	4545	
4537	4546	
4538	4547	TESTID: 27
4539	4548	
4540	4549	The previous non-envelope-limited target speed is set to the current VG MACH speed target
4541	4550	and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
4542	4551	if all of the following are true:
4543	4552	- A VG speed change target is not currently being applied and the flight phase is less than Approach
4544	4553	(here flight phase is takeoff);
4545	4554	- Current flight phase is not cruise or the climb/descent step is active and the aircraft is above crossover alt » itude;
4546	4555	
4547	4556	If the working flight plan is Active or Temporary, flags related to HM legs shall be set as follows:
4548	4557	- Perf hold flag record (Pcholdflags) is copied from guidance
4549	4558	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
4550	4559	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac » h.
4551	4560	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer » considers
4552	4561	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
4553	4562	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the » HM if no
4554	4563	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c » lear the HM
4555	4564	leg deleted while in decel to HM flag (Pshmdeleted).
4556	4565	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte » d, and the
4557	4566	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf » t is within
4558	4567	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
4559	4568	- If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has not been deleted while in dece » l to HM,
4560	4569	then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
4561	4570	PERF_SDD_4794_INT
4562	4571	
4563	4572	This test case verify:(the working flight plan is Temporary)
4564	4573	(1)Perf hold flag record (Pcholdflags) is copied from guidance
4565	4574	(2)Descent limit latch record (Pcdeslimlat) is copied from guidance
4566	4575	(3)Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false
4567	4576	(4)the re-evaluation indication flag is cleared (Repredict_Hm_Decel) (F,T)
4568	4577	(5)HM leg deleted is cleared while in decel to HM flag (Pshmdeleted) (F,F,T)

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4569  4578      (6)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to false (F,F)
4570  4579      (7)flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
             » e (F,F,F)
4571  4580
4572  4581    REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT, PERF_SDD_4794_INT
4573  4582    SUPPORTING REQUIREMENTS : N/A
4574  4583
4575  4584
4576  4585  INPUT                                                                                             VALUE
4577  4586  ------------------------------------------------------------------------------------------------ -----------------
             » --------
4578  4587  Perf_Background_Dpkg.Pcoldcasmchi
             »       Cas
4579  4588  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             »     9000.0
4580  4589  Perf_Background_Dpkg.Flight_Plan_Type                                                            Copy_Fro
             » m_Active
4581  4590  Perf_Background_Dpkg.Pcactorsec                                                                         T
             » emporary
4582  4591  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
             »       False
4583  4592  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
             »       False
4584  4593  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
             »       False
4585  4594  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
             »       True
4586  4595  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
             »       True
4587  4596  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
             »       True
4588  4597  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
             »       False
4589  4598  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
             »       False
4590  4599  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
             »       False
4591  4600  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
             »       False
4592  4601  Perf_Dpkg.Pshmdeleted
             »       True
4593  4602  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
             »     Descent
4594  4603  Perf_Background_Dpkg.Constant_Mach_Seg.Is_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False
4595	4604	CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
		» 25001.0
4596	4605	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
		» true
4597	4606	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
		» True
4598	4607	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
		» true
4599	4608	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
		» True
4600	4609	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
		» True
4601	4610	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
		» 20000
4602	4611	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
		» 79.0
4603	4612	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
		» 100.0
4604	4613	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
		» -0.5
4605	4614	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
		» 50.0
4606	4615	Guid_Spds_Dpkg.Vc3curspds.Fltphase
		» Descent
4607	4616	Perf_Background_Dpkg.Pcholdflags.Hmactive
		» True
4608	4617	Perf_Background_Dpkg.Pcholdflags.Hmdecel
		» True
4609	4618	Perf_Background_Dpkg.Pcholdflags.Manhmwarn
		» True
4610	4619	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
		» False
4611	4620	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
		» False
4612	4621	Perf_Background_Dpkg.Pcholdflags.Hmdistval
		» False
4613	4622	Perf_Background_Dpkg.Pcholdflags.Consider_Hm
		» True
4614	4623	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
		» True
4615	4624	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
		» True
4616	4625	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» True			
4617	4626	Perf_Dpkg.Pshmdeleted			
		» True			
4618	4627	Perf_Dpkg.Repredict_Hm_Decel			
		» True			
4619	4628	Perf_Background_Dpkg.Psappspdlat			
		» True			
4620	4629	Perf_Background_DPkg.Pshmdecel			
		» True			
4621	4630	Perf_Background_Dpkg.Psconsider_Hm			
		» True			
4622	4631	Perf_Background_Dpkg.Psappspdlat			
		» True			
4623	4632	Perf_Integration_Dpkg.Psoldnoentgt			
		» 1.0			
4624	4633				
4625	4634				
4626	4635	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
4627	4636	-- ------------------------------ ------------ ------------------			
		» -------- ----			
4628	4637	Perf_Integration_Dpkg.Psoldnoentgt	-0.5	0.001	-5.0
		» 0000E-01 P			
4629	4638	Perf_Background_Dpkg.Pcoldcasmchi	Fmcs_Base_Types.Mach	(N/A)	
		» MACH P			
4630	4639	Perf_Background_Dpkg.Pcholdflags.Hmactive	False	(N/A)	
		» FALSE P			
4631	4640	Perf_Background_Dpkg.Pcholdflags.Hmdecel	False	(N/A)	
		» FALSE P			
4632	4641	Perf_Background_Dpkg.Pcholdflags.Manhmwarn	False	(N/A)	
		» FALSE P			
4633	4642	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel	True	(N/A)	
		» TRUE P			
4634	4643	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv	True	(N/A)	
		» TRUE P			
4635	4644	Perf_Background_Dpkg.Pcholdflags.Hmdistval	True	(N/A)	
		» TRUE P			
4636	4645	Perf_Background_Dpkg.Pcholdflags.Consider_Hm	False	(N/A)	
		» FALSE P			
4637	4646	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim	False	(N/A)	
		» FALSE P			
4638	4647	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim	False	(N/A)	
		» FALSE P			
4639	4648	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel	False	(N/A)	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                        »      FALSE   P
      4640    4649 |Perf_Dpkg.Repredict_Hm_Decel                                              False          (N/A)
                        »      FALSE   P
      4641    4650 |Perf_Background_Dpkg.Pshmdecel                                            False          (N/A)
                        »      FALSE   P
      4642    4651 |Perf_Dpkg.Pshmdeleted                                                     False          (N/A)
                        »      FALSE   P
      4643    4652 |Perf_Background_Dpkg.Psconsider_Hm                                        False          (N/A)
                        »      FALSE   P
      4644    4653 |Perf_Background_Dpkg.Psappspdlat                                          False          (N/A)
                        »      FALSE   P
      4645    4654 |
      4646    4655 |
      4647    4656 |====> All 17 Comparisons Passed <====
      4648    4657 |
      4649    4658 |
      4650    4659 |TESTID: 28
      4651    4660 |
      4652    4661 |    The previous non-envelope-limited target speed is set to the current VG MACH speed target
      4653    4662 |    and the previous CAS/Mach speed indicator is set to indicate MACH speed type,
      4654    4663 |    if all of the following are true:
      4655    4664 |      - A VG speed change target is not currently being applied and the flight phase is less than Approach
      4656    4665 |        (here flight phase is Cruise);
      4657    4666 |      - Current flight phase is not cruise or the climb/descent step is active and the aircraft is above crossover alt
                     » itude;
      4658    4667 |
      4659    4668 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_3053_INT.
      4660    4669 |    SUPPORTING REQUIREMENTS : N/A
      4661    4670 |
      4662    4671 |
      4663    4672 |INPUT                                                                                              VALUE
      4664    4673 |------------------------------------------------------------------------------------------- ------------------
                     » --------
      4665    4674 |Perf_Background_DPkg.Pshmdecel
                        »     False
      4666    4675 |Perf_Background_Dpkg.Pcoldcasmchi
                        »       Cas
      4667    4676 |Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                        »    9000.0
      4668    4677 |Perf_Background_Dpkg.Pcfltphase
                        »    Cruise
      4669    4678 |Perf_Background_Dpkg.Psacalt
                        »    25001.0
      4670    4679 |Perf_Background_Dpkg.Constant_Mach_Seg.Is_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »      False
 4671   4680 Perf_Integration_Dpkg.Psoldnoentgt
                »        1.0
 4672   4681 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                »        True
 4673   4682 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                »        True
 4674   4683
 4675   4684
 4676   4685 OUTPUT                                                    EXPECTED                TOLERANCE            ACTUAL
                »          P/F
 4677   4686 --------------------------------------------------  ----------------------------  -------------  ------------------
                » --------  ----
 4678   4687 Perf_Integration_Dpkg.Psoldnoentgt                                        0.0          0.001                   0.0
                » 0000E+00  P
 4679   4688 Perf_Background_Dpkg.Pcoldcasmchi                          Fmcs_Base_Types.Mach          (N/A)
                »       MACH  P
 4680   4689
 4681   4690
 4682   4691 ====> All 2 Comparisons Passed <====
 4683   4692
 4684   4693
 4685   4694 TESTID: 29
 4686   4695
 4687   4696     When the flight phase is approach, the descent path reference shall be set to
 4688   4697     the guidance descent path reference(Va3pathref).
 4689   4698     PERF_SDD_07500_INT
 4690   4699
 4691   4700     If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
                » s are on,
 4692   4701     the aircraft gross weight shall be set to any one of the following:
 4693   4702    - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
                » craft
 4694   4703      gross weight and Take Off gross weight being valid
 4695   4704    - Aircraft GW from the Performance Weights function,  if the flight phase is other
 4696   4705      than takeoff or before, or the aircraft gross weight or the Take Off gross weight
 4697   4706      being invalid
 4698   4707    The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
 4699   4708     PERF_SDD_07501_INT
 4700   4709     --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,the flight
                » phase is
 4701   4710     --Approach,then Aircraft GW from the Performance Weights function.
 4702   4711
 4703   4712     If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are val
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  » id,
  4704   4713      then the speed target tag shall be set to indicate Mach and the speed target is set the value of mach target.
  4705   4714      PERF_SDD_07502_INT
  4706   4715      If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is invalid,
  4707   4716      then the speed target tag shall be set to indicate CAS and the speed target is set the value of CAS target.
  4708   4717      PERF_SDD_07503_INT
  4709   4718      --In this tese case, the mach target and the CAS target are valid, the fcu mach selected mode is valid
  4710   4719
  4711   4720      When the FPA mode active and the target retrieved from IO are valid,
  4712   4721      then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
  4713   4722      The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
                  » retrieved
  4714   4723      from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
                  » rom ft/min
  4715   4724      to ft/sec. The flag indicating the vertical speed mode active is set to True.
  4716   4725      PERF_SDD_07504_INT
  4717   4726       --In this tese case, the FPA mode active and the target retrieved from IO are valid
  4718   4727      The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
  4719   4728      PERF_SDD_07505_INT
  4720   4729      --In this test case, The destination QNH data is invalid and the destination being defined
  4721   4730      If the current itinerary is neither Current Mode Predictions (Normal or High priority)
  4722   4731      nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
  4723   4732      PERF_SDD_07506(PERF_SRD_6192)
  4724   4733      --In this teste case, the current itinerary is No_Itinerary, Pcvertmode shall be set to Econ mode
  4725   4734      ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
                  » e first pass
  4726   4735      of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
  4727   4736      PERF_SDD_08225_INT
  4728   4737      --In this test case, all the condition are true and FLIGHT PHASE is approach
  4729   4738      During descent or approach with current target speeds from FG are valid, ECON CAS limited by speed constraint othe
                  » r than
  4730   4739      speed limit shall be set to current CAS speed if partially limited managed speed target is zero else it is set to
  4731   4740      partially limited managed speed target.
  4732   4741      PERF_SDD_07540
  4733   4742      --In this test case, During approach the partially limited managed speed target is not zero
  4734   4743      During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i
                  » n descent
  4735   4744      then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
  4736   4745      PERF_SDD_08227_INT
  4737   4746     --In this test case, During approach speed limit is true but ICAO limit is false
  4738   4747      If current target speeds from FG are valid, then the speed change target restriction record from VG is copied to P
                  » erf and
  4739   4748      the speed change apply flag shall be set if the aircraft is in the deceleration zone to HM.
  4740   4749      PERF_SDD_07542_INT
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4741  4750      --In this tese case, current target speeds from FG are valid and the aircraft is not in the deceleration zone
4742  4751      If current target speeds from FG are valid, then the speed change Ident from VG speed change target restriction re
              » cord shall
4743  4752      be saved to the global Speed Change Ident.
4744  4753      PERF_SDD_08171_INT
4745  4754
4746  4755      Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
4747  4756      are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
              » d to FL250.
4748  4757      PERF_SDD_07543_INT
4749  4758      --In this test case, VG speed targets are all valid and greater than lower limits
4750  4759      REQUIREMENTS UNDER EVALUATION : PERF_SDD_07500_INT, PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT,
4751  4760                                      PERF_SDD_07504_INT, PERF_SDD_07505_INT, PERF_SDD_07506(PERF_SRD_6192), PERF_SDD_08
              » 225_INT,
4752  4761                                      PERF_SDD_07540, PERF_SDD_08227_INT, PERF_SDD_07542_INT, PERF_SDD_07543_INT,
4753  4762                                      PERF_SDD_08171_INT
4754  4763      SUPPORTING REQUIREMENTS : N/A
4755  4764
4756  4765
4757  4766  INPUT                                                                                                          VALUE
4758  4767  ------------------------------------------------------------------------------------------------  -----------------
              » --------
4759  4768  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »       True
4760  4769  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »       True
4761  4770  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »       True
4762  4771  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »       True
4763  4772  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »       True
4764  4773  Perf_Dpkg.Min_Gwt
              »       100.0
4765  4774  Perf_Dpkg.Max_Gwt
              »       400.0
4766  4775  Perf_Background_Dpkg.Flight_Plan_Type                                                                              I
              » s_Active
4767  4776  Perf_Background_Dpkg.Ats_Enable
              »       True
4768  4777  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              » Approach
4769  4778  Perf_Database_Dpkg.Psmmo
              »       0.45
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4770   4779  Perf_Background_Dpkg.Pszfw
              »    300.0
4771   4780  Perf_Background_Dpkg.Psblockfuel
              »    50.0
4772   4781  Perf_Background_Dpkg.Pstaxifuel
              »    25.0
4773   4782  Perf_Background_Dpkg.Psairborne
              »    False
4774   4783  Perf_Background_Dpkg.Psautolat
              »     True
4775   4784  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
              »    False
4776   4785  Perf_Background_Dpkg.Psengout
              »     True
4777   4786  Cdk_Vert_Dpkg:Body.Engine_Out_I
              »    False
4778   4787  Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »     True
4779   4788  Perf_Dpkg.Repredict_Hm_Decel
              »     True
4780   4789  Perf_Background_DPkg.Pshmdecel
              »     True
4781   4790  Perf_Background_Dpkg.Pcholdflags.Hmactive
              »     True
4782   4791  Perf_Ads_Dpkg.Fi_Enabled
              »    False
4783   4792  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »    False
4784   4793  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »     True
4785   4794  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »     True
4786   4795  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »     True
4787   4796  Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »     True
4788   4797  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »     True
4789   4798  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »     True
4790   4799  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
              »     True
4791   4800  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
              »    False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4792    4801 | Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
             | »        True
4793    4802 | Perf_Background_Dpkg.Psappspdlat
             | »        True
4794    4803 | Perf_Dpkg.Pcengoutprds
             | »     Altpln
4795    4804 | Perf_Background_DPkg.Pscurcas
             | »       5.0
4796    4805 | Perf_Background_DPkg.Pscurmach
             | »       5.0
4797    4806 | Perf_Background_DPkg.Pscurtas
             | »       5.0
4798    4807 | Perf_Background_Dpkg.Pcitin.Itinerary                                              No_I
             | » tinerary
4799    4808 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
             | »        True
4800    4809 | Perf_Background_Dpkg.Pstogwtval
             | »        True
4801    4810 | Perf_Background_Dpkg.Pstogwt
             | »       50.0
4802    4811 | Perf_Background_Dpkg.Pcgwind
             | »      valid
4803    4812 | Perf_Background_Dpkg.Psgw
             | »        0.0
4804    4813 | Perf_Dpkg.Gross_Weight.Status
             | »      Valid
4805    4814 | Perf_Dpkg.Gross_Weight.Data
             | »      150.0
4806    4815 | Perf_Integration_DPkg.Pcairbrakes
             | »     Fullab
4807    4816 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             | »      False
4808    4817 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             | »     9000.0
4809    4818 | Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             | »      200.0
4810    4819 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             | »      False
4811    4820 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             | »      265.0
4812    4821 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             | »       0.55
4813    4822 | Perf_Background_Dpkg.Psstpclbact
             | »        True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4814 | 4823 | Perf_Background_Dpkg.Psstpdesact
     |      |   »        True
4815 | 4824 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     |      |   »           0.0
4816 | 4825 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
     |      |   »           0.0
4817 | 4826 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
     |      |   »         0.011
4818 | 4827 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid
     |      |   »        True
4819 | 4828 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |      |   »         10.01
4820 | 4829 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid
     |      |   »        True
4821 | 4830 | Perf_Background_Dpkg.Pccuraltcstr.Valid
     |      |   »        True
4822 | 4831 | Perf_Background_Dpkg.Pcprebcalt.Valid
     |      |   »        True
4823 | 4832 | Perf_Background_Dpkg.Pcgmttime.Hour
     |      |   »          2
4824 | 4833 | Perf_Background_Dpkg.Pcgmttime.Minute
     |      |   »          2
4825 | 4834 | Perf_Background_Dpkg.Pcgmttime.Second
     |      |   »          2
4826 | 4835 | Perf_Background_Dpkg.Psinertvs
     |      |   »          5.0
4827 | 4836 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
     |      |   »          0
4828 | 4837 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
     |      |   »          2
4829 | 4838 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
     |      |   »          0
4830 | 4839 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
     |      |   »          2
4831 | 4840 | Perf_Ads_Dpkg.Pr_Enabled
     |      |   »        False
4832 | 4841 | ATC_DISCRETES_PKG:body.Adson_Flag
     |      |   »        False
4833 | 4842 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
     |      |   »        true
4834 | 4843 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
     |      |   »        true
4835 | 4844 | ^Noise_End_Alt_Status                                           Takeoff_Alt_Type
     |      |   » s.Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4836   4845  ^Noise_Speed_Val
              »        True
4837   4846  ^Noise_TSPD.valid
              »        True
4838   4847  ^Noise_TSPD.Data
              »        150.0
4839   4848  ^Noise_End_Alt
              »        300.0
4840   4849  ^Noise_Speed
              »        250.0
4841   4850  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
              »        True
4842   4851  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
              »        True
4843   4852  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
              »        21.0
4844   4853  Perf_Background_Dpkg.Psorgalt
              »        36080.0
4845   4854  Perf_Background_Dpkg.Noise_Data.Altitude.Data
              »        0.0
4846   4855  Perf_Background_Dpkg.Noise_Data.Altitude.Valid
              »        False
4847   4856  Perf_Background_Dpkg.Noise_Data.Speed.Data
              »        0.0
4848   4857  Perf_Background_Dpkg.Noise_Data.Speed.Valid
              »        False
4849   4858  Perf_Background_Dpkg.Noise_Data.Tspd.Data
              »        0.0
4850   4859  Perf_Background_Dpkg.Noise_Data.Tspd.Valid
              »        False
4851   4860  Perf_Background_Dpkg.Psacalt
              »        50.0
4852   4861  Perf_Background_Dpkg.Psacaltv
              »        True
4853   4862  Perf_Background_Dpkg.Pstruetrkv
              »        True
4854   4863  Perf_Background_Dpkg.Psvgrnd
              »        1.0
4855   4864  Perf_Background_Dpkg.Psvgrndval
              »        True
4856   4865  Perf_Background_Dpkg.Pcacposn.Data.Lat
              »        100.0
4857   4866  Perf_Background_Dpkg.Pcacposn.Data.Lon
              »        100.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4858  4867 Perf_Background_Dpkg.Pcacposn.Valid
           »     false
4859  4868 Perf_Background_Dpkg.Pstruetrack
           »      0.2
4860  4869 Perf_Background_Dpkg.Pswindbrg
           »    150.0
4861  4870 Perf_Background_Dpkg.Pswindmag
           »    130.0
4862  4871 Perf_Background_Dpkg.Pswindval
           »     false
4863  4872 Fmcs_Partition_Data_Pkg.Ops_Time.Hour
           »        1
4864  4873 Fmcs_Partition_Data_Pkg.Ops_Time.Minute
           »        1
4865  4874 Fmcs_Partition_Data_Pkg.Ops_Time.Second
           »        1
4866  4875 Perf_Dpkg.Psnumengout
           »        1
4867  4876 Perf_Background_Dpkg.Psvgonpath
           »     true
4868  4877 Perf_Background_Dpkg.Pscrzalt.data
           »     10.0
4869  4878 Perf_Background_Dpkg.Pscrzalt.Valid
           »     false
4870  4879 Perf_Background_Dpkg.Psfinaldes
           »     false
4871  4880 Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
           »    230.0
4872  4881 Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
           »  15000.0
4873  4882 Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type        Vg_Ext_Tpkg.Clb
           » _Spd_Lim
4874  4883 Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                          "
           » ABCD    "
4875  4884 Perf_Background_Dpkg.Pcactorsec
           »    Active
4876  4885 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
           »     False
4877  4886 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Ident                           "
           » 1234567"
4878  4887 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.CAS
           »    120.0
4879  4888 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.REASON                       Retu
           » rntoecon
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

4880	4889	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.AIRBRAKE	
		» false	
4881	4890	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.SPARE1	
		» 1	
4882	4891	Perf_Background_Dpkg.Psfirstpass	
		» False	
4883	4892	Perf_Background_Dpkg.Psonofrstpas	
		» False	
4884	4893	Perf_Background_Dpkg.Psftpbwritok	
		» False	
4885	4894	Perf_Background_Dpkg.Pslvlatbcalt	
		» True	
4886	4895	Perf_Integration_Dpkg.Pslvlblwpth	
		» True	
4887	4896	Perf_Background_Dpkg.Psfi_Possble	
		» True	
4888	4897	Perf_Background_Dpkg.On_Icao_Leg_Decel	
		» True	
4889	4898	Perf_Background_Dpkg.Psignorehm	
		» True	
4890	4899	Perf_Integration_Dpkg.Pcoldwspdchg	Ica
		» olimited	
4891	4900	Perf_Background_Dpkg.Adc_Fg_Valid	
		» False	
4892	4901	Perf_Background_Dpkg.Psenginesoff	
		» True	
4893	4902	Perf_Dpkg.Pcdelspdrec.Predicted	
		» True	
4894	4903	Perf_Background_Dpkg.Pcoldeconcas.Valid	
		» True	
4895	4904	Prf_Bkgnd_Pkg:body.Fgspdsvalid	
		» True	
4896	4905	Perf_Dpkg.takeoff_gwt.valid	
		» True	
4897	4906	Perf_Dpkg.takeoff_gwt.data	
		» 400.0	
4898	4907	Perf_Background_Dpkg.Pcfltphase	
		» Approach	
4899	4908	Perf_Dpkg.Pcfirstpred(Active)	
		» True	
4900	4909	Perf_Background_Dpkg.Pcspeedmode	Perf_Ext_Tp
		» kg.Vmspd	
4901	4910	Guid_Ext_Dpkg.Va3Vertmde	Perf_Ext_Tp
		» kg.Vmspd	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

4902	4911	Perf_Background_Dpkg.Pcspdtgttag
		» Cas
4903	4912	Perf_Background_Dpkg.Psspdtarget
		» 0.0
4904	4913	Perf_Background_Dpkg.Psfpatgt
		» 0.0
4905	4914	Perf_Background_Dpkg.Psfpaact
		» False
4906	4915	Guid_Spds_Dpkg.Vc3prtlimcas
		» 1.0
4907	4916	Perf_Background_Dpkg.Psrtrntocas
		» 0.0
4908	4917	Perf_Background_Dpkg.Pcpredcount(Active)
		» 2
4909	4918	Perf_Dpkg.Psfrstactprd
		» False
4910	4919	Perf_Background_Dpkg.Pcspdchgtgt.Apply
		» True
4911	4920	Perf_Background_Dpkg.Psdestqnh.Valid
		» False
4912	4921	Perf_Background_Dpkg.Pcdestglidx
		» 1
4913	4922	Perf_Background_Dpkg.Pcvertmode Perf_Int_Base_Tpkg
		» .Openclb
4914	4923	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
		» True
4915	4924	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
		» false
4916	4925	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
		» True
4917	4926	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
		» True
4918	4927	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
		» 200.0
4919	4928	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
		» True
4920	4929	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
		» True
4921	4930	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target
		» 1.0
4922	4931	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target
		» True
4923	4932	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target
		» 0.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

4924	4933	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
		» True
4925	4934	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
		» True
4926	4935	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
		» True
4927	4936	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
		» True
4928	4937	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
		» 57.3066
4929	4938	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
		» True
4930	4939	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side1
		» True
4931	4940	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.PRIM_Cas_Side2
		» True
4932	4941	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side1
		» 150.0
4933	4942	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.PRIM_Cas_Side2
		» 151.0
4934	4943	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
		» true
4935	4944	Guid_Spds_Dpkg.Vc3curspds.Fltphase
		» Approach
4936	4945	Perf_Background_Dpkg.Speed_Annunciation.Cas
		» 0.0
4937	4946	Perf_Background_Dpkg.Speed_Annunciation.Alt
		» 0.0
4938	4947	Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type Vg_Ext_Tpkg
		» .Invalid
4939	4948	Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident "
		» "
4940	4949	Perf_Background_Dpkg.Flex_Isadev.Data
		» 5.0
4941	4950	
4942	4951	
4943	4952	define Puxoveralt_Exec := False
4944	4953	
4945	4954	
4946	4955	INPUT VALUE
4947	4956	--- ------------------
		» --------
4948	4957	Perf_Integration_Dpkg.Pcspdchgident "
		» 7654321"

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
4949 │ 4958 │Guid_Ext_Dpkg.Gcxxlatautoc
     │      │»      True
4950 │ 4959 │Perf_Background_Dpkg.Pslimited
     │      │»      false
4951 │ 4960 │Perf_Background_Dpkg.Pcpathref
     │      │»    Onpath
4952 │ 4961 │Perf_Background_Dpkg.Pcspdchgtgt.Apply
     │      │»      true
4953 │ 4962 │Perf_Background_Dpkg.Pcspdchgtgt.Ident                                                                                    "
     │      │» 1111111"
4954 │ 4963 │Perf_Background_Dpkg.Pcspdchgtgt.CAS
     │      │»      0.0
4955 │ 4964 │Perf_Background_Dpkg.Pcspdchgtgt.REASON                                                                                  Ica
     │      │» olimited
4956 │ 4965 │Perf_Background_Dpkg.Pcspdchgtgt.AIRBRAKE
     │      │»      true
4957 │ 4966 │Perf_Background_Dpkg.Pcspdchgtgt.SPARE1
     │      │»      0
4958 │ 4967 │Perf_Background_Dpkg.Psdestqnh.Data
     │      │»      0.0
4959 │ 4968 │Perf_Background_Dpkg.Psvsact
     │      │»    false
4960 │ 4969 │Perf_Background_Dpkg.Psfpaact
     │      │»    false
4961 │ 4970 │Computoldtgt
     │      │»      True
4962 │ 4971 │Curspdsval
     │      │»      False
4963 │ 4972 │
4964 │ 4973 │
4965 │ 4974 │ define Puxoveralt_Exec := True
4966 │ 4975 │
4967 │ 4976 │
4968 │ 4977 │OUTPUT                                               EXPECTED             TOLERANCE             ACTUAL
     │      │»         P/F
4969 │ 4978 │------------------------------------------------ ---------------------------- -------------- ------------------
     │      │» --------  ----
4970 │ 4979 │Perf_Background_Dpkg.Psgw                                    150.0             0.001              1.5
     │      │» 0000E+02  P
4971 │ 4980 │Perf_Background_Dpkg.Pcspdgttag                      Fmcs_Base_Types.Mach        (N/A)
     │      │»    MACH  P
4972 │ 4981 │Perf_Background_Dpkg.Psspdtarget                             1.0               0.001              1.0
     │      │» 0000E+00  P
4973 │ 4982 │Perf_Background_Dpkg.Pcspdgttag                      /= Fmcs_Base_Types.Cas      (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »      MACH  P
 4974    4983 Perf_Background_Dpkg.Psspdtarget                                    1.0         0.001              1.0
              » 0000E+00  P
 4975    4984 Perf_Background_Dpkg.Pcspdchgtgt.Apply                           false          (N/A)
              »    FALSE  P
 4976    4985 Perf_Background_Dpkg.Pshmdecel                                   False          (N/A)
              »    FALSE  P
 4977    4986
 4978    4987
 4979    4988  define Puxoveralt_Exec := True
 4980    4989
 4981    4990
 4982    4991 OUTPUT                                             EXPECTED             TOLERANCE              ACTUAL
              »          P/F
 4983    4992 -------------------------------------------------  ------------------------------  -------------  ------------------
              » --------  ----
 4984    4993 Perf_Background_Dpkg.Psgw                                        150.0         0.001              1.5
              » 0000E+02  P
 4985    4994 Perf_Background_Dpkg.Psdestqnh.Data                            1013.0          0.001              1.0
              » 1300E+03  P
 4986    4995 Perf_Background_Dpkg.Pcvertmode                  Perf_Int_Base_Tpkg.Econo         (N/A)
              »    ECONO  P
 4987    4996 Puxoveralt_Exec                                                  True          (N/A)
              »     TRUE  P
 4988    4997 Perf_Background_Dpkg.Pcspdchgtgt.Apply                           False          (N/A)
              »    FALSE  P
 4989    4998 Perf_Background_Dpkg.Pcpathref                             INVALIDPATH          (N/A)              INV
              » ALIDPATH  P
 4990    4999 Perf_Background_Dpkg.Psgw                                        150.0         0.001              1.5
              » 0000E+02  P
 4991    5000 Perf_Background_Dpkg.Pcspeedmode                   Perf_Ext_Tpkg.Vmecon          (N/A)
              »    VMECON  P
 4992    5001 Perf_Background_Dpkg.Psfpatgt                                     1.0         0.001              1.0
              » 0019E+00  P
 4993    5002 Perf_Background_Dpkg.Psfpaact                                    True          (N/A)
              »     TRUE  P
 4994    5003 Perf_Background_Dpkg.Psvsact                                   /= True         (N/A)
              »    FALSE  P
 4995    5004 Perf_Background_Dpkg.Pcfltphase                               Approach         (N/A)
              » APPROACH  P
 4996    5005 Perf_Background_Dpkg.Psautolat                                   True          (N/A)
              »     TRUE  P
 4997    5006 Perf_Background_Dpkg.Psappspdlat                                 True          (N/A)
              »     TRUE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

4998	5007	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim	True	(N/A)	
		» TRUE P			
4999	5008	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim	False	(N/A)	
		» FALSE P			
5000	5009	Perf_Background_Dpkg.Psrtrntocas	1.0	0.001	1.0
		» 0000E+00 P			
5001	5010	Perf_Background_Dpkg.Pslimited	True	(N/A)	
		» TRUE P			
5002	5011	Perf_Background_Dpkg.Pcspdchgtgt.Apply	/= true	(N/A)	
		» FALSE P			
5003	5012	Perf_Background_Dpkg.Pcspdchgtgt.Ident	"1234567"	(N/A)	"
		» 1234567" P			
5004	5013	Perf_Background_Dpkg.Pcspdchgtgt.CAS	120.0	0.001	1.2
		» 0000E+02 P			
5005	5014	Perf_Background_Dpkg.Pcspdchgtgt.REASON	Returntoecon	(N/A)	RETU
		» RNTOECON P			
5006	5015	Perf_Background_Dpkg.Pcspdchgtgt.AIRBRAKE	false	(N/A)	
		» FALSE P			
5007	5016	Perf_Background_Dpkg.Pcspdchgtgt.SPARE1	1	(N/A)	
		» 1 P			
5008	5017	Perf_Integration_Dpkg.Pcspdchgident	"1234567"	(N/A)	"
		» 1234567" P			
5009	5018				
5010	5019				
5011	5020	====> All 32 Comparisons Passed <====			
5012	5021				
5013	5022				
5014	5023	TESTID: 30			
5015	5024	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine			
		» s are on,			
5016	5025	the aircraft gross weight shall be set to any one of the following:			
5017	5026	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air			
		» craft			
5018	5027	gross weight and Take Off gross weight being valid			
5019	5028	- Aircraft GW from the Performance Weights function, if the flight phase is other			
5020	5029	than takeoff or before, or the aircraft gross weight or the Take Off gross weight			
5021	5030	being invalid			
5022	5031	The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.			
5023	5032	PERF_SDD_07501_INT			
5024	5033	--In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar			
		» e off,			
5025	5034	--the flight phase is Takeoff,the aircraft gross weight and Take Off gross weight being valid, then Aircraft Takeo			
		» ff GW			
5026	5035	--from the Performance Weights function			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5027  5036
5028  5037      If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are val
             »  id,
5029  5038        then the speed target tag and the speed target are not set.
5030  5039        PERF_SDD_07502_INT
5031  5040        If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is valid,
5032  5041        then the speed target tag and the speed target are not set.
5033  5042        PERF_SDD_07503_INT
5034  5043        --In this tese case, the mach target and the CAS target are valid, but the fcu mach selected mode is invalid
5035  5044        When the FPA mode active and the target retrieved from IO are valid,
5036  5045        then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
5037  5046        The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
             »   retrieved
5038  5047        from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
             »  rom ft/min
5039  5048        to ft/sec. The flag indicating the vertical speed mode active is set to True.
5040  5049        PERF_SDD_07504_INT
5041  5050        --In this test case, the target retrieved from IO are valid but the FPA mode active is not valid(Fpa_Mode_Active.D
             »  ata= false),
5042  5051        -- the Vertical Speed mode active and the target retrieved from IO are valid
5043  5052        The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
5044  5053        PERF_SDD_07505_INT
5045  5054       --In this test case, the destination is being defined but the destination QNH data is valid
5046  5055        If the current itinerary is neither Current Mode Predictions (Normal or High priority)
5047  5056        nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
5048  5057        PERF_SDD_07506(PERF_SRD_6192)
5049  5058        --In this test case,the current itinerary is Current_Mode_Hi_Pri.
5050  5059         ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is t
             »  he first pass
5051  5060        of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
5052  5061        PERF_SDD_08225_INT
5053  5062        --In this test case, only the Flifht phase is Take off, the other are satisfied
5054  5063        REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT, PERF_SDD_07504_INT,
5055  5064                                        PERF_SDD_07505_INT, PERF_SDD_07506(PERF_SRD_6192),PERF_SDD_08225_INT
5056  5065        SUPPORTING REQUIREMENTS : N/A
5057  5066
5058  5067
5059  5068  INPUT                                                                                                           VALUE
5060  5069  ----------------------------------------------------------------------------------------------------  ------------------
             »  --------
5061  5070  CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
             »      True
5062  5071  CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
             »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5063	5072	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data	
		» True	
5064	5073	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data	
		» True	
5065	5074	CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data	
		» True	
5066	5075	Perf_Dpkg.Min_Gwt	
		» 100.0	
5067	5076	Perf_Dpkg.Max_Gwt	
		» 400.0	
5068	5077	Perf_Background_Dpkg.Flight_Plan_Type	I
		» s_Active	
5069	5078	Perf_Background_Dpkg.Ats_Enable	
		» True	
5070	5079	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	
		» Takeoff	
5071	5080	Perf_Database_Dpkg.Psmmo	
		» 0.45	
5072	5081	Perf_Background_Dpkg.Pszfw	
		» 300.0	
5073	5082	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
5074	5083	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
5075	5084	Perf_Background_Dpkg.Psairborne	
		» False	
5076	5085	Perf_Background_Dpkg.Psautolat	
		» True	
5077	5086	Guid_Ext_Dpkg.Gcxxlatautoc	
		» False	
5078	5087	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
5079	5088	Perf_Background_Dpkg.Psengout	
		» True	
5080	5089	Cdk_Vert_Dpkg:Body.Engine_Out_I	
		» False	
5081	5090	Perf_Background_Dpkg.Pcholdflags.Hmdecel	
		» True	
5082	5091	Perf_Dpkg.Repredict_Hm_Decel	
		» True	
5083	5092	Perf_Background_DPkg.Pshmdecel	
		» True	
5084	5093	Perf_Background_Dpkg.Pcholdflags.Hmactive	
		» True	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5085   5094 │Perf_Ads_Dpkg.Fi_Enabled
            │»       False
5086   5095 │Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
            │»       False
5087   5096 │Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            │»       True
5088   5097 │Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            │»       True
5089   5098 │Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            │»       True
5090   5099 │Perf_Background_Dpkg.Pcholdflags.Hmdistval
            │»       True
5091   5100 │Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
            │»       True
5092   5101 │Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
            │»       True
5093   5102 │Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
            │»       True
5094   5103 │Perf_Background_Dpkg.Psappspdlat
            │»       True
5095   5104 │Perf_Dpkg.Pcengoutprds
            │»    Altpln
5096   5105 │Perf_Background_Dpkg.Pcpathref
            │»    Onpath
5097   5106 │Guid_Ext_Dpkg.Va3Vertmde                                                      Perf_Ext_Tp
            │» kg.Vmspd
5098   5107 │Perf_Background_DPkg.Pscurcas
            │»       5.0
5099   5108 │Perf_Background_DPkg.Pscurmach
            │»       5.0
5100   5109 │Perf_Background_DPkg.Pscurtas
            │»       5.0
5101   5110 │Perf_Background_Dpkg.Pcitin.Itinerary                                          Current_Mod
            │» e_Hi_Pri
5102   5111 │Perf_Despath_Dpkg.Pcdespath.Vgavalid
            │»       True
5103   5112 │Perf_Background_Dpkg.Pstogwtval
            │»       True
5104   5113 │Perf_Background_Dpkg.Pstogwt
            │»      50.0
5105   5114 │Perf_Background_Dpkg.Pcgwind
            │»    valid
5106   5115 │Perf_Background_Dpkg.Psgw
            │»       0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5107   5116  Perf_Dpkg.Gross_Weight.Status
             »     valid
5108   5117  Perf_Dpkg.Gross_Weight.Data
             »     150.0
5109   5118  Perf_Integration_DPkg.Pcairbrakes
             »     Fullab
5110   5119  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             »     False
5111   5120  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             »     9000.0
5112   5121  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             »     200.0
5113   5122  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »     False
5114   5123  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             »     265.0
5115   5124  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             »     0.55
5116   5125  Perf_Background_Dpkg.Psstpclbact
             »     True
5117   5126  Perf_Background_Dpkg.Psstpdesact
             »     True
5118   5127  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »     0.0
5119   5128  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             »     0.0
5120   5129  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
             »     0.65
5121   5130  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             »     345.0
5122   5131  Perf_Background_Dpkg.Pccuraltcstr.Valid
             »     True
5123   5132  Perf_Background_Dpkg.Pcprebcalt.Valid
             »     True
5124   5133  Perf_Background_Dpkg.Pcgmttime.Hour
             »     2
5125   5134  Perf_Background_Dpkg.Pcgmttime.Minute
             »     2
5126   5135  Perf_Background_Dpkg.Pcgmttime.Second
             »     2
5127   5136  Perf_Background_Dpkg.Psinertvs
             »     5.0
5128   5137  Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
             »     0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5129   5138 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            | »        2
5130   5139 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            | »        0
5131   5140 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            | »        2
5132   5141 | Perf_Ads_Dpkg.Pr_Enabled
            | »     False
5133   5142 | ATC_DISCRETES_PKG:body.Adson_Flag
            | »     False
5134   5143 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            | »       true
5135   5144 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            | »       true
5136   5145 | ^Noise_End_Alt_Status                                               Takeoff_Alt_Type
            | » s.Active
5137   5146 | ^Noise_Speed_Val
            | »     True
5138   5147 | ^Noise_TSPD.valid
            | »     True
5139   5148 | ^Noise_TSPD.Data
            | »    150.0
5140   5149 | ^Noise_End_Alt
            | »    300.0
5141   5150 | ^Noise_Speed
            | »    250.0
5142   5151 | Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
            | »     True
5143   5152 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
            | »     True
5144   5153 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
            | »     21.0
5145   5154 | Perf_Background_Dpkg.Psorgalt
            | »  36080.0
5146   5155 | Perf_Background_Dpkg.Noise_Data.Altitude.Data
            | »      0.0
5147   5156 | Perf_Background_Dpkg.Noise_Data.Altitude.Valid
            | »     False
5148   5157 | Perf_Background_Dpkg.Noise_Data.Speed.Data
            | »      0.0
5149   5158 | Perf_Background_Dpkg.Noise_Data.Speed.Valid
            | »     False
5150   5159 | Perf_Background_Dpkg.Noise_Data.Tspd.Data
            | »      0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5151   5160  Perf_Background_Dpkg.Noise_Data.Tspd.Valid
             »     False
5152   5161  Perf_Background_Dpkg.Psacalt
             »       50.0
5153   5162  Perf_Background_Dpkg.Psacaltv
             »     True
5154   5163  Perf_Background_Dpkg.Pstruetrkv
             »     True
5155   5164  Perf_Background_Dpkg.Psvgrnd
             »       1.0
5156   5165  Perf_Background_Dpkg.Psvgrndval
             »     True
5157   5166  Perf_Background_Dpkg.Pcacposn.Data.Lat
             »     100.0
5158   5167  Perf_Background_Dpkg.Pcacposn.Data.Lon
             »     100.0
5159   5168  Perf_Background_Dpkg.Pcacposn.Valid
             »     false
5160   5169  Perf_Background_Dpkg.Pstruetrack
             »       0.2
5161   5170  Perf_Background_Dpkg.Pswindbrg
             »     150.0
5162   5171  Perf_Background_Dpkg.Pswindmag
             »     130.0
5163   5172  Perf_Background_Dpkg.Pswindval
             »     false
5164   5173  Fmcs_Partition_Data_Pkg.Ops_Time.Hour
             »       1
5165   5174  Fmcs_Partition_Data_Pkg.Ops_Time.Minute
             »       1
5166   5175  Fmcs_Partition_Data_Pkg.Ops_Time.Second
             »       1
5167   5176  Perf_Dpkg.Psnumengout
             »       1
5168   5177  Perf_Background_Dpkg.Psvgonpath
             »     true
5169   5178  Perf_Background_Dpkg.Pscrzalt.data
             »       10.0
5170   5179  Perf_Background_Dpkg.Pscrzalt.Valid
             »     false
5171   5180  Perf_Background_Dpkg.Psfinaldes
             »     false
5172   5181  Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
             »       230.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5173   5182  Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
             »   15000.0
5174   5183  Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type                          Vg_Ext_Tpkg.Clb
             » _Spd_Lim
5175   5184  Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                                             "
             » ABCD      "
5176   5185  Perf_Background_Dpkg.Pcactorsec
             »    Active
5177   5186  Perf_Dpkg.Pcfirstpred(Active)
             »     true
5178   5187  Perf_Background_Dpkg.Psenginesoff
             »     True
5179   5188  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
             »    0.011
5180   5189  Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid
             »     True
5181   5190  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             »    10.01
5182   5191  Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid
             »     True
5183   5192  Perf_Background_Dpkg.Psfirstpass
             »     False
5184   5193  Perf_Background_Dpkg.Psonofrstpas
             »     False
5185   5194  Perf_Background_Dpkg.Psftpbwritok
             »     False
5186   5195  Perf_Background_Dpkg.Pslvlatbcalt
             »     True
5187   5196  Perf_Integration_Dpkg.Pslvlblwpth
             »     True
5188   5197  Perf_Background_Dpkg.Psfi_Possble
             »     True
5189   5198  Perf_Background_Dpkg.On_Icao_Leg_Decel
             »     True
5190   5199  Perf_Background_Dpkg.Psignorehm
             »     True
5191   5200  Perf_Integration_Dpkg.Pcoldwspdchg                                                          Ica
             » olimited
5192   5201  Perf_Background_Dpkg.Adc_Fg_Valid
             »     False
5193   5202  Perf_Dpkg.Pcdelspdrec.Predicted
             »     True
5194   5203  Perf_Background_Dpkg.Pcoldeconcas.Valid
             »     True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5195   5204 Perf_Dpkg.takeoff_gwt.valid
            »      true
5196   5205 Perf_Dpkg.takeoff_gwt.data
            »      410.0
5197   5206 Perf_Background_Dpkg.Pcspdtgttag
            »      Cas
5198   5207 Perf_Background_Dpkg.Psspdtarget
            »      0.0
5199   5208 Perf_Background_Dpkg.Psfpatgt
            »      0.0
5200   5209 Perf_Background_Dpkg.Psfpaact
            »      False
5201   5210 Perf_Integration_Dpkg.Psvstgt
            »      0.0
5202   5211 Perf_Background_Dpkg.Psvsact
            »      False
5203   5212 Perf_Background_Dpkg.Psdestqnh.Valid
            »      True
5204   5213 Perf_Background_Dpkg.Pcdestglidx
            »      1
5205   5214 Perf_Background_Dpkg.Psdestqnh.Data
            »      0.0
5206   5215 Perf_Background_Dpkg.Pcvertmode                                          Perf_Int_Base_Tpkg
            » .Openclb
5207   5216 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
            »      true
5208   5217 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
            »      False
5209   5218 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target
            »      1.0
5210   5219 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target
            »      True
5211   5220 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target
            »      1.0
5212   5221 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
            »      True
5213   5222 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
            »      True
5214   5223 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            »      False
5215   5224 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
            »      True
5216   5225 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
            »      49.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5217   5226  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
             »        True
5218   5227  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
             »        True
5219   5228  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target
             »        60.0
5220   5229  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
             »        True
5221   5230  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
             »        true
5222   5231  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
             »        True
5223   5232  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
             »        True
5224   5233  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
             »        20000
5225   5234  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
             »        79.0
5226   5235  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
             »        60.0
5227   5236  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
             »        0.5
5228   5237  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
             »        49.0
5229   5238  CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
             »        true
5230   5239  CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
             »        25001.1
5231   5240  Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
             »        25001.0
5232   5241  Guid_Spds_Dpkg.Vc3curspds.Fltphase
             »        Takeoff
5233   5242  Perf_Background_Dpkg.Speed_Annunciation.Cas
             »        0.0
5234   5243  Perf_Background_Dpkg.Speed_Annunciation.Alt
             »        0.0
5235   5244  Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                                            Vg_Ext_Tpkg
             »   .Invalid
5236   5245  Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                                          "
             »          "
5237   5246  Perf_Background_Dpkg.Flex_Isadev.Data
             »        5.0
5238   5247  Perf_Background_Dpkg.Psvsact
             »        True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5239   5248 | Perf_Background_Dpkg.Psfpaact
            | »       True
5240   5249 | Perf_Background_Dpkg.Pcspeedmode                                                                                       Perf_Ext_Tpk
            | » g.Vmnone
5241   5250 | Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
            | »       0.0
5242   5251 | Computoldtgt
            | »       True
5243   5252 | Curspdsval
            | »       False
5244   5253 |
5245   5254 |
5246   5255 | OUTPUT                                                    EXPECTED                 TOLERANCE              ACTUAL
            | »          P/F
5247   5256 | ------------------------------------------------------  ------------------------------  -------------  ------------------
            | » --------  ----
5248   5257 | Perf_Background_Dpkg.Psgw                                                  410.0        0.001                       4.1
            | » 0000E+02  P
5249   5258 | Perf_Background_Dpkg.Pcspdtgttag                         /= Fmcs_Base_Types.Mach         (N/A)
            | »       CAS  P
5250   5259 | Perf_Background_Dpkg.Psspdtarget                                          /= 1.0        0.001                       0.0
            | » 0000E+00  P
5251   5260 | Perf_Background_Dpkg.Pcspdtgttag                                            Cas         (N/A)
            | »       CAS  P
5252   5261 | Perf_Background_Dpkg.Psspdtarget                                            1.0         0.001                       1.0
            | » 0000E+00  P
5253   5262 | Perf_Background_Dpkg.Psdestqnh.Data                                      /= 1013.0      0.001                       0.0
            | » 0000E+00  P
5254   5263 | Perf_Background_Dpkg.Pcvertmode                          /= Perf_Int_Base_Tpkg.Econo     (N/A)
            | »   OPENCLB  P
5255   5264 | Perf_Background_Dpkg.Psgw                                                  400.0        0.001                       4.0
            | » 0000E+02  P
5256   5265 | Perf_Background_Dpkg.Psfpaact                                            /= True        (N/A)
            | »     FALSE  P
5257   5266 | Perf_Background_Dpkg.Psvsact                                               True         (N/A)
            | »      TRUE  P
5258   5267 | Perf_Background_Dpkg.Psfpatgt                                            /= 0.86        0.001                       0.0
            | » 0000E+00  P
5259   5268 | Perf_Integration_Dpkg.Psvstgt                                              1.0         0.001                       1.0
            | » 0000E+00  P
5260   5269 | Perf_Background_Dpkg.Pcspeedmode                         /= Perf_Ext_Tpkg.Vmecon         (N/A)
            | »     VMSPD  P
5261   5270 |
5262   5271 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5263	5272	====> All 13 Comparisons Passed <====
5264	5273	
5265	5274	
5266	5275	TESTID: 31
5267	5276	
5268	5277	When the flight phase is Descent, the descent path reference shall be set to
5269	5278	the guidance descent path reference(Va3pathref).
5270	5279	PERF_SDD_07500_INT
5271	5280	
5272	5281	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
		» s are on,
5273	5282	the aircraft gross weight shall be set to any one of the following:
5274	5283	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
		» craft
5275	5284	gross weight and Take Off gross weight being valid
5276	5285	- Aircraft GW from the Performance Weights function, if the flight phase is other
5277	5286	than takeoff or before, or the aircraft gross weight or the Take Off gross weight
5278	5287	being invalid
5279	5288	The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
5280	5289	PERF_SDD_07501_INT
5281	5290	--In this test case,the current itinerary is Fuel_Plan_Fpln_Preds,the aircraft gross weight not be set.
5282	5291	
5283	5292	If the mach target and the fcu mach selected mode retrieved from IO via Io_Fg_Fm_Internal_Dpkg.Mach_Target are inv
		» alid,
5284	5293	then the speed target tag shall not be set to indicate Mach and the speed target is not set the value of mach targ
		» et.
5285	5294	PERF_SDD_07502_INT (Here do robust testing of PERF_SDD_07502_INT)
5286	5295	If the CAS target from IO is valid and the fcu mach selected mode retrieved from IO is invalid,
5287	5296	then the speed target tag shall not be set to indicate CAS and the speed target is not set the value of CAS target
		» .
5288	5297	PERF_SDD_07503_INT (Here do robust testing of PERF_SDD_07503_INT)
5289	5298	--In this test case, the mach target and the CAS target are invalid(negative case)
5290	5299	When the FPA mode active and the target retrieved from IO are valid,
5291	5300	then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
5292	5301	The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
		» retrieved
5293	5302	from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
		» rom ft/min
5294	5303	to ft/sec. The flag indicating the vertical speed mode active is set to True.
5295	5304	--In this test case, the Fpa_Mode_Active.Valid and Vspd_Mode_Active.Valid is false
5296	5305	PERF_SDD_07504_INT (Here do robust testing of PERF_SDD_07504_INT)
5297	5306	
5298	5307	ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
		» e first pass

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5299   5308      of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
5300   5309      PERF_SDD_08225_INT
5301   5310      --In this test case, all the condition are true and FLIGHT PHASE is descent
5302   5311      During descent or approach with current target speeds from FG are valid, ECON CAS limited by speed constraint othe
            » r than
5303   5312      speed limit shall be set to current CAS speed if partially limited managed speed target is zero else it is set to
5304   5313      partially limited managed speed target.
5305   5314      PERF_SDD_07540
5306   5315      --In this test case, current target speeds from FG are valid, and partially limited managed speed target is zero
5307   5316      During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i
            » n descent
5308   5317      then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
5309   5318      PERF_SDD_08227_INT
5310   5319      --In this test case,current target speeds from FG are valid, speed limit is false, ICAO limit is true
5311   5320      If current target speeds from FG are valid, then the speed change target restriction record from VG is copied to P
            » erf and
5312   5321      the speed change apply flag shall be set if the aircraft is in the deceleration zone to HM.
5313   5322      PERF_SDD_07542_INT
5314   5323      --In this test case, current target speeds from FG are valid, and the aircraft is in the deceleration zone
5315   5324
5316   5325      REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT, PERF_SDD_07502_INT, PERF_SDD_07503_INT, PERF_SDD_07504_INT,
5317   5326                                      PERF_SDD_07540, PERF_SDD_08227_INT, PERF_SDD_08225_INT
5318   5327                                      PERF_SDD_07542_INT, PERF_SDD_07500_INT
5319   5328      SUPPORTING REQUIREMENTS : N/A
5320   5329
5321   5330
5322   5331 INPUT                                                                                                           VALUE
5323   5332 ------------------------------------------------------------------------------------------ ------------------
            » --------
5324   5333 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
            »      True
5325   5334 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
            »      True
5326   5335 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
            »      True
5327   5336 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
            »      True
5328   5337 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
            »      True
5329   5338 Perf_Dpkg.Min_Gwt
            »      100.0
5330   5339 Perf_Dpkg.Max_Gwt
            »      400.0
5331   5340 Perf_Background_Dpkg.Flight_Plan_Type                                                                               I
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» s_Active
5332	5341	Perf_Background_Dpkg.Ats_Enable
		» True
5333	5342	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
		» Descent
5334	5343	Perf_Database_Dpkg.Psmmo
		» 0.45
5335	5344	Perf_Background_Dpkg.Pszfw
		» 300.0
5336	5345	Perf_Background_Dpkg.Psblockfuel
		» 50.0
5337	5346	Perf_Background_Dpkg.Pstaxifuel
		» 25.0
5338	5347	Perf_Background_Dpkg.Psairborne
		» False
5339	5348	Perf_Background_Dpkg.Psautolat
		» True
5340	5349	Guid_Ext_Dpkg.Gcxxlatautoc
		» False
5341	5350	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
		» False
5342	5351	Perf_Background_Dpkg.Psengout
		» True
5343	5352	Cdk_Vert_Dpkg:Body.Engine_Out_I
		» False
5344	5353	Perf_Background_Dpkg.Pcholdflags.Hmdecel
		» True
5345	5354	Guid_Checkpoint_Resynch_Dpkg.Va3holdflags.Hmdecel
		» True
5346	5355	Perf_Dpkg.Pshmdeleted
		» false
5347	5356	Perf_Dpkg.Repredict_Hm_Decel
		» True
5348	5357	Perf_Background_DPkg.Pshmdecel
		» True
5349	5358	Perf_Background_Dpkg.Pcholdflags.Hmactive
		» True
5350	5359	Perf_Ads_Dpkg.Fi_Enabled
		» False
5351	5360	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
		» False
5352	5361	Perf_Background_Dpkg.Pcholdflags.Manhmwarn
		» True
5353	5362	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                        »       True
     5354   5363 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
                        »       True
     5355   5364 Perf_Background_Dpkg.Pcholdflags.Hmdistval
                        »       True
     5356   5365 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
                        »       True
     5357   5366 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
                        »       True
     5358   5367 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
                        »       False
     5359   5368 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
                        »       True
     5360   5369 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
                        »       True
     5361   5370 Perf_Background_Dpkg.Psappspdlat
                        »       True
     5362   5371 Perf_Dpkg.Pcengoutprds
                        »     Altpln
     5363   5372 Perf_Background_Dpkg.Pcpathref
                        »     Onpath
     5364   5373 Guid_Ext_Dpkg.Va3Vertmde                                                    Perf_Ext_Tp
                   » kg.Vmspd
     5365   5374 Perf_Background_DPkg.Pscurcas
                        »       5.0
     5366   5375 Perf_Background_DPkg.Pscurmach
                        »       5.0
     5367   5376 Perf_Background_DPkg.Pscurtas
                        »       5.0
     5368   5377 Perf_Background_Dpkg.Pcitin.Itinerary                                       Fuel_Plan_Fp
                   » ln_Preds
     5369   5378 Perf_Background_Dpkg.Pcactorsec
                        »     Active
     5370   5379 Perf_Dpkg.Pcfirstpred(Active)
                        »       True
     5371   5380 Perf_Despath_Dpkg.Pcdespath.Vgavalid
                        »       True
     5372   5381 Perf_Background_Dpkg.Pstogwtval
                        »     False
     5373   5382 Perf_Background_Dpkg.Pstogwt
                        »     50.0
     5374   5383 Perf_Background_Dpkg.Pcgwind
                        »   Invalid
     5375   5384 Perf_Background_Dpkg.Psgw
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »        0.0
 5376    5385   Perf_Dpkg.Gross_Weight.Status
                    »      Valid
 5377    5386   Perf_Dpkg.Gross_Weight.Data
                    »      150.0
 5378    5387   Perf_Integration_DPkg.Pcairbrakes
                    »      Fullab
 5379    5388   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
                    »      False
 5380    5389   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
                    »      9000.0
 5381    5390   Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
                    »      200.0
 5382    5391   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                    »      False
 5383    5392   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                    »      265.0
 5384    5393   Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                    »      0.55
 5385    5394   Perf_Background_Dpkg.Psstpclbact
                    »      True
 5386    5395   Perf_Background_Dpkg.Psstpdesact
                    »      True
 5387    5396   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                    »        0.0
 5388    5397   Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                    »        0.0
 5389    5398   Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
                    »      0.011
 5390    5399   Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid
                    »      True
 5391    5400   Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                    »      10.01
 5392    5401   Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid
                    »      False
 5393    5402   Perf_Background_Dpkg.Pccuraltcstr.Valid
                    »      True
 5394    5403   Perf_Background_Dpkg.Pcprebcalt.Valid
                    »      True
 5395    5404   Perf_Background_Dpkg.Pcgmttime.Hour
                    »        2
 5396    5405   Perf_Background_Dpkg.Pcgmttime.Minute
                    »        2
 5397    5406   Perf_Background_Dpkg.Pcgmttime.Second
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 2
5398	5407	Perf_Background_Dpkg.Psinertvs
		» 5.0
5399	5408	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
		» 0
5400	5409	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
		» 2
5401	5410	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
		» 0
5402	5411	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
		» 2
5403	5412	Perf_Ads_Dpkg.Pr_Enabled
		» False
5404	5413	ATC_DISCRETES_PKG:body.Adson_Flag
		» False
5405	5414	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
		» true
5406	5415	CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
		» true
5407	5416	^Noise_End_Alt_Status Takeoff_Alt_Type
		» s.Active
5408	5417	^Noise_Speed_Val
		» True
5409	5418	^Noise_TSPD.valid
		» True
5410	5419	^Noise_TSPD.Data
		» 150.0
5411	5420	^Noise_End_Alt
		» 300.0
5412	5421	^Noise_Speed
		» 250.0
5413	5422	Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
		» True
5414	5423	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
		» True
5415	5424	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
		» 21.0
5416	5425	Perf_Background_Dpkg.Psorgalt
		» 36080.0
5417	5426	Perf_Background_Dpkg.Noise_Data.Altitude.Data
		» 0.0
5418	5427	Perf_Background_Dpkg.Noise_Data.Altitude.Valid
		» False
5419	5428	Perf_Background_Dpkg.Noise_Data.Speed.Data

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »        0.0
5420   5429   Perf_Background_Dpkg.Noise_Data.Speed.Valid
                »     False
5421   5430   Perf_Background_Dpkg.Noise_Data.Tspd.Data
                »        0.0
5422   5431   Perf_Background_Dpkg.Noise_Data.Tspd.Valid
                »     False
5423   5432   Perf_Background_Dpkg.Pcfltphase
                »   Takeoff
5424   5433   Perf_Background_Dpkg.Psacalt
                »       50.0
5425   5434   Perf_Background_Dpkg.Psacaltv
                »     True
5426   5435   Perf_Background_Dpkg.Pstruetrkv
                »     True
5427   5436   Perf_Background_Dpkg.Psvgrnd
                »        1.0
5428   5437   Perf_Background_Dpkg.Psvgrndval
                »     True
5429   5438   Perf_Background_Dpkg.Pcacposn.Data.Lat
                »      100.0
5430   5439   Perf_Background_Dpkg.Pcacposn.Data.Lon
                »      100.0
5431   5440   Perf_Background_Dpkg.Pcacposn.Valid
                »     false
5432   5441   Perf_Background_Dpkg.Pstruetrack
                »        0.2
5433   5442   Perf_Background_Dpkg.Pswindbrg
                »      150.0
5434   5443   Perf_Background_Dpkg.Pswindmag
                »      130.0
5435   5444   Perf_Background_Dpkg.Pswindval
                »     false
5436   5445   Fmcs_Partition_Data_Pkg.Ops_Time.Hour
                »        1
5437   5446   Fmcs_Partition_Data_Pkg.Ops_Time.Minute
                »        1
5438   5447   Fmcs_Partition_Data_Pkg.Ops_Time.Second
                »        1
5439   5448   Perf_Dpkg.Psnumengout
                »        1
5440   5449   Perf_Background_Dpkg.Psvgonpath
                »     true
5441   5450   Perf_Background_Dpkg.Pscrzalt.data
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                      »      10.0
  5442    5451 Perf_Background_Dpkg.Pscrzalt.Valid
                      »      false
  5443    5452 Perf_Background_Dpkg.Psfinaldes
                      »      false
  5444    5453 Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
                      »      230.0
  5445    5454 Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
                      »   15000.0
  5446    5455 Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type                      Vg_Ext_Tpkg.Clb
                      » _Spd_Lim
  5447    5456 Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                                         "
                      » ABCD     "
  5448    5457 Perf_Background_Dpkg.Psfirstpass
                      »      False
  5449    5458 Perf_Background_Dpkg.Psonofrstpas
                      »      False
  5450    5459 Perf_Background_Dpkg.Psftpbwritok
                      »      False
  5451    5460 Perf_Background_Dpkg.Psvsact
                      »      True
  5452    5461 Perf_Background_Dpkg.Psfpaact
                      »      True
  5453    5462 Perf_Background_Dpkg.Pslvlatbcalt
                      »      True
  5454    5463 Perf_Integration_Dpkg.Pslvlblwpth
                      »      True
  5455    5464 Perf_Background_Dpkg.Psfi_Possble
                      »      True
  5456    5465 Perf_Background_Dpkg.On_Icao_Leg_Decel
                      »      True
  5457    5466 Perf_Background_Dpkg.Psignorehm
                      »      True
  5458    5467 Perf_Integration_Dpkg.Pcoldwspdchg                                                    Ica
                      » olimited
  5459    5468 Perf_Background_Dpkg.Adc_Fg_Valid
                      »      False
  5460    5469 Perf_Dpkg.Pcdelspdrec.Predicted
                      »      True
  5461    5470 Perf_Background_Dpkg.Pcoldeconcas.Valid
                      »      True
  5462    5471 Prf_Bkgnd_Pkg:body.Fgspdsvalid
                      »      True
  5463    5472 Perf_Dpkg.takeoff_gwt.valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» True	
5464	5473	Perf_Dpkg.takeoff_gwt.data	
		» 400.0	
5465	5474	Perf_Background_Dpkg.Psenginesoff	
		» True	
5466	5475	Perf_Background_Dpkg.Pcspdtgttag	
		» Cas	
5467	5476	Perf_Background_Dpkg.Psspdtarget	
		» 0.0	
5468	5477	Perf_Background_Dpkg.Psfpatgt	
		» 0.0	
5469	5478	Perf_Background_Dpkg.Psfpaact	
		» False	
5470	5479	Perf_Integration_Dpkg.Psvstgt	
		» 0.0	
5471	5480	Perf_Background_Dpkg.Psvsact	
		» False	
5472	5481	Guid_Spds_Dpkg.Vc3prtlimcas	
		» 0.0	
5473	5482	Perf_Background_Dpkg.Psrtrntocas	
		» 0.0	
5474	5483	Perf_Background_Dpkg.Pcspdchgtgt.Apply	
		» True	
5475	5484	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply	
		» False	
5476	5485	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Ident	"
		» 1234567"	
5477	5486	Perf_Integration_Dpkg.Pcspdchgident	"
		» 7654321"	
5478	5487	Perf_Background_Dpkg.Psdestqnh.Valid	
		» False	
5479	5488	Perf_Background_Dpkg.Pcdestglidx	
		» 0	
5480	5489	Perf_Background_Dpkg.Psdestqnh.Data	
		» 0.0	
5481	5490	Perf_Background_Dpkg.Pcvertmode	Perf_Int_Base_Tpkg
		» .Openclb	
5482	5491	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude	
		» True	
5483	5492	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach	
		» true	
5484	5493	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas	
		» true	
5485	5494	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »      false
   5486    5495 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
                  »      true
   5487    5496 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Mach_Target
                  »      False
   5488    5497 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Mach_Target
                  »      1.0
   5489    5498 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Speed_Target
                  »      1.0
   5490    5499 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
                  »      False
   5491    5500 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
                  »      False
   5492    5501 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
                  »      true
   5493    5502 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
                  »      True
   5494    5503 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
                  »   57.3066
   5495    5504 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
                  »      True
   5496    5505 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
                  »      True
   5497    5506 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target
                  »      60.0
   5498    5507 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
                  »      true
   5499    5508 | CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
                  »      true
   5500    5509 | Perf_Background_Dpkg.Speed_Annunciation.Cas
                  »      0.0
   5501    5510 | Perf_Background_Dpkg.Speed_Annunciation.Alt
                  »      0.0
   5502    5511 | Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                      Vg_Ext_Tpkg
                  » .Invalid
   5503    5512 | Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                      "
                  »          "
   5504    5513 | Perf_Background_Dpkg.Flex_Isadev.Data
                  »      5.0
   5505    5514 | Perf_Background_Dpkg.Pslimited
                  »      false
   5506    5515 | Perf_Background_Dpkg.Pcspeedmode                                                            Perf_Ext_Tpk
                  » g.Vmnone
   5507    5516 | Perf_Background_Dpkg.Psrtrntocas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

			EXPECTED	TOLERANCE	ACTUAL
		» 0.0			
5508	5517	Computoldtgt			
		» True			
5509	5518	Curspdsval			
		» False			
5510	5519	Xoveralt			
		» 0.0			
5511	5520				
5512	5521				
5513	5522	OUTPUT	EXPECTED	TOLERANCE	ACTUAL
		» P/F			
5514	5523	--	-----------------------------	-------------	------------------
		» -------- ----			
5515	5524	Perf_Background_Dpkg.Psgw	0.0	0.001	0.0
		» 0000E+00 P			
5516	5525	Perf_Background_Dpkg.Pcspdtgttag	/= Fmcs_Base_Types.Mach	(N/A)	
		» CAS P			
5517	5526	Perf_Background_Dpkg.Psspdtarget	/= 1.0	0.001	0.0
		» 0000E+00 P			
5518	5527	Perf_Background_Dpkg.Psspdtarget	/= 1.0	0.001	0.0
		» 0000E+00 P			
5519	5528	Perf_Background_Dpkg.Pcspdtgttag	Cas	(N/A)	
		» CAS P			
5520	5529	Perf_Background_Dpkg.Pcspdchgtgt.Apply	False	(N/A)	
		» FALSE P			
5521	5530	Perf_Integration_Dpkg.Pcspdchgident	"1234567"	(N/A)	"
		» 1234567" P			
5522	5531	Perf_Background_Dpkg.Pshmdecel	True	(N/A)	
		» TRUE P			
5523	5532	Perf_Background_Dpkg.Pcvertmode	Perf_Int_Base_Tpkg.Econo	(N/A)	
		» ECONO P			
5524	5533	Perf_Background_Dpkg.Psfpatgt	/= 1.0	0.001	0.0
		» 0000E+00 P			
5525	5534	Perf_Background_Dpkg.Psfpaact	/= True	(N/A)	
		» FALSE P			
5526	5535	Perf_Integration_Dpkg.Psvstgt	/= 1.0	0.001	0.0
		» 0000E+00 P			
5527	5536	Perf_Background_Dpkg.Psvsact	/= true	(N/A)	
		» FALSE P			
5528	5537	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim	False	(N/A)	
		» FALSE P			
5529	5538	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim	True	(N/A)	
		» TRUE P			
5530	5539	Perf_Background_Dpkg.Psrtrntocas	10.01	0.001	1.0

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 0100E+01 P
5531	5540	Perf_Background_Dpkg.Pslimited True (N/A)
		» TRUE P
5532	5541	Perf_Background_Dpkg.Pcspdchgtgt.Apply True (N/A)
		» TRUE P
5533	5542	Perf_Background_Dpkg.Pcspeedmode Perf_Ext_Tpkg.Vmecon (N/A)
		» VMECON P
5534	5543	
5535	5544	
5536	5545	====> All 19 Comparisons Passed <====
5537	5546	
5538	5547	
5539	5548	TESTID: 32
5540	5549	If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
		» s are on,
5541	5550	the aircraft gross weight shall be set to any one of the following:
5542	5551	- Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
		» craft
5543	5552	gross weight and Take Off gross weight being valid
5544	5553	- Aircraft GW from the Performance Weights function, if the flight phase is other
5545	5554	than takeoff or before, or the aircraft gross weight or the Take Off gross weight
5546	5555	being invalid
5547	5556	The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
5548	5557	PERF_SDD_07501_INT
5549	5558	--In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is Secondary,and eng
		» ines are off,
5550	5559	
5551	5560	The destination QNH data shall be initialized to standard QNH if it is invalid with the destination being defined
5552	5561	PERF_SDD_07505_INT
5553	5562	--In this test case, The destination QNH data is invalid but the destination not being defined
5554	5563	If the current itinerary is neither Current Mode Predictions (Normal or High priority)
5555	5564	nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
5556	5565	PERF_SDD_07506(PERF_SRD_6192)
5557	5566	--In this test case,the current itinerary is Current_Mode_Preds
5558	5567	
5559	5568	ECON or LRC speeds (based on the selected Flight Criterion) shall be used during descent or approach if this is th
		» e first pass
5560	5569	of Predictions after a flight plan change for the current working flight plan & manual speed mode is set.
5561	5570	PERF_SDD_08225_INT
5562	5571	--In this test case, this is the first pass and flight phase is descent but it is not manual speed mode,
5563	5572	During descent or approach with current target speeds from FG are valid, if speed limit or ICAO limit is latched i
		» n descent
5564	5573	then ECON/LRC (based on the selected flight criterion), CAS limited flag shall be set to true.
5565	5574	PERF_SDD_08227_INT

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5566   5575      --In this test case, current target speeds from FG is valid During descent, speed limit and ICAO limit are all fal
              » se
5567   5576    Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
5568   5577    are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
              » d to FL250.
5569   5578    PERF_SDD_07543_INT
5570   5579    --in this test case, only Guid_Spds_Dpkg.Vc3Curspds.Cas.Data leaa than the lower limits, the other are satisfied
5571   5580    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07505_INT,PERF_SDD_07506(PERF_SRD_6192), PERF_SDD_08225_INT,PERF_SDD_0822
              » 7_INT,
5572   5581                            PERF_SDD_07543_INT,PERF_SDD_07501_INT
5573   5582    SUPPORTING REQUIREMENTS : N/A
5574   5583
5575   5584
5576   5585 INPUT                                                                                              VALUE
5577   5586 ------------------------------------------------------------------------------------- -----------------
              » --------
5578   5587 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »      True
5579   5588 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »      True
5580   5589 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »      True
5581   5590 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »      True
5582   5591 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »      True
5583   5592 Perf_Dpkg.Min_Gwt
              »      100.0
5584   5593 Perf_Dpkg.Max_Gwt
              »      400.0
5585   5594 Perf_Background_Dpkg.Flight_Plan_Type                                                                 I
              » s_Active
5586   5595 Perf_Background_Dpkg.Ats_Enable
              »      True
5587   5596 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              »    Descent
5588   5597 Perf_Database_Dpkg.Psmmo
              »      0.45
5589   5598 Perf_Background_Dpkg.Pszfw
              »      300.0
5590   5599 Perf_Background_Dpkg.Psblockfuel
              »      50.0
5591   5600 Perf_Background_Dpkg.Pstaxifuel
              »      25.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5592   5601  Perf_Background_Dpkg.Psairborne
              »      False
5593   5602  Perf_Background_Dpkg.Psautolat
              »        True
5594   5603  Guid_Ext_Dpkg.Gcxxlatautoc
              »      False
5595   5604  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
              »      False
5596   5605  Perf_Background_Dpkg.Psengout
              »        True
5597   5606  Cdk_Vert_Dpkg:Body.Engine_Out_I
              »      False
5598   5607  Perf_Background_Dpkg.Pcholdflags.Hmdecel
              »        True
5599   5608  Perf_Dpkg.Repredict_Hm_Decel
              »        True
5600   5609  Perf_Background_DPkg.Pshmdecel
              »        True
5601   5610  Perf_Background_Dpkg.Pcholdflags.Hmactive
              »        True
5602   5611  Perf_Ads_Dpkg.Fi_Enabled
              »      False
5603   5612  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »      False
5604   5613  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »        True
5605   5614  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »        True
5606   5615  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »        True
5607   5616  Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »        True
5608   5617  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »        True
5609   5618  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »        True
5610   5619  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »        True
5611   5620  Perf_Background_Dpkg.Psappspdlat
              »        True
5612   5621  Perf_Dpkg.Pcengoutprds
              »      Altpln
5613   5622  Perf_Background_Dpkg.Pcpathref
              »      Onpath
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5614	5623	Guid_Ext_Dpkg.Va3Vertmde	Perf_Ext_Tpkg
		» .Vmexped	
5615	5624	Perf_Background_DPkg.Pscurcas	
		» 5.0	
5616	5625	Perf_Background_DPkg.Pscurmach	
		» 5.0	
5617	5626	Perf_Background_DPkg.Pscurtas	
		» 5.0	
5618	5627	Perf_Background_Dpkg.Pcitin.Itinerary	Current_Mo
		» de_Preds	
5619	5628	Perf_Despath_Dpkg.Pcdespath.Vgavalid	
		» True	
5620	5629	Perf_Background_Dpkg.Pstogwtval	
		» False	
5621	5630	Perf_Background_Dpkg.Pstogwt	
		» 50.0	
5622	5631	Perf_Background_Dpkg.Pcgwind	
		» Invalid	
5623	5632	Perf_Background_Dpkg.Psgw	
		» 0.0	
5624	5633	Perf_Dpkg.Gross_Weight.Status	
		» Invalid	
5625	5634	Perf_Dpkg.Gross_Weight.Data	
		» 150.0	
5626	5635	Perf_Integration_DPkg.Pcairbrakes	
		» Fullab	
5627	5636	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included	
		» False	
5628	5637	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt	
		» 9000.0	
5629	5638	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd	
		» 200.0	
5630	5639	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid	
		» False	
5631	5640	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas	
		» 265.0	
5632	5641	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach	
		» 0.55	
5633	5642	Perf_Background_Dpkg.Psstpclbact	
		» True	
5634	5643	Perf_Background_Dpkg.Psstpdesact	
		» True	
5635	5644	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	
		» 0.0	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5636   5645 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            | »        0.0
5637   5646 | Perf_Background_Dpkg.Pccuraltcstr.Valid
            | »        True
5638   5647 | Perf_Background_Dpkg.Pcprebcalt.Valid
            | »        True
5639   5648 | Perf_Background_Dpkg.Pcgmttime.Hour
            | »        2
5640   5649 | Perf_Background_Dpkg.Pcgmttime.Minute
            | »        2
5641   5650 | Perf_Background_Dpkg.Pcgmttime.Second
            | »        2
5642   5651 | Perf_Background_Dpkg.Psinertvs
            | »        5.0
5643   5652 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
            | »        0
5644   5653 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
            | »        2
5645   5654 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
            | »        0
5646   5655 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
            | »        2
5647   5656 | Perf_Ads_Dpkg.Pr_Enabled
            | »        False
5648   5657 | ATC_DISCRETES_PKG:body.Adson_Flag
            | »        False
5649   5658 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
            | »        true
5650   5659 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
            | »        true
5651   5660 | ^Noise_End_Alt_Status                                              Takeoff_Alt_Type
            | » s.Active
5652   5661 | ^Noise_Speed_Val
            | »        True
5653   5662 | ^Noise_TSPD.valid
            | »        True
5654   5663 | ^Noise_TSPD.Data
            | »        150.0
5655   5664 | ^Noise_End_Alt
            | »        300.0
5656   5665 | ^Noise_Speed
            | »        250.0
5657   5666 | Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
            | »        True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5658	5667	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
		» True
5659	5668	Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
		» 21.0
5660	5669	Perf_Background_Dpkg.Psorgalt
		» 36080.0
5661	5670	Perf_Background_Dpkg.Noise_Data.Altitude.Data
		» 0.0
5662	5671	Perf_Background_Dpkg.Noise_Data.Altitude.Valid
		» False
5663	5672	Perf_Background_Dpkg.Noise_Data.Speed.Data
		» 0.0
5664	5673	Perf_Background_Dpkg.Noise_Data.Speed.Valid
		» False
5665	5674	Perf_Background_Dpkg.Noise_Data.Tspd.Data
		» 0.0
5666	5675	Perf_Background_Dpkg.Noise_Data.Tspd.Valid
		» False
5667	5676	Perf_Background_Dpkg.Pcfltphase
		» Takeoff
5668	5677	Perf_Background_Dpkg.Psacalt
		» 50.0
5669	5678	Perf_Background_Dpkg.Psacaltv
		» True
5670	5679	Perf_Background_Dpkg.Pstruetrkv
		» True
5671	5680	Perf_Background_Dpkg.Psvgrnd
		» 1.0
5672	5681	Perf_Background_Dpkg.Psvgrndval
		» True
5673	5682	Perf_Background_Dpkg.Pcacposn.Data.Lat
		» 100.0
5674	5683	Perf_Background_Dpkg.Pcacposn.Data.Lon
		» 100.0
5675	5684	Perf_Background_Dpkg.Pcacposn.Valid
		» false
5676	5685	Perf_Background_Dpkg.Pstruetrack
		» 0.2
5677	5686	Perf_Background_Dpkg.Pswindbrg
		» 150.0
5678	5687	Perf_Background_Dpkg.Pswindmag
		» 130.0
5679	5688	Perf_Background_Dpkg.Pswindval
		» false

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5680	5689	Fmcs_Partition_Data_Pkg.Ops_Time.Hour
		» 1
5681	5690	Fmcs_Partition_Data_Pkg.Ops_Time.Minute
		» 1
5682	5691	Fmcs_Partition_Data_Pkg.Ops_Time.Second
		» 1
5683	5692	Perf_Dpkg.Psnumengout
		» 1
5684	5693	Perf_Background_Dpkg.Psvgonpath
		» true
5685	5694	Perf_Background_Dpkg.Pscrzalt.data
		» 10.0
5686	5695	Perf_Background_Dpkg.Pscrzalt.Valid
		» false
5687	5696	Perf_Background_Dpkg.Psfinaldes
		» false
5688	5697	Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
		» 230.0
5689	5698	Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
		» 15000.0
5690	5699	Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type		Vg_Ext_Tpkg.Clb
		» _Spd_Lim
5691	5700	Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident		"
		» ABCD "
5692	5701	Perf_Background_Dpkg.Pcactorsec		S
		» econdary
5693	5702	Perf_Dpkg.Pcfirstpred(Secondary)
		» True
5694	5703	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
		» 0.011
5695	5704	Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid
		» True
5696	5705	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
		» 9.99
5697	5706	Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid
		» True
5698	5707	Perf_Background_Dpkg.Psfirstpass
		» False
5699	5708	Perf_Background_Dpkg.Psonofrstpas
		» False
5700	5709	Perf_Background_Dpkg.Psftpbwritok
		» False
5701	5710	Perf_Background_Dpkg.Psvsact
		» True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5702 │ 5711 │ Perf_Background_Dpkg.Psfpaact
             │ »        True
5703 │ 5712 │ Perf_Background_Dpkg.Pslvlatbcalt
             │ »        True
5704 │ 5713 │ Perf_Integration_Dpkg.Pslvlblwpth
             │ »        True
5705 │ 5714 │ Perf_Background_Dpkg.Psfi_Possble
             │ »        True
5706 │ 5715 │ Perf_Background_Dpkg.On_Icao_Leg_Decel
             │ »        True
5707 │ 5716 │ Perf_Background_Dpkg.Psignorehm
             │ »        True
5708 │ 5717 │ Perf_Integration_Dpkg.Pcoldwspdchg                                                    Ica
             │ » olimited
5709 │ 5718 │ Perf_Background_Dpkg.Adc_Fg_Valid
             │ »        False
5710 │ 5719 │ Perf_Background_Dpkg.Psenginesoff
             │ »        True
5711 │ 5720 │ Perf_Dpkg.Pcdelspdrec.Predicted
             │ »        True
5712 │ 5721 │ Perf_Background_Dpkg.Pcoldeconcas.Valid
             │ »        True
5713 │ 5722 │ Prf_Bkgnd_Pkg:body.Fgspdsvalid
             │ »        True
5714 │ 5723 │ Perf_Dpkg.takeoff_gwt.valid
             │ »        True
5715 │ 5724 │ Perf_Dpkg.takeoff_gwt.data
             │ »        400.0
5716 │ 5725 │ Guid_Spds_Dpkg.Vc3prtlimcas
             │ »        1.0
5717 │ 5726 │ Perf_Background_Dpkg.Pcpredcount(Active)
             │ »        2
5718 │ 5727 │ Perf_Dpkg.Psfrstactprd
             │ »        False
5719 │ 5728 │ Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
             │ »        False
5720 │ 5729 │ Perf_Background_Dpkg.Psautolat
             │ »        True
5721 │ 5730 │ Perf_Background_Dpkg.Psappspdlat
             │ »        True
5722 │ 5731 │ Perf_Background_Dpkg.Psdestqnh.Valid
             │ »        false
5723 │ 5732 │ Perf_Background_Dpkg.Pcdestglidx
             │ »        0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5724   5733 Perf_Background_Dpkg.Psdestqnh.Data
            »        0.0
5725   5734 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
            »        True
5726   5735 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
            »        True
5727   5736 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            »        true
5728   5737 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
            »       false
5729   5738 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
            »        True
5730   5739 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
            »       false
5731   5740 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
            »       false
5732   5741 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
            »        True
5733   5742 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
            »        true
5734   5743 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
            »        true
5735   5744 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
            »        true
5736   5745 Perf_Background_Dpkg.Speed_Annunciation.Cas
            »        0.0
5737   5746 Perf_Background_Dpkg.Speed_Annunciation.Alt
            »        0.0
5738   5747 Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                           Vg_Ext_Tpkg
            » .Invalid
5739   5748 Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                         "
            »           "
5740   5749 Perf_Background_Dpkg.Flex_Isadev.Data
            »        5.0
5741   5750 Perf_Background_Dpkg.Pslimited
            »       false
5742   5751 Perf_Background_Dpkg.Pcvertmode                                                             Perf_Int_Base_Tpkg
            » .Openclb
5743   5752 Perf_Background_Dpkg.Pcspeedmode                                                               Perf_Ext_Tpk
            » g.Vmecon
5744   5753 Computoldtgt
            »        True
5745   5754 Curspdsval
            »       False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5746   5755
5747   5756
5748   5757 OUTPUT                                                        EXPECTED              TOLERANCE           ACTUAL
            »        P/F
5749   5758 -------------------------------------------------- ---------------------------  ------------  ------------------
            » --------  ----
5750   5759 Curcas                                                           0.0           0.001                 0.0
            » 0000E+00  P
5751   5760 Curmach                                                          0.0           0.001                 0.0
            » 0000E+00  P
5752   5761 Xoveralt                                                     25000.0           0.001                 2.5
            » 0000E+04  P
5753   5762 Perf_Background_Dpkg.Pslimited                              /= true            (N/A)
            »     FALSE  P
5754   5763 Perf_Background_Dpkg.Psdestqnh.Data                         /= 1013.0          0.001                 0.0
            » 0000E+00  P
5755   5764 Perf_Background_Dpkg.Pcvertmode           /= Perf_Int_Base_Tpkg.Econo          (N/A)
            »   OPENCLB  P
5756   5765 Perf_Background_Dpkg.Psgw                                        0.0           0.001                 0.0
            » 0000E+00  P
5757   5766 Perf_Background_Dpkg.Pcspeedmode             /= Perf_Ext_Tpkg.Vmecon           (N/A)
            »   VMEXPED  P
5758   5767 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim                       False           (N/A)
            »     FALSE  P
5759   5768 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim                      False           (N/A)
            »     FALSE  P
5760   5769
5761   5770
5762   5771 ====> All 10 Comparisons Passed <====
5763   5772
5764   5773
5765   5774 TESTID: 33
5766   5775
5767   5776     If the current itinerary is one of the following:
5768   5777     - Active Primary Flight Plan Predictions;
5769   5778     - Temporary Primary Flight Plan Predictions;
5770   5779     -Current mode predictions(Normal or High priority);
5771   5780     - Optimum altitude predictions;
5772   5781     then the descent path shall be retrieved from the descent path object
5773   5782     manager via a call to Perf_Ext_Despath.Pgvdespath.
5774   5783
5775   5784     When flight phase is beyond cruise with manual speed mode, then the speed validity shall be set as follows.
5776   5785         If CAS is selected on FCU then Valid flag for MACH speed is set to False.
5777   5786         If MACH is selected on FCU and A/C is below crossover altitude then Valid flag for CAS speed is set to False.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5778  5787     MACH is selected on FCU and A/C is below crossover altitude in this test case.
5779  5788     PERF_SDD_07545_INT
5780  5789
5781  5790     Retrieval of trip data for the current working flight plan shall be done by calling Sys_Perf_Interface_Dpkg.Pctrip
             » time.
5782  5791     PERF_SDD_07547_INT
5783  5792
5784  5793     ADS enabled flags (Intermediate intent enable and Predicted route enable) shall be repacked to output on FTB1.
5785  5794     PERF_SDD_07548_INT
5786  5795
5787  5796     If the working flight plan is either Is_Active or Copy_From_Active, then ISA temperature deviation shall be comput
             » ed as follows.
5788  5797     ISA temperature deviation = Static air temperature + Zero degrees Celsius in degrees Kelvin - ISA standard tempera
             » ture
5789  5798     at an altitude.
5790  5799     Where,
5791  5800        - ISA standard temperature = Standard atmosphere temperature at sea level *
5792  5801                             (1.0 - ( ( Temperature lapse rate / Standard atmosphere temperature at sea level )
             »  * MinAlt ) ).
5793  5802        - MinAlt is minimum altitude of the aircraft altitude and TROPOPAUSE altitude.
5794  5803     PERF_SDD_07549(PERF_SRD_9587, PERF_SRD_9656_INT)
5795  5804
5796  5805     REQUIREMENTS UNDER EVALUATION : PERF_SDD_3888_INT, PERF_SDD_07545_INT, PERF_SDD_07547_INT,
5797  5806                             PERF_SDD_07548_INT, PERF_SDD_07549(PERF_SRD_9587, PERF_SRD_9656_INT)
5798  5807     SUPPORTING REQUIREMENTS : N/A
5799  5808
5800  5809
5801  5810 INPUT                                                                                          VALUE
5802  5811 ------------------------------------------------------------------------------------  ------------------
             » --------
5803  5812 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
             »     True
5804  5813 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
             »     True
5805  5814 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
             »     True
5806  5815 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
             »     True
5807  5816 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
             »     True
5808  5817 Perf_Dpkg.Min_Gwt
             »     100.0
5809  5818 Perf_Dpkg.Max_Gwt
             »     400.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5810	5819	`Perf_Background_Dpkg.Flight_Plan_Type`	I
		`» s_Active`	
5811	5820	`Perf_Background_Dpkg.Psignorehm`	
		`»        True`	
5812	5821	`Perf_Background_Dpkg.Pcfltphase`	
		`» Goaround`	
5813	5822	`Perf_Background_Dpkg.Ats_Enable`	
		`»        True`	
5814	5823	`CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase`	
		`» Goaround`	
5815	5824	`Perf_Background_Dpkg.Pcactorsec`	
		`»     Active`	
5816	5825	`Perf_Background_Dpkg.Psacalt`	
		`»   10000.0`	
5817	5826	`Perf_Background_Dpkg.Pstropoalt`	
		`»        0.0`	
5818	5827	`Perf_Database_Dpkg.Psmmo`	
		`»       0.45`	
5819	5828	`Perf_Background_Dpkg.Pszfw`	
		`»      300.0`	
5820	5829	`Perf_Background_Dpkg.Psblockfuel`	
		`»       50.0`	
5821	5830	`Perf_Background_Dpkg.Pstaxifuel`	
		`»       25.0`	
5822	5831	`Perf_Background_Dpkg.Psairborne`	
		`»        True`	
5823	5832	`Perf_Background_Dpkg.Psautolat`	
		`»      False`	
5824	5833	`Guid_Ext_Dpkg.Gcxxlatautoc`	
		`»      False`	
5825	5834	`Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE`	
		`»      False`	
5826	5835	`Perf_Background_Dpkg.Psengout`	
		`»      False`	
5827	5836	`Cdk_Vert_Dpkg:Body.Engine_Out_I`	
		`»        True`	
5828	5837	`Perf_Background_Dpkg.Pcholdflags.Hmdecel`	
		`»        True`	
5829	5838	`Perf_Dpkg.Repredict_Hm_Decel`	
		`»        True`	
5830	5839	`Perf_Background_DPkg.Pshmdecel`	
		`»        True`	
5831	5840	`Perf_Background_Dpkg.Pcholdflags.Hmactive`	
		`»        True`	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5832    5841 Perf_Ads_Dpkg.Fi_Enabled
              »        False
5833    5842 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
              »        False
5834    5843 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
              »        True
5835    5844 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
              »        True
5836    5845 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
              »        True
5837    5846 Perf_Background_Dpkg.Pcholdflags.Hmdistval
              »        True
5838    5847 Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
              »        True
5839    5848 Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
              »        True
5840    5849 Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
              »        True
5841    5850 Perf_Background_Dpkg.Psappspdlat
              »        True
5842    5851 Perf_Dpkg.Pcengoutprds
              »     Altpln
5843    5852 Perf_Background_Dpkg.Pcpathref
              »     Onpath
5844    5853 Guid_Ext_Dpkg.Va3Vertmde                                                        Perf_Ext_Tp
              » kg.Vmspd
5845    5854 Perf_Background_DPkg.Pscurcas
              »        5.0
5846    5855 Perf_Background_DPkg.Pscurmach
              »        5.0
5847    5856 Perf_Background_DPkg.Pscurtas
              »        5.0
5848    5857 Perf_Background_Dpkg.Pcitin.Itinerary                                           Optimum_
              » Altitude
5849    5858 Perf_Despath_Dpkg.Pcdespath.Vgavalid
              »        True
5850    5859 Perf_Background_Dpkg.Pstogwtval
              »        False
5851    5860 Perf_Background_Dpkg.Pstogwt
              »        50.0
5852    5861 Perf_Background_Dpkg.Pcgwind
              »     Invalid
5853    5862 Perf_Background_Dpkg.Psgw
              »        0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5854   5863  Perf_Dpkg.Gross_Weight.Status
             »     Valid
5855   5864  Perf_Dpkg.Gross_Weight.Data
             »     150.0
5856   5865  Perf_Integration_DPkg.Pcairbrakes
             »     Fullab
5857   5866  Perf_Background_Dpkg.Pcacconfig
             »          5
5858   5867  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             »     False
5859   5868  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             »     9000.0
5860   5869  Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             »     200.0
5861   5870  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »     False
5862   5871  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             »     265.0
5863   5872  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             »     0.55
5864   5873  Perf_Background_Dpkg.Psstpclbact
             »     True
5865   5874  Perf_Background_Dpkg.Psstpdesact
             »     True
5866   5875  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »       0.0
5867   5876  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             »       0.0
5868   5877  Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
             »       0.65
5869   5878  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             »     345.0
5870   5879  Perf_Background_Dpkg.Pccuraltcstr.Valid
             »     True
5871   5880  Perf_Background_Dpkg.Pcprebcalt.Valid
             »     True
5872   5881  Perf_Background_Dpkg.Pcgmttime.Hour
             »          1
5873   5882  Perf_Background_Dpkg.Pcgmttime.Minute
             »          1
5874   5883  Perf_Background_Dpkg.Pcgmttime.Second
             »          1
5875   5884  Perf_Background_Dpkg.Psinertvs
             »       5.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5876 | 5885 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
              »        0
5877 | 5886 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
              »        2
5878 | 5887 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
              »        0
5879 | 5888 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
              »        2
5880 | 5889 | Perf_Ads_Dpkg.Pr_Enabled
              »      False
5881 | 5890 | ATC_DISCRETES_PKG:body.Adson_Flag
              »      False
5882 | 5891 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
              »      true
5883 | 5892 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
              »      true
5884 | 5893 | ^Noise_End_Alt_Status                                                              Takeoff_Alt_Type
              » s.Active
5885 | 5894 | ^Noise_Speed_Val
              »      True
5886 | 5895 | Perf_Background_Dpkg.Trip_Data.FUEL
              »       0.0
5887 | 5896 | Perf_Background_Dpkg.Trip_Data.TIME
              »       0.0
5888 | 5897 | Perf_Flight_Test_Dpkg.Perf_Repack_Data.Iienabled
              »      True
5889 | 5898 | Perf_Flight_Test_Dpkg.Perf_Repack_Data.Prenabled
              »      True
5890 | 5899 | Perf_Background_Dpkg.Psisadev
              »       0.0
5891 | 5900 | Perf_Background_Dpkg.Pcmanspd.Casvalid
              »      True
5892 | 5901 | Machmode
              »      True
5893 | 5902 | Perf_Background_Dpkg.Pcmanspd.Speed.Xoveralt
              »  20000.0
5894 | 5903 |
5895 | 5904 |
5896 | 5905 | OUTPUT                                                      EXPECTED              TOLERANCE           ACTUAL
              »           P/F
5897 | 5906 | -------------------------------------------------------  ----------------------------  ------------  ------------------
              » --------  ----
5898 | 5907 | CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec                               True          (N/A)
              »      TRUE   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5899  5908
5900  5909
5901  5910 INPUT                                                                                                           VALUE
5902  5911 ------------------------------------------------------------------------------------------------ ------------------
           » --------
5903  5912 Data_Storage.Pctriptime(ACTIVE).FUEL
           »    1000.0
5904  5913 Data_Storage.Pctriptime(ACTIVE).TIME
           »    3600.0
5905  5914
5906  5915
5907  5916 OUTPUT                                                         EXPECTED              TOLERANCE            ACTUAL
           »            P/F
5908  5917 ------------------------------------------------   ------------------------------  -------------  ------------------
           » --------  ----
5909  5918 Perf_Background_Dpkg.Psisadev                                    -15.0               0.001              -1.5
           » 0000E+01  P
5910  5919 Perf_Background_Dpkg.Pcmanspd.Casvalid                          False                (N/A)
           »    FALSE  P
5911  5920 Perf_Background_Dpkg.Trip_Data.FUEL                             1000.0               0.001               1.0
           » 0000E+03  P
5912  5921 Perf_Background_Dpkg.Trip_Data.TIME                             3600.0               0.001               3.6
           » 0000E+03  P
5913  5922 Perf_Flight_Test_Dpkg.Perf_Repack_Data.Iienabled               False                (N/A)
           »    FALSE  P
5914  5923 Perf_Flight_Test_Dpkg.Perf_Repack_Data.Prenabled               False                (N/A)
           »    FALSE  P
5915  5924
5916  5925
5917  5926 ====> All 7 Comparisons Passed <====
5918  5927
5919  5928
5920  5929 TESTID: 34
5921  5930
5922  5931 the descent path shall be retrieved from the descent path object manager via a call to Perf_Ext_Despath.Pgvdespath if
5923  5932 the current itinerary is Temporary Primary Flight Plan Predictions.
5924  5933
5925  5934 When following conditions are met:
5926  5935 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
5927  5936 2. the descent speed limit is latched
5928  5937 3. the flight plan is Temporary,
5929  5938 4. the flight phase is descent
5930  5939 then the following shall be done:
5931  5940 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

5932	5941	ii) If the DES SPD LIM Perf leg is Included, then
5933	5942	If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
5934	5943	Optimum Descent CAS is set to the VG Partially-Limited CAS
5935	5944	Otherwise,
5936	5945	Optimum Descent CAS is set to the DES SPD LIM speed.
5937	5946	
5938	5947	Here verify conditon 3(the flight plan is not Temporary) is not satisfied, Perf_Buffer.Getperfleg procedure will not b
		» e called.
5939	5948	PERF_SDD_08158_INT
5940	5949	
5941	5950	When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
		» set to False.
5942	5951	1. First Preds After Insert Temporary indication is True or
5943	5952	2. The descent speed limit has not been latched or
5944	5953	3. The temporary flight plan does not exist.
5945	5954	
5946	5955	Here verify condition 3(The temporary flight plan does not exist) is satisfied, Psdeslimspdchg is set to False.
5947	5956	PERF_SDD_08159_INT
5948	5957	
5949	5958	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
5950	5959	Approach, then the Optimum Descent speeds shall be set as follows:
5951	5960	if the following are true:
5952	5961	- VG Partially-Limited CAS is non-zero, and Any of the following are true:
5953	5962	- The A/C is currently in a deceleration, and either:
5954	5963	- The predictions count is less than or equal to one, or
5955	5964	- The current working flight plan is Active and the difference between the current prediction sequence
5956	5965	counter and starting prediction sequence counter is less than or equal to 2, or
5957	5966	- The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
5958	5967	being processed is Current Mode predictions(Normal or High Priority) ,or
5959	5968	- First Preds After Insert Temporary indication is True;
5960	5969	- The A/C is not in Auto Lateral mode,
5961	5970	- Approach Speeds have been latched.
5962	5971	then,
5963	5972	Optimum Descent CAS is set to the VG Partially-Limited CAS
5964	5973	otherwise,
5965	5974	Optimum Descent CAS is set to current VG CAS target.
5966	5975	-- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
5967	5976	-- VG Partially-Limited CAS is non-zero.
5968	5977	-- The A/C is currently in a deceleration and the predictions count is equal to one.
5969	5978	-- Optimum Descent CAS is set to the VG Partially-Limited CAS
5970	5979	
5971	5980	REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3888_INT, PERF_SDD_08158_INT, PERF_SDD_08159_INT
5972	5981	
5973	5982	SUPPORTING REQUIREMENTS : N/A

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
5974│ 5983│
5975│ 5984│
5976│ 5985│INPUT                                                                                              VALUE
5977│ 5986│------------------------------------------------------------------------------------- ------------------
     │     │» --------
5978│ 5987│Perf_Background_Dpkg.Flight_Plan_Type                                              Perf_Int_Base_Tpkg.I
     │     │» s_Active
5979│ 5988│Perf_Background_Dpkg.Psairborne
     │     │»      False
5980│ 5989│Perf_Background_Dpkg.Psdeslimspdchg
     │     │»      True
5981│ 5990│Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
     │     │»      True
5982│ 5991│FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
     │     │»      False
5983│ 5992│Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     │     │»      0.0
5984│ 5993│CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     │     │» Descent
5985│ 5994│Perf_Background_Dpkg.Pcactorsec
     │     │»    Active
5986│ 5995│Perf_Background_Dpkg.Pcfltphase
     │     │» Descent
5987│ 5996│Guid_Spds_Dpkg.Vc3prtlimcas
     │     │»    160.0
5988│ 5997│Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
     │     │»      True
5989│ 5998│Perf_Background_Dpkg.Psautolat
     │     │»      True
5990│ 5999│Guid_Ext_Dpkg.Gcxxlatautoc
     │     │»      True
5991│ 6000│Perf_Background_Dpkg.Psappspdlat
     │     │»      False
5992│ 6001│Perf_Background_Dpkg.Pcpredcount(Active)
     │     │»       1
5993│ 6002│Perf_Dpkg.Psfrstactprd
     │     │»      False
5994│ 6003│Perf_Dpkg.Insrt_Tmpy_Frst_Preds
     │     │»      False
5995│ 6004│Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     │     │»    345.0
5996│ 6005│Perf_Background_Dpkg.Pcitin.Flight_Plan                                                            T
     │     │» emporary
5997│ 6006│Perf_Background_Dpkg.Pcitin.Itinerary                                                         Prim_Fp
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              » ln_Preds
 5998   6007 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
              »    False
 5999   6008
 6000   6009
 6001   6010 OUTPUT                                                      EXPECTED              TOLERANCE            ACTUAL
              »         P/F
 6002   6011 -------------------------------------------------------  -----------------------------  -------------  ------------------
              » --------  ----
 6003   6012 CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec                              True          (N/A)
              »     TRUE  P
 6004   6013 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                    160.0         0.001                      1.6
              » 0000E+02  P
 6005   6014 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                          False         (N/A)
              »     FALSE  P
 6006   6015 Perf_Background_Dpkg.Psdeslimspdchg                                          False         (N/A)
              »     FALSE  P
 6007   6016
 6008   6017
 6009   6018 ====> All 4 Comparisons Passed <====
 6010   6019
 6011   6020
 6012   6021 TESTID: 35
 6013   6022
 6014   6023 if the current itinerary is Fuel_Plan_Fpln_Preds,and Psgetout set to False, then the descent path shall be
 6015   6024 invalidated to cause it to be rebuilt.
 6016   6025
 6017   6026 When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
              »  set to False.
 6018   6027 1. First Preds After Insert Temporary indication is True
 6019   6028 2. The descent speed limit has not been latched
 6020   6029 3. The temporary flight plan does not exist.
 6021   6030
 6022   6031 Here conditon 1,2,3 are not satisfied, Psdeslimspdchg is not set to False.
 6023   6032 PERF_SDD_08159_INT
 6024   6033
 6025   6034 If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
 6026   6035 Approach, then the Optimum Descent speeds shall be set as follows:
 6027   6036 if the following are true:
 6028   6037   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
 6029   6038     - The A/C is currently in a deceleration, and either:
 6030   6039       - The predictions count is less than or equal to one, or
 6031   6040       - The current working flight plan is Active and the difference between the current prediction sequence
 6032   6041         counter and starting prediction sequence counter is less than or equal to 2, or
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6033   6042        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6034   6043          being processed is Current Mode predictions(Normal or High Priority) ,or
6035   6044        - First Preds After Insert Temporary indication is True;
6036   6045      - The A/C is not in Auto Lateral mode,
6037   6046      - Approach Speeds have been latched.
6038   6047  then,
6039   6048    Optimum Descent CAS is set to the VG Partially-Limited CAS
6040   6049  otherwise,
6041   6050    Optimum Descent CAS is set to current VG CAS target.
6042   6051  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
6043   6052  -- VG Partially-Limited CAS is non-zero.
6044   6053  -- The A/C is currently in a deceleration and current working flight plan is Active and the difference between
6045   6054  -- the current prediction sequence counter and starting prediction sequence counter is equal to 2.
6046   6055  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6047   6056
6048   6057     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3681_INT, PERF_SDD_08159_INT
6049   6058
6050   6059     SUPPORTING REQUIREMENTS : N/A
6051   6060
6052   6061
6053   6062  INPUT                                                                                               VALUE
6054   6063  ------------------------------------------------------------------------------------------------ -----------------
            » --------
6055   6064  Perf_Background_Dpkg.Flight_Plan_Type                                                          Perf_Int_Base_Tpkg.I
            » s_Active
6056   6065  Perf_Background_Dpkg.Psairborne
            »     False
6057   6066  Perf_Background_Dpkg.Psdeslimspdchg
            »     True
6058   6067  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »     True
6059   6068  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
            »     True
6060   6069  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »     0.0
6061   6070  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »   Descent
6062   6071  Perf_Background_Dpkg.Pcfltphase
            »   Descent
6063   6072  Perf_Background_Dpkg.Pcactorsec
            »    Active
6064   6073  Guid_Spds_Dpkg.Vc3prtlimcas
            »    170.0
6065   6074  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
          |        |  »      True
     6066 |   6075 | Perf_Background_Dpkg.Psautolat
          |        |  »      True
     6067 |   6076 | Guid_Ext_Dpkg.Gcxxlatautoc
          |        |  »      True
     6068 |   6077 | Perf_Background_Dpkg.Psappspdlat
          |        |  »     False
     6069 |   6078 | Perf_Background_Dpkg.Pcpredcount(Active)
          |        |  »        3
     6070 |   6079 | Perf_Background_Dpkg.Active_Start_Predcount
          |        |  »        1
     6071 |   6080 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds
          |        |  »     False
     6072 |   6081 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
          |        |  »     345.0
     6073 |   6082 | Perf_Background_Dpkg.Pcitin.Itinerary                                                              Fuel_Plan_Fp
          |        |  » ln_Preds
     6074 |   6083 | Perf_Background_Dpkg.Psgetout
          |        |  »     False
     6075 |   6084 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
          |        |  »      True
     6076 |   6085 |
     6077 |   6086 |
     6078 |   6087 | OUTPUT                                                         EXPECTED            TOLERANCE            ACTUAL
          |        |  »           P/F
     6079 |   6088 | ---------------------------------------------------------  ------------------------   ------------   ------------------
          |        |  » --------  ----
     6080 |   6089 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                      170.0               0.001                   1.7
          |        |  » 0000E+02   P
     6081 |   6090 | Perf_Despath_Dpkg.Pcdespath.Vgavalid                           False               (N/A)
          |        |  »     FALSE   P
     6082 |   6091 | Perf_Background_Dpkg.Psdeslimspdchg                            True                (N/A)
          |        |  »      TRUE   P
     6083 |   6092 |
     6084 |   6093 |
     6085 |   6094 | ====> All 3 Comparisons Passed <====
     6086 |   6095 |
     6087 |   6096 |
     6088 |   6097 | TESTID: 36
     6089 |   6098 |
     6090 |   6099 | if the current itinerary is Primary Flight Plan Predictions for a flight plan other than Active or Temporary,and
     6091 |   6100 | Psgetout set to False, then the descent path shall be invalidated to cause it to be rebuilt.
     6092 |   6101 |
     6093 |   6102 | When following conditions are met:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

6094	6103	1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
6095	6104	2. the descent speed limit is latched
6096	6105	3. the flight plan is Temporary,
6097	6106	4. the flight phase is descent
6098	6107	then the following shall be done:
6099	6108	i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
6100	6109	ii) If the DES SPD LIM Perf leg is Included, then
6101	6110	If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
6102	6111	Optimum Descent CAS is set to the VG Partially-Limited CAS
6103	6112	Otherwise,
6104	6113	Optimum Descent CAS is set to the DES SPD LIM speed.
6105	6114	
6106	6115	Here verify conditon 4(the flight phase is not descent) is not satisfied, Perf_Buffer.Getperfleg procedure will not b
		» e called.
6107	6116	PERF_SDD_08158_INT
6108	6117	
6109	6118	When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
		» set to False.
6110	6119	1. First Preds After Insert Temporary indication is True
6111	6120	2. The descent speed limit has not been latched
6112	6121	3. The temporary flight plan does not exist.
6113	6122	
6114	6123	Here verify condition 1(First Preds After Insert Temporary indication is True) is satisfied, Psdeslimspdchg is set to
		» False.
6115	6124	PERF_SDD_08159_INT
6116	6125	
6117	6126	If the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6118	6127	Approach, then the Optimum Descent speeds shall be set as follows:
6119	6128	if the following are true:
6120	6129	- VG Partially-Limited CAS is non-zero, and Any of the following are true:
6121	6130	- The A/C is currently in a deceleration, and either:
6122	6131	- The predictions count is less than or equal to one, or
6123	6132	- The current working flight plan is Active and the difference between the current prediction sequence
6124	6133	counter and starting prediction sequence counter is less than or equal to 2, or
6125	6134	- The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6126	6135	being processed is Current Mode predictions(Normal or High Priority) ,or
6127	6136	- First Preds After Insert Temporary indication is True;
6128	6137	- The A/C is not in Auto Lateral mode,
6129	6138	- Approach Speeds have been latched.
6130	6139	then,
6131	6140	Optimum Descent CAS is set to the VG Partially-Limited CAS
6132	6141	otherwise,
6133	6142	Optimum Descent CAS is set to current VG CAS target.
6134	6143	-- In this case, flight phase is Approach and current VG CAS and Mach targets are valid.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6135   6144 -- VG Partially-Limited CAS is non-zero.
6136   6145 -- The A/C is currently in a deceleration and First Preds After Insert Temporary indication is True.
6137   6146 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6138   6147
6139   6148    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_3681_INT, PERF_SDD_08158_INT, PERF_SDD_08159_INT
6140   6149
6141   6150    SUPPORTING REQUIREMENTS : N/A
6142   6151
6143   6152
6144   6153 INPUT                                                                                              VALUE
6145   6154 ------------------------------------------------------------------------------------------- ------------------
            » --------
6146   6155 Perf_Background_Dpkg.Flight_Plan_Type                                                  Perf_Int_Base_Tpkg.I
            » s_Active
6147   6156 Perf_Background_Dpkg.Psairborne
            »      False
6148   6157 Perf_Background_Dpkg.Psdeslimspdchg
            »      True
6149   6158 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »      True
6150   6159 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
            »      True
6151   6160 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »       0.0
6152   6161 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            » Approach
6153   6162 Perf_Background_Dpkg.Pcfltphase
            » Approach
6154   6163 Perf_Background_Dpkg.Pcactorsec                                                                      T
            » emporary
6155   6164 Guid_Spds_Dpkg.Vc3prtlimcas
            »      183.0
6156   6165 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
            »      True
6157   6166 Perf_Background_Dpkg.Psautolat
            »      True
6158   6167 Guid_Ext_Dpkg.Gcxxlatautoc
            »      True
6159   6168 Perf_Background_Dpkg.Psappspdlat
            »      False
6160   6169 Perf_Background_Dpkg.Pcpredcount(Temporary)
            »       3
6161   6170 Perf_Dpkg.Psfrstactprd
            »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6162 | 6171 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds
     |      | »      True
6163 | 6172 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |      | »      345.0
6164 | 6173 | Perf_Background_Dpkg.Pcitin.Itinerary                                                                    Prim_Fp
     |      | » ln_Preds
6165 | 6174 | Perf_Background_Dpkg.Pcitin.Flight_Plan                                                                        S
     |      | » econdary
6166 | 6175 | Perf_Background_Dpkg.Psgetout
     |      | »      False
6167 | 6176 | Perf_Despath_Dpkg.Pcdespath.Vgavalid
     |      | »      True
6168 | 6177 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
     |      | »      False
6169 | 6178 |
6170 | 6179 |
6171 | 6180 | OUTPUT                                                EXPECTED              TOLERANCE            ACTUAL
     |      | »          P/F
6172 | 6181 | ------------------------------------------------- --------------------------- -------------  ------------------
     |      | » --------  ----
6173 | 6182 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                          183.0          0.001               1.8
     |      | » 3000E+02  P
6174 | 6183 | Perf_Despath_Dpkg.Pcdespath.Vgavalid                               False          (N/A)
     |      | »      FALSE  P
6175 | 6184 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                 False          (N/A)
     |      | »      FALSE  P
6176 | 6185 | Perf_Background_Dpkg.Psdeslimspdchg                                False          (N/A)
     |      | »      FALSE  P
6177 | 6186 |
6178 | 6187 |
6179 | 6188 | ====> All 4 Comparisons Passed <====
6180 | 6189 |
6181 | 6190 |
6182 | 6191 | TESTID: 37
6183 | 6192 |
6184 | 6193 | if the current VG CAS and Mach targets are valid, and the flight phase is Descent or Approach, then the Optimum Descen
     |      | » t Mach
6185 | 6194 | shall be set as follows:if the flight phase is Descent, then Optimum Descent Mach is set to current VG Mach target;oth
     |      | » erwise,
6186 | 6195 | if Real-Time computed Economy Descent speeds are invalid, then Optimum Descent Mach is set to MMO.
6187 | 6196 |
6188 | 6197 | if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
6189 | 6198 | Approach, then the Optimum Descent speeds shall be set as follows:
6190 | 6199 | if the following are true:
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6191  6200    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
6192  6201      - The A/C is currently in a deceleration, and either:
6193  6202        - The predictions count is less than or equal to one, or
6194  6203        - The current working flight plan is Active and the difference between the current prediction sequence
6195  6204          counter and starting prediction sequence counter is less than or equal to 2, or
6196  6205        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
6197  6206          being processed is Current Mode predictions(Normal or High Priority) ,or
6198  6207        - First Preds After Insert Temporary indication is True;
6199  6208      - The A/C is not in Auto Lateral mode,
6200  6209      - Approach Speeds have been latched.
6201  6210  then,
6202  6211    Optimum Descent CAS is set to the VG Partially-Limited CAS
6203  6212  otherwise,
6204  6213    Optimum Descent CAS is set to current VG CAS target.
6205  6214  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
6206  6215  -- VG Partially-Limited CAS is non-zero.
6207  6216  -- The A/C is not in Auto Lateral mode.
6208  6217  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6209  6218
6210  6219     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT, PERF_SDD_2276_INT
6211  6220
6212  6221     SUPPORTING REQUIREMENTS : N/A
6213  6222
6214  6223
6215  6224  INPUT                                                                                                    VALUE
6216  6225  -------------------------------------------------------------------------------------------------- ------------------
            » --------
6217  6226  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »        0.0
6218  6227  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
            »        0.0
6219  6228  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »   Descent
6220  6229  Perf_Background_Dpkg.Pcfltphase
            »   Descent
6221  6230  Perf_Background_Dpkg.Pcactorsec
            »    Active
6222  6231  Guid_Spds_Dpkg.Vc3prtlimcas
            »        3.0
6223  6232  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
            »     False
6224  6233  Perf_Background_Dpkg.Psautolat
            »     False
6225  6234  Guid_Ext_Dpkg.Gcxxlatautoc
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                      »      False
  6226    6235  Perf_Background_Dpkg.Psappspdlat
                      »      False
  6227    6236  Perf_Background_Dpkg.Pcpredcount(Active)
                      »          3
  6228    6237  Perf_Dpkg.Psfrstactprd
                      »      False
  6229    6238  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
                      »       True
  6230    6239  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
                      »       345.0
  6231    6240  Guid_Spds_Dpkg.Vc3curspds.Mach.Data
                      »         3.5
  6232    6241  Perf_Database_Dpkg.Psmmo
                      »         1.0
  6233    6242
  6234    6243
  6235    6244  OUTPUT                                                            EXPECTED                 TOLERANCE              ACTUAL
                      »              P/F
  6236    6245  ---------------------------------------------------------  ------------------------------  -------------  ------------------
                      » --------  ----
  6237    6246  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                              3.0             0.001                   3.0
                      » 0000E+00  P
  6238    6247  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach                             3.5             0.001                   3.5
                      » 0000E+00  P
  6239    6248
  6240    6249
  6241    6250  ====> All 2 Comparisons Passed <====
  6242    6251
  6243    6252
  6244    6253  TESTID: 38
  6245    6254
  6246    6255  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
  6247    6256  Approach, then the Optimum Descent speeds shall be set as follows:
  6248    6257  if the following are true:
  6249    6258    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
  6250    6259      - The A/C is currently in a deceleration, and either:
  6251    6260        - The predictions count is less than or equal to one, or
  6252    6261        - The current working flight plan is Active and the difference between the current prediction sequence
  6253    6262          counter and starting prediction sequence counter is less than or equal to 2, or
  6254    6263        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
  6255    6264          being processed is Current Mode predictions(Normal or High Priority) ,or
  6256    6265        - First Preds After Insert Temporary indication is True;
  6257    6266      - The A/C is not in Auto Lateral mode,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6258   6267        - Approach Speeds have been latched.
6259   6268   then,
6260   6269     Optimum Descent CAS is set to the VG Partially-Limited CAS
6261   6270   otherwise,
6262   6271     Optimum Descent CAS is set to current VG CAS target.
6263   6272   -- In this case, flight phase is Approach and current VG CAS and Mach targets are valid.
6264   6273   -- VG Partially-Limited CAS is non-zero.
6265   6274   -- Approach Speeds have been latched.
6266   6275   -- Optimum Descent CAS is set to the VG Partially-Limited CAS
6267   6276
6268   6277      REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
6269   6278
6270   6279      SUPPORTING REQUIREMENTS : N/A
6271   6280
6272   6281
6273   6282   INPUT                                                                                             VALUE
6274   6283   ------------------------------------------------------------------------------------------------  ------------------
              » --------
6275   6284   Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »        0.0
6276   6285   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              » Approach
6277   6286   Perf_Background_Dpkg.Pcfltphase
              » Approach
6278   6287   Perf_Background_Dpkg.Pcactorsec
              »     Active
6279   6288   Guid_Spds_Dpkg.Vc3prtlimcas
              »        3.0
6280   6289   Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
              »     False
6281   6290   Perf_Background_Dpkg.Psautolat
              »      True
6282   6291   Guid_Ext_Dpkg.Gcxxlatautoc
              »      True
6283   6292   Perf_Background_Dpkg.Psappspdlat
              »      True
6284   6293   Perf_Background_Dpkg.Pcpredcount(Active)
              »        3
6285   6294   Perf_Dpkg.Psfrstactprd
              »     False
6286   6295   Perf_Dpkg.Insrt_Tmpy_Frst_Preds
              »      True
6287   6296   Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »      345.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6288 | 6297 |
6289 | 6298 |
6290 | 6299 | OUTPUT                                                              EXPECTED              TOLERANCE              ACTUAL
     |      | »           P/F
6291 | 6300 | ---------------------------------------------------  ----------------------------  -------------  ------------------
     |      | » --------  ----
6292 | 6301 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                  3.0          0.001                 3.0
     |      | » 0000E+00  P
6293 | 6302 |
6294 | 6303 |
6295 | 6304 | ====> All 1 Comparisons Passed <====
6296 | 6305 |
6297 | 6306 |
6298 | 6307 | TESTID: 39
6299 | 6308 | the currently active flight phase is climb, the real time climb speeds are valid for current working flight plan then
6300 | 6309 | Optimum Econ/LRC climb CAS and Mach are set to the real time climb CAS and Mach speeds respectively for the current wo
     |      | » rking flight plan.
6301 | 6310 | PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)
6302 | 6311 | the current flight phase is not cruise then
6303 | 6312 | The original step speeds (CAS and Mach) before speed limiting are not be changed.
6304 | 6313 | The flag indicating Predictions are in step not be changed.
6305 | 6314 | The Step CAS and Mach speeds not be changed.
6306 | 6315 | Optimum Econ/LRC Cruise CAS and Mach not be changed.
6307 | 6316 | Flag indicating the speed targets from FG not be changed.
6308 | 6317 |  PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
6309 | 6318 |
6310 | 6319 |
6311 | 6320 | INPUT                                                                                                       VALUE
6312 | 6321 | ----------------------------------------------------------------------------------------------  ------------------
     |      | » --------
6313 | 6322 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     |      | »     Climb
6314 | 6323 | Perf_Background_Dpkg.Pcactorsec
     |      | »     Active
6315 | 6324 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Valid
     |      | »       true
6316 | 6325 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Cas
     |      | »       230.0
6317 | 6326 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Climb).Mach
     |      | »       0.6
6318 | 6327 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
     |      | »       True
6319 | 6328 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
     |      | »       265.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6320   6329  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
             »        0.55
6321   6330  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
             »        True
6322   6331  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
             »        288.0
6323   6332  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
             »        0.66
6324   6333  Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )
             »        100.00
6325   6334  Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec )
             »        0.12
6326   6335  Perf_Background_Dpkg.Psinstep
             »        False
6327   6336  Perf_Background_Dpkg.Psstepcas
             »        200.00
6328   6337  Perf_Background_Dpkg.Psstepmach
             »        0.35
6329   6338  Perf_Background_Dpkg.Psecncrzmach
             »        200.0
6330   6339  Perf_Background_Dpkg.Psecncrzcas
             »        0.55
6331   6340  Prf_Bkgnd_Pkg:body.Fgspdsvalid
             »        True
6332   6341  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
             »        True
6333   6342  Perf_Background_Dpkg.Pcoptinitspd.Clb.Cas
             »        0.0
6334   6343  Perf_Background_Dpkg.Pcoptinitspd.Clb.Mach
             »        0.0
6335   6344
6336   6345
6337   6346  OUTPUT                                                        EXPECTED           TOLERANCE              ACTUAL
             »            P/F
6338   6347  ------------------------------------------------------  ------------------------------  -------------  ------------------
             » --------  ----
6339   6348  Prf_Bkgnd_Pkg:body.Fgspdsvalid                                 True             (N/A)
             »     TRUE  P
6340   6349  Perf_Background_Dpkg.Pcoptinitspd.Clb.Cas                       230.0            0.001                   2.3
             » 0000E+02  P
6341   6350  Perf_Background_Dpkg.Pcoptinitspd.Clb.Mach                      0.6              0.001                   6.0
             » 0000E-01  P
6342   6351  Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )   100.00    0.001                   1.0
             » 0000E+02  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

6343	6352	Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec)	0.12	0.001	1.2
		» 0000E-01 P			
6344	6353	Perf_Background_Dpkg.Psinstep	False	(N/A)	
		» FALSE P			
6345	6354	Perf_Background_Dpkg.Psstepcas	200.00	0.001	2.0
		» 0000E+02 P			
6346	6355	Perf_Background_Dpkg.Psstepmach	0.35	0.001	3.5
		» 0000E-01 P			
6347	6356	Perf_Background_Dpkg.Psecncrzmach	200.0	0.001	2.0
		» 0000E+02 P			
6348	6357	Perf_Background_Dpkg.Psecncrzcas	0.55	0.001	5.5
		» 0000E-01 P			
6349	6358				
6350	6359				
6351	6360	====> All 10 Comparisons Passed <====			
6352	6361				
6353	6362				
6354	6363	TESTID: 40			
6355	6364	the currently active flight phase is climb,the real time climb speeds are not valid for current working flight plan th			
		» en			
6356	6365	Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.			
6357	6366	PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)			
6358	6367				
6359	6368				
6360	6369	INPUT VALUE			
6361	6370	-- ------------------			
		» --------			
6362	6371	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase			
		» climb			
6363	6372	Perf_Background_Dpkg.Pcactorsec			
		» Active			
6364	6373	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Valid			
		» false			
6365	6374	Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid			
		» false			
6366	6375	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact			
		» false			
6367	6376	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact			
		» false			
6368	6377	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Mach			
		» 0.8			
6369	6378	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(climb).Cas			
		» 330.0			
6370	6379	Perf_Background_Dpkg.Psecncrzmach			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 0.0
6371	6380	Perf_Background_Dpkg.Psecncrzcas
		» 0.0
6372	6381	Prf_Bkgnd_Pkg:body.Fgspdsvalid
		» True
6373	6382	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
		» True
6374	6383	
6375	6384	
6376	6385	OUTPUT EXPECTED TOLERANCE ACTUAL
		» P/F
6377	6386	-- ---------------------------- ------------- ------------------
		» -------- ----
6378	6387	Prf_Bkgnd_Pkg:body.Fgspdsvalid false (N/A)
		» FALSE P
6379	6388	Perf_Background_Dpkg.Psecncrzmach 0.0 0.001 0.0
		» 0000E+00 P
6380	6389	Perf_Background_Dpkg.Psecncrzcas 0.0 0.001 0.0
		» 0000E+00 P
6381	6390	
6382	6391	
6383	6392	====> All 3 Comparisons Passed <====
6384	6393	
6385	6394	
6386	6395	TESTID: 41
6387	6396	
6388	6397	If the working flight plan is Active or Temporary, flags related to HM legs shall be set as follows:
6389	6398	- Perf hold flag record (Pcholdflags) is copied from guidance
6390	6399	- Descent limit latch record (Pcdeslimlat) is copied from guidance.
6391	6400	- Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac » h.
6392	6401	- If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer » considers
6393	6402	the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
6394	6403	- If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the » HM if no
6395	6404	deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c » lear the HM
6396	6405	leg deleted while in decel to HM flag (Pshmdeleted).
6397	6406	- If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte » d, and the
6398	6407	HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf » t is within
6399	6408	the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6400  6409    - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
           » l to HM,
6401  6410     then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
6402  6411     PERF_SDD_4794_INT
6403  6412     This test case verify:
6404  6413     (1)HM leg deleted while in decel to HM flag remain False (Pshmdeleted)  (F,F,F)
6405  6414
6406  6415     This case verfify When mach target and the fcu mach selected mode are valid, the speed target tag is set to indica
           » te Mach
6407  6416     and FCU speed is set to the value of selected Mach.
6408  6417     PERF_SDD_4779_INT
6409  6418
6410  6419     Also verify when the current itinerary is Fuel_Plan_Fpln_Preds, but the A/C is in not Takeoff & Climb.
6411  6420     so, Climb Auto Derate will not be processed.
6412  6421     PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
6413  6422                   PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
6414  6423
6415  6424     Perf_Background_Dpkg.Use_Clb_Autodrt is not true, so Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
6416  6425     PERF_SDD_07919 (PERF_SRD_12641)
6417  6426
6418  6427     REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT, PERF_SDD_07956, PERF_SDD_
           » 07919,
6419  6428     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
           » 70_INT,
6420  6429                              PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
6421  6430
6422  6431
6423  6432 INPUT                                                                                                           VALUE
6424  6433 ---------------------------------------------------------------------------------------------- ------------------
           » --------
6425  6434 Perf_Background_Dpkg.Flight_Plan_Type                                                                          Copy_Fro
           » m_Active
6426  6435 Perf_Background_Dpkg.Pcactorsec                                                                                       T
           » emporary
6427  6436 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
           »      True
6428  6437 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
           »      False
6429  6438 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
           »      True
6430  6439 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
           »      True
6431  6440 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
           »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6432   6441 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
            »      True
6433   6442 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
            »      False
6434   6443 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »      False
6435   6444 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
            »      False
6436   6445 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
            »      False
6437   6446 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
            »  Approach
6438   6447 Perf_Dpkg.Pshmdeleted
            »      False
6439   6448 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach
            »      0.68
6440   6449 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach
            »      True
6441   6450 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
            »      True
6442   6451 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed
            »      320.0
6443   6452 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed
            »      False
6444   6453 Perf_Background_Dpkg.Pcitin.Itinerary                                                               Fuel_Plan_Fp
            »  ln_Preds
6445   6454 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
            »      true
6446   6455 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
            »      True
6447   6456 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
            »      true
6448   6457 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
            »      True
6449   6458 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
            »      True
6450   6459 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
            »      20000
6451   6460 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
            »      79.0
6452   6461 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
            »      200.0
6453   6462 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
            »      0.5
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6454   6463 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas
            »     600.0
6455   6464 Guid_Spds_Dpkg.Vc3curspds.Fltphase
            » Approach
6456   6465 Perf_Background_Dpkg.Pcholdflags.Hmactive
            »     False
6457   6466 Perf_Background_Dpkg.Pcholdflags.Hmdecel
            »      True
6458   6467 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            »     False
6459   6468 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            »     False
6460   6469 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            »     False
6461   6470 Perf_Background_Dpkg.Pcholdflags.Hmdistval
            »     False
6462   6471 Perf_Background_Dpkg.Pcholdflags.Consider_Hm
            »      True
6463   6472 Perf_Background_Dpkg.Pcspdtgttag                                                           Fmcs_Base_T
            » ypes.Cas
6464   6473 Perf_Background_Dpkg.Psfcuspd
            »      0.0
6465   6474 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid
            »      True
6466   6475 Perf_Background_Dpkg.Use_Clb_Autodrt
            »      True
6467   6476 Perf_Background_Dpkg.Pshmdecel
            »      True
6468   6477
6469   6478
6470   6479 OUTPUT                                                    EXPECTED              TOLERANCE           ACTUAL
            »          P/F
6471   6480 --------------------------------------------------  ----------------------------  ------------  ------------------
            » --------  ----
6472   6481 Perf_Background_Dpkg.Pcholdflags.Hmactive                               True          (N/A)
            »     TRUE   P
6473   6482 Perf_Background_Dpkg.Pcholdflags.Hmdecel                                False         (N/A)
            »     FALSE  P
6474   6483 Perf_Background_Dpkg.Pcholdflags.Manhmwarn                              True          (N/A)
            »     TRUE   P
6475   6484 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                              True          (N/A)
            »     TRUE   P
6476   6485 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                              True          (N/A)
            »     TRUE   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6477    6486 | Perf_Background_Dpkg.Pcholdflags.Hmdistval                                    True        (N/A)
             | »     TRUE   P
6478    6487 | Perf_Background_Dpkg.Pcholdflags.Consider_Hm                                  False       (N/A)
             | »     FALSE  P
6479    6488 | Perf_Dpkg.Pshmdeleted                                                         False       (N/A)
             | »     FALSE  P
6480    6489 | Perf_Background_Dpkg.Pcspdtgttag                          Fmcs_Base_Types.Mach             (N/A)
             | »     MACH   P
6481    6490 | Perf_Background_Dpkg.Psfcuspd                                                 0.68        0.001              6.8
             | » 0000E-01  P
6482    6491 | Perf_Background_Dpkg.Climb_Autodrt.Is_Valid                                   False       (N/A)
             | »     FALSE  P
6483    6492 | Perf_Background_Dpkg.Use_Clb_Autodrt                                          False       (N/A)
             | »     FALSE  P
6484    6493 | Perf_Background_Dpkg.Pshmdecel                                                false       (N/A)
             | »     FALSE  P
6485    6494 |
6486    6495 |
6487    6496 | ====> All 13 Comparisons Passed <====
6488    6497 |
6489    6498 |
6490    6499 | TESTID: 42
6491    6500 |
6492    6501 |    If the working flight plan is Active or Temporary, flags related to HM legs shall be set     as follows:
6493    6502 |    - Perf hold flag record (Pcholdflags) is copied from guidance
6494    6503 |    - Descent limit latch record (Pcdeslimlat) is copied from guidance.
6495    6504 |    - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
             | » h.
6496    6505 |    - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
             | » considers
6497    6506 |      the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
6498    6507 |    - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
             | »  HM if no
6499    6508 |      deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
             | » lear the HM
6500    6509 |      leg deleted while in decel to HM flag (Pshmdeleted).
6501    6510 |    - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
             | » d, and the
6502    6511 |      HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
             | » t is within
6503    6512 |      the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
6504    6513 |    - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
             | » l to HM,
6505    6514 |      then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6506│ 6515│      PERF_SDD_4794_INT
6507│ 6516│
6508│ 6517│    This case verify when CAS target is valid, and fcu mach selected mode is invalid(cas selected mode is valid), the
     │     │ » speed target
6509│ 6518│    tag is set to indicate CAS and fcu speed is set to the value of selected CAS.
6510│ 6519│    PERF_SDD_4780_INT
6511│ 6520│
6512│ 6521│    This test case verify
6513│ 6522│    (1)HM leg deleted while in decel to HM flag remain False (Pshmdeleted)  (T,T,F)
6514│ 6523│    (2)Flag indicating that the aircraft is within the HM decel zone (Pshmdecel) is set to True (T,F)
6515│ 6524│    (3)Flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to fals
     │     │ » e (T,T,F)
6516│ 6525│
6517│ 6526│    When the FPA mode active and the target retrieved from IO are valid,
6518│ 6527│    then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
6519│ 6528│    The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
     │     │ » retrieved
6520│ 6529│    from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
     │     │ » rom ft/min
6521│ 6530│    to ft/sec. The flag indicating the vertical speed mode active is set to True.
6522│ 6531│    PERF_SDD_07504_INT
6523│ 6532│    --In this test case,Fpa_Target.Valid is false and Vs_Target.Valid is false
6524│ 6533│    REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT,PERF_SDD_07504_INT
6525│ 6534│    SUPPORTING REQUIREMENTS : N/A
6526│ 6535│
6527│ 6536│
6528│ 6537│INPUT                                                                                                         VALUE
6529│ 6538│------------------------------------------------------------------------------------------- ------------------
     │     │ » --------
6530│ 6539│Perf_Background_Dpkg.Flight_Plan_Type                                                                    Copy_Fro
     │     │ » m_Active
6531│ 6540│Perf_Background_Dpkg.Pcactorsec                                                                                 T
     │     │ » emporary
6532│ 6541│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
     │     │ »      False
6533│ 6542│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
     │     │ »       True
6534│ 6543│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
     │     │ »      False
6535│ 6544│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
     │     │ »      False
6536│ 6545│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
     │     │ »      False
6537│ 6546│Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                   »      False
6538   6547  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
                   »      True
6539   6548  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
                   »      False
6540   6549  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
                   »      False
6541   6550  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
                   »      False
6542   6551  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
                   » Approach
6543   6552  Perf_Dpkg.Pshmdeleted
                   »      False
6544   6553  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach
                   »      0.58
6545   6554  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach
                   »      True
6546   6555  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
                   »      False
6547   6556  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed
                   »      320.0
6548   6557  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed
                   »      True
6549   6558  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
                   »      True
6550   6559  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
                   »      true
6551   6560  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
                   »      false
6552   6561  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
                   »  57.3066
6553   6562  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
                   »      true
6554   6563  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
                   »      false
6555   6564  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target
                   »      60.0
6556   6565  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
                   »      True
6557   6566  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
                   »      true
6558   6567  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
                   »      True
6559   6568  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» True
6560	6569	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
		» 20000
6561	6570	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
		» 79.0
6562	6571	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
		» 60.0
6563	6572	Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
		» 1.5
6564	6573	CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
		» true
6565	6574	Perf_Background_Dpkg.Pcholdflags.Hmactive
		» True
6566	6575	Perf_Background_Dpkg.Pcholdflags.Hmdecel
		» False
6567	6576	Perf_Background_Dpkg.Pcholdflags.Manhmwarn
		» True
6568	6577	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
		» True
6569	6578	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
		» True
6570	6579	Perf_Background_Dpkg.Pcholdflags.Hmdistval
		» True
6571	6580	Perf_Background_Dpkg.Pcholdflags.Consider_Hm
		» False
6572	6581	Perf_Background_Dpkg.Pshmdecel
		» False
6573	6582	Perf_Background_Dpkg.Psconsider_Hm
		» True
6574	6583	Perf_Background_Dpkg.Pcspdtgttag Fmcs_Base_Ty
		» pes.Mach
6575	6584	Perf_Background_Dpkg.Psfcuspd
		» 0.0
6576	6585	Perf_Background_Dpkg.Psfpatgt
		» 0.0
6577	6586	Perf_Background_Dpkg.Psfpaact
		» false
6578	6587	Perf_Integration_Dpkg.Psvstgt
		» 0.0
6579	6588	Perf_Background_Dpkg.Psvsact
		» false
6580	6589	
6581	6590	
6582	6591	OUTPUT EXPECTED TOLERANCE ACTUAL

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
     |          |»          P/F
 6583| 6592    |--------------------------------------------------  ------------------------------  -------------  ------------------
     |          |» --------  ----
 6584| 6593    |Perf_Background_Dpkg.Pcholdflags.Hmactive                               False          (N/A)
     |          |»     FALSE  P
 6585| 6594    |Perf_Background_Dpkg.Pcholdflags.Hmdecel                                True           (N/A)
     |          |»      TRUE  P
 6586| 6595    |Perf_Background_Dpkg.Pcholdflags.Manhmwarn                              False          (N/A)
     |          |»     FALSE  P
 6587| 6596    |Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                              False          (N/A)
     |          |»     FALSE  P
 6588| 6597    |Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                              False          (N/A)
     |          |»     FALSE  P
 6589| 6598    |Perf_Background_Dpkg.Pcholdflags.Hmdistval                              False          (N/A)
     |          |»     FALSE  P
 6590| 6599    |Perf_Background_Dpkg.Pcholdflags.Consider_Hm                            True           (N/A)
     |          |»      TRUE  P
 6591| 6600    |Perf_Dpkg.Pshmdeleted                                                   False          (N/A)
     |          |»     FALSE  P
 6592| 6601    |Perf_Background_Dpkg.Pshmdecel                                          True           (N/A)
     |          |»      TRUE  P
 6593| 6602    |Perf_Background_Dpkg.Psconsider_Hm                                      False          (N/A)
     |          |»     FALSE  P
 6594| 6603    |Perf_Background_Dpkg.Pcspdtgttag                                        CAS            (N/A)
     |          |»       CAS  P
 6595| 6604    |Perf_Background_Dpkg.Psfcuspd                                           320.0          0.001                    3.2
     |          |» 0000E+02  P
 6596| 6605    |Perf_Background_Dpkg.Psfpatgt                                           /= 1.0         0.001                    0.0
     |          |» 0000E+00  P
 6597| 6606    |Perf_Background_Dpkg.Psfpaact                                          /= true         (N/A)
     |          |»     FALSE  P
 6598| 6607    |Perf_Integration_Dpkg.Psvstgt                                          /= 1.0          0.001                    0.0
     |          |» 0000E+00  P
 6599| 6608    |Perf_Background_Dpkg.Psvsact                                          /= true          (N/A)
     |          |»     FALSE  P
 6600| 6609    |
 6601| 6610    |
 6602| 6611    |====> All 16 Comparisons Passed <====
 6603| 6612    |
 6604| 6613    |
 6605| 6614    |TESTID: 43
 6606| 6615    |
 6607| 6616    |    If the working flight plan is Active or Temporary, flags related to HM legs shall be set      as follows:
 6608| 6617    |    - Perf hold flag record (Pcholdflags) is copied from guidance
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6609  6618      - Descent limit latch record (Pcdeslimlat) is copied from guidance.
6610  6619      - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to true if the current flight phase is approac
              » h.
6611  6620      - If the Demand task has indicated that the current HM deceleration needs to be re-evaluated and Guidance no longer
              » considers
6612  6621        the aircraft to be in a HM deceleration, then the re-evaluation indication flag is cleared (Repredict_Hm_Decel).
6613  6622      - If Guidance no longer considers the aircraft to be in a HM deceleration (or within 3 NM prior to the entry of the
              » HM if no
6614  6623        deceleration was predicted) and Demand task has indicated HM leg deleted while in decel to HM flag is set, then c
              » lear the HM
6615  6624        leg deleted while in decel to HM flag (Pshmdeleted).
6616  6625      - If Guidance considers the aircraft to be within 3 NM prior to the entry of the HM if no deceleration was predicte
              » d, and the
6617  6626        HM leg has not been deleted while within 3 NM prior to the entry of the HM, then flag indicating that the aircraf
              » t is within
6618  6627        the 3 NM prior to the entry of the HM shall be set to true. Otherwise, it is set to false.
6619  6628      - If Guidance considers the aircraft to be in a HM deceleration, and the HM leg has  not been deleted while in dece
              » l to HM,
6620  6629        then flag indicating that the aircraft is within the HM decel zone is set to true. Otherwise, it is set to false
6621  6630      PERF_SDD_4794_INT
6622  6631     This case verify when both PERF_SDD_4779_INT, PERF_SDD_4780_INT are not satisfied.
6623  6632
6624  6633      This test case verify
6625  6634      (1)Flag indicating that the aircraft is within the 3 NM prior to the entry of the HM(Psconsider_Hm) is set to True
              » (T,F,F)
6626  6635
6627  6636      When the FPA mode active and the target retrieved from IO are valid,
6628  6637      then the FPA target is set to the retrieved FPA target, after conversion from Degrees to Radians.
6629  6638      The flag indicating the FPA mode active is set to True.Otherwise, if the Vertical Speed mode active and the target
              » retrieved
6630  6639      from IO are valid, then the vertical speed target is set to the retrieved vertical speed target after conversion f
              » rom ft/min
6631  6640      to ft/sec. The flag indicating the vertical speed mode active is set to True.
6632  6641      PERF_SDD_07504_INT
6633  6642      --In this test case,Fpa_Target.Valid is false and Vspd_Mode_Active.Data is false
6634  6643      REQUIREMENTS UNDER EVALUATION : PERF_SDD_4794_INT, PERF_SDD_4779_INT, PERF_SDD_4780_INT,PERF_SDD_07504_INT
6635  6644      SUPPORTING REQUIREMENTS : N/A
6636  6645
6637  6646
6638  6647 INPUT                                                                                                            VALUE
6639  6648 ----------------------------------------------------------------------------------------------- ------------------
              » --------
6640  6649 Perf_Background_Dpkg.Flight_Plan_Type                                                                       Copy_Fro
              » m_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6641   6650 Perf_Background_Dpkg.Pcactorsec                                                                          T
            » emporary
6642   6651 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
            »      False
6643   6652 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdecel
            »      False
6644   6653 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Manhmwarn
            »      False
6645   6654 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxdecel
            »      False
6646   6655 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hxpxactiv
            »      False
6647   6656 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmdistval
            »      False
6648   6657 Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Consider_Hm
            »      True
6649   6658 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »      False
6650   6659 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Icaolim
            »      False
6651   6660 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Desdecel
            »      False
6652   6661 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
            » Approach
6653   6662 Perf_Dpkg.Pshmdeleted
            »      False
6654   6663 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Mach
            »      0.58
6655   6664 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Mach
            »      False
6656   6665 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
            »      True
6657   6666 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.Selected_Airspeed
            »      320.0
6658   6667 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_validity_rec.Selected_Airspeed
            »      True
6659   6668 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
            »      True
6660   6669 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Flight_Path_Angle_Mode_Active
            »      true
6661   6670 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Flight_Path_Angle_Target
            »      false
6662   6671 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Flight_Path_Angle_Target
            »      57.3066
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6663   6672 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Vertical_Speed_Mode_Active
            »      false
6664   6673 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Vertical_Speed_Target
            »      true
6665   6674 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_rec.Vertical_Speed_Target
            »      451.0
6666   6675 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
            »      True
6667   6676 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
            »      true
6668   6677 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
            »      True
6669   6678 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
            »      True
6670   6679 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
            »      20000
6671   6680 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat
            »      79.0
6672   6681 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas
            »      451.0
6673   6682 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach
            »      1.0
6674   6683 CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status
            »      true
6675   6684 Perf_Background_Dpkg.Pcholdflags.Hmactive
            »      True
6676   6685 Perf_Background_Dpkg.Pcholdflags.Hmdecel
            »      True
6677   6686 Perf_Background_Dpkg.Pcholdflags.Manhmwarn
            »      True
6678   6687 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
            »      True
6679   6688 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
            »      True
6680   6689 Perf_Background_Dpkg.Pcholdflags.Hmdistval
            »      True
6681   6690 Perf_Background_Dpkg.Pcholdflags.Consider_Hm
            »      False
6682   6691 Perf_Background_Dpkg.Psconsider_Hm
            »      False
6683   6692 Perf_Background_Dpkg.Pcspdtgttag                                                Fmcs_Base_T
            » ypes.Cas
6684   6693 Perf_Background_Dpkg.Psfcuspd
            »      0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6685   6694 Perf_Background_Dpkg.Psfpatgt
            »      0.0
6686   6695 Perf_Background_Dpkg.Psfpaact
            »     false
6687   6696 Perf_Integration_Dpkg.Psvstgt
            »      0.0
6688   6697 Perf_Background_Dpkg.Psvsact
            »     false

6689   6698
6690   6699
6691   6700 OUTPUT                                                      EXPECTED              TOLERANCE            ACTUAL
            »        P/F
6692   6701 ----------------------------------------------------- ------------------------------ -------------    ------------------
            » --------  ----
6693   6702 Perf_Background_Dpkg.Pcholdflags.Hmactive                         False            (N/A)
            »    FALSE  P
6694   6703 Perf_Background_Dpkg.Pcholdflags.Hmdecel                          False            (N/A)
            »    FALSE  P
6695   6704 Perf_Background_Dpkg.Pcholdflags.Manhmwarn                        False            (N/A)
            »    FALSE  P
6696   6705 Perf_Background_Dpkg.Pcholdflags.Hxpxdecel                        False            (N/A)
            »    FALSE  P
6697   6706 Perf_Background_Dpkg.Pcholdflags.Hxpxactiv                        False            (N/A)
            »    FALSE  P
6698   6707 Perf_Background_Dpkg.Pcholdflags.Hmdistval                        False            (N/A)
            »    FALSE  P
6699   6708 Perf_Background_Dpkg.Pcholdflags.Consider_Hm                      True             (N/A)
            »     TRUE  P
6700   6709 Perf_Dpkg.Pshmdeleted                                             False            (N/A)
            »    FALSE  P
6701   6710 Perf_Background_Dpkg.Psconsider_Hm                                True             (N/A)
            »     TRUE  P
6702   6711 Perf_Background_Dpkg.Pcspdtgttag                                  CAS              (N/A)
            »      CAS  P
6703   6712 Perf_Background_Dpkg.Psfcuspd                                     0.0              0.001                   0.0
            » 0000E+00  P
6704   6713 Perf_Background_Dpkg.Psfpatgt                                     /= 1.0           0.001                   0.0
            » 0000E+00  P
6705   6714 Perf_Background_Dpkg.Psfpaact                                     /= true          (N/A)
            »    FALSE  P
6706   6715 Perf_Integration_Dpkg.Psvstgt                                    /= 7.5           0.001                   0.0
            » 0000E+00  P
6707   6716 Perf_Background_Dpkg.Psvsact                                     /= true          (N/A)
            »    FALSE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6708  6717
6709  6718
6710  6719  ====> All 15 Comparisons Passed <====
6711  6720
6712  6721
6713  6722  TESTID: 44
6714  6723  TC 44 verifies:
6715  6724  when Itinerary is Fuel_Plan_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
6716  6725  the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Temporary, so, the Active F
            » light plan
6717  6726  is passed as input to the function.
6718  6727  also, when satisfy the following condition, Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true.
6719  6728  1) OPC Auto-Derate climb option activated set to True
6720  6729  2) Pilot selected Climb mode is Auto-Derate
6721  6730  3) Cruise altitude validity flag is set to True
6722  6731  4) Take-off gross weight validity flag is set to True
6723  6732  PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
6724  6733                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
6725  6734  When Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true, the procedure Perf_Int_Utils.Climb_Autodrt procedure
6726  6735  shall be called to compute the auto-derate outputs. Also, Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to true.
6727  6736  PERF_SDD_07919 (PERF_SRD_12641)
6728  6737      REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
6729  6738      SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            » 70_INT,
6730  6739                                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
6731  6740
6732  6741
6733  6742  INPUT                                                                                                        VALUE
6734  6743  ------------------------------------------------------------------------------------------------------ -----------------
            » --------
6735  6744  Perf_Background_Dpkg.Flight_Plan_Type                                                                             I
            » s_Active
6736  6745  Perf_Background_Dpkg.Pcitin.Itinerary                                                                      Fuel_Plan_Fp
            » ln_Preds
6737  6746  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
            »   Takeoff
6738  6747  Perf_Background_Dpkg.Pcactorsec                                                                                   T
            » emporary
6739  6748  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode              Cdk_Entry_Tpkg.Aut
            » o_Derate
6740  6749  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode               Cdk_Entry_
            » Tpkg.Clb
6741  6750  Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
            »     True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6742   6751  Perf_Background_Dpkg.Pscrzalt.Valid
             »       True
6743   6752  Perf_Dpkg.takeoff_gwt.valid
             »       True
6744   6753  Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Woendalt
             »    3500.0
6745   6754  Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Wos
             »       1.5
6746   6755  Ctp_A350_perf_Bkgnd_Get_Bk_Data.CTP_Dtflex
             »       2.0
6747   6756  Perf_Background_Dpkg.Use_Clb_Autodrt
             »      False
6748   6757  Perf_Background_Dpkg.Climb_Autodrt.Is_Valid
             »      False
6749   6758  Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_End_Alt
             »       0.0
6750   6759  Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_Slope
             »       0.0
6751   6760  Perf_Background_Dpkg.Climb_Autodrt.Delta_T_Flex
             »       0.0
6752   6761
6753   6762
6754   6763   define Call_Auto_Derated_Climb_Mode   := false
6755   6764   define Call_Auto_Derated_Climb_Mode   := True
6756   6765   define Call_Climb_Autodrt   := false
6757   6766   define Call_Climb_Autodrt   := True
6758   6767   define Call_Auto_Derated_Climb_Mode   := True
6759   6768   define Call_Climb_Autodrt   := True
6760   6769
6761   6770
6762   6771  OUTPUT                                                      EXPECTED              TOLERANCE            ACTUAL
             »          P/F
6763   6772  -------------------------------------------------------  -----------------------------  ------------  ------------------
             » --------  ----
6764   6773  Perf_Background_Dpkg.Use_Clb_Autodrt                                        True          (N/A)
             »      TRUE   P
6765   6774  Call_Auto_Derated_Climb_Mode                                               True          (N/A)
             »      TRUE   P
6766   6775  Call_Climb_Autodrt                                                         True          (N/A)
             »      TRUE   P
6767   6776  Perf_Background_Dpkg.Climb_Autodrt.Is_Valid                                True          (N/A)
             »      TRUE   P
6768   6777  Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_End_Alt                        3500.0        0.001                   3.5
             » 0000E+03  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6769   6778 Perf_Background_Dpkg.Climb_Autodrt.Wash_Out_Slope                    1.5        0.001               1.5
            » 0000E+00  P
6770   6779 Perf_Background_Dpkg.Climb_Autodrt.Delta_T_Flex                      2.0        0.001               2.0
            » 0000E+00  P
6771   6780
6772   6781
6773   6782 ====> All 7 Comparisons Passed <====
6774   6783
6775   6784
6776   6785 TESTID: 45
6777   6786 TC 45 verifies:
6778   6787 when Itinerary is Current_Mode_Hi_Pri and the A/C is in Climb, pilot selected climb mode is obtained by calling
6779   6788 the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Secondary, so, the
6780   6789 current working flight plan is passed as input to the function.
6781   6790 also, In this case, condition (2) is not satisfied, Clb_Autodrt_mode is set to Cdk_Entry_Tpkg.Clb.
6782   6791 so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
6783   6792
6784   6793 1) OPC Auto-Derate climb option activated set to True
6785   6794 2) Pilot selected Climb mode is Auto-Derate
6786   6795 3) Cruise altitude validity flag is set to True
6787   6796 4) Take-off gross weight validity flag is set to True
6788   6797 5) The A/C has not sequenced the initial TOC for Active Flight plan
6789   6798 PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
6790   6799                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
6791   6800 Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
6792   6801 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
6793   6802 PERF_SDD_07919 (PERF_SRD_12641)
6794   6803     REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
6795   6804     SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            » 70_INT,
6796   6805                               PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
6797   6806
6798   6807
6799   6808 INPUT                                                                                                       VALUE
6800   6809 ------------------------------------------------------------------------------------------------- -----------------
            » --------
6801   6810 Perf_Background_Dpkg.Flight_Plan_Type                                                                           I
            » s_Active
6802   6811 Perf_Background_Dpkg.Pcitin.Itinerary                                                                  Current_Mod
            » e_Hi_Pri
6803   6812 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
            »     Climb
6804   6813 Perf_Background_Dpkg.Pcactorsec                                                                                 S
            » econdary
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6805   6814 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode              Cdk_Entry_Tpkg.Aut
            » o_Derate
6806   6815 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Secondary ).Autoderated_Climb_Mode                 Cdk_Entry_
            » Tpkg.Clb
6807   6816 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
            »       True
6808   6817 Perf_Background_Dpkg.Pscrzalt.Valid
            »       True
6809   6818 Perf_Dpkg.takeoff_gwt.valid
            »       True
6810   6819 Perf_Background_Dpkg.Use_Clb_Autodrt
            »      False
6811   6820 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid
            »       True
6812   6821
6813   6822
6814   6823  define Call_Auto_Derated_Climb_Mode   := false
6815   6824  define Call_Auto_Derated_Climb_Mode   := True
6816   6825  define Call_Climb_Autodrt   := false
6817   6826  define Call_Climb_Autodrt   := True
6818   6827  define Call_Auto_Derated_Climb_Mode   := True
6819   6828
6820   6829
6821   6830 OUTPUT                                                  EXPECTED            TOLERANCE           ACTUAL
            »           P/F
6822   6831 -------------------------------------------------  ----------------------------  ------------  ------------------
            » --------  ----
6823   6832 Perf_Background_Dpkg.Use_Clb_Autodrt                              False          (N/A)
            »     FALSE  P
6824   6833 Call_Auto_Derated_Climb_Mode                                     True           (N/A)
            »      TRUE  P
6825   6834 Call_Climb_Autodrt                                               False          (N/A)
            »     FALSE  P
6826   6835 Perf_Background_Dpkg.Climb_Autodrt.Is_Valid                      False          (N/A)
            »     FALSE  P
6827   6836
6828   6837
6829   6838 ====> All 4 Comparisons Passed <====
6830   6839
6831   6840
6832   6841 TESTID: 46
6833   6842 TC 46 verifies:
6834   6843 when Itinerary is Prim_Fpln_Preds and the A/C is in Climb, pilot selected climb mode is obtained by calling
6835   6844 the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Temporary, so, the Active F
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » light plan
  6836   6845 | is passed as input to the function.
  6837   6846 | also, In this case, condition (1) is not satisfied, Auto_Derate_Climb_Enable is set to False.
  6838   6847 | so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
  6839   6848 |
  6840   6849 | 1) OPC Auto-Derate climb option activated set to True
  6841   6850 | 2) Pilot selected Climb mode is Auto-Derate
  6842   6851 | 3) Cruise altitude validity flag is set to True
  6843   6852 | 4) Take-off gross weight validity flag is set to True
  6844   6853 | 5) The A/C has not sequenced the initial TOC for Active Flight plan
  6845   6854 | PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
  6846   6855 |                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
  6847   6856 | Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
  6848   6857 | PERF_SDD_07919 (PERF_SRD_12641)
  6849   6858 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
  6850   6859 |    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
                    » 70_INT,
  6851   6860 |                                PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
  6852   6861 |
  6853   6862 |
  6854   6863 | INPUT                                                                                           VALUE
  6855   6864 | ------------------------------------------------------------------------------------------- ------------------
                    » --------
  6856   6865 | Perf_Background_Dpkg.Flight_Plan_Type                                                            I
                    » s_Active
  6857   6866 | Perf_Background_Dpkg.Pcitin.Itinerary                                                            Prim_Fp
                    » ln_Preds
  6858   6867 | Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
                    »    Climb
  6859   6868 | Perf_Background_Dpkg.Pcactorsec                                                                  T
                    » emporary
  6860   6869 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode      Cdk_Entry_Tpkg.Aut
                    » o_Derate
  6861   6870 | Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode    Cdk_Entry_
                    » Tpkg.Clb
  6862   6871 | Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
                    »    False
  6863   6872 | Perf_Background_Dpkg.Pscrzalt.Valid
                    »    True
  6864   6873 | Perf_Dpkg.takeoff_gwt.valid
                    »    True
  6865   6874 | Perf_Background_Dpkg.Use_Clb_Autodrt
                    »    False
  6866   6875 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6867   6876
6868   6877   define Call_Auto_Derated_Climb_Mode    := false
6869   6878   define Call_Auto_Derated_Climb_Mode    := True
6870   6879   define Call_Climb_Autodrt   := false
6871   6880   define Call_Climb_Autodrt   := True
6872   6881   define Call_Auto_Derated_Climb_Mode    := True
6873   6882
6874   6883
6875   6884   OUTPUT                                                                EXPECTED              TOLERANCE            ACTUAL
             »          P/F
6876   6885   ------------------------------------------------------  -----------------------------  -------------  ------------------
             » --------  ----
6877   6886   Perf_Background_Dpkg.Use_Clb_Autodrt                                  False              (N/A)
             »     FALSE   P
6878   6887   Call_Auto_Derated_Climb_Mode                                         True               (N/A)
             »     TRUE   P
6879   6888   Call_Climb_Autodrt                                                   False              (N/A)
             »     FALSE   P
6880   6889
6881   6890
6882   6891   ====> All 3 Comparisons Passed <====
6883   6892
6884   6893
6885   6894   TESTID: 47
6886   6895   TC 47 verifies:
6887   6896   when Itinerary is Current_Mode_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
6888   6897   the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
             » ht plan
6889   6898   is passed as input to the function.
6890   6899   also, In this case, condition (3) is not satisfied, Perf_Background_Dpkg.Pscrzalt.Valid is set to False.
6891   6900   so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
6892   6901
6893   6902   1) OPC Auto-Derate climb option activated set to True
6894   6903   2) Pilot selected Climb mode is Auto-Derate
6895   6904   3) Cruise altitude validity flag is set to True
6896   6905   4) Take-off gross weight validity flag is set to True
6897   6906   5) The A/C has not sequenced the initial TOC for Active Flight plan
6898   6907   PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
6899   6908                   PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
6900   6909   Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
6901   6910   PERF_SDD_07919 (PERF_SRD_12641)
6902   6911      REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
6903   6912      SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
             » 70_INT,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6904  6913                                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
6905  6914
6906  6915
6907  6916 INPUT                                                                                                        VALUE
6908  6917 ----------------------------------------------------------------------------------------- ------------------
          » --------
6909  6918 Perf_Background_Dpkg.Flight_Plan_Type                                                                             I
          » s_Active
6910  6919 Perf_Background_Dpkg.Pcitin.Itinerary                                                                    Current_Mo
          » de_Preds
6911  6920 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
          »    Takeoff
6912  6921 Perf_Background_Dpkg.Pcactorsec
          »    Active
6913  6922 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode                   Cdk_Entry_Tpkg.Aut
          » o_Derate
6914  6923 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode                    Cdk_Entry_
          » Tpkg.Clb
6915  6924 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
          »      True
6916  6925 Perf_Dpkg.takeoff_gwt.valid
          »      True
6917  6926 Perf_Background_Dpkg.Use_Clb_Autodrt
          »      False
6918  6927
6919  6928
6920  6929  define Call_Auto_Derated_Climb_Mode   := false
6921  6930  define Call_Auto_Derated_Climb_Mode   := True
6922  6931
6923  6932
6924  6933 INPUT                                                                                                        VALUE
6925  6934 ----------------------------------------------------------------------------------------- ------------------
          » --------
6926  6935 Perf_Background_Dpkg.Pscrzalt.Valid
          »      False
6927  6936
6928  6937
6929  6938  define Call_Climb_Autodrt   := false
6930  6939  define Call_Climb_Autodrt   := True
6931  6940  define Call_Auto_Derated_Climb_Mode   := True
6932  6941
6933  6942
6934  6943 INPUT                                                                                                        VALUE
6935  6944 ----------------------------------------------------------------------------------------- ------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
            »  --------
  6936   6945 Perf_Background_Dpkg.Pscrzalt.Valid
            »      False
  6937   6946
  6938   6947
  6939   6948 OUTPUT                                                          EXPECTED              TOLERANCE           ACTUAL
            »          P/F
  6940   6949 ------------------------------------------------------  ------------------------------  -------------  ------------------
            »  --------  ----
  6941   6950 Perf_Background_Dpkg.Use_Clb_Autodrt                                    False            (N/A)
            »      FALSE   P
  6942   6951 Call_Auto_Derated_Climb_Mode                                           True             (N/A)
            »      TRUE   P
  6943   6952 Call_Climb_Autodrt                                                     False            (N/A)
            »      FALSE  P
  6944   6953
  6945   6954
  6946   6955 ====> All 3 Comparisons Passed <====
  6947   6956
  6948   6957
  6949   6958 TESTID: 48
  6950   6959 TC 48 verifies:
  6951   6960 when Itinerary is Fuel_Plan_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
  6952   6961 the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
            »  ht plan
  6953   6962 is passed as input to the function.
  6954   6963 also, In this case, condition (4) is not satisfied, Perf_Dpkg.Takeoff_Gwt.Valid is set to False.
  6955   6964 so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
  6956   6965
  6957   6966 1) OPC Auto-Derate climb option activated set to True
  6958   6967 2) Pilot selected Climb mode is Auto-Derate
  6959   6968 3) Cruise altitude validity flag is set to True
  6960   6969 4) Take-off gross weight validity flag is set to True
  6961   6970 5) The A/C has not sequenced the initial TOC for Active Flight plan
  6962   6971 PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
  6963   6972                 PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
  6964   6973 Perf_Background_Dpkg.Use_Clb_Autodrt flag is not true, so Perf_Int_Utils.Climb_Autodrt will not be called.
  6965   6974 PERF_SDD_07919 (PERF_SRD_12641)
  6966   6975    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
  6967   6976    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
            »  70_INT,
  6968   6977                     PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
  6969   6978
  6970   6979
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6971   6980  INPUT                                                                                        VALUE
6972   6981  ------------------------------------------------------------------------------------  ------------------
             » --------
6973   6982  Perf_Background_Dpkg.Flight_Plan_Type                                                             I
             » s_Active
6974   6983  Perf_Background_Dpkg.Pcitin.Itinerary                                                    Fuel_Plan_Fp
             » ln_Preds
6975   6984  Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
             »    Takeoff
6976   6985  Perf_Background_Dpkg.Pcactorsec
             »    Active
6977   6986  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode       Cdk_Entry_Tpkg.Aut
             » o_Derate
6978   6987  Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode         Cdk_Entry_
             » Tpkg.Clb
6979   6988  Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
             »      True
6980   6989  Perf_Background_Dpkg.Pscrzalt.Valid
             »      True
6981   6990  Perf_Dpkg.takeoff_gwt.valid
             »      False
6982   6991  Perf_Background_Dpkg.Use_Clb_Autodrt
             »      False
6983   6992
6984   6993
6985   6994   define Call_Auto_Derated_Climb_Mode   := false
6986   6995   define Call_Auto_Derated_Climb_Mode   := True
6987   6996   define Call_Climb_Autodrt   := false
6988   6997   define Call_Climb_Autodrt   := True
6989   6998   define Call_Auto_Derated_Climb_Mode   := True
6990   6999
6991   7000
6992   7001  OUTPUT                                                    EXPECTED            TOLERANCE            ACTUAL
             »          P/F
6993   7002  -------------------------------------------------  -----------------------  -------------  ------------------
             » --------  ----
6994   7003  Perf_Background_Dpkg.Use_Clb_Autodrt                        False              (N/A)
             »      FALSE  P
6995   7004  Call_Auto_Derated_Climb_Mode                                True               (N/A)
             »       TRUE  P
6996   7005  Call_Climb_Autodrt                                          False              (N/A)
             »      FALSE  P
6997   7006
6998   7007
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
6999  7008 |====> All 3 Comparisons Passed <====
7000  7009 |
7001  7010 |
7002  7011 |TESTID: 49
7003  7012 |TC 49 verifies:
7004  7013 |when Itinerary is Current_Mode_Hi_Pri and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
7005  7014 |the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
           » ht plan
7006  7015 |is passed as input to the function. Also, In this case, the following conditions are satisfied
7007  7016 |(especially, the A/C has not sequenced the initial TOC for Active Flight plan )
7008  7017 |so, Perf_Background_Dpkg.Use_Clb_Autodrt will be set to true.
7009  7018 |
7010  7019 |1) OPC Auto-Derate climb option activated set to True
7011  7020 |2) Pilot selected Climb mode is Auto-Derate
7012  7021 |3) Cruise altitude validity flag is set to True
7013  7022 |4) Take-off gross weight validity flag is set to True
7014  7023 |5) The A/C has not sequenced the initial TOC for Active Flight plan
7015  7024 |PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7016  7025 |                PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7017  7026 |Perf_Background_Dpkg.Use_Clb_Autodrt flag is set to true, so Perf_Int_Utils.Climb_Autodrt
7018  7027 |will be called to compute the auto-derate outputs.
7019  7028 |PERF_SDD_07919 (PERF_SRD_12641)
7020  7029 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7021  7030 |    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
           » 70_INT,
7022  7031 |                                PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7023  7032 |
7024  7033 |
7025  7034 |INPUT                                                                                                        VALUE
7026  7035 |------------------------------------------------------------------------------------------------- -----------------
           » --------
7027  7036 |Perf_Background_Dpkg.Flight_Plan_Type                                                                             I
           » s_Active
7028  7037 |Perf_Background_Dpkg.Pcitin.Itinerary                                                                     Current_Mod
           » e_Hi_Pri
7029  7038 |Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
           »   Takeoff
7030  7039 |Perf_Background_Dpkg.Pcactorsec
           »    Active
7031  7040 |Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode          Cdk_Entry_Tpkg.Aut
           » o_Derate
7032  7041 |Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode            Cdk_Entry_
           » Tpkg.Clb
7033  7042 |Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 |    »       True
 7034 |  7043 | Perf_Background_Dpkg.Pscrzalt.Valid
                 |    »       True
 7035 |  7044 | Perf_Dpkg.takeoff_gwt.valid
                 |    »       True
 7036 |  7045 | Perf_Background_Dpkg.Psseqtoc
                 |    »     False
 7037 |  7046 | Perf_Background_Dpkg.Use_Clb_Autodrt
                 |    »     False
 7038 |  7047 |
 7039 |  7048 |
 7040 |  7049 |  define Call_Auto_Derated_Climb_Mode   := false
 7041 |  7050 |  define Call_Auto_Derated_Climb_Mode   := True
 7042 |  7051 |  define Call_Climb_Autodrt   := false
 7043 |  7052 |  define Call_Climb_Autodrt   := True
 7044 |  7053 |  define Call_Auto_Derated_Climb_Mode   := True
 7045 |  7054 |  define Call_Climb_Autodrt   := True
 7046 |  7055 |
 7047 |  7056 |
 7048 |  7057 | OUTPUT                                                      EXPECTED              TOLERANCE           ACTUAL
                 |    »          P/F
 7049 |  7058 | ------------------------------------------------------  ----------------------------  -------------  ------------------
                 |    » --------  ----
 7050 |  7059 | Perf_Background_Dpkg.Use_Clb_Autodrt                                      True           (N/A)
                 |    »       TRUE   P
 7051 |  7060 | Call_Auto_Derated_Climb_Mode                                              True           (N/A)
                 |    »       TRUE   P
 7052 |  7061 | Call_Climb_Autodrt                                                        True           (N/A)
                 |    »       TRUE   P
 7053 |  7062 |
 7054 |  7063 |
 7055 |  7064 | ====> All 3 Comparisons Passed <====
 7056 |  7065 |
 7057 |  7066 |
 7058 |  7067 | TESTID: 50
 7059 |  7068 | TC 50 verifies:
 7060 |  7069 | when Itinerary is Prim_Fpln_Preds and the A/C is in Takeoff, pilot selected climb mode is obtained by calling
 7061 |  7070 | the function Cdk_Vert_Dpkg.Auto_Derated_Climb_Mode, and the current working flight plan is Active, so, the Active Flig
                 |    » ht plan
 7062 |  7071 | is passed as input to the function.
 7063 |  7072 | also, In this case, condition (5) is not satisfied, The A/C has sequenced the initial TOC for Active Flight plan
 7064 |  7073 | (Perf_Background_Dpkg.Psseqtoc is true)
 7065 |  7074 | so, Perf_Background_Dpkg.Use_Clb_Autodrt will not be set to true.
 7066 |  7075 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7067|   7076|1) OPC Auto-Derate climb option activated set to True
7068|   7077|2) Pilot selected Climb mode is Auto-Derate
7069|   7078|3) Cruise altitude validity flag is set to True
7070|   7079|4) Take-off gross weight validity flag is set to True
7071|   7080|5) The A/C has not sequenced the initial TOC for Active Flight plan
7072|   7081|PERF_SDD_07956(PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_12670_INT,
7073|   7082|                  PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT)
7074|   7083|Perf_Background_Dpkg.Use_Clb_Autodrt flag is not set to true, so Perf_Int_Utils.Climb_Autodrt
7075|   7084|will not be called to compute the auto-derate outputs. Perf_Background_Dpkg.Climb_Autodrt.Is_Valid is set to false.
7076|   7085|PERF_SDD_07919 (PERF_SRD_12641)
7077|   7086|    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7078|   7087|    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
         |       » 70_INT,
7079|   7088|                                   PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7080|   7089|
7081|   7090|
7082|   7091|INPUT                                                                                             VALUE
7083|   7092|-------------------------------------------------------------------------------------- -----------------
         |       » --------
7084|   7093|Perf_Background_Dpkg.Flight_Plan_Type                                                                I
         |       » s_Active
7085|   7094|Perf_Background_Dpkg.Pcitin.Itinerary                                                           Prim_Fp
         |       » ln_Preds
7086|   7095|Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
         |       »  Takeoff
7087|   7096|Perf_Background_Dpkg.Pcactorsec
         |       »   Active
7088|   7097|Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode          Cdk_Entry_Tpkg.Aut
         |       » o_Derate
7089|   7098|Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode         Cdk_Entry_
         |       » Tpkg.Clb
7090|   7099|Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
         |       »     True
7091|   7100|Perf_Background_Dpkg.Pscrzalt.Valid
         |       »     True
7092|   7101|Perf_Dpkg.takeoff_gwt.valid
         |       »     True
7093|   7102|Perf_Background_Dpkg.Psseqtoc
         |       »     True
7094|   7103|Perf_Background_Dpkg.Use_Clb_Autodrt
         |       »     True
7095|   7104|Perf_Background_Dpkg.Climb_Autodrt.Is_Valid
         |       »     True
7096|   7105|
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7097 | 7106 |
7098 | 7107 | define Call_Auto_Derated_Climb_Mode    := false
7099 | 7108 | define Call_Auto_Derated_Climb_Mode    := True
7100 | 7109 | define Call_Climb_Autodrt   := false
7101 | 7110 | define Call_Climb_Autodrt   := True
7102 | 7111 | define Call_Auto_Derated_Climb_Mode    := True
7103 | 7112 |
7104 | 7113 |
7105 | 7114 | OUTPUT                                                              EXPECTED              TOLERANCE            ACTUAL
      |      | »          P/F
7106 | 7115 | --------------------------------------------------------  ----------------------------  ------------  ------------------
      |      | » --------  ----
7107 | 7116 | Perf_Background_Dpkg.Use_Clb_Autodrt                                 False           (N/A)
      |      | »     FALSE  P
7108 | 7117 | Call_Auto_Derated_Climb_Mode                                         True            (N/A)
      |      | »      TRUE  P
7109 | 7118 | Call_Climb_Autodrt                                                   False           (N/A)
      |      | »     FALSE  P
7110 | 7119 | Perf_Background_Dpkg.Climb_Autodrt.Is_Valid                          False           (N/A)
      |      | »     FALSE  P
7111 | 7120 |
7112 | 7121 |
7113 | 7122 | ====> All 4 Comparisons Passed <====
7114 | 7123 |
7115 | 7124 |
7116 | 7125 | TESTID: 51
7117 | 7126 | TC 51 verifies when current itinerary is Fuel_Plan_Stage2, and the A/C is in Takeoff, FM will not Compute Climb Auto D
      |      | » erate.
7118 | 7127 | Perf_Background_Dpkg.Use_Clb_Autodrt flag is not set to true, so Perf_Int_Utils.Climb_Autodrt
7119 | 7128 | will not be called to compute the auto-derate outputs.
7120 | 7129 |
7121 | 7130 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07956, PERF_SDD_07919
7122 | 7131 |    SUPPORTING REQUIREMENTS : PERF_SRD_12641, PERF_SRD_12667_INT, PERF_SRD_12668_INT, PERF_SRD_12669_INT, PERF_SRD_126
      |      | » 70_INT,
7123 | 7132 |                              PERF_SRD_12671_INT, PERF_SRD_12672_INT, PERF_SRD_12673_INT
7124 | 7133 |
7125 | 7134 |
7126 | 7135 | INPUT                                                                                                       VALUE
7127 | 7136 | ----------------------------------------------------------------------------------------------------  ------------------
      |      | » --------
7128 | 7137 | Perf_Background_Dpkg.Flight_Plan_Type                                                                         I
      |      | » s_Active
7129 | 7138 | Perf_Background_Dpkg.Pcitin.Itinerary                                                                    Fuel_Pla
      |      | » n_Stage2
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7130   7139 Ctp_A350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase
            »    Takeoff
7131   7140 Perf_Background_Dpkg.Pcactorsec
            »      Active
7132   7141 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Active ).Autoderated_Climb_Mode              Cdk_Entry_Tpkg.Aut
            » o_Derate
7133   7142 Cdk_Vert_Dpkg:body.Fpln_Data( Fprequestrec_Types.Temporary ).Autoderated_Climb_Mode                Cdk_Entry_
            » Tpkg.Clb
7134   7143 Options_And_Data_Pkg.All_Options.Auto_Derate_Climb_Enable
            »      True
7135   7144 Perf_Background_Dpkg.Pscrzalt.Valid
            »      True
7136   7145 Perf_Dpkg.takeoff_gwt.valid
            »      True
7137   7146 Perf_Background_Dpkg.Psseqtoc
            »      True
7138   7147 Perf_Background_Dpkg.Use_Clb_Autodrt
            »      True
7139   7148
7140   7149
7141   7150  define Call_Auto_Derated_Climb_Mode   := false
7142   7151  define Call_Auto_Derated_Climb_Mode   := True
7143   7152  define Call_Climb_Autodrt   := false
7144   7153  define Call_Climb_Autodrt   := True
7145   7154
7146   7155
7147   7156 OUTPUT                                                        EXPECTED              TOLERANCE              ACTUAL
            »          P/F
7148   7157 -------------------------------------------------------- ----------------------------- -------------  ------------------
            » --------  ----
7149   7158 Perf_Background_Dpkg.Use_Clb_Autodrt                          False         (N/A)
            »    FALSE  P
7150   7159 Call_Auto_Derated_Climb_Mode                                 False         (N/A)
            »    FALSE  P
7151   7160 Call_Climb_Autodrt                                           False         (N/A)
            »    FALSE  P
7152   7161
7153   7162
7154   7163 ====> All 3 Comparisons Passed <====
7155   7164
7156   7165
7157   7166 TESTID: 52
7158   7167
7159   7168     And if the VG CAS is less than V2+10 and the flight phase is less than or equal to climb then VG CAS is set to V2+
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              » 10 speed.
7160   7169     If the previous non-envelope-limited target speed is not set to current VG MACH then previous non-envelope-limited
              » target speed
7161   7170     shall be set to the current VG CAS target and the previous CAS/Mach speed indicator is set to indicate CAS speed t
              » ype.
7162   7171     Here set VG CAS is large than V2+10 and flight phase is Preflight, previous CAS/Mach speed indicator is CAS.
7163   7172     PERF_SDD_3053_INT
7164   7173
7165   7174
7166   7175 INPUT                                                                                                       VALUE
7167   7176 ---------------------------------------------------------------------------------------------  ------------------
              » --------
7168   7177 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
              »      False
7169   7178 CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
              »      False
7170   7179 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
              »      False
7171   7180 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
              »      False
7172   7181 CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
              »      False
7173   7182 CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid
              »       True
7174   7183 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data
              »       True
7175   7184 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data
              »       True
7176   7185 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data
              »       True
7177   7186 CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data
              »       True
7178   7187 Perf_Dpkg.Min_Gwt
              »      100.0
7179   7188 Perf_Dpkg.Max_Gwt
              »      400.0
7180   7189 Perf_Background_Dpkg.Flight_Plan_Type                                                                          I
              » s_Active
7181   7190 Perf_Background_Dpkg.Psignorehm
              »       True
7182   7191 Perf_Background_Dpkg.Pcfltphase                                                                                 P
              » reflight
7183   7192 Perf_Background_Dpkg.Ats_Enable
              »       True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

7184	7193	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	P
		» reflight	
7185	7194	Perf_Background_Dpkg.Psacalt	
		» 10000.0	
7186	7195	Perf_Database_Dpkg.Psmmo	
		» 0.45	
7187	7196	Perf_Background_Dpkg.Pszfw	
		» 300.0	
7188	7197	Perf_Background_Dpkg.Psblockfuel	
		» 50.0	
7189	7198	Perf_Background_Dpkg.Pstaxifuel	
		» 25.0	
7190	7199	Perf_Background_Dpkg.Psairborne	
		» True	
7191	7200	Perf_Background_Dpkg.Psautolat	
		» False	
7192	7201	Guid_Ext_Dpkg.Gcxxlatautoc	
		» False	
7193	7202	Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE	
		» False	
7194	7203	Perf_Background_Dpkg.Psengout	
		» False	
7195	7204	Cdk_Vert_Dpkg:Body.Engine_Out_I	
		» True	
7196	7205	Perf_Background_Dpkg.Pcholdflags.Hmdecel	
		» True	
7197	7206	Perf_Dpkg.Repredict_Hm_Decel	
		» True	
7198	7207	Perf_Background_DPkg.Pshmdecel	
		» True	
7199	7208	Perf_Background_Dpkg.Pcholdflags.Hmactive	
		» True	
7200	7209	Perf_Ads_Dpkg.Fi_Enabled	
		» False	
7201	7210	Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive	
		» False	
7202	7211	Perf_Background_Dpkg.Pcholdflags.Manhmwarn	
		» True	
7203	7212	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel	
		» True	
7204	7213	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv	
		» True	
7205	7214	Perf_Background_Dpkg.Pcholdflags.Hmdistval	
		» True	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

7206	7215	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim	
		» True	
7207	7216	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim	
		» True	
7208	7217	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel	
		» True	
7209	7218	Perf_Background_Dpkg.Psappspdlat	
		» True	
7210	7219	Perf_Dpkg.Pcengoutprds	
		» Altpln	
7211	7220	Guid_Ext_Dpkg.Va3lcautoctl	
		» True	
7212	7221	Perf_Background_Dpkg.Psvgonpath	
		» False	
7213	7222	Perf_Background_Dpkg.Pcpathref	
		» Onpath	
7214	7223	Guid_Ext_Dpkg.Va3Vertmde	Perf_Ext_Tp
		» kg.Vmspd	
7215	7224	Perf_Background_DPkg.Pscurcas	
		» 5.0	
7216	7225	Perf_Background_DPkg.Pscurmach	
		» 5.0	
7217	7226	Perf_Background_DPkg.Pscurtas	
		» 5.0	
7218	7227	Perf_Despath_Dpkg.Pcdespath.Vgavalid	
		» True	
7219	7228	Perf_Background_Dpkg.Pstogwtval	
		» False	
7220	7229	Perf_Background_Dpkg.Pstogwt	
		» 50.0	
7221	7230	Perf_Background_Dpkg.Pcgwind	
		» Invalid	
7222	7231	Perf_Background_Dpkg.Psgw	
		» 0.0	
7223	7232	Perf_Dpkg.Gross_Weight.Status	
		» Valid	
7224	7233	Perf_Dpkg.Gross_Weight.Data	
		» 150.0	
7225	7234	Perf_Integration_DPkg.Pcairbrakes	
		» Fullab	
7226	7235	Perf_Background_Dpkg.Pcacconfig	
		» 5	
7227	7236	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included	
		» False	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

7228	7237	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
		» 9000.0
7229	7238	Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
		» 200.0
7230	7239	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
		» False
7231	7240	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
		» 265.0
7232	7241	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
		» 0.55
7233	7242	Perf_Background_Dpkg.Psstpclbact
		» True
7234	7243	Perf_Background_Dpkg.Psstpdesact
		» True
7235	7244	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
		» 0.0
7236	7245	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
		» 0.0
7237	7246	Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
		» 0.65
7238	7247	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
		» 345.0
7239	7248	Perf_Background_Dpkg.Pccuraltcstr.Valid
		» True
7240	7249	Perf_Background_Dpkg.Pcprebcalt.Valid
		» True
7241	7250	Perf_Background_Dpkg.Pcgmttime.Hour
		» 1
7242	7251	Perf_Background_Dpkg.Pcgmttime.Minute
		» 1
7243	7252	Perf_Background_Dpkg.Pcgmttime.Second
		» 1
7244	7253	Perf_Background_Dpkg.Psinertvs
		» 5.0
7245	7254	Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
		» 0
7246	7255	Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
		» 2
7247	7256	Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
		» 0
7248	7257	Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
		» 2
7249	7258	Perf_Ads_Dpkg.Pr_Enabled
		» False

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7250 | 7259 | ATC_DISCRETES_PKG:body.Adson_Flag
     |      | »      False
7251 | 7260 | Perf_Integration_Dpkg.Psoldnoentgt
     |      | »       1.0
7252 | 7261 | Perf_Background_Dpkg.Pcoldcasmchi                                                             Fmcs_Base_Ty
     |      | » pes.Mach
7253 | 7262 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET_VALID
     |      | »      true
7254 | 7263 | CTP_A350_PERF_BKGND_GET_BK_DATA.DATA_SET
     |      | »      true
7255 | 7264 | ^Noise_End_Alt_Status                                                                         Takeoff_Alt_Type
     |      | » s.Active
7256 | 7265 | ^Noise_Speed_Val
     |      | »      True
7257 | 7266 | Perf_Background_Dpkg.Pcitin.Itinerary                                                         Fuel_Plan_Fp
     |      | » ln_Preds
7258 | 7267 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
     |      | »      False
7259 | 7268 | Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
     |      | »      False
7260 | 7269 | Perf_Background_Dpkg.Psv2plus10
     |      | »      -1.0
7261 | 7270 | Perf_Dpkg.takeoff_gwt.valid
     |      | »      True
7262 | 7271 | Perf_Dpkg.takeoff_gwt.data
     |      | »      400.0
7263 | 7272 |
7264 | 7273 |
7265 | 7274 | OUTPUT                                              EXPECTED              TOLERANCE              ACTUAL
     |      | »          P/F
7266 | 7275 | ------------------------------------------------  ----------------------------  ------------  ------------------
     |      | » --------  ----
7267 | 7276 | Perf_Integration_Dpkg.Psoldnoentgt                                0.0           0.001                    0.0
     |      | » 0000E+00  P
7268 | 7277 | Perf_Background_Dpkg.Pcoldcasmchi                                 Cas           (N/A)
     |      | »     CAS  P
7269 | 7278 |
7270 | 7279 |
7271 | 7280 | ====> All 2 Comparisons Passed <====
7272 | 7281 |
7273 | 7282 |
7274 | 7283 | TESTID: 53
7275 | 7284 |
7276 | 7285 | When following conditions are met:
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7277   7286 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
7278   7287 2. the descent speed limit is latched
7279   7288 3. the flight plan is Temporary,
7280   7289 4. the flight phase is descent
7281   7290 then the following shall be done:
7282   7291 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
7283   7292 ii) If the DES SPD LIM Perf leg is Included, then
7284   7293 If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
7285   7294  Optimum Descent CAS is set to the VG Partially-Limited CAS
7286   7295 Otherwise,
7287   7296 Optimum Descent CAS is set to the DES SPD LIM speed.
7288   7297
7289   7298 Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is not Included, Perf_Buffer.Getperfleg procedure will be call
            » ed and
7290   7299 Optimum Descent CAS will not be set.
7291   7300 PERF_SDD_08158_INT
7292   7301
7293   7302    REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
7294   7303
7295   7304    SUPPORTING REQUIREMENTS : N/A
7296   7305
7297   7306
7298   7307 INPUT                                                                                                     VALUE
7299   7308 ------------------------------------------------------------------------------------------------- ------------------
            » --------
7300   7309 Perf_Background_Dpkg.Flight_Plan_Type                                                                          I
            » s_Active
7301   7310 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »    Descent
7302   7311 Perf_Background_Dpkg.Pcfltphase
            »    Descent
7303   7312 Perf_Background_Dpkg.Psairborne
            »      False
7304   7313 Guid_Spds_Dpkg.Vc3prtlimcas
            »        0.0
7305   7314 Perf_Background_Dpkg.Pcactorsec                                                                                T
            » emporary
7306   7315 Perf_Background_Dpkg.Psdeslimspdchg
            »        True
7307   7316 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »        True
7308   7317 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
            »        False
7309   7318 Perf_Dpkg.Psfrstactprd
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              »      False
  7310 | 7319 Perf_Dpkg.Insrt_Tmpy_Frst_Preds
              »      False
  7311 | 7320 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
              »      False
  7312 | 7321 Perf_Background_Dpkg.Pcitin.Flight_Plan                                                                    T
              » emporary
  7313 | 7322 Perf_Background_Dpkg.Pcitin.Itinerary                                                                 Prim_Fp
              » ln_Preds
  7314 | 7323 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
              »      False
  7315 | 7324 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »      0.0
  7316 | 7325
  7317 | 7326
  7318 | 7327 OUTPUT                                            EXPECTED               TOLERANCE              ACTUAL
              »          P/F
  7319 | 7328 ------------------------------------------------  ----------------------------  -------------  -------------------
              » --------  ----
  7320 | 7329 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                0.0            0.001                  0.0
              » 0000E+00  P
  7321 | 7330 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                       True            (N/A)
              »      TRUE  P
  7322 | 7331
  7323 | 7332
  7324 | 7333 ====> All 2 Comparisons Passed <====
  7325 | 7334
  7326 | 7335
  7327 | 7336 TESTID: 54
  7328 | 7337
  7329 | 7338 When following conditions are met:
  7330 | 7339 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
  7331 | 7340 2. the descent speed limit is latched
  7332 | 7341 3. the flight plan is Temporary,
  7333 | 7342 4. the flight phase is descent
  7334 | 7343 then the following shall be done:
  7335 | 7344 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
  7336 | 7345 ii) If the DES SPD LIM Perf leg is Included, then
  7337 | 7346 If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
  7338 | 7347  Optimum Descent CAS is set to the VG Partially-Limited CAS
  7339 | 7348 Otherwise,
  7340 | 7349 Optimum Descent CAS is set to the DES SPD LIM speed.
  7341 | 7350
  7342 | 7351 Here conditon 1 is not satisfied, Perf_Buffer.Getperfleg procedure will not be called and
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7343 | 7352 | Optimum Descent CAS will not be set.
7344 | 7353 | PERF_SDD_08158_INT
7345 | 7354 |
7346 | 7355 | When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
     |      | » set to False.
7347 | 7356 | 1. First Preds After Insert Temporary indication is True or
7348 | 7357 | 2. The descent speed limit has not been latched or
7349 | 7358 | 3. The temporary flight plan does not exist.
7350 | 7359 |
7351 | 7360 | Here verify condition (the flag Psdeslimspdchg is set) is not satisfied, Psdeslimspdchg will not be set.
7352 | 7361 | PERF_SDD_08159_INT
7353 | 7362 |
7354 | 7363 |     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT, PERF_SDD_08159_INT
7355 | 7364 |
7356 | 7365 |     SUPPORTING REQUIREMENTS : N/A
7357 | 7366 |
7358 | 7367 |
7359 | 7368 | INPUT                                                                                       VALUE
7360 | 7369 | --------------------------------------------------------------------------------------  ------------------
     |      | » --------
7361 | 7370 | Perf_Background_Dpkg.Flight_Plan_Type                                                         I
     |      | » s_Active
7362 | 7371 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     |      | » Descent
7363 | 7372 | Perf_Background_Dpkg.Pcfltphase
     |      | » Descent
7364 | 7373 | Perf_Background_Dpkg.Psairborne
     |      | »     False
7365 | 7374 | Guid_Spds_Dpkg.Vc3prtlimcas
     |      | »       0.0
7366 | 7375 | Perf_Background_Dpkg.Pcactorsec                                                               T
     |      | » emporary
7367 | 7376 | Perf_Background_Dpkg.Psdeslimspdchg
     |      | »     False
7368 | 7377 | Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
     |      | »       True
7369 | 7378 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
     |      | »     False
7370 | 7379 | Perf_Dpkg.Psfrstactprd
     |      | »     False
7371 | 7380 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds
     |      | »     False
7372 | 7381 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
     |      | »     False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7373   7382 Perf_Background_Dpkg.Pcitin.Flight_Plan                                                                    T
            » emporary
7374   7383 Perf_Background_Dpkg.Pcitin.Itinerary                                                                 Prim_Fp
            » ln_Preds
7375   7384 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
            »     False
7376   7385 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »       0.0
7377   7386
7378   7387
7379   7388 OUTPUT                                                     EXPECTED                TOLERANCE              ACTUAL
            »           P/F
7380   7389 --------------------------------------------------  ------------------------------  -------------  ------------------
            » --------  ----
7381   7390 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                           0.0            0.001                 0.0
            » 0000E+00  P
7382   7391 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                                 False          (N/A)
            »     FALSE  P
7383   7392 Perf_Background_Dpkg.Psdeslimspdchg                                                 False          (N/A)
            »     FALSE  P
7384   7393
7385   7394
7386   7395 ====> All 3 Comparisons Passed <====
7387   7396
7388   7397
7389   7398 TESTID: 55
7390   7399
7391   7400 When following conditions are met:
7392   7401 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
7393   7402 2. the descent speed limit is latched
7394   7403 3. the flight plan is Temporary,
7395   7404 4. the flight phase is descent
7396   7405 then the following shall be done:
7397   7406 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
7398   7407 ii) If the DES SPD LIM Perf leg is Included, then
7399   7408 If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
7400   7409  Optimum Descent CAS is set to the VG Partially-Limited CAS
7401   7410 Otherwise,
7402   7411  Optimum Descent CAS is set to the DES SPD LIM speed.
7403   7412
7404   7413 Here conditon 2 is not satisfied, Perf_Buffer.Getperfleg procedure will not be called and
7405   7414 Optimum Descent CAS will not be set.
7406   7415 PERF_SDD_08158_INT
7407   7416
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7408   7417 When the flag Psdeslimspdchg is set and any of the following conditions is true, then the flag Psdeslimspdchg shall be
            » set to False.
7409   7418 1. First Preds After Insert Temporary indication is True or
7410   7419 2. The descent speed limit has not been latched or
7411   7420 3. The temporary flight plan does not exist.
7412   7421
7413   7422 Here verify condition 2 (descent speed limit has not been latched) is  satisfied, Psdeslimspdchg will  be set to False
            » .
7414   7423 PERF_SDD_08159_INT
7415   7424
7416   7425     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT, PERF_SDD_08159_INT
7417   7426
7418   7427     SUPPORTING REQUIREMENTS : N/A
7419   7428
7420   7429
7421   7430 INPUT                                                                                                         VALUE
7422   7431 -------------------------------------------------------------------------------------  ------------------
            » --------
7423   7432 Perf_Background_Dpkg.Flight_Plan_Type                                                                             I
            » s_Active
7424   7433 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            » Descent
7425   7434 Perf_Background_Dpkg.Pcfltphase
            » Descent
7426   7435 Perf_Background_Dpkg.Psairborne
            »     False
7427   7436 Guid_Spds_Dpkg.Vc3prtlimcas
            »       0.0
7428   7437 Perf_Background_Dpkg.Pcactorsec                                                                                   T
            » emporary
7429   7438 Perf_Background_Dpkg.Psdeslimspdchg
            »     True
7430   7439 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            »     False
7431   7440 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
            »     True
7432   7441 Perf_Dpkg.Psfrstactprd
            »     False
7433   7442 Perf_Dpkg.Insrt_Tmpy_Frst_Preds
            »     False
7434   7443 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
            »     False
7435   7444 Perf_Background_Dpkg.Pcitin.Flight_Plan                                                                          T
            » emporary
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7436   7445 Perf_Background_Dpkg.Pcitin.Itinerary                                                                     Prim_Fp
            » ln_Preds
7437   7446 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
            »      False
7438   7447 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »       0.0
7439   7448
7440   7449
7441   7450 OUTPUT                                                          EXPECTED              TOLERANCE            ACTUAL
            »            P/F
7442   7451 ------------------------------------------------------   ----------------------------  ------------   ------------------
            » --------  ----
7443   7452 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                              0.0           0.001                   0.0
            » 0000E+00  P
7444   7453 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                   False           (N/A)
            »      FALSE  P
7445   7454 Perf_Background_Dpkg.Psdeslimspdchg                                   False           (N/A)
            »      FALSE  P
7446   7455
7447   7456
7448   7457 ====> All 3 Comparisons Passed <====
7449   7458
7450   7459
7451   7460 TESTID: 56
7452   7461
7453   7462 When following conditions are met:
7454   7463 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
7455   7464 2. the descent speed limit is latched
7456   7465 3. the flight plan is Temporary,
7457   7466 4. the flight phase is descent
7458   7467 then the following shall be done:
7459   7468 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
7460   7469 ii) If the DES SPD LIM Perf leg is Included, then
7461   7470 If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
7462   7471   Optimum Descent CAS is set to the VG Partially-Limited CAS
7463   7472 Otherwise,
7464   7473   Optimum Descent CAS is set to the DES SPD LIM speed.
7465   7474
7466   7475 Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is zero,
7467   7476 Perf_Buffer.Getperfleg procedure will be called and Optimum Descent CAS will be set to DES SPD LIM speed.
7468   7477 PERF_SDD_08158_INT
7469   7478
7470   7479     REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
7471   7480
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7472   7481      SUPPORTING REQUIREMENTS : N/A
7473   7482
7474   7483
7475   7484  INPUT                                                                                    VALUE
7476   7485  ------------------------------------------------------------------------------------   ------------------
             » --------
7477   7486  Perf_Background_Dpkg.Flight_Plan_Type                                                         I
             » s_Active
7478   7487  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »  Descent
7479   7488  Perf_Background_Dpkg.Pcfltphase
             »  Descent
7480   7489  Perf_Background_Dpkg.Psairborne
             »     False
7481   7490  Guid_Spds_Dpkg.Vc3prtlimcas
             »       0.0
7482   7491  Perf_Background_Dpkg.Pcactorsec                                                               T
             » emporary
7483   7492  Perf_Background_Dpkg.Psdeslimspdchg
             »     True
7484   7493  Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
             »     True
7485   7494  FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
             »     False
7486   7495  Perf_Dpkg.Psfrstactprd
             »     False
7487   7496  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
             »     False
7488   7497  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
             »     True
7489   7498  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd
             »    160.0
7490   7499  Perf_Background_Dpkg.Pcpredcount(Temporary)
             »       1
7491   7500  Perf_Background_Dpkg.Pcitin.Flight_Plan                                                       T
             » emporary
7492   7501  Perf_Background_Dpkg.Pcitin.Itinerary                                                    Prim_Fp
             » ln_Preds
7493   7502  Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
             »     False
7494   7503  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »       0.0
7495   7504
7496   7505
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		OUTPUT	EXPECTED	TOLERANCE	ACTUAL
7497	7506	» P/F			
7498	7507	--- ------------------------------- ------------- ------------------			
		» -------- ----			
7499	7508	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	160.0	0.001	1.6
		» 0000E+02 P			
7500	7509	Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE	True	(N/A)	
		» TRUE P			
7501	7510				
7502	7511				
7503	7512	====> All 2 Comparisons Passed <====			
7504	7513				
7505	7514				
7506	7515	TESTID: 57			
7507	7516				
7508	7517	When following conditions are met:			
7509	7518	1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set			
7510	7519	2. the descent speed limit is latched			
7511	7520	3. the flight plan is Temporary,			
7512	7521	4. the flight phase is descent			
7513	7522	then the following shall be done:			
7514	7523	i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.			
7515	7524	ii) If the DES SPD LIM Perf leg is Included, then			
7516	7525	If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,			
7517	7526	Optimum Descent CAS is set to the VG Partially-Limited CAS			
7518	7527	Otherwise,			
7519	7528	Optimum Descent CAS is set to the DES SPD LIM speed.			
7520	7529				
7521	7530	Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is not zero, and			
7522	7531	the predictions count is less than or equal to one, verify Perf_Buffer.Getperfleg procedure will be called and			
7523	7532	Optimum Descent CAS will be set to the VG Partially-Limited CAS			
7524	7533	PERF_SDD_08158_INT			
7525	7534				
7526	7535	REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT			
7527	7536				
7528	7537	SUPPORTING REQUIREMENTS : N/A			
7529	7538				
7530	7539				
7531	7540	INPUT			VALUE
7532	7541	--- ------------------			
		» --------			
7533	7542	Perf_Background_Dpkg.Flight_Plan_Type			I
		» s_Active			
7534	7543	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                       »   Descent
 7535   7544 Perf_Background_Dpkg.Pcfltphase
                       »   Descent
 7536   7545 Perf_Background_Dpkg.Psairborne
                       »     False
 7537   7546 Guid_Spds_Dpkg.Vc3prtlimcas
                       »       1.0
 7538   7547 Perf_Background_Dpkg.Pcactorsec                                          T
                       » emporary
 7539   7548 Perf_Background_Dpkg.Psdeslimspdchg
                       »      True
 7540   7549 Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
                       »      True
 7541   7550 FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
                       »     False
 7542   7551 Perf_Dpkg.Psfrstactprd
                       »     False
 7543   7552 Perf_Dpkg.Insrt_Tmpy_Frst_Preds
                       »     False
 7544   7553 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
                       »      True
 7545   7554 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd
                       »     160.0
 7546   7555 Perf_Background_Dpkg.Pcpredcount(Temporary)
                       »         1
 7547   7556 Perf_Background_Dpkg.Psautolat
                       »      True
 7548   7557 Perf_Background_Dpkg.Psappspdlat
                       »     False
 7549   7558 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
                       »     False
 7550   7559 Perf_Background_Dpkg.Pcitin.Flight_Plan                                  T
                       » emporary
 7551   7560 Perf_Background_Dpkg.Pcitin.Itinerary                                Prim_Fp
                       » ln_Preds
 7552   7561 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
                       »     False
 7553   7562 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                       »       0.0
 7554   7563
 7555   7564
 7556   7565 OUTPUT                                          EXPECTED         TOLERANCE         ACTUAL
                       »         P/F
 7557   7566 ----------------------------------------------- ---------------------------- ------------ ------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)


```
                 » --------  ----
 7558   7567 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                    1.0          0.001                  1.0
                 » 0000E+00  P
 7559   7568 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                          True         (N/A)
                 »     TRUE  P
 7560   7569
 7561   7570
 7562   7571 ====> All 2 Comparisons Passed <====
 7563   7572
 7564   7573
 7565   7574 TESTID: 58
 7566   7575
 7567   7576 When following conditions are met:
 7568   7577 1.the flag indicating DES SPD LIM change (Psdeslimspdchg) is set
 7569   7578 2. the descent speed limit is latched
 7570   7579 3. the flight plan is Temporary,
 7571   7580 4. the flight phase is descent
 7572   7581 then the following shall be done:
 7573   7582 i) The DES SPD LIM perf leg is obtained for the temporary flight plan by calling the Perf_Buffer.Getperfleg procedure.
 7574   7583 ii) If the DES SPD LIM Perf leg is Included, then
 7575   7584  If the VG Partially-Limited CAS is non-zero, and the predictions count is less than or equal to one then,
 7576   7585  Optimum Descent CAS is set to the VG Partially-Limited CAS
 7577   7586  Otherwise,
 7578   7587  Optimum Descent CAS is set to the DES SPD LIM speed.
 7579   7588
 7580   7589 Here conditon 1,2,3 are satisfied, DES SPD LIM Perf leg is Included, the VG Partially-Limited CAS is not zero, and
 7581   7590 the predictions count is larger than to one, verify Perf_Buffer.Getperfleg procedure will be called and
 7582   7591 Optimum Descent CAS will be set to DES SPD LIM speed.
 7583   7592 PERF_SDD_08158_INT
 7584   7593
 7585   7594    REQUIREMENTS UNDER EVALUATION : PERF_SDD_08158_INT
 7586   7595
 7587   7596    SUPPORTING REQUIREMENTS : N/A
 7588   7597
 7589   7598
 7590   7599 INPUT                                                                                                      VALUE
 7591   7600 ------------------------------------------------------------------------------------------------- ------------------
                 » --------
 7592   7601 Perf_Background_Dpkg.Flight_Plan_Type                                                                           I
                 » s_Active
 7593   7602 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
                 »   Descent
 7594   7603 Perf_Background_Dpkg.Pcfltphase
                 »   Descent
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7595   7604 | Perf_Background_Dpkg.Psairborne
            | »       False
7596   7605 | Guid_Spds_Dpkg.Vc3prtlimcas
            | »        1.0
7597   7606 | Perf_Background_Dpkg.Pcactorsec                                                                  T
            | » emporary
7598   7607 | Perf_Background_Dpkg.Psdeslimspdchg
            | »       True
7599   7608 | Guid_Checkpoint_Resynch_Dpkg.Vc3deslimlat.Spdlim
            | »       True
7600   7609 | FPLN_RESYNC_DPKG:body.Fpln_Ext_Data.Tmpy_Exists
            | »       False
7601   7610 | Perf_Dpkg.Psfrstactprd
            | »       False
7602   7611 | Perf_Dpkg.Insrt_Tmpy_Frst_Preds
            | »       False
7603   7612 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Included
            | »       True
7604   7613 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg.Spd
            | »       160.0
7605   7614 | Perf_Background_Dpkg.Pcpredcount(Temporary)
            | »         3
7606   7615 | Perf_Background_Dpkg.Psautolat
            | »       True
7607   7616 | Perf_Background_Dpkg.Psappspdlat
            | »       False
7608   7617 | Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
            | »       False
7609   7618 | Perf_Background_Dpkg.Pcitin.Flight_Plan                                                          T
            | » emporary
7610   7619 | Perf_Background_Dpkg.Pcitin.Itinerary                                                       Prim_Fp
            | » ln_Preds
7611   7620 | Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE
            | »       False
7612   7621 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            | »       0.0
7613   7622 |
7614   7623 |
7615   7624 | OUTPUT                                                  EXPECTED              TOLERANCE          ACTUAL
            | »            P/F
7616   7625 | --------------------------------------------------  ----------------------------  -------------  ------------------
            | » --------  ----
7617   7626 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                   160.0                    0.001             1.6
            | » 0000E+02  P
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7618   7627 Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE                          True              (N/A)
            »     TRUE   P
7619   7628
7620   7629
7621   7630 ====> All 2 Comparisons Passed <====
7622   7631
7623   7632
7624   7633 TESTID: 59
7625   7634    If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
            » s are on,
7626   7635    the aircraft gross weight shall be set to any one of the following:
7627   7636   - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
            » craft
7628   7637    gross weight and Take Off gross weight being valid
7629   7638   - Aircraft GW from the Performance Weights function,  if the flight phase is other
7630   7639    than takeoff or before, or the aircraft gross weight or the Take Off gross weight
7631   7640    being invalid
7632   7641   The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
7633   7642    PERF_SDD_07501_INT
7634   7643    --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is Secondary,engines
            » are on,
7635   7644    --the flight phase is Preflight,and the aircraftgross weight and Take Off gross weight being valid
7636   7645    --then Aircraft Takeoff GW from the Performance Weights function
7637   7646
7638   7647    If the current itinerary is neither Current Mode Predictions (Normal or High priority)
7639   7648    nor Pred_to_alt itinerary, then the vertical mode(Pcvertmode) shall be set to Econ mode.
7640   7649    PERF_SDD_07506(PERF_SRD_6192)
7641   7650    --in this test case, the current itinerary is Pred_To_Alt_Preds
7642   7651    Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
7643   7652    are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
            » d to FL250.
7644   7653    PERF_SDD_07543_INT
7645   7654    --in this test case, only Guid_Spds_Dpkg.Vc3curspds.Mach.Data  leaa than the lower limits, the other are satisfied
7646   7655    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07506(PERF_SRD_6192),
7647   7656                                    PERF_SDD_07543_INT,PERF_SDD_07501_INT
7648   7657    SUPPORTING REQUIREMENTS : N/A
7649   7658
7650   7659
7651   7660 INPUT                                                                                                          VALUE
7652   7661 ------------------------------------------------------------------------------------- ------------------
            » --------
7653   7662 Perf_Dpkg.Min_Gwt
            »    100.0
7654   7663 Perf_Dpkg.Max_Gwt
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »      400.0
     7655   7664 Perf_Background_Dpkg.Flight_Plan_Type                                    Perf_Int_Base_Tpkg.I
                  »  s_Active
     7656   7665 Perf_Background_Dpkg.Pcitin.Itinerary                                              Pred_To_A
                  »  lt_Preds
     7657   7666 Perf_Background_Dpkg.Pcactorsec                                                            S
                  »  econdary
     7658   7667 Perf_Dpkg.Pcfirstpred(Secondary)
                  »      false
     7659   7668 Perf_Background_Dpkg.Psenginesoff
                  »      False
     7660   7669 Perf_Background_Dpkg.Pcgwind
                  »      Valid
     7661   7670 Perf_Dpkg.Gross_Weight.Status
                  »      Valid
     7662   7671 Perf_Background_Dpkg.Pcspeedmode                                               Perf_Ext_Tp
                  »  kg.Vmspd
     7663   7672 Guid_Ext_Dpkg.Va3vertmde                                                       Perf_Ext_Tp
                  »  kg.Vmspd
     7664   7673 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase                                         P
                  »  reflight
     7665   7674 Perf_Background_Dpkg.Pstogwtval
                  »      true
     7666   7675 Perf_Background_Dpkg.Psairborne
                  »      false
     7667   7676 Guid_Spds_Dpkg.Vc3curspds.Cas.Valid
                  »      true
     7668   7677 Guid_Spds_Dpkg.Vc3curspds.Cas.Data
                  »      10.01
     7669   7678 Guid_Spds_Dpkg.Vc3curspds.Mach.Valid
                  »      true
     7670   7679 Guid_Spds_Dpkg.Vc3curspds.Mach.Data
                  »      0.009
     7671   7680 Perf_Background_Dpkg.Pcvertmode                                            Perf_Int_Base_Tpkg
                  »  .Openclb
     7672   7681 Perf_Dpkg.Takeoff_Gwt.Valid
                  »      true
     7673   7682 Perf_Dpkg.Takeoff_Gwt.Data
                  »      90.0
     7674   7683 Perf_Background_Dpkg.Psgw
                  »      0.0
     7675   7684 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
                  »      false
     7676   7685 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 »         True
7677 │ 7686 │ Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach
                 »         true
7678 │ 7687 │ Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas
                 »         True
7679 │ 7688 │ Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas
                 »         True
7680 │ 7689 │ Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude
                 »        -2001
7681 │ 7690 │ Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
                 »         true
7682 │ 7691 │ CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
                 »    25001.0
7683 │ 7692 │ Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
                 »    25001.1
7684 │ 7693 │
7685 │ 7694 │
7686 │ 7695 │ OUTPUT                                          EXPECTED              TOLERANCE              ACTUAL
                 »         P/F
7687 │ 7696 │ ------------------------------------------------  ---------------------------  ------------  ------------------
                 » --------  ----
7688 │ 7697 │ Perf_Background_Dpkg.Psgw                                      90.0          0.001                   9.0
                 » 0000E+01  P
7689 │ 7698 │ Curcas                                                         0.0          0.001                   0.0
                 » 0000E+00  P
7690 │ 7699 │ Curmach                                                        0.0          0.001                   0.0
                 » 0000E+00  P
7691 │ 7700 │ Xoveralt                                                   25000.0          0.001                   2.5
                 » 0000E+04  P
7692 │ 7701 │ Perf_Background_Dpkg.Pcvertmode                 /= Perf_Int_Base_Tpkg.Econo        (N/A)
                 »   OPENCLB  P
7693 │ 7702 │ Perf_Background_Dpkg.Psgw                                     100.0          0.001                   1.0
                 » 0000E+02  P
7694 │ 7703 │
7695 │ 7704 │
7696 │ 7705 │ ====> All 6 Comparisons Passed <====
7697 │ 7706 │
7698 │ 7707 │
7699 │ 7708 │ TESTID: 60
7700 │ 7709 │     If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
                 » s are on,
7701 │ 7710 │     the aircraft gross weight shall be set to any one of the following:
7702 │ 7711 │    - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
                 » craft
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7703 | 7712 |     gross weight and Take Off gross weight being valid
7704 | 7713 |    - Aircraft GW from the Performance Weights function,  if the flight phase is other
7705 | 7714 |     than takeoff or before, or the aircraft gross weight or the Take Off gross weight
7706 | 7715 |     being invalid
7707 | 7716 |    The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
7708 | 7717 |    PERF_SDD_07501_INT
7709 | 7718 |    --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar
      |      | » e off,
7710 | 7719 |    --the flight phase is Preflight,Take Off gross weight is valid, but the aircraft gross weightis invalid ,then Airc
      |      | » raft GW
7711 | 7720 |    --from the Performance Weights function.
7712 | 7721 |    Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
7713 | 7722 |    are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
      |      | » d to FL250.
7714 | 7723 |    PERF_SDD_07543_INT
7715 | 7724 |    --In this test case, only Guid_Spds_Dpkg.Vc3Curspds.Mach.Valid is False
7716 | 7725 |    --as Flifht phase is Take off also test the negative case of PERF_SDD_07540 and PERF_SDD_08227_INT
7717 | 7726 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT
7718 | 7727 |    SUPPORTING REQUIREMENTS : N/A
7719 | 7728 |
7720 | 7729 |
7721 | 7730 | INPUT                                                                                                        VALUE
7722 | 7731 | ---------------------------------------------------------------------------------------------- -----------------
      |      | » --------
7723 | 7732 | Perf_Dpkg.Min_Gwt
      |      | »     100.0
7724 | 7733 | Perf_Dpkg.Max_Gwt
      |      | »     400.0
7725 | 7734 | Perf_Background_Dpkg.Flight_Plan_Type                                                   Perf_Int_Base_Tpkg.I
      |      | » s_Active
7726 | 7735 | Perf_Background_Dpkg.Pcitin.Itinerary                                                               Pred_To_A
      |      | » lt_Preds
7727 | 7736 | Perf_Background_Dpkg.Pcactorsec
      |      | »     Active
7728 | 7737 | Perf_Dpkg.Pcfirstpred(Active)
      |      | »     false
7729 | 7738 | Perf_Background_Dpkg.Psenginesoff
      |      | »     True
7730 | 7739 | Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off
      |      | »     true
7731 | 7740 | Perf_Background_Dpkg.Pcspeedmode                                                                     Perf_Ext_Tp
      |      | » kg.Vmspd
7732 | 7741 | Guid_Ext_Dpkg.Va3vertmde                                                                             Perf_Ext_Tp
      |      | » kg.Vmspd
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7733   7742 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase                                                      P
            » reflight
7734   7743 Perf_Background_Dpkg.Pcgwind
            »   Invalid
7735   7744 Perf_Background_Dpkg.Pstogwtval
            »     true
7736   7745 Perf_Background_Dpkg.Psairborne
            »     false
7737   7746 Guid_Spds_Dpkg.Vc3curspds.Cas.Valid
            »     true
7738   7747 Guid_Spds_Dpkg.Vc3curspds.Cas.Data
            »    10.01
7739   7748 Guid_Spds_Dpkg.Vc3curspds.Mach.Valid
            »    false
7740   7749 Guid_Spds_Dpkg.Vc3curspds.Mach.Data
            »    0.011
7741   7750 Perf_Background_Dpkg.Pcvertmode                                                          Perf_Int_Base_Tpkg
            » .Openclb
7742   7751 Perf_Dpkg.Gross_Weight.Status
            »   Invalid
7743   7752 Perf_Dpkg.Takeoff_Gwt.Valid
            »     True
7744   7753 Perf_Dpkg.Takeoff_Gwt.Data
            »     90.0
7745   7754 Perf_Dpkg.Gross_Weight.Data
            »    150.0
7746   7755 Perf_Background_Dpkg.Psgw
            »     0.0
7747   7756 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_40_blk0_rec.FRAME_40_Disc_Word_4.Mach_Selection_Mode_Selected
            »    false
7748   7757 CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt
            »  25001.0
7749   7758 Perf_Dpkg.Pgmanspdtgt.Speed.Xoveralt
            »  25001.1
7750   7759
7751   7760
7752   7761 OUTPUT                                                  EXPECTED               TOLERANCE            ACTUAL
            »          P/F
7753   7762 ------------------------------------------------------  ----------------------------  ------------   ------------------
            » --------  ----
7754   7763 Curcas                                                        0.0              0.001                0.0
            » 0000E+00   P
7755   7764 Curmach                                                       0.0              0.001                0.0
            » 0000E+00   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7756  7765 Xoveralt                                                        25000.0         0.001            2.5
           » 0000E+04  P
7757  7766 Perf_Background_Dpkg.Psgw                                          150.0         0.001            1.5
           » 0000E+02  P
7758  7767
7759  7768
7760  7769 ====> All 4 Comparisons Passed <====
7761  7770
7762  7771
7763  7772 TESTID: 61
7764  7773    If the current itinerary is not Fuel_Plan_Fpln_Preds and either the working flight plan is not Secondary or engine
           » s are on,
7765  7774    the aircraft gross weight shall be set to any one of the following:
7766  7775   - Aircraft Takeoff GW from the Performance Weights function, if the flight phase is takeoff or before, with the air
           » craft
7767  7776     gross weight and Take Off gross weight being valid
7768  7777   - Aircraft GW from the Performance Weights function,  if the flight phase is other
7769  7778     than takeoff or before, or the aircraft gross weight or the Take Off gross weight
7770  7779     being invalid
7771  7780    The above computed aircraft gross weight is limited between Min_Gwt and Max_Gwt.
7772  7781    PERF_SDD_07501_INT
7773  7782    --In this test case,the current itinerary is not Fuel_Plan_Fpln_Preds,the working flight plan is active,engines ar
           » e off,
7774  7783    --the flight phase is Preflight,the aircraft gross weightis is valid, but the Take Off gross weight invalid ,then
           » Aircraft GW
7775  7784    --from the Performance Weights function.
7776  7785    Crossover altitude shall be computed by calling Prf_External_Util_Pkg.Puxoveralt if VG speed targets are valid and
7777  7786    are greater than lower limits. Otherwise, the aircraft speeds from ADC are used and crossover altitude is defaulte
           » d to FL250.
7778  7787    PERF_SDD_07543_INT
7779  7788    --in this test case, only Guid_Spds_Dpkg.Vc3Curspds.Cas.Valid is false, the other are satisfied
7780  7789    REQUIREMENTS UNDER EVALUATION : PERF_SDD_07501_INT,PERF_SDD_07543_INT
7781  7790    SUPPORTING REQUIREMENTS : N/A
7782  7791
7783  7792
7784  7793 INPUT                                                                                               VALUE
7785  7794 ------------------------------------------------------------------------------------------ ------------------
           » --------
7786  7795 Perf_Dpkg.Min_Gwt
           »    100.0
7787  7796 Perf_Dpkg.Max_Gwt
           »    400.0
7788  7797 Perf_Background_Dpkg.Flight_Plan_Type                                          Perf_Int_Base_Tpkg.I
           » s_Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

7789	7798	Perf_Background_Dpkg.Pcitin.Itinerary	Prim_Fp
		» ln_Preds	
7790	7799	ATC_DISCRETES_PKG:body.Adson_Flag	
		» True	
7791	7800	Perf_Ads_Dpkg.Fi_Enabled	
		» True	
7792	7801	Guid_Ext_Dpkg.Gcxxlatautoc	
		» False	
7793	7802	Perf_Background_Dpkg.Ats_Enable	
		» True	
7794	7803	Perf_Background_Dpkg.Pcactorsec	
		» Active	
7795	7804	Perf_Dpkg.Pcfirstpred(Active)	
		» false	
7796	7805	Perf_Background_Dpkg.Psenginesoff	
		» True	
7797	7806	Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off	
		» true	
7798	7807	Perf_Background_Dpkg.Pcspeedmode	Perf_Ext_Tp
		» kg.Vmspd	
7799	7808	Guid_Ext_Dpkg.Va3vertmde	Perf_Ext_Tp
		» kg.Vmspd	
7800	7809	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase	P
		» reflight	
7801	7810	Perf_Background_Dpkg.Pcgwind	
		» valid	
7802	7811	Perf_Background_Dpkg.Pstogwtval	
		» false	
7803	7812	Perf_Background_Dpkg.Psairborne	
		» false	
7804	7813	Guid_Spds_Dpkg.Vc3curspds.Cas.Valid	
		» false	
7805	7814	Guid_Spds_Dpkg.Vc3curspds.Cas.Data	
		» 10.01	
7806	7815	Guid_Spds_Dpkg.Vc3curspds.Mach.Valid	
		» true	
7807	7816	Guid_Spds_Dpkg.Vc3curspds.Mach.Data	
		» 0.011	
7808	7817	Perf_Background_Dpkg.Pcvertmode	Perf_Int_Base_Tpkg
		» .Openclb	
7809	7818	Perf_Dpkg.Gross_Weight.Status	
		» valid	
7810	7819	Perf_Dpkg.Takeoff_Gwt.Valid	
		» false	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7811   7820 Perf_Dpkg.Takeoff_Gwt.Data
            »       90.0
7812   7821 Perf_Dpkg.Gross_Weight.Data
            »      150.0
7813   7822 Perf_Background_Dpkg.Psgw
            »        0.0
7814   7823
7815   7824
7816   7825 OUTPUT                                                    EXPECTED            TOLERANCE            ACTUAL
            »            P/F
7817   7826 ------------------------------------------------------  ----------------------------  -------------  -------------------
            » --------  ----
7818   7827 Curcas                                                        0.0             0.001                0.0
            » 0000E+00  P
7819   7828 Curmach                                                       0.0             0.001                0.0
            » 0000E+00  P
7820   7829 Xoveralt                                                   25000.0             0.001                2.5
            » 0000E+04  P
7821   7830 Perf_Background_Dpkg.Psgw                                    150.0             0.001                1.5
            » 0000E+02  P
7822   7831
7823   7832
7824   7833 ====> All 4 Comparisons Passed <====
7825   7834
7826   7835
7827   7836 TESTID: 62
7828   7837     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
7829   7838     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
7830   7839     QNH or QFE shall be set to True. Otherwise it is set to False
7831   7840     PERF_SDD_08588_INT
7832   7841
7833   7842     If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag and
7834   7843     the What-If predictions enabled flag shall be set to false.
7835   7844     PERF_SDD_08665(PERF_SRD_23775)
7836   7845
7837   7846     In this case:
7838   7847     the working flight plan is Active
7839   7848     the current barometric reference is not QNH and QFE
7840   7849     the current barometric reference data retrieved from IO is invalid
7841   7850     so
7842   7851     the Secondary flight plan Predictions flag should be set false
7843   7852     the What-If predictions enabled flag should be set to false
7844   7853     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
            » t to false
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7845  7854
7846  7855
7847  7856 INPUT                                                                                              VALUE
7848  7857 ------------------------------------------------------------------------------------  ------------------
           » --------
7849  7858 Perf_Background_Dpkg.Flight_Plan_Type                                                  Perf_Int_Base_Tpkg.I
           » s_Active
7850  7859 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
           »     false
7851  7860 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
           »     false
7852  7861 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
           »     false
7853  7862 Perf_Background_Dpkg.QNH_QFE_Selected
           »      True
7854  7863 Perf_Background_Dpkg.Pcactorsec
           »      Active
7855  7864 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)
           »      True
7856  7865 Perf_Background_Dpkg.Secn_Fpln_Itin
           »      True
7857  7866
7858  7867
7859  7868 OUTPUT                                                           EXPECTED           TOLERANCE           ACTUAL
           »          P/F
7860  7869 -----------------------------------------------  ------------------------------  ------------  ------------------
           » --------  ----
7861  7870 Perf_Background_Dpkg.QNH_QFE_Selected                            false              (N/A)
           »     FALSE  P
7862  7871 Perf_Background_Dpkg.Secn_Fpln_Itin                              false              (N/A)
           »     FALSE  P
7863  7872 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)  false  (N/A)
           »     FALSE  P
7864  7873
7865  7874
7866  7875 ====> All 3 Comparisons Passed <====
7867  7876
7868  7877
7869  7878 TESTID: 63
7870  7879     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
7871  7880     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
7872  7881     QNH or QFE shall be set to True. Otherwise it is set to False
7873  7882     PERF_SDD_08588_INT
7874  7883
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7875   7884        If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag
7876   7885        and the What-If predictions enabled flag shall be set to false.
7877   7886        PERF_SDD_08665(PERF_SRD_23775)
7878   7887
7879   7888        If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
                » d on the
7880   7889        current flight plan type.
7881   7890        For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
7882   7891        For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
7883   7892        For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
7884   7893        PERF_SDD_08667(PERF_SRD_23774)
7885   7894
7886   7895        In this case:
7887   7896        the working flight plan is Temporary
7888   7897        the current barometric reference is not QNH and QFE
7889   7898        the current barometric reference data retrieved from IO is valid
7890   7899        so
7891   7900        the Secondary flight plan Predictions flag should be set false
7892   7901        the What-If predictions enabled flag should be set to false
7893   7902        the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
                » t to false
7894   7903        the pseudo button push type is default.
7895   7904
7896   7905
7897   7906  INPUT                                                                                                           VALUE
7898   7907  --------------------------------------------------------------------------------------------------  ------------------
                » --------
7899   7908  Perf_Background_Dpkg.Flight_Plan_Type                                                          Perf_Int_Base_Tpkg.I
                » s_Active
7900   7909  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
                »      false
7901   7910  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
                »      True
7902   7911  Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
                »      false
7903   7912  Perf_Background_Dpkg.QNH_QFE_Selected
                »      True
7904   7913  Perf_Background_Dpkg.Pcactorsec                                                                                    T
                » emporary
7905   7914  Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)
                »      True
7906   7915  Perf_Background_Dpkg.Secn_Fpln_Itin
                »      True
7907   7916  Perf_Background_Dpkg.What_If_Data.Pseudo_Button
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                      »         0
 7908   7917
 7909   7918
 7910   7919 OUTPUT                                                           EXPECTED                       TOLERANCE              ACTUAL
                      »           P/F
 7911   7920 ------------------------------------------------------  ------------------------------  -------------  ------------------
                      » --------  ----
 7912   7921 Perf_Background_Dpkg.QNH_QFE_Selected                             false          (N/A)
                      »    FALSE  P
 7913   7922 Perf_Background_Dpkg.Secn_Fpln_Itin                               false          (N/A)
                      »    FALSE  P
 7914   7923 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)  false          (N/A)
                      »    FALSE  P
 7915   7924 Perf_Background_Dpkg.What_If_Data.Pseudo_Button                     0            (N/A)
                      »       0  P
 7916   7925
 7917   7926
 7918   7927 ====> All 4 Comparisons Passed <====
 7919   7928
 7920   7929
 7921   7930 TESTID: 64
 7922   7931     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
 7923   7932     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
 7924   7933     QNH or QFE shall be set to True. Otherwise it is set to False
 7925   7934     PERF_SDD_08588_INT
 7926   7935
 7927   7936     If the working flight plan is Active or Temporary, then the Secondary flight plan Predictions flag and
 7928   7937     the What-If predictions enabled flag shall be set to false.
 7929   7938     PERF_SDD_08665(PERF_SRD_23775)
 7930   7939
 7931   7940     If the current flight plan is a Copy Active Secondaryn FPLN, then the following shall be Done:
 7932   7941     - The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
             » ctions.
 7933   7942     - The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
             » ximum_Alt.
 7934   7943     - The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
             » Maximum_Alt
 7935   7944     PERF_SDD_08666(PERF_SRD_23775)
 7936   7945
 7937   7946     In this case:
 7938   7947     the current flight plan type is a Copy Active
 7939   7948     the working flight plan is Secondary
 7940   7949     the current itinerary is primary flight plan predictions
 7941   7950     the current barometric reference is QNH
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7942 | 7951|     the current barometric reference data retrieved from IO is invalid
7943 | 7952|     so
7944 | 7953|     the Secondary flight plan Predictions flag should be set True
7945 | 7954|     the What-If predictions enabled flag should be default
7946 | 7955|     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
         » t to false
7947 | 7956|     The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Maxi
         » mum_Alt.
7948 | 7957|     The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_Ma
         » ximum_Alt
7949 | 7958|
7950 | 7959|
7951 | 7960|INPUT                                                                                                          VALUE
7952 | 7961|-------------------------------------------------------------------------------------------------------  ------------------
         » --------
7953 | 7962|Perf_Background_Dpkg.Flight_Plan_Type                                                            Perf_Int_Base_Tpkg.Copy_Fro
         » m_Active
7954 | 7963|Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
         »     True
7955 | 7964|Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
         »     false
7956 | 7965|Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
         »     false
7957 | 7966|Perf_Background_Dpkg.QNH_QFE_Selected
         »     True
7958 | 7967|Perf_Background_Dpkg.Pcactorsec                                                                                      S
         » econdary
7959 | 7968|Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)
         »     True
7960 | 7969|Perf_Background_Dpkg.Secn_Fpln_Itin
         »     True
7961 | 7970|Perf_Background_Dpkg.Pcitin.Itinerary                                                                            Prim_Fp
         » ln_Preds
7962 | 7971|Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
         »     True
7963 | 7972|Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
         »     True
7964 | 7973|Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
         »     32.20
7965 | 7974|Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
         »     32.30
7966 | 7975|Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid
         »     false
7967 | 7976|Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                     »    false
 7968    7977 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data
                     »      0.00
 7969    7978 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data
                     »      0.00
 7970    7979
 7971    7980
 7972    7981 OUTPUT                                                            EXPECTED              TOLERANCE            ACTUAL
                     »          P/F
 7973    7982 -------------------------------------------------------  ----------------------------  ------------  ------------------
                     » --------  ----
 7974    7983 Perf_Background_Dpkg.QNH_QFE_Selected                             false          (N/A)
                     »    FALSE  P
 7975    7984 Perf_Background_Dpkg.Secn_Fpln_Itin                               True           (N/A)
                     »    TRUE   P
 7976    7985 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)  True    (N/A)
                     »    TRUE   P
 7977    7986 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid         True           (N/A)
                     »    TRUE   P
 7978    7987 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid        True           (N/A)
                     »    TRUE   P
 7979    7988 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data          32.20         0.001                    3.2
                     » 2000E+01  P
 7980    7989 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data         32.30         0.001                    3.2
                     » 3000E+01  P
 7981    7990
 7982    7991
 7983    7992 ====> All 7 Comparisons Passed <====
 7984    7993
 7985    7994
 7986    7995 TESTID: 65
 7987    7996     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
 7988    7997     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
 7989    7998     QNH or QFE shall be set to True. Otherwise it is set to False
 7990    7999     PERF_SDD_08588_INT
 7991    8000
 7992    8001     If the current flight plan is a Copy Active Secondaryn FPLN, then the following shall be Done:
 7993    8002     - The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
                     » ctions.
 7994    8003     - The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
                     » ximum_Alt.
 7995    8004     - The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
                     » Maximum_Alt
 7996    8005     PERF_SDD_08666(PERF_SRD_23775)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
7997  8006
7998  8007     If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
            » d on
7999  8008     the current flight plan type.
8000  8009     For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8001  8010     For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
8002  8011     For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8003  8012     PERF_SDD_08667(PERF_SRD_23774)
8004  8013
8005  8014     in this case:
8006  8015     the current flight plan type is a Copy Active
8007  8016     the working flight plan is Secondary
8008  8017     the current itinerary is CURRENT VERTICAL MODE PREDS DURING 1ST 2 PASSES OF PREDS
8009  8018     the current barometric reference is QNH
8010  8019     the current barometric reference data retrieved from IO is valid
8011  8020     so
8012  8021     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
            » t to True
8013  8022     the Secondary flight plan Predictions flag should be set false
8014  8023     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
            » t to false
8015  8024     The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Maxi
            » mum_Alt
8016  8025     The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_Ma
            » ximum_Alt
8017  8026     the pseudo button push type is Pb_Sec_What_If_Cancelled
8018  8027
8019  8028
8020  8029 INPUT                                                                                                       VALUE
8021  8030 -------------------------------------------------------------------------------------------  ------------------
            » --------
8022  8031 Perf_Background_Dpkg.Flight_Plan_Type                                               Perf_Int_Base_Tpkg.Copy_Fro
            » m_Active
8023  8032 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
            »       True
8024  8033 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
            »       True
8025  8034 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
            »       false
8026  8035 Perf_Background_Dpkg.QNH_QFE_Selected
            »       false
8027  8036 Perf_Background_Dpkg.Pcactorsec                                                                              S
            » econdary
8028  8037 Perf_Background_Dpkg.What_If_Preds_Enabled(Perf_Background_Dpkg.Pcactorsec)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                »       True
 8029    8038 Perf_Background_Dpkg.Secn_Fpln_Itin
                »       True
 8030    8039 Perf_Background_Dpkg.Pcitin.Itinerary                                                            Current_Mo
                » de_Preds
 8031    8040 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
                »       True
 8032    8041 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
                »       True
 8033    8042 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
                »       32.20
 8034    8043 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
                »       32.30
 8035    8044 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid
                »       false
 8036    8045 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid
                »       false
 8037    8046 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data
                »       0.00
 8038    8047 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data
                »       0.00
 8039    8048 Perf_Background_Dpkg.What_If_Data.Pseudo_Button
                »        0
 8040    8049
 8041    8050
 8042    8051 OUTPUT                                                     EXPECTED            TOLERANCE            ACTUAL
                »           P/F
 8043    8052 ------------------------------------------------------  ----------------------------  ------------  ------------------
                » --------  ----
 8044    8053 Perf_Background_Dpkg.QNH_QFE_Selected                      True              (N/A)
                »       TRUE   P
 8045    8054 Perf_Background_Dpkg.Secn_Fpln_Itin                        false             (N/A)
                »       FALSE  P
 8046    8055 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid True              (N/A)
                »       TRUE   P
 8047    8056 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid True             (N/A)
                »       TRUE   P
 8048    8057 Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data  32.20             0.001                   3.2
                » 2000E+01  P
 8049    8058 Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data 32.30             0.001                   3.2
                » 3000E+01  P
 8050    8059 Perf_Background_Dpkg.What_If_Data.Pseudo_Button            52                (N/A)
                »       52   P
 8051    8060
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8052  8061
8053  8062 ====> All 7 Comparisons Passed <====
8054  8063
8055  8064
8056  8065 TESTID: 66
8057  8066     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
8058  8067     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
8059  8068     QNH or QFE shall be set to True. Otherwise it is set to False
8060  8069     PERF_SDD_08588_INT
8061  8070
8062  8071     If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
              » d
8063  8072     on the current flight plan type.
8064  8073     For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
8065  8074     For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
8066  8075     For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
8067  8076     PERF_SDD_08667(PERF_SRD_23774)
8068  8077
8069  8078     in this case:
8070  8079     the working flight plan is Secondary2
8071  8080     the current barometric reference is QFE
8072  8081     the current barometric reference data retrieved from IO is invalid
8073  8082     so
8074  8083     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
              » t to false
8075  8084     the pseudo button push type is Pb_Sec2_What_If_Cancelled
8076  8085
8077  8086
8078  8087 INPUT                                                                                                        VALUE
8079  8088 ----------------------------------------------------------------------------------------------------  -----------------
              » --------
8080  8089 Perf_Background_Dpkg.Flight_Plan_Type                                                         Perf_Int_Base_Tpkg.I
              » s_Active
8081  8090 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
              »     false
8082  8091 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
              »     false
8083  8092 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
              »     True
8084  8093 Perf_Background_Dpkg.QNH_QFE_Selected
              »     True
8085  8094 Perf_Background_Dpkg.Pcactorsec                                                                                Se
              » condary2
8086  8095 Perf_Background_Dpkg.What_If_Data.Pseudo_Button
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 »         0
  8087    8096
  8088    8097
  8089    8098 OUTPUT                                                         EXPECTED                TOLERANCE            ACTUAL
                 »          P/F
  8090    8099 -------------------------------------------------- ------------------------------ ------------- ------------------
                 » --------  ----
  8091    8100 Perf_Background_Dpkg.QNH_QFE_Selected                                      false            (N/A)
                 »   FALSE  P
  8092    8101 Perf_Background_Dpkg.What_If_Data.Pseudo_Button                            54               (N/A)
                 »      54  P
  8093    8102
  8094    8103
  8095    8104 ====> All 2 Comparisons Passed <====
  8096    8105
  8097    8106
  8098    8107 TESTID: 67
  8099    8108     If the current barometric reference is QNH or QFE and the current barometric reference data retrieved from IO
  8100    8109     is valid then the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either
  8101    8110     QNH or QFE shall be set to True. Otherwise it is set to False
  8102    8111     PERF_SDD_08588_INT
  8103    8112
  8104    8113     If the working flight plan is a Secondaryn Flight plan, then the What-If Pseudo button push type shall be set base
                 » d
  8105    8114     on the current flight plan type.
  8106    8115     For Secondary flight plan, the pseudo button push type is Pb_Sec_What_If_Cancelled.
  8107    8116     For Secondary2 flight plan, the pseudo button push type is Pb_Sec2_What_If_Cancelled.
  8108    8117     For Secondary3 flight plan, the pseudo button push type is Pb_Sec3_What_If_Cancelled.
  8109    8118     PERF_SDD_08667(PERF_SRD_23774)
  8110    8119
  8111    8120     in this case:
  8112    8121     the working flight plan is Secondary3
  8113    8122     the current barometric reference is QFE
  8114    8123     the current barometric reference data retrieved from IO is valid
  8115    8124     so
  8116    8125     the variable (QNH_QFE_Selected) to indicate that the current barometric reference is either QNH or QFE shall be se
                 » t to True
  8117    8126     the pseudo button push type is Pb_Sec3_What_If_Cancelled
  8118    8127
  8119    8128
  8120    8129 INPUT                                                                                                          VALUE
  8121    8130 ----------------------------------------------------------------------------------------------- ------------------
                 » --------
  8122    8131 Perf_Background_Dpkg.Flight_Plan_Type                                                      Perf_Int_Base_Tpkg.I
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    » s_Active
 8123    8132 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QNH_SETTING_CAPT_SEL
                    »     false
 8124    8133 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.FCU_Data
                    »        True
 8125    8134 Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.FCU_Data.QFE_SETTING_CAPT_SEL
                    »        True
 8126    8135 Perf_Background_Dpkg.QNH_QFE_Selected
                    »     false
 8127    8136 Perf_Background_Dpkg.Pcactorsec                                                                  Se
                    » condary3
 8128    8137 Perf_Background_Dpkg.What_If_Data.Pseudo_Button
                    »        0
 8129    8138
 8130    8139
 8131    8140 OUTPUT                                                  EXPECTED              TOLERANCE              ACTUAL
                    »         P/F
 8132    8141 ------------------------------------------------------  ------------------------------  -------------  ------------------
                    » --------  ----
 8133    8142 Perf_Background_Dpkg.QNH_QFE_Selected                                          True          (N/A)
                    »     TRUE   P
 8134    8143 Perf_Background_Dpkg.What_If_Data.Pseudo_Button                                55            (N/A)
                    »     55   P
 8135    8144
 8136    8145
 8137    8146 ====> All 2 Comparisons Passed <====
 8138    8147
 8139    8148
 8140    8149 TESTID: 68
 8141    8150
 8142    8151     For an independent from-to pair Secondaryn flight plan, the starting predictions data shall be set up
 8143    8152     as if the aircraft were sitting on the ground in pre-flight at the origin airport of the Secondaryn flight plan,
 8144    8153     rather than from the current aircraft state.  Thus, following data are set:
 8145    8154     - The airborne flag (Psairborne) is set false.
 8146    8155     - Auto lateral mode (Psautolat) is set to true.
 8147    8156     - Engine out flag (Psengout) is set to false.
 8148    8157     - The current flightphase (Pcfltphase) is set to pre-flight.
 8149    8158     - Speed mode (Pcspeedmode) is set to Vmecon.
 8150    8159     - Despath reference (Pcpathref) is set to Nopath.
 8151    8160     - Current GMT time (Pcgmttime) (Hours, Minutes & Seconds) is set to zero.
 8152    8161     - Inertial vertical speed (Psinertvs) is set to zero.
 8153    8162     - Current aircraft speeds (Pscurtas, Pscurmach & Pscurcas) are set to zero.
 8154    8163     - Validity of Aircraft True air speed (Pscurtasvalid) set to False
 8155    8164     - Aircraft configuration (Pcacconfig) is set to clean.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8156 | 8165 |        - Airbrakes (Pcairbrakes) are set to zero airbrakes.
8157 | 8166 |        - Constraint management (Pccuraltcstr) validity is set to false.
8158 | 8167 |        - Previous captured barometric altitude (Pcprebcalt) validity is set to false.
8159 | 8168 |        - All the flags in the perf hold flag record (Pcholdflags) are set to false.
8160 | 8169 |        - All the flags in the descent limit latch record (Pcdeslimlat) are set to false.
8161 | 8170 |        - Flag indicating VG has latched VAPP as target (Psappspdlat) is set to false.
8162 | 8171 |        - Flag indicating aircraft is within 3 NM prior to the entry of the HM(Psconsider_Hm) is       set to false.
8163 | 8172 |        - Flag indicating aircraft is in HA/HF decel zone (Pshxpxdecel) is set to false.
8164 | 8173 |        - Flag indicating aircraft is in HM decel zone (Pshmdecel) is set to false.
8165 | 8174 |        - Flag indicating to Ignore HM (Psignorehm) is set to true.
8166 | 8175 |        - Background step climb & step descent active flags (Psstpclbact & Psstpdesact) are set       to false.
8167 | 8176 |        - Engines off status (Psenginesoff) is set to true (off).
8168 | 8177 |        - Aircraft engine or wing anti ice (Ac_Anti_Ice) is set to false (Off).
8169 | 8178 |        - Aircraft bleeds status (Ac_Bleeds); Engine Cowl Anti-Ice bleed, Wing Anti-Ice Bleed and
8170 | 8179 |          Air Conditioning Bleed are set to false (off).
8171 | 8180 |        - Cruise altitude (Pscrzalt) data is set by calling procedure
8172 | 8181 |          Fpln_Ext_Dpkg.Get_Cruise_Alt.
8173 | 8182 |        - Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
8174 | 8183 |          Data and Valid values respectively.
8175 | 8184 |        - Valid cruise altitude flag (Valcrzalt) is set from the retrieved cruise altitude data.
8176 | 8185 |        - ADC/FG input data (Adc_Fg_Valid) validity is set to true.
8177 | 8186 |        - Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to true.
8178 | 8187 |        - The Secondary flight plan predictions flag is set to True, if the current itinerary is primary flight plan predi
     |      |  » ctions.
8179 | 8188 |        - The What-If Engine Out LRC Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_LRC_Ma
     |      |  » ximum_Alt.
8180 | 8189 |        - The What-If Engine Out Gdot Maximum Altitude is retrieved by calling the procedure Perf_To_Cdck_Dpkg.WI_EO_GDOT_
     |      |  » Maximum_Alt.
8181 | 8190 |
8182 | 8191 |     These initializations make predictions independent of the Active Primary flightplan and current aircraft character
     |      |  » istics
8183 | 8192 |     PERF_SDD_4796(PERF_SRD_1592, PERF_SRD_23775, PERF_SRD_6005_INT)
8184 | 8193 |
8185 | 8194 |      the working flight plan is not Is_Active and Copy_From_Active,
8186 | 8195 |        a variety of following global data shall be not retrieved which are common to the Active flight plan prediction
     |      |  » s process.
8187 | 8196 |        - A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from
8188 | 8197 |          guidance
8189 | 8198 |        - Guidance provided TDP capture tolerance
8190 | 8199 |      - when the Engine out status and the VG indicator that Green-Dot Speed is latched,
8191 | 8200 |        The flag indicating that VG is using latched Green-Dot descent speed is set.
8192 | 8201 |
8193 | 8202 |      PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
8194 | 8203 |               PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8195   8204                     PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
8196   8205
8197   8206      in this case,
8198   8207      flight plan is Secondary
8199   8208      the current itinerary is not primary flight plan predictions
8200   8209
8201   8210
8202   8211  INPUT                                                                                               VALUE
8203   8212  ------------------------------------------------------------------------------------------------  ------------------
            » --------
8204   8213  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Ky_Data_Exec
            »    False
8205   8214  CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec
            »    False
8206   8215  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Pb_Data_Exec
            »    False
8207   8216  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Gb_Data_Exec
            »    False
8208   8217  CTP_A350_PERF_BKGND_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec
            »    False
8209   8218  Perf_Dpkg.Min_Gwt
            »    100.0
8210   8219  Perf_Dpkg.Max_Gwt
            »    400.0
8211   8220  Prf_Bkgnd_Pkg:BODY.Valcrzalt
            »    False
8212   8221  Perf_Background_Dpkg.Pcactorsec                                                                      S
            » econdary
8213   8222  Perf_Background_Dpkg.Flight_Plan_Type
            » No_Preds
8214   8223  Perf_Background_Dpkg.Pcitin.Flight_Plan                                                              S
            » econdary
8215   8224  Perf_Background_Dpkg.Psignorehm
            »    False
8216   8225  Perf_Background_Dpkg.Pcfltphase
            »    Cruise
8217   8226  Perf_Background_Dpkg.Ats_Enable
            »    True
8218   8227  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »    Cruise
8219   8228  Perf_Background_Dpkg.Psacalt
            »    10000.0
8220   8229  Perf_Database_Dpkg.Psmmo
            »    0.45
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8221   8230  Perf_Background_Dpkg.Pszfw
             »      300.0
8222   8231  Perf_Background_Dpkg.Psblockfuel
             »      50.0
8223   8232  Perf_Background_Dpkg.Pstaxifuel
             »      25.0
8224   8233  Perf_Background_Dpkg.Psairborne
             »      True
8225   8234  Perf_Background_Dpkg.Psautolat
             »      False
8226   8235  Guid_Ext_Dpkg.Gcxxlatautoc
             »      False
8227   8236  Perf_background_dpkg.Constant_mach_seg.IS_ACTIVE
             »      False
8228   8237  Perf_Background_Dpkg.Psengout
             »      True
8229   8238  Cdk_Vert_Dpkg:Body.Engine_Out_I
             »      False
8230   8239  Perf_Background_Dpkg.Pcholdflags.Hmdecel
             »      True
8231   8240  Perf_Dpkg.Repredict_Hm_Decel
             »      True
8232   8241  Perf_Background_DPkg.Pshmdecel
             »      True
8233   8242  Perf_Background_Dpkg.Pcholdflags.Hmactive
             »      True
8234   8243  Perf_Ads_Dpkg.Fi_Enabled
             »      False
8235   8244  Guid_Checkpoint_Resynch_Dpkg.Va3Holdflags.Hmactive
             »      False
8236   8245  Perf_Background_Dpkg.Pcholdflags.Manhmwarn
             »      True
8237   8246  Perf_Background_Dpkg.Pcholdflags.Hxpxdecel
             »      True
8238   8247  Perf_Background_Dpkg.Pcholdflags.Hxpxactiv
             »      True
8239   8248  Perf_Background_Dpkg.Pcholdflags.Hmdistval
             »      True
8240   8249  Perf_Integration_Dpkg.Pcdeslimlat.Spdlim
             »      True
8241   8250  Perf_Integration_Dpkg.Pcdeslimlat.Icaolim
             »      True
8242   8251  Perf_Integration_Dpkg.Pcdeslimlat.Desdecel
             »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8243    8252 Perf_Background_Dpkg.Psappspdlat
             »        True
8244    8253 Perf_Dpkg.Pcengoutprds
             »        Altpln
8245    8254 Perf_Background_Dpkg.Pcpathref
             »        Onpath
8246    8255 Guid_Ext_Dpkg.Va3Vertmde                                                              Perf_Ext_Tpk
             » g.Vmnone
8247    8256 Perf_Background_DPkg.Pscurcas
             »        5.0
8248    8257 Perf_Background_DPkg.Pscurmach
             »        5.0
8249    8258 Perf_Background_DPkg.Pscurtas
             »        5.0
8250    8259 Perf_Background_Dpkg.Psenginesoff
             »        False
8251    8260 Perf_Despath_Dpkg.Pcdespath.Vgavalid
             »        False
8252    8261 Perf_Background_Dpkg.Pstogwtval
             »        False
8253    8262 Perf_Background_Dpkg.Pstogwt
             »        50.0
8254    8263 Perf_Background_Dpkg.Pcgwind
             »        Invalid
8255    8264 Perf_Background_Dpkg.Psgw
             »        0.0
8256    8265 Perf_Dpkg.Gross_Weight.Status
             »        Valid
8257    8266 Perf_Dpkg.Gross_Weight.Data
             »        150.0
8258    8267 Perf_Integration_DPkg.Pcairbrakes
             »        Fullab
8259    8268 Perf_Background_Dpkg.Pcacconfig
             »        5
8260    8269 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Included
             »        True
8261    8270 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Alt
             »    9000.0
8262    8271 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             »    200.0
8263    8272 Perf_Background_Dpkg.Pcperflegs(Clb_Spdlim).Spd
             »    400.0
8264    8273 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »        False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8265 | 8274 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
     |      | »        265.0
8266 | 8275 | Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
     |      | »        0.55
8267 | 8276 | Perf_Background_Dpkg.Psstpclbact
     |      | »        True
8268 | 8277 | Perf_Background_Dpkg.Psstpdesact
     |      | »        True
8269 | 8278 | Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     |      | »        0.0
8270 | 8279 | Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
     |      | »        0.0
8271 | 8280 | Guid_Spds_Dpkg.Vc3Curspds.Mach.Data
     |      | »        0.65
8272 | 8281 | Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |      | »        345.0
8273 | 8282 | Perf_Background_Dpkg.Pccuraltcstr.Valid
     |      | »        True
8274 | 8283 | Perf_Background_Dpkg.Pcprebcalt.Valid
     |      | »        True
8275 | 8284 | Perf_Background_Dpkg.Pcgmttime.Hour
     |      | »        1
8276 | 8285 | Perf_Background_Dpkg.Pcgmttime.Minute
     |      | »        1
8277 | 8286 | Perf_Background_Dpkg.Pcgmttime.Second
     |      | »        1
8278 | 8287 | Perf_Background_Dpkg.Psinertvs
     |      | »        5.0
8279 | 8288 | Perf_ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Requested_Waypoints
     |      | »        0
8280 | 8289 | Perf_Ads_Dpkg.Pr_Buffer.Io_Data.Num_Of_Predicted_Waypoints
     |      | »        2
8281 | 8290 | Perf_ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Requested_Points
     |      | »        0
8282 | 8291 | Perf_Ads_Dpkg.Ii_Buffer.Io_Data.Num_Of_Predicted_Points
     |      | »        2
8283 | 8292 | Perf_Ads_Dpkg.Pr_Enabled
     |      | »        False
8284 | 8293 | ATC_DISCRETES_PKG:body.Adson_Flag
     |      | »        False
8285 | 8294 | Perf_Integration_Dpkg.Psoldnoentgt
     |      | »        0.0
8286 | 8295 | Perf_Background_Dpkg.Pcoldcasmchi                                          Fmcs_Base_Ty
     |      | » pes.Mach
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 8287 │ 8296 │Perf_Background_Dpkg.Pcspeedmode                                                                    Perf_Ext_Tp
      │      │» kg.Vmspd
 8288 │ 8297 │Perf_Background_Dpkg.Adc_Fg_Valid
      │      │»       False
 8289 │ 8298 │Prf_Bkgnd_Pkg:body.Fgspdsvalid
      │      │»       False
 8290 │ 8299 │Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt_Status       Takeoff_Alt_Type
      │      │» s.Active
 8291 │ 8300 │Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_Speed_Val
      │      │»       False
 8292 │ 8301 │Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Secondary).Noise_End_Alt
      │      │»       300.0
 8293 │ 8302 │Perf_Background_Dpkg.Noise_Data.Altitude.Data
      │      │»          0.0
 8294 │ 8303 │Perf_Background_Dpkg.Noise_Data.Altitude.Valid
      │      │»       False
 8295 │ 8304 │Perf_Background_Dpkg.Noise_Data.Speed.Valid
      │      │»       True
 8296 │ 8305 │Perf_Background_Dpkg.Pcitin.Itinerary                                                               Prim_Fp
      │      │» ln_Preds
 8297 │ 8306 │Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
      │      │»       False
 8298 │ 8307 │Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
      │      │»       False
 8299 │ 8308 │Perf_Background_Dpkg.Ac_Crosstrack_Error
      │      │»          2.5
 8300 │ 8309 │Perf_Background_Dpkg.Pscurtasvalid
      │      │»       True
 8301 │ 8310 │Perf_Background_Dpkg.Psconsider_Hm
      │      │»       True
 8302 │ 8311 │Perf_Background_Dpkg.Pshxpxdecel
      │      │»       True
 8303 │ 8312 │Perf_Background_Dpkg.Ac_Anti_Ice
      │      │»       True
 8304 │ 8313 │Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai
      │      │»       True
 8305 │ 8314 │Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai
      │      │»       True
 8306 │ 8315 │Perf_Background_Dpkg.Ac_Bleeds.Air_Cond
      │      │»       True
 8307 │ 8316 │Perf_Background_Dpkg.Pcholdflags.Consider_Hm
      │      │»       True
 8308 │ 8317 │
 8309 │ 8318 │
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8310   8319   define Get_Cruise_Alt_Called := False
8311   8320
8312   8321
8313   8322  INPUT                                                                                        VALUE
8314   8323  ------------------------------------------------------------------------------------------  ------------------
              » --------
8315   8324  Perf_Dpkg.takeoff_gwt.valid
              »      True
8316   8325  Perf_Dpkg.takeoff_gwt.data
              »      400.0
8317   8326  Perf_Background_Dpkg.Psgetout
              »      True
8318   8327  Perf_Background_Dpkg.Ref_Flight_Plan
              »         1
8319   8328  Perf_Ext_Despath:Body.data_storage(Active).Pgvdespath.Vgavalid
              »      True
8320   8329  Perf_Despath_Dpkg.Pcdespath.Vgavalid
              »      true
8321   8330  Perf_Background_Dpkg.Pcitin.Itinerary                                                        Current_Mo
              » de_Preds
8322   8331  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
              »      True
8323   8332  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
              »      True
8324   8333  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
              »      32.20
8325   8334  Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
              »      32.30
8326   8335  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid
              »      false
8327   8336  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid
              »      false
8328   8337  Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data
              »      0.00
8329   8338  Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data
              »      0.00
8330   8339  Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd
              »      True
8331   8340  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment
              »      False
8332   8341  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol
              »      100.00
8333   8342  Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance
              »      188.00
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8334 | 8343 | Perf_Background_Dpkg.Psgrndotdes
              »      true
8335 | 8344 | Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
              »      true
8336 | 8345 | Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid
              »     False
8337 | 8346 | Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
              »      0.0
8338 | 8347 |
8339 | 8348 |
8340 | 8349 |  define Get_Cruise_Alt_Called   := True
8341 | 8350 |  define Get_Cruise_Alt_Called   := True
8342 | 8351 |
8343 | 8352 |
8344 | 8353 | OUTPUT                                                    EXPECTED                 TOLERANCE           ACTUAL
              »          P/F
8345 | 8354 | ----------------------------------------------------  ----------------------------  ------------  ------------------
              » --------  ----
8346 | 8355 | Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment          False              (N/A)
              »     FALSE  P
8347 | 8356 | Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol                  100.00             0.001              1.0
              » 0000E+02  P
8348 | 8357 | Perf_Background_Dpkg.Psgrndotdes                                          true               (N/A)
              »     TRUE  P
8349 | 8358 | Perf_Integration_Dpkg.Psoldnoentgt                                        0.0                0.001              0.0
              » 0000E+00  P
8350 | 8359 | Perf_Background_Dpkg.Pcoldcasmchi                            Fmcs_Base_Types.Mach           (N/A)
              »     MACH  P
8351 | 8360 | Perf_Despath_Dpkg.Pcdespath.Vgavalid                                   /= False              (N/A)
              »     TRUE  P
8352 | 8361 | Perf_Background_Dpkg.Psairborne                                           False              (N/A)
              »     FALSE  P
8353 | 8362 | Perf_Background_Dpkg.Psautolat                                            True               (N/A)
              »     TRUE  P
8354 | 8363 | Perf_Background_Dpkg.Psengout                                             False              (N/A)
              »     FALSE  P
8355 | 8364 | Perf_Background_Dpkg.Psgetout                                            TRUE                (N/A)
              »     TRUE  P
8356 | 8365 | Perf_Background_Dpkg.Pcfltphase                                       Preflight             (N/A)                P
              » REFLIGHT  P
8357 | 8366 | Perf_Background_Dpkg.Pcspeedmode                           Perf_Ext_Tpkg.Vmecon           (N/A)
              »    VMECON  P
8358 | 8367 | Perf_Background_Dpkg.Psinertvs                                            0.0                0.001              0.0
              » 0000E+00  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

8359	8368	Perf_Background_Dpkg.Pcpathref		Nopath	(N/A)
		» NOPATH P			
8360	8369	Perf_Background_Dpkg.Pscurtasvalid		False	(N/A)
		» FALSE P			
8361	8370	Perf_Background_Dpkg.Pcacconfig		Clean	(N/A)
		» 0 P			
8362	8371	Perf_Integration_Dpkg.Pcairbrakes		Zeroab	(N/A)
		» ZEROAB P			
8363	8372	Perf_Background_Dpkg.Pccuraltcstr.Valid		False	(N/A)
		» FALSE P			
8364	8373	Perf_Background_Dpkg.Pcprebcalt.Valid		False	(N/A)
		» FALSE P			
8365	8374	Perf_Background_Dpkg.Psappspdlat		False	(N/A)
		» FALSE P			
8366	8375	Perf_Background_DPkg.Pshmdecel		False	(N/A)
		» FALSE P			
8367	8376	Perf_Background_Dpkg.Psconsider_Hm		False	(N/A)
		» FALSE P			
8368	8377	Perf_Background_Dpkg.Pshxpxdecel		False	(N/A)
		» FALSE P			
8369	8378	Perf_Background_Dpkg.Psignorehm		True	(N/A)
		» TRUE P			
8370	8379	Perf_Background_Dpkg.Psstpclbact		False	(N/A)
		» FALSE P			
8371	8380	Perf_Background_Dpkg.Psstpdesact		False	(N/A)
		» FALSE P			
8372	8381	Perf_Background_Dpkg.Psenginesoff		True	(N/A)
		» TRUE P			
8373	8382	Perf_Background_Dpkg.Ac_Anti_Ice		False	(N/A)
		» FALSE P			
8374	8383	Perf_Background_Dpkg.Ac_Bleeds.Engine_Ai		False	(N/A)
		» FALSE P			
8375	8384	Perf_Background_Dpkg.Ac_Bleeds.Wing_Ai		False	(N/A)
		» FALSE P			
8376	8385	Perf_Background_Dpkg.Ac_Bleeds.Air_Cond		False	(N/A)
		» FALSE P			
8377	8386	Prf_Bkgnd_Pkg:BODY.Valcrzalt	Perf_Background_Dpkg.Pscrzalt.Valid		(N/A)
		» TRUE P			
8378	8387	Perf_Background_Dpkg.Adc_Fg_Valid		True	(N/A)
		» TRUE P			
8379	8388	Prf_Bkgnd_Pkg:body.Fgspdsvalid		True	(N/A)
		» TRUE P			
8380	8389	Perf_Background_Dpkg.Pcholdflags.Hmdecel		False	(N/A)
		» FALSE P			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

8381	8390	Perf_Background_Dpkg.Pcholdflags.Hmactive	False	(N/A)	
		» FALSE P			
8382	8391	Perf_Background_Dpkg.Pcholdflags.Manhmwarn	False	(N/A)	
		» FALSE P			
8383	8392	Perf_Background_Dpkg.Pcholdflags.Hxpxdecel	False	(N/A)	
		» FALSE P			
8384	8393	Perf_Background_Dpkg.Pcholdflags.Hxpxactiv	False	(N/A)	
		» FALSE P			
8385	8394	Perf_Background_Dpkg.Pcholdflags.Hmdistval	False	(N/A)	
		» FALSE P			
8386	8395	Perf_Background_Dpkg.Pcholdflags.Consider_Hm	False	(N/A)	
		» FALSE P			
8387	8396	Perf_Integration_Dpkg.Pcdeslimlat.Spdlim	False	(N/A)	
		» FALSE P			
8388	8397	Perf_Integration_Dpkg.Pcdeslimlat.Icaolim	False	(N/A)	
		» FALSE P			
8389	8398	Perf_Integration_Dpkg.Pcdeslimlat.Desdecel	False	(N/A)	
		» FALSE P			
8390	8399	Perf_Background_Dpkg.Pcgmttime.Hour	0	(N/A)	
		» 0 P			
8391	8400	Perf_Background_Dpkg.Pcgmttime.Minute	0	(N/A)	
		» 0 P			
8392	8401	Perf_Background_Dpkg.Pcgmttime.Second	0	(N/A)	
		» 0 P			
8393	8402	Perf_Background_DPkg.Pscurcas	0.0	0.001	0.0
		» 0000E+00 P			
8394	8403	Perf_Background_DPkg.Pscurmach	0.0	0.001	0.0
		» 0000E+00 P			
8395	8404	Perf_Background_DPkg.Pscurtas	0.0	0.001	0.0
		» 0000E+00 P			
8396	8405	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	0.0	0.001	0.0
		» 0000E+00 P			
8397	8406	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.0	0.001	0.0
		» 0000E+00 P			
8398	8407	CTP_A350_PERF_BKGND_Get_Bk_Data.Envelope_Exec	False	(N/A)	
		» FALSE P			
8399	8408	Perf_Background_Dpkg.Ac_Crosstrack_Error	0.0	0.001	0.0
		» 0000E+00 P			
8400	8409	Get_Cruise_Alt_Called	True	(N/A)	
		» TRUE P			
8401	8410	Perf_Background_Dpkg.Noise_Data.Altitude.Valid	True	(N/A)	
		» TRUE P			
8402	8411	Perf_Background_Dpkg.Noise_Data.Altitude.Data	300.0	0.001	3.0
		» 0000E+02 P			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

8403	8412	Perf_Background_Dpkg.Noise_Data.Speed.Valid	False	(N/A)	
		» FALSE P			
8404	8413	Perf_Background_Dpkg.Secn_Fpln_Itin	false	(N/A)	
		» FALSE P			
8405	8414	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.valid	True	(N/A)	
		» TRUE P			
8406	8415	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.valid	True	(N/A)	
		» TRUE P			
8407	8416	Perf_Background_Dpkg.What_If_Data.Eo_LRC_Maximum_Alt.Data	32.20	0.001	3.2
		» 2000E+01 P			
8408	8417	Perf_Background_Dpkg.What_If_Data.Eo_Gdot_Maximum_Alt.Data	32.30	0.001	3.2
		» 3000E+01 P			
8409	8418	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.valid	True	(N/A)	
		» TRUE P			
8410	8419	Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data	5.0	0.001	5.0
		» 0000E+00 P			
8411	8420				
8412	8421				
8413	8422	====> All 65 Comparisons Passed <====			
8414	8423				
8415	8424				
8416	8425	TESTID: 69			
8417	8426				
8418	8427	*When any of the following conditions are satisfied			
8419	8428	(1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the			
8420	8429	Noise_Thrust_Target from VGUIDE is valid.			
8421	8430	(2) If all the following conditions are satisfied			
8422	8431	-Navigation(Nav Filtered) A/C Altitude is Valid			
8423	8432	-Noise End altitude is valid			
8424	8433	-Noise_Thrust_Target from VGUIDE is valid			
8425	8434	-if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and			
8426	8435	current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft			
8427	8436	altitude tolerance).			
8428	8437	Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be			
8429	8438	initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,			
8430	8439	and Perf_Background_Dpkg.Noise_Data.Ramping to true,			
8431	8440	Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.			
8432	8441	PERF_SDD_4600(PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,			
8433	8442	PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT)			
8434	8443				
8435	8444	in this case,			
8436	8445	the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true			
8437	8446	Navigation(Nav Filtered) A/C Altitude is Valid			
8438	8447	Noise End altitude is invalid			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8439   8448   the Noise_Thrust_Target from VGUIDE is valid.
8440   8449   the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
8441   8450   current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
8442   8451   so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8443   8452
8444   8453
8445   8454   INPUT                                                                                              VALUE
8446   8455   ------------------------------------------------------------------------------------------------  ------------------
               » --------
8447   8456   Perf_Background_Dpkg.Pcactorsec
               »    Active
8448   8457   CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
               »    Climb
8449   8458   Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
               »    False
8450   8459   Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
               »    21.0
8451   8460   Perf_Background_Dpkg.Psorgalt
               »  36090.0
8452   8461   Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                                    (10.
               » 6, True)
8453   8462   Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
               »    False
8454   8463   Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid
               »    True
8455   8464   Navigation_Data.Aircraft_Altitude_Valid
               »    True
8456   8465   Navigation_Data.Aircraft_Altitude
               »    53.20
8457   8466   Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status           Takeoff_Alt_Types.
               » Inactive
8458   8467   Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
               »    False
8459   8468   Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
               »    90.0
8460   8469   Perf_Background_Dpkg.Psengout
               »    True
8461   8470   Perf_Background_Dpkg.Flex_Isadev.Data
               »    5.0
8462   8471   Perf_Background_Dpkg.Noise_Data.Ramping
               »    True
8463   8472
8464   8473
8465   8474   OUTPUT                                                         EXPECTED          TOLERANCE          ACTUAL
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                 »            P/F
 8466   8475 ---------------------------------------------------  ------------------------------  -------------  ------------------
                 » --------  ----
 8467   8476 Perf_Background_Dpkg.Noise_Data.Ramping                                        False          (N/A)
                 »   FALSE  P
 8468   8477
 8469   8478
 8470   8479 ====> All 1 Comparisons Passed <====
 8471   8480
 8472   8481
 8473   8482 TESTID: 70
 8474   8483
 8475   8484 *When any of the following conditions are satisfied
 8476   8485 (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
 8477   8486     Noise_Thrust_Target from VGUIDE is valid.
 8478   8487 (2) If all the following conditions are satisfied
 8479   8488    -Navigation(Nav Filtered) A/C Altitude is Valid
 8480   8489    -Noise End altitude is valid
 8481   8490    -Noise_Thrust_Target from VGUIDE is valid
 8482   8491    -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
 8483   8492     current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
 8484   8493     altitude tolerance).
 8485   8494    Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
 8486   8495    initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
 8487   8496    and Perf_Background_Dpkg.Noise_Data.Ramping to true,
 8488   8497    Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
 8489   8498    PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
 8490   8499              PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
 8491   8500
 8492   8501    in this case,
 8493   8502    the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
 8494   8503    Navigation(Nav Filtered) A/C Altitude is invalid
 8495   8504    Noise End altitude is valid
 8496   8505    the Noise_Thrust_Target from VGUIDE is valid.
 8497   8506    the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
 8498   8507    current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
 8499   8508    so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
 8500   8509
 8501   8510
 8502   8511 INPUT                                                                                              VALUE
 8503   8512 ---------------------------------------------------------------------------------------------  ------------------
                 » --------
 8504   8513 Perf_Background_Dpkg.Pcactorsec
                 »   Active
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8505   8514 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »    Climb
8506   8515 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
            »    False
8507   8516 Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
            »    21.0
8508   8517 Perf_Background_Dpkg.Psorgalt
            »    36090.0
8509   8518 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                        (10.
            » 6, True)
8510   8519 Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
            »    False
8511   8520 Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid
            »    True
8512   8521 Navigation_Data.Aircraft_Altitude_Valid
            »    False
8513   8522 Navigation_Data.Aircraft_Altitude
            »    53.20
8514   8523 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status       Takeoff_Alt_Type
            » s.Active
8515   8524 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
            »    False
8516   8525 Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
            »    90.0
8517   8526 Perf_Background_Dpkg.Psengout
            »    False
8518   8527 Perf_Background_Dpkg.Flex_Isadev.Data
            »    5.0
8519   8528 Perf_Background_Dpkg.Noise_Data.Ramping
            »    True
8520   8529
8521   8530
8522   8531 OUTPUT                                              EXPECTED            TOLERANCE            ACTUAL
            »         P/F
8523   8532 -------------------------------------------------- ---------------------------- ------------- ------------------
            » --------  ----
8524   8533 Perf_Background_Dpkg.Noise_Data.Ramping                             False       (N/A)
            »   FALSE  P
8525   8534
8526   8535
8527   8536 ====> All 1 Comparisons Passed <====
8528   8537
8529   8538
8530   8539 TESTID: 71
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8531  8540
8532  8541  *When any of the following conditions are satisfied
8533  8542  (1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
8534  8543      Noise_Thrust_Target from VGUIDE is valid.
8535  8544  (2) If all the following conditions are satisfied
8536  8545      -Navigation(Nav Filtered) A/C Altitude is Valid
8537  8546      -Noise End altitude is valid
8538  8547      -Noise_Thrust_Target from VGUIDE is valid
8539  8548      -if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
8540  8549       current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
8541  8550       altitude tolerance).
8542  8551      Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
8543  8552      initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
8544  8553      and Perf_Background_Dpkg.Noise_Data.Ramping to true,
8545  8554      Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8546  8555      PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
8547  8556                PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
8548  8557
8549  8558      in this case,
8550  8559      the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
8551  8560      Navigation(Nav Filtered) A/C Altitude is Valid
8552  8561      Noise End altitude is valid
8553  8562      the Noise_Thrust_Target from VGUIDE is valid.
8554  8563      the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude
8555  8564      current A/C Altitude(Baro corrected) is less than the Noise end altitude(with 1 ft altitude tolerance)
8556  8565      so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8557  8566
8558  8567
8559  8568  INPUT                                                                                          VALUE
8560  8569  ------------------------------------------------------------------------------------------  ------------------
            » --------
8561  8570  Perf_Background_Dpkg.Pcactorsec
            »    Active
8562  8571  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »    Climb
8563  8572  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
            »    False
8564  8573  Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
            »     21.0
8565  8574  Perf_Background_Dpkg.Psorgalt
            »  36090.0
8566  8575  Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                               (10.
            » 6, True)
8567  8576  Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» False
8568	8577	Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid
		» True
8569	8578	Navigation_Data.Aircraft_Altitude_Valid
		» True
8570	8579	Navigation_Data.Aircraft_Altitude
		» 53.20
8571	8580	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status Takeoff_Alt_Type
		» s.Active
8572	8581	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
		» False
8573	8582	Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
		» 300.0
8574	8583	Perf_Background_Dpkg.Psengout
		» False
8575	8584	Perf_Background_Dpkg.Flex_Isadev.Data
		» 5.0
8576	8585	Perf_Background_Dpkg.Noise_Data.Ramping
		» True
8577	8586	
8578	8587	
8579	8588	OUTPUT EXPECTED TOLERANCE ACTUAL
		» P/F
8580	8589	-- ---------------------------- ------------- ------------------
		» -------- ----
8581	8590	Perf_Background_Dpkg.Noise_Data.Ramping False (N/A)
		» FALSE P
8582	8591	
8583	8592	
8584	8593	====> All 1 Comparisons Passed <====
8585	8594	
8586	8595	
8587	8596	TESTID: 72
8588	8597	
8589	8598	*When any of the following conditions are satisfied
8590	8599	(1) If the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is true, and the
8591	8600	Noise_Thrust_Target from VGUIDE is valid.
8592	8601	(2) If all the following conditions are satisfied
8593	8602	-Navigation(Nav Filtered) A/C Altitude is Valid
8594	8603	-Noise End altitude is valid
8595	8604	-Noise_Thrust_Target from VGUIDE is valid
8596	8605	-if the Navigation(Nav Filtered) A/C altitude is less than the Noise end altitude and
8597	8606	current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft
8598	8607	altitude tolerance).

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8599 | 8608 | Then aircraft is currently ramping NADP Noise thrust. If so, predicted noise thrust ramping data shall be
8600 | 8609 | initialized by setting Perf_Background_Dpkg.Noise_Data.Tspd to the Noise_Thrust_Target,
8601 | 8610 | and Perf_Background_Dpkg.Noise_Data.Ramping to true,
8602 | 8611 | Otherwise Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8603 | 8612 | PERF_SDD_4600( PERF_SRD_12529_INT, PERF_SRD_12507_DR, PERF_SRD_12511_DR, PERF_SRD_12514_DR, PERF_SRD_12517_DR,
8604 | 8613 |               PERF_SRD_12520_DR, PERF_SRD_12523_DR, PERF_SRD_12530_INT )
8605 | 8614 |
8606 | 8615 | in this case,
8607 | 8616 | the Gavpitchdis2.Noise_Thrust_Ramp_Start discrete from VGUIDE is not true
8608 | 8617 | Navigation(Nav Filtered) A/C Altitude is Valid
8609 | 8618 | Noise End altitude is valid
8610 | 8619 | the Noise_Thrust_Target from VGUIDE is valid.
8611 | 8620 | the Navigation(Nav Filtered) A/C altitude is greater than the Noise end altitude
8612 | 8621 | current A/C Altitude(Baro corrected) is greater than the Noise end altitude(with 1 ft altitude tolerance)
8613 | 8622 | so, Perf_Background_Dpkg.Noise_Data.Ramping set to false.
8614 | 8623 |
8615 | 8624 |
8616 | 8625 | INPUT                                                                                                VALUE
8617 | 8626 | --------------------------------------------------------------------------------------------------- ------------------
     |      | » --------
8618 | 8627 | Perf_Background_Dpkg.Pcactorsec
     |      | »    Active
8619 | 8628 | CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     |      | »    Climb
8620 | 8629 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Valid
     |      | »    False
8621 | 8630 | Perf_Background_Dpkg.Flex_Takeoff_Temperature.Data
     |      | »    21.0
8622 | 8631 | Perf_Background_Dpkg.Psorgalt
     |      | »    36090.0
8623 | 8632 | Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target                                                      (10.
     |      | » 6, True)
8624 | 8633 | Guid_Checkpoint_Dpkg.Gavpitchdis2.Noise_Thrust_Ramp_Start
     |      | »    False
8625 | 8634 | Guid_Checkpoint_Resynch_Dpkg.Noise_Thrust_Target.Valid
     |      | »    True
8626 | 8635 | Navigation_Data.Aircraft_Altitude_Valid
     |      | »    True
8627 | 8636 | Navigation_Data.Aircraft_Altitude
     |      | »    93.20
8628 | 8637 | Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt_Status    Takeoff_Alt_Type
     |      | » s.Active
8629 | 8638 | Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_Speed_Val
     |      | »    False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8630 | 8639 | Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Noise_Abatement_Array(Active).Noise_End_Alt
     |      | »        90.0
8631 | 8640 | Perf_Background_Dpkg.Psengout
     |      | »        False
8632 | 8641 | Perf_Background_Dpkg.Flex_Isadev.Data
     |      | »        5.0
8633 | 8642 | Perf_Background_Dpkg.Noise_Data.Ramping
     |      | »        True
8634 | 8643 |
8635 | 8644 |
8636 | 8645 | OUTPUT                                                          EXPECTED            TOLERANCE              ACTUAL
     |      | »             P/F
8637 | 8646 | -------------------------------------------------------   ---------------------------  -------------  -------------------
     |      | » --------  ----
8638 | 8647 | Perf_Background_Dpkg.Noise_Data.Ramping                                     False          (N/A)
     |      | »    FALSE  P
8639 | 8648 |
8640 | 8649 |
8641 | 8650 | ====> All 1 Comparisons Passed <====
8642 | 8651 |
8643 | 8652 |
8644 | 8653 | TESTID: 73
8645 | 8654 |
8646 | 8655 |     The following data shall be initialized as specified irrespective of the kind of flight plan:
8647 | 8656 |       - Compute old target speed flag (Computoldtgt) = False;
8648 | 8657 |       - Current target speed flag from FG(Curspdsval) = True;
8649 | 8658 |       - Climb auto derate mode active(Use_Clb_Autodrt) = False;
8650 | 8659 |       - First pass of predictions (Psfirstpass) = True;
8651 | 8660 |       - First pass of forward predictions (Psonofrstpas) = True;
8652 | 8661 |       - Flight test write protect (Psftpbwritok) = True;
8653 | 8662 |       - Vertical speed mode active (Psvsact) = False;
8654 | 8663 |       - Flight path angle mode active (Psfpaact) = False;
8655 | 8664 |       - Level at baro-changed constraint altitude (Pslvlatbcalt) = False;
8656 | 8665 |       - Below path and level at an altitude constraint (Pslvlblwpth) = False;
8657 | 8666 |       - Ratio of potential energy to kinetic energy (Potential_To_Kinetic_Share) is initialized to
8658 | 8667 |       ratio of potential energy to kinetic energy applied for integration of descent segments.
8659 | 8668 |       - First pass of prediciions flag repacked for FTB is initialized by flag for first pass
8660 | 8669 |       through predictions;
8661 | 8670 |       - Thrust reduction altitudes (Psthredalt & Psdesthrdalt) are initialized by calling the
8662 | 8671 |       procedure Fpln_Ext_Dpkg.Get_Def_Thrust_Reduction_Alt
8663 | 8672 |       - Unpredicted Fix-Info points exist (Psfi_Possble) = False;
8664 | 8673 |       - Predicted state on decel to ICAO-limited leg (On_Icao_Leg_Decel) = False;
8665 | 8674 |       - Do not search for HM decels (Psignorehm) = False;
8666 | 8675 |       - Previous reason for speed change (Pcoldwspdchg) = Return to econ speed (Returntoecon)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8667 | 8676        - Filtered A/C altitude (Navigation Data) is initialized by current aircraft altitude;
8668 | 8677        - Get the below descent path below DSL vertical speed target in FT/SEC by calling
8669 | 8678          Guid_Ext_Dpkg.Vs_Target_Below_Speed_Limit and dividing the returned value
8670 | 8679          (FT/MIN) by 60.0;
8671 | 8680        - Maximum operating CAS and Mach data initialized from database vmo and mmo and
8672 | 8681        the delta values obtained by calling Prf_External_Util_Pkg.Get_Maxop_Delta
8673 | 8682        - Predicted aircraft configuration (Pcconfig) is set to clean.
8674 | 8683        - Flag indicating that the TDP Level segment at or below clearance altitude
8675 | 8684        (Tdp_Level_Seg_At_Or_Below_Clralt) is set to False.
8676 | 8685        - The flag indicating level prediction is determined in current mode due to clearance
8677 | 8686        altitude or due to aircraft flying in level is set to false.
8678 | 8687        - The flag indicating the current mode has called state integrator to predict a level1 or
8679 | 8688        tod2 pseudo locations on TDP is set to false.
8680 | 8689        - The flag indicating clearance altitude set above the descent speed limit and below the
8681 | 8690          descent speed limit deceleration start point is set to false.
8682 | 8691
8683 | 8692        PERF_SDD_4155_INT
8684 | 8693
8685 | 8694        the working flight plan is  Is_Active,
8686 | 8695        a variety of following global data shall be retrieved which are common to the Active flight plan predictions proc
       »        ess.
8687 | 8696        - A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from guidance
8688 | 8697        - Guidance provided TDP capture tolerance
8689 | 8698        - when the Engine out status and the VG indicator that Green-Dot Speed is latched,
8690 | 8699          then the flag indicating that VG is using latched Green-Dot descent speed is set
8691 | 8700
8692 | 8701        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
8693 | 8702                      PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
8694 | 8703                      PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
8695 | 8704
8696 | 8705        the current flight phase is not climb, Flag indicating the speed targets from FG are valid will not be changed.
8697 | 8706
8698 | 8707        PERF_SDD_08226(PERF_SRD_2801,PERF_SRD_23365,PERF_SRD_23455)
8699 | 8708
8700 | 8709        Ithe current flight phase is cruise
8701 | 8710        the real time cruise speeds are valid for current working flight plan and the real time
8702 | 8711        step speeds are valid and a step (climb and descent) is active ,so
8703 | 8712        -The original step speeds (CAS and Mach) before speed limiting are set to the real
8704 | 8713        time step speeds (CAS and Mach) respectively.
8705 | 8714        -The flag indicating Predictions are in step is set based on the Step descent active
8706 | 8715        flag from Guidance.
8707 | 8716        -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
8708 | 8717        respectively.
8709 | 8718        -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8710  8719       Mach speeds for the active flight plan.

8711  8720

8712  8721     PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)

8713  8722

8714  8723     the real time descent speeds are valid for current working flight plan
8715  8724     Optimum Econ/LRC descent CAS and Mach shall set to the real time descent CAS and Mach respectively.

8716  8725

8717  8726     PERF_SDD_09064(PERF_SRD_23503_INT,PERF_SRD_2489)

8718  8727

8719  8728

8720  8729  INPUT                                                                                                     VALUE
8721  8730  -------------------------------------------------------------------------------------------------------  ------------------
            » --------
8722  8731  Perf_Background_Dpkg.Use_Clb_Autodrt
            »      True
8723  8732  Perf_Dpkg.Potential_To_Kinetic_Share
            »      200.0
8724  8733  Perf_Dpkg.Des_Potential_To_Kinetic_Share
            »      501.0
8725  8734  Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass
            »      False
8726  8735  Perf_Background_Dpkg.Psfirstpass
            »      False
8727  8736  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid
            »      False
8728  8737  Navigation_Data.Aircraft_Altitude_Valid
            »      True
8729  8738  Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data
            »      100.00
8730  8739  Navigation_Data.Aircraft_Altitude
            »      93.20
8731  8740  Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred
            »      True
8732  8741  Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred
            »      True
8733  8742  Perf_Background_Dpkg.Pcconfig                                                                            Perf_Config_Dpkg.Fi
            » dconfidx
8734  8743  Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd
            »      True
8735  8744  Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment
            »      False
8736  8745  Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol
            »      100.00
8737  8746  Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »      188.00
   8738    8747 Perf_Background_Dpkg.Flight_Plan_Type                                          Perf_Int_Base_Tpkg.I
                  »  s_Active
   8739    8748 Perf_Background_Dpkg.Pcactorsec
                  »      Active
   8740    8749 Perf_Background_Dpkg.Pcfltphase
                  »      Cruise
   8741    8750 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
                  »      Cruise
   8742    8751 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
                  »        True
   8743    8752 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
                  »      265.0
   8744    8753 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
                  »        0.55
   8745    8754 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
                  »        True
   8746    8755 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
                  »      288.0
   8747    8756 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
                  »        0.66
   8748    8757 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
                  »        True
   8749    8758 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
                  »      265.0
   8750    8759 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
                  »        0.55
   8751    8760 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
                  »        True
   8752    8761 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
                  »        True
   8753    8762 Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )
                  »      100.00
   8754    8763 Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec )
                  »        0.12
   8755    8764 Perf_Background_Dpkg.Psinstep
                  »      False
   8756    8765 Perf_Background_Dpkg.Psstepcas
                  »      200.00
   8757    8766 Perf_Background_Dpkg.Psstepmach
                  »        0.35
   8758    8767 Perf_Background_Dpkg.Psecncrzmach
                  »      200.0
   8759    8768 Perf_Background_Dpkg.Psecncrzcas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »      0.55
  8760    8769  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
                  »     100.12
  8761    8770  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
                  »      0.78
  8762    8771  Perf_Background_Dpkg.Psthredalt
                  »     100.0
  8763    8772  Perf_Background_Dpkg.Psdesthrdalt
                  »     800.0
  8764    8773  Perf_Background_Dpkg.Tdp_Level_Seg_At_Or_Below_Clralt
                  »      true
  8765    8774  Perf_Database_Dpkg.Psmmo
                  »      0.45
  8766    8775  Perf_Database_Dpkg.Psvmo
                  »      0.0
  8767    8776  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Def_Thrust_Reduction_Alt_Arr(Active).Data(Fprequestrec_Types.Takeoff).Altitude
                  »      866
  8768    8777  Fpln_Resync_Dpkg:Body.Fpln_Ext_Data.Def_Thrust_Reduction_Alt_Arr(Active).Data(Fprequestrec_Types.Goaround).Altitude
                  »      955
  8769    8778  Perf_Background_Dpkg.Psgrndotdes
                  »      False
  8770    8779  Perf_Background_Dpkg.Psengout
                  »      False
  8771    8780  Cdk_Vert_Dpkg:Body.Engine_Out_I
                  »      true
  8772    8781  Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
                  »      true
  8773    8782  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
                  »      True
  8774    8783  Perf_Background_Dpkg.Clralt_Below_Des_Spd_Lim_Decel_Start
                  »      True
  8775    8784  Perf_Background_Dpkg.Below_Path_Pred.Below_DSL_VS_Target
                  »      0.0
  8776    8785
  8777    8786
  8778    8787   define Get_Def_Thrust_Reduction_Alt_Called := False
  8779    8788   define Get_Maxop_Delta_Called := False
  8780    8789
  8781    8790
  8782    8791  INPUT                                                                                                        VALUE
  8783    8792  -------------------------------------------------------------------------------------------------  ------------------
                  » --------
  8784    8793  Computoldtgt
                  »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8785    8794 Curspdsval
             »      False
8786    8795 Perf_Background_Dpkg.Psfirstpass
             »      False
8787    8796 Perf_Background_Dpkg.Psonofrstpas
             »      False
8788    8797 Perf_Background_Dpkg.Psftpbwritok
             »      False
8789    8798 Perf_Background_Dpkg.Psvsact
             »      True
8790    8799 Perf_Background_Dpkg.Psfpaact
             »      True
8791    8800 Perf_Background_Dpkg.Pslvlatbcalt
             »      True
8792    8801 Perf_Integration_Dpkg.Pslvlblwpth
             »      True
8793    8802 Perf_Background_Dpkg.Psfi_Possble
             »      True
8794    8803 Perf_Background_Dpkg.On_Icao_Leg_Decel
             »      True
8795    8804 Perf_Background_Dpkg.Psignorehm
             »      True
8796    8805 Perf_Integration_Dpkg.Pcoldwspdchg                                                          Ica
             » olimited
8797    8806 Perf_Background_Dpkg.Adc_Fg_Valid
             »      False
8798    8807 Perf_Background_Dpkg.Psenginesoff
             »      True
8799    8808 Perf_Dpkg.Pcdelspdrec.Predicted
             »      True
8800    8809 Perf_Background_Dpkg.Pcoldeconcas.Valid
             »      True
8801    8810
8802    8811
8803    8812  define Get_Def_Thrust_Reduction_Alt_Called   := True
8804    8813  define Get_Maxop_Delta_Called   := True
8805    8814
8806    8815
8807    8816 OUTPUT                                                   EXPECTED                   TOLERANCE              ACTUAL
             »          P/F
8808    8817 -------------------------------------------------- ------------------------------  ------------  ------------------
             » --------  ----
8809    8818 Computoldtgt                                                  False          (N/A)
             »    FALSE   P
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 8810   8819 Curspdsval                                                             True          (N/A)
             » TRUE   P
 8811   8820
 8812   8821
 8813   8822 INPUT                                                                                               VALUE
 8814   8823 ------------------------------------------------------------------------------------ ------------------
             » --------
 8815   8824 Perf_Background_Dpkg.Lim_Max_Op_Cas
             »     5.0
 8816   8825 Perf_Background_Dpkg.Lim_Max_Op_Mach
             »     0.0
 8817   8826
 8818   8827
 8819   8828  define Get_Maxop_Delta_Called   := True
 8820   8829
 8821   8830
 8822   8831 OUTPUT                                              EXPECTED                 TOLERANCE           ACTUAL
             »          P/F
 8823   8832 -------------------------------------------------- ------------------------------ ------------- ------------------
             » --------  ----
 8824   8833 Prf_Bkgnd_Pkg:body.Fgspdsvalid                                          True          (N/A)
             » TRUE   P
 8825   8834 Perf_Background_Dpkg.Psfirstpass                                        True          (N/A)
             » TRUE   P
 8826   8835 Perf_Background_Dpkg.Psonofrstpas                                       True          (N/A)
             » TRUE   P
 8827   8836 Perf_Background_Dpkg.Psftpbwritok                                       True          (N/A)
             » TRUE   P
 8828   8837 Perf_Background_Dpkg.Psvsact                                            False         (N/A)
             » FALSE   P
 8829   8838 Perf_Background_Dpkg.Psfpaact                                           False         (N/A)
             » FALSE   P
 8830   8839 Perf_Background_Dpkg.Pslvlatbcalt                                       False         (N/A)
             » FALSE   P
 8831   8840 Perf_Integration_Dpkg.Pslvlblwpth                                      False         (N/A)
             » FALSE   P
 8832   8841 Perf_Background_Dpkg.Psfi_Possble                                       False         (N/A)
             » FALSE   P
 8833   8842 Perf_Background_Dpkg.On_Icao_Leg_Decel                                  False         (N/A)
             » FALSE   P
 8834   8843 Perf_Background_Dpkg.Psignorehm                                         False         (N/A)
             » FALSE   P
 8835   8844 Perf_Integration_Dpkg.Pcoldwspdchg                        Returntoecon        (N/A)           RETU
             » RNTOECON  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

8836	8845	Get_Def_Thrust_Reduction_Alt_Called	True	(N/A)	
		» TRUE P			
8837	8846	Perf_Background_Dpkg.Use_Clb_Autodrt	False	(N/A)	
		» FALSE P			
8838	8847	Perf_Dpkg.Potential_To_Kinetic_Share	501.0	0.001	5.0
		» 1000E+02 P			
8839	8848	Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass	TRUE	(N/A)	
		» TRUE P			
8840	8849	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid	TRUE	(N/A)	
		» TRUE P			
8841	8850	Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data	93.2	0.001	9.3
		» 2000E+01 P			
8842	8851	Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred	False	(N/A)	
		» FALSE P			
8843	8852	Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred	False	(N/A)	
		» FALSE P			
8844	8853	Perf_Background_Dpkg.Pcconfig	Perf_Config_Dpkg.Clean	(N/A)	
		» 0 P			
8845	8854	Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment	True	(N/A)	
		» TRUE P			
8846	8855	Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol	188.00	0.001	1.8
		» 8000E+02 P			
8847	8856	Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec)	288.0	0.001	2.8
		» 8000E+02 P			
8848	8857	Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec)	0.66	0.001	6.6
		» 0000E-01 P			
8849	8858	Perf_Background_Dpkg.Psinstep	True	(N/A)	
		» TRUE P			
8850	8859	Perf_Background_Dpkg.Psstepcas	288.0	0.001	2.8
		» 8000E+02 P			
8851	8860	Perf_Background_Dpkg.Psstepmach	0.66	0.001	6.6
		» 0000E-01 P			
8852	8861	Perf_Background_Dpkg.Psecncrzmach	0.55	0.001	5.5
		» 0000E-01 P			
8853	8862	Perf_Background_Dpkg.Psecncrzcas	265.0	0.001	2.6
		» 5000E+02 P			
8854	8863	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	265.0	0.001	2.6
		» 5000E+02 P			
8855	8864	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.55	0.001	5.5
		» 0000E-01 P			
8856	8865	Perf_Background_Dpkg.Psthredalt	866.0	0.001	8.6
		» 6000E+02 P			
8857	8866	Perf_Background_Dpkg.Psdesthrdalt	955.0	0.001	9.5
		» 5000E+02 P			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8858    8867 Get_Maxop_Delta_Called                                                    True          (N/A)
             »       TRUE   P
8859    8868 Perf_Background_Dpkg.Lim_Max_Op_Cas                                        0.0           0.001                0.0
             » 0000E+00   P
8860    8869 Perf_Background_Dpkg.Lim_Max_Op_Mach                                       0.45          0.001                4.5
             » 0000E-01   P
8861    8870 Perf_Background_Dpkg.Psgrndotdes                                           true          (N/A)
             »       TRUE   P
8862    8871 Perf_Background_Dpkg.Clralt_Below_Des_Spd_Lim_Decel_Start                  False         (N/A)
             »       FALSE   P
8863    8872 Perf_Background_Dpkg.Below_Path_Pred.Below_DSL_VS_Target                   -8.333        0.001                -8.3
             » 3333E+00   P
8864    8873
8865    8874
8866    8875 ====> All 42 Comparisons Passed <====
8867    8876
8868    8877
8869    8878 TESTID: 74
8870    8879
8871    8880        the working flight plan is Copy_From_Active,
8872    8881        a variety of following global data shall be retrieved which are common to the Active flight plan predictions pr
             » ocess.
8873    8882          - A/C is below a NAVDB imposed TDP segment (Below_Navdb_Imposed_Segment) from
8874    8883          guidance
8875    8884          - Guidance provided TDP capture tolerance
8876    8885        - when the Engine out status and the VG indicator that Green-Dot Speed is latched,
8877    8886          The flag indicating that VG is using latched Green-Dot descent speed is set.
8878    8887
8879    8888        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
8880    8889               PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
8881    8890               PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
8882    8891
8883    8892    the current flight phase is cruise
8884    8893    the real time cruise speeds are not valid for current working flight plan and the real time
8885    8894    step speeds are valid and a step (climb) is not active and a step (descent) is active , then:
8886    8895    -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
8887    8896
8888    8897     PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
8889    8898
8890    8899    the real time descent speeds are not valid for current working flight plan then
8891    8900    Optimum Econ/LRC descent CAS and Mach shall not set to the real time descent CAS and Mach respectively.
8892    8901
8893    8902     PERF_SDD_09064(PERF_SRD_23503_INT,PERF_SRD_2489)
8894    8903
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8895    8904
8896    8905 INPUT                                                                                                                  VALUE
8897    8906 ------------------------------------------------------------------------------------------- ------------------
             » --------
8898    8907 Perf_Background_Dpkg.Use_Clb_Autodrt
             »       True
8899    8908 Perf_Dpkg.Potential_To_Kinetic_Share
             »       200.0
8900    8909 Perf_Dpkg.Des_Potential_To_Kinetic_Share
             »       501.0
8901    8910 Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass
             »       False
8902    8911 Perf_Background_Dpkg.Psfirstpass
             »       False
8903    8912 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid
             »       False
8904    8913 Navigation_Data.Aircraft_Altitude_Valid
             »       True
8905    8914 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data
             »       100.00
8906    8915 Navigation_Data.Aircraft_Altitude
             »       93.20
8907    8916 Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred
             »       True
8908    8917 Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred
             »       True
8909    8918 Perf_Background_Dpkg.Pcconfig                                                                     Perf_Config_Dpkg.Fi
             » dconfidx
8910    8919 Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd
             »       True
8911    8920 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment
             »       False
8912    8921 Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol
             »       100.00
8913    8922 Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance
             »       188.00
8914    8923 Perf_Background_Dpkg.Flight_Plan_Type                                                             Perf_Int_Base_Tpkg.Copy_Fro
             » m_Active
8915    8924 Perf_Background_Dpkg.Pcactorsec
             »       Active
8916    8925 Perf_Background_Dpkg.Pcfltphase
             »       Cruise
8917    8926 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »       Cruise
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8918   8927 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
            »       False
8919   8928 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
            »       265.0
8920   8929 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
            »       0.55
8921   8930 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
            »       True
8922   8931 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
            »       288.0
8923   8932 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
            »       0.66
8924   8933 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            »       False
8925   8934 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
            »       265.0
8926   8935 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
            »       0.55
8927   8936 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
            »       False
8928   8937 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
            »       True
8929   8938 Cdk_Vert_Dpkg:Body.Engine_Out_I
            »       true
8930   8939 Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
            »       true
8931   8940 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
            »       True
8932   8941 Prf_Bkgnd_Pkg:body.Fgspdsvalid
            »       True
8933   8942
8934   8943
8935   8944 OUTPUT                                                     EXPECTED              TOLERANCE              ACTUAL
            »           P/F
8936   8945 -------------------------------------------------------- ------------------------------ ------------- ------------------
            » --------  ----
8937   8946 Prf_Bkgnd_Pkg:body.Fgspdsvalid                            False        (N/A)
            »     FALSE  P
8938   8947 Perf_Background_Dpkg.Use_Clb_Autodrt                      False        (N/A)
            »     FALSE  P
8939   8948 Perf_Dpkg.Potential_To_Kinetic_Share                     501.0        0.001               5.0
            » 1000E+02  P
8940   8949 Perf_Flight_Test_Dpkg.Perf_Repack_Data.Psfirstpass       TRUE         (N/A)
            »     TRUE   P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8941   8950 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Valid                              TRUE        (N/A)
             »     TRUE   P
8942   8951 Perf_Background_Dpkg.Nav_Filtered_AC_Altitude.Data                              93.2        0.001                      9.3
             » 2000E+01   P
8943   8952 Perf_Background_Dpkg.Current_Mode_Level1_Or_Tod2_Pred                           False       (N/A)
             »    FALSE   P
8944   8953 Perf_Background_Dpkg.Clr_Alt_Level_Path_Pred                                    False       (N/A)
             »    FALSE   P
8945   8954 Perf_Background_Dpkg.Pcconfig                          Perf_Config_Dpkg.Clean               (N/A)
             »       0    P
8946   8955 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment                True        (N/A)
             »     TRUE   P
8947   8956 Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol                        188.00      0.001                      1.8
             » 8000E+02   P
8948   8957
8949   8958
8950   8959 ====> All 11 Comparisons Passed <====
8951   8960
8952   8961
8953   8962 TESTID: 75
8954   8963
8955   8964      the current flight phase is cruise
8956   8965      the real time cruise speeds are valid for current working flight plan and the real time
8957   8966      step speeds are not valid and  a step (climb) is active and a step (descent) is not active , then:
8958   8967      -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
8959   8968
8960   8969       PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
8961   8970
8962   8971
8963   8972 INPUT                                                                                                      VALUE
8964   8973 -------------------------------------------------------------------------------------------------  ------------------
             » --------
8965   8974 Perf_Background_Dpkg.Flight_Plan_Type                                                            Perf_Int_Base_Tpkg.I
             » s_Active
8966   8975 Perf_Background_Dpkg.Pcactorsec
             »    Active
8967   8976 Perf_Background_Dpkg.Pcfltphase
             »    Cruise
8968   8977 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »    Cruise
8969   8978 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
             »      True
8970   8979 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
             »      False
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
8971  8980  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
            »          True
8972  8981  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
            »          True
8973  8982  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
            »          False
8974  8983  Cdk_Vert_Dpkg:Body.Engine_Out_I
            »          true
8975  8984  Guid_Checkpoint_Resynch_Dpkg.Vc3eospdrec.Grndotdes
            »          true
8976  8985  Prf_Bkgnd_Pkg:body.Fgspdsvalid
            »          False
8977  8986  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
            »          True
8978  8987  Prf_Bkgnd_Pkg:body.Fgspdsvalid
            »          True
8979  8988
8980  8989
8981  8990  OUTPUT                                                        EXPECTED              TOLERANCE           ACTUAL
            »             P/F
8982  8991  ------------------------------------------------------  ----------------------------  -------------  ------------------
            » --------  ----
8983  8992  Prf_Bkgnd_Pkg:body.Fgspdsvalid                                               False         (N/A)
            »    FALSE  P
8984  8993
8985  8994
8986  8995  ====> All 1 Comparisons Passed <====
8987  8996
8988  8997
8989  8998  TESTID: 76
8990  8999       Ihe current flight phase is cruise
8991  9000       the real time cruise speeds are valid for current working flight plan and the real time
8992  9001       step speeds are valid and a step (climb) is not active and a step (descent)  is not active, then:
8993  9002       -The original step speeds (CAS and Mach) before speed limiting are set to the real
8994  9003       time step speeds (CAS and Mach) respectively.
8995  9004       -The flag indicating Predictions are in step is set based on the Step descent active
8996  9005       flag from Guidance.
8997  9006       -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
8998  9007       respectively.
8999  9008       -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9000  9009       Mach speeds for the active flight plan.
9001  9010
9002  9011        PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9003  9012
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9004    9013
9005    9014 INPUT                                                                                                      VALUE
9006    9015 ------------------------------------------------------------------------------------ ------------------
             » --------
9007    9016 Perf_Background_Dpkg.Flight_Plan_Type                                                  Perf_Int_Base_Tpkg.I
             » s_Active
9008    9017 Perf_Background_Dpkg.Pcactorsec
             »     Active
9009    9018 Perf_Background_Dpkg.Pcfltphase
             »     Cruise
9010    9019 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »     Cruise
9011    9020 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
             »        True
9012    9021 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
             »        265.0
9013    9022 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
             »        0.55
9014    9023 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
             »        True
9015    9024 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
             »        288.0
9016    9025 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
             »        0.66
9017    9026 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »        True
9018    9027 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             »        265.0
9019    9028 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             »        0.55
9020    9029 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
             »        False
9021    9030 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
             »        False
9022    9031 Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )
             »     100.00
9023    9032 Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec )
             »        0.12
9024    9033 Perf_Background_Dpkg.Psinstep
             »        True
9025    9034 Perf_Background_Dpkg.Psstepcas
             »     200.00
9026    9035 Perf_Background_Dpkg.Psstepmach
             »        0.35
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9027   9036  Perf_Background_Dpkg.Psecncrzmach
             »     200.0
9028   9037  Perf_Background_Dpkg.Psecncrzcas
             »     0.55
9029   9038  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »     100.12
9030   9039  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             »     0.78
9031   9040  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
             »     True
9032   9041  Prf_Bkgnd_Pkg:body.Fgspdsvalid
             »     True
9033   9042
9034   9043
9035   9044  OUTPUT                                             EXPECTED            TOLERANCE          ACTUAL
             »          P/F
9036   9045  -------------------------------------------------- ----------------------------- ------------- -------------------
             » --------  ----
9037   9046  Prf_Bkgnd_Pkg:body.Fgspdsvalid                     True            (N/A)
             »     TRUE   P
9038   9047  Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec)     288.0          0.001                2.8
             » 8000E+02  P
9039   9048  Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec)     0.66           0.001                6.6
             » 0000E-01  P
9040   9049  Perf_Background_Dpkg.Psinstep                      False           (N/A)
             »     FALSE  P
9041   9050  Perf_Background_Dpkg.Psstepcas                     288.0           0.001                2.8
             » 8000E+02  P
9042   9051  Perf_Background_Dpkg.Psstepmach                    0.66            0.001                6.6
             » 0000E-01  P
9043   9052  Perf_Background_Dpkg.Psecncrzmach                  0.55            0.001                5.5
             » 0000E-01  P
9044   9053  Perf_Background_Dpkg.Psecncrzcas                   265.0           0.001                2.6
             » 5000E+02  P
9045   9054  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas          265.0           0.001                2.6
             » 5000E+02  P
9046   9055  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach         0.55            0.001                5.5
             » 0000E-01  P
9047   9056
9048   9057
9049   9058  ====> All 10 Comparisons Passed <====
9050   9059
9051   9060
9052   9061  TESTID: 77
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9053  9062
9054  9063         the current flight phase is cruise
9055  9064         the real time cruise speeds are not valid for current working flight plan and the real time
9056  9065         step speeds are valid and a step (climb and descent) is active, then:
9057  9066         -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9058  9067
9059  9068          PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9060  9069
9061  9070
9062  9071 INPUT                                                                                        VALUE
9063  9072 --------------------------------------------------------------------------------------- ------------------
      » --------
9064  9073 Perf_Background_Dpkg.Flight_Plan_Type                                                         Perf_Int_Base_Tpkg.I
      » s_Active
9065  9074 Perf_Background_Dpkg.Pcactorsec
      »    Active
9066  9075 Perf_Background_Dpkg.Pcfltphase
      »    Cruise
9067  9076 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
      »    Cruise
9068  9077 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
      »     False
9069  9078 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
      »     True
9070  9079 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
      »     True
9071  9080 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
      »     True
9072  9081 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
      »     True
9073  9082 Prf_Bkgnd_Pkg:body.Fgspdsvalid
      »     True
9074  9083
9075  9084
9076  9085 OUTPUT                                                     EXPECTED            TOLERANCE            ACTUAL
      »          P/F
9077  9086 -------------------------------------------------- --------------------------- ------------- ------------------
      » --------  ----
9078  9087 Prf_Bkgnd_Pkg:body.Fgspdsvalid                              False         (N/A)
      »    FALSE  P
9079  9088
9080  9089
9081  9090 ====> All 1 Comparisons Passed <====
9082  9091
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9083  9092
9084  9093 TESTID: 78
9085  9094
9086  9095      the current flight phase is cruise
9087  9096      the real time cruise speeds are  valid for current working flight plan and the real time
9088  9097      step speeds are not valid and a step (climb and descent) is active, then:
9089  9098      -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9090  9099
9091  9100       PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9092  9101
9093  9102
9094  9103 INPUT                                                                                         VALUE
9095  9104 -------------------------------------------------------------------------------------------- ------------------
      »  --------
9096  9105 Perf_Background_Dpkg.Flight_Plan_Type                                               Perf_Int_Base_Tpkg.I
      »  s_Active
9097  9106 Perf_Background_Dpkg.Pcactorsec
      »      Active
9098  9107 Perf_Background_Dpkg.Pcfltphase
      »      Cruise
9099  9108 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
      »      Cruise
9100  9109 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
      »        True
9101  9110 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
      »        False
9102  9111 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
      »        True
9103  9112 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
      »        True
9104  9113 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
      »        True
9105  9114 Prf_Bkgnd_Pkg:body.Fgspdsvalid
      »        True
9106  9115
9107  9116
9108  9117 OUTPUT                                                       EXPECTED            TOLERANCE           ACTUAL
      »             P/F
9109  9118 -------------------------------------------------------   ----------------------------  ------------  ------------------
      »  --------   ----
9110  9119 Prf_Bkgnd_Pkg:body.Fgspdsvalid                               False          (N/A)
      »      FALSE   P
9111  9120
9112  9121
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9113 | 9122 |====> All 1 Comparisons Passed <====
9114 | 9123 |
9115 | 9124 |
9116 | 9125 |TESTID: 79
9117 | 9126 |
9118 | 9127 |     the current flight phase is cruise
9119 | 9128 |     the real time cruise speeds are  valid for current working flight plan and the real time
9120 | 9129 |     step speeds are not valid and a step Climb is not active,descent is active then:
9121 | 9130 |     -Flag indicating the speed targets from FG are valid (Fgspdsvalid) is set to False.
9122 | 9131 |
9123 | 9132 |      PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9124 | 9133 |
9125 | 9134 |
9126 | 9135 |INPUT                                                                                          VALUE
9127 | 9136 |------------------------------------------------------------------------------------ -----------------
     |      |» --------
9128 | 9137 |Perf_Background_Dpkg.Flight_Plan_Type                                           Perf_Int_Base_Tpkg.I
     |      |» s_Active
9129 | 9138 |Perf_Background_Dpkg.Pcactorsec
     |      |»    Active
9130 | 9139 |Perf_Background_Dpkg.Pcfltphase
     |      |»    Cruise
9131 | 9140 |CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     |      |»    Cruise
9132 | 9141 |Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
     |      |»     True
9133 | 9142 |Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
     |      |»     False
9134 | 9143 |Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
     |      |»     True
9135 | 9144 |Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
     |      |»     False
9136 | 9145 |Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
     |      |»     True
9137 | 9146 |Prf_Bkgnd_Pkg:body.Fgspdsvalid
     |      |»     True
9138 | 9147 |
9139 | 9148 |
9140 | 9149 |OUTPUT                                              EXPECTED            TOLERANCE            ACTUAL
     |      |»           P/F
9141 | 9150 |-------------------------------------------------- ----------------------------- ------------- ------------------
     |      |» --------  ----
9142 | 9151 |Prf_Bkgnd_Pkg:body.Fgspdsvalid                               False         (N/A)
     |      |»    FALSE   P
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9143  9152
9144  9153
9145  9154 ====> All 1 Comparisons Passed <====
9146  9155
9147  9156
9148  9157 TESTID: 80
9149  9158       Ihe current flight phase is cruise
9150  9159       the real time cruise speeds are valid for current working flight plan and the real time
9151  9160       step speeds are valid and a step (climb) is active and a step (descent)  is not active, then:
9152  9161       -The original step speeds (CAS and Mach) before speed limiting are set to the real
9153  9162       time step speeds (CAS and Mach) respectively.
9154  9163       -The flag indicating Predictions are in step is set based on the Step descent active
9155  9164       flag from Guidance.
9156  9165       -The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach
9157  9166       respectively.
9158  9167       -Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and
9159  9168       Mach speeds for the active flight plan.
9160  9169
9161  9170        PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)
9162  9171
9163  9172
9164  9173 INPUT                                                                                        VALUE
9165  9174 -------------------------------------------------------------------------------- ------------------
           » --------
9166  9175 Perf_Background_Dpkg.Flight_Plan_Type                                         Perf_Int_Base_Tpkg.I
           » s_Active
9167  9176 Perf_Background_Dpkg.Pcactorsec
           »    Active
9168  9177 Perf_Background_Dpkg.Pcfltphase
           »    Cruise
9169  9178 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           »    Cruise
9170  9179 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid
           »      True
9171  9180 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
           »      265.0
9172  9181 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
           »      0.55
9173  9182 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
           »      True
9174  9183 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
           »      288.0
9175  9184 Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
           »      0.66
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9176   9185 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »       True
9177   9186 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             »       265.0
9178   9187 Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             »       0.55
9179   9188 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
             »       True
9180   9189 Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
             »       False
9181   9190 Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )
             »       100.00
9182   9191 Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec )
             »       0.12
9183   9192 Perf_Background_Dpkg.Psinstep
             »       True
9184   9193 Perf_Background_Dpkg.Psstepcas
             »       200.00
9185   9194 Perf_Background_Dpkg.Psstepmach
             »       0.35
9186   9195 Perf_Background_Dpkg.Psecncrzmach
             »       200.0
9187   9196 Perf_Background_Dpkg.Psecncrzcas
             »       0.55
9188   9197 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »       100.12
9189   9198 Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             »       0.78
9190   9199 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
             »       True
9191   9200
9192   9201
9193   9202 OUTPUT                                                      EXPECTED            TOLERANCE              ACTUAL
             »          P/F
9194   9203 ------------------------------------------------------  ----------------------------  -------------  ------------------
             » --------  ----
9195   9204 Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec)      288.0             0.001                2.8
             » 8000E+02  P
9196   9205 Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec)      0.66              0.001                6.6
             » 0000E-01  P
9197   9206 Perf_Background_Dpkg.Psinstep                             False             (N/A)
             »    FALSE  P
9198   9207 Perf_Background_Dpkg.Psstepcas                            288.0             0.001                2.8
             » 8000E+02  P
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

9199	9208	Perf_Background_Dpkg.Psstepmach	0.66	0.001	6.6
		» 0000E-01 P			
9200	9209	Perf_Background_Dpkg.Psecncrzmach	0.55	0.001	5.5
		» 0000E-01 P			
9201	9210	Perf_Background_Dpkg.Psecncrzcas	265.0	0.001	2.6
		» 5000E+02 P			
9202	9211	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas	265.0	0.001	2.6
		» 5000E+02 P			
9203	9212	Perf_Background_Dpkg.Pcoptinitspd.Des.Mach	0.55	0.001	5.5
		» 0000E-01 P			
9204	9213				
9205	9214				
9206	9215	====> All 9 Comparisons Passed <====			
9207	9216				
9208	9217				
9209	9218	TESTID: 81			
9210	9219	Ihe current flight phase is cruise			
9211	9220	the real time cruise speeds are valid for current working flight plan and the real time			
9212	9221	step speeds are valid and a step (climb) is not active and a step (descent) is active, then:			
9213	9222	-The original step speeds (CAS and Mach) before speed limiting are set to the real			
9214	9223	time step speeds (CAS and Mach) respectively.			
9215	9224	-The flag indicating Predictions are in step is set based on the Step descent active			
9216	9225	flag from Guidance.			
9217	9226	-The Step CAS and Mach speeds are set to the real time step speeds CAS and Mach			
9218	9227	respectively.			
9219	9228	-Optimum Econ/LRC Cruise CAS and Mach are set to the real time cruise CAS and			
9220	9229	Mach speeds for the active flight plan.			
9221	9230				
9222	9231	PERF_SDD_09063(PERF_SRD_23478,PERF_SRD_23491)			
9223	9232				
9224	9233				
9225	9234	INPUT			VALUE
9226	9235	-- ------------------			
		» --------			
9227	9236	Perf_Background_Dpkg.Flight_Plan_Type			Perf_Int_Base_Tpkg.I
		» s_Active			
9228	9237	Perf_Background_Dpkg.Pcactorsec			
		» Active			
9229	9238	Perf_Background_Dpkg.Pcfltphase			
		» Cruise			
9230	9239	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase			
		» Cruise			
9231	9240	Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Valid			
		» True			

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9232   9241  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Cas
             »        265.0
9233   9242  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Cruise).Mach
             »        0.55
9234   9243  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Valid
             »        True
9235   9244  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Cas
             »        288.0
9236   9245  Perf_Rt_Speeds_Dpkg:body.data_storage.Step_Speeds(Active).Mach
             »        0.66
9237   9246  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Valid
             »        True
9238   9247  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Cas
             »        265.0
9239   9248  Perf_Rt_Speeds_Dpkg:body.data_storage.Perf_Speeds(Active)(Descent).Mach
             »        0.55
9240   9249  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact
             »        False
9241   9250  Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact
             »        True
9242   9251  Perf_Background_Dpkg.Pcsavstepcas( Perf_Background_Dpkg.Pcactorsec )
             »        100.00
9243   9252  Perf_Background_Dpkg.Pcsavstepmac( Perf_Background_Dpkg.Pcactorsec )
             »        0.12
9244   9253  Perf_Background_Dpkg.Psinstep
             »        True
9245   9254  Perf_Background_Dpkg.Psstepcas
             »        200.00
9246   9255  Perf_Background_Dpkg.Psstepmach
             »        0.35
9247   9256  Perf_Background_Dpkg.Psecncrzmach
             »        200.0
9248   9257  Perf_Background_Dpkg.Psecncrzcas
             »        0.55
9249   9258  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »        100.12
9250   9259  Perf_Background_Dpkg.Pcoptinitspd.Des.Mach
             »        0.78
9251   9260  Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.Speed_Target
             »        True
9252   9261
9253   9262
9254   9263  OUTPUT                                                   EXPECTED            TOLERANCE          ACTUAL
             »        P/F
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9255   9264 |------------------------------------------------------  ------------------------------  -------------  ------------------
            | » --------  ----
9256   9265 |Perf_Background_Dpkg.Pcsavstepcas(Perf_Background_Dpkg.Pcactorsec)            288.0          0.001                   2.8
            | » 8000E+02  P
9257   9266 |Perf_Background_Dpkg.Pcsavstepmac(Perf_Background_Dpkg.Pcactorsec)             0.66          0.001                   6.6
            | » 0000E-01  P
9258   9267 |Perf_Background_Dpkg.Psinstep                                                  True          (N/A)
            | »     TRUE  P
9259   9268 |Perf_Background_Dpkg.Psstepcas                                                288.0          0.001                   2.8
            | » 8000E+02  P
9260   9269 |Perf_Background_Dpkg.Psstepmach                                                0.66          0.001                   6.6
            | » 0000E-01  P
9261   9270 |Perf_Background_Dpkg.Psecncrzmach                                              0.55          0.001                   5.5
            | » 0000E-01  P
9262   9271 |Perf_Background_Dpkg.Psecncrzcas                                              265.0          0.001                   2.6
            | » 5000E+02  P
9263   9272 |Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                     265.0          0.001                   2.6
            | » 5000E+02  P
9264   9273 |Perf_Background_Dpkg.Pcoptinitspd.Des.Mach                                     0.55          0.001                   5.5
            | » 0000E-01  P
9265   9274 |
9266   9275 |
9267   9276 |====> All 9 Comparisons Passed <====
9268   9277 |
9269   9278 |
9270   9279 |TESTID: 82
9271   9280 |
9272   9281 |Verify the working flight plan is Is_Active, a variety of following global data shall be
9273   9282 |retrieved which are common to the Active flight plan predictions process.
9274   9283 |- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9275   9284 |   Data and Valid values respectively.
9276   9285 |- Guidance provided PFD display speed and its validity.
9277   9286 |PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9278   9287 |               PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9279   9288 |               PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9280   9289 |
9281   9290 |
9282   9291 |INPUT                                                                                                          VALUE
9283   9292 |-------------------------------------------------------------------------------  ------------------
            | » --------
9284   9293 |Perf_Background_Dpkg.Flight_Plan_Type                                                                               I
            | » s_Active
9285   9294 |Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
            | »      0.0
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9286   9295 │Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid
             │»      False
9287   9296 │Guid_Spds_Dpkg.Pfd_Display_Speed.Valid
             │»       True
9288   9297 │Guid_Spds_Dpkg.Pfd_Display_Speed.Data
             │»        1.0
9289   9298 │Perf_Background_Dpkg.Pfd_Display_Speed.Valid
             │»      False
9290   9299 │Perf_Background_Dpkg.Pfd_Display_Speed.Data
             │»        0.0
9291   9300 │
9292   9301 │
9293   9302 │OUTPUT                                                  EXPECTED              TOLERANCE              ACTUAL
             │»          P/F
9294   9303 │------------------------------------------------  ----------------------  -------------  ------------------
             │» --------  ----
9295   9304 │Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data                5.0         0.001                 5.0
             │» 0000E+00  P
9296   9305 │Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid              True         (N/A)
             │»      TRUE  P
9297   9306 │Perf_Background_Dpkg.Pfd_Display_Speed.Valid                            True         (N/A)
             │»      TRUE  P
9298   9307 │Perf_Background_Dpkg.Pfd_Display_Speed.Data                              1.0         0.001                 1.0
             │» 0000E+00  P
9299   9308 │
9300   9309 │
9301   9310 │====> All 4 Comparisons Passed <====
9302   9311 │
9303   9312 │
9304   9313 │TESTID: 83
9305   9314 │
9306   9315 │Verify the working flight plan is Copy_From_Active, a variety of following global data shall be
9307   9316 │retrieved which are common to the Active flight plan predictions process.
9308   9317 │- Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9309   9318 │   Data and Valid values respectively.
9310   9319 │- Guidance provided PFD display speed and its validity.
9311   9320 │In this case: the validity is false.
9312   9321 │PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9313   9322 │                  PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9314   9323 │                  PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9315   9324 │
9316   9325 │
9317   9326 │INPUT                                                                                          VALUE
9318   9327 │------------------------------------------------------------------------------------------- ------------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                » --------
9319    9328  Perf_Background_Dpkg.Flight_Plan_Type                                                            Copy_Fro
                » m_Active
9320    9329  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
                »       0.0
9321    9330  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid
                »      False
9322    9331  Guid_Spds_Dpkg.Pfd_Display_Speed.Valid
                »      False
9323    9332  Guid_Spds_Dpkg.Pfd_Display_Speed.Data
                »       0.0
9324    9333  Perf_Background_Dpkg.Pfd_Display_Speed.Valid
                »       True
9325    9334  Perf_Background_Dpkg.Pfd_Display_Speed.Data
                »       1.0
9326    9335
9327    9336
9328    9337  OUTPUT                                             EXPECTED              TOLERANCE          ACTUAL
                »          P/F
9329    9338  ---------------------------------------------------  ------------------------------  -------------  ------------------
                » --------  ----
9330    9339  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data              5.0          0.001             5.0
                » 0000E+00  P
9331    9340  Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid            True         (N/A)
                »     TRUE  P
9332    9341  Perf_Background_Dpkg.Pfd_Display_Speed.Valid                          False        (N/A)
                »    FALSE  P
9333    9342  Perf_Background_Dpkg.Pfd_Display_Speed.Data                            0.0          0.001             0.0
                » 0000E+00  P
9334    9343
9335    9344
9336    9345  ====> All 4 Comparisons Passed <====
9337    9346
9338    9347
9339    9348  TESTID: 84
9340    9349
9341    9350  Verify the working flight plan is Indep_From_Active,a variety of following global data be not retrieved
9342    9351       - A/C altitude and its validity
9343    9352       - A/C position
9344    9353       - A/C track and its validity
9345    9354       - A/C ground speed and its validity
9346    9355       - Wind bearing
9347    9356       - Wind magnitude
9348    9357       - Wind validity
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9349  9358        - Health status of Engines (Inboard and Outboard Engines of Captain and FO)
9350  9359        - Throttle lever angle (Inboard and Outboard Engines of Captain and FO)
9351  9360        - A/C flightphase
9352  9361        - Clock time
9353  9362        - FE maneuver speed and validity
9354  9363        - Airborne flag
9355  9364          when Io_Fms_Aircraft_State_Dpkg.Is_Airborne is true
9356  9365          and Perf_Background_Dpkg.Pcfltphase is not Preflight and Done;
9357  9366        - Lateral auto mode flag
9358  9367        - Current aircraft cross track error from guidance.
9359  9368        - Level change auto control mode flag
9360  9369        - Vertical auto mode flag
9361  9370        - Third altitude from guidance
9362  9371        - Current altitude constraint management related data(Pccuraltcstr) from guidance
9363  9372        - Previous captured barometric altitude related data (Pcprebcalt) from guidance
9364  9373        - A/C is descending from level segment or alt constraint (Early_Descent_From_Level) from guidance
9365  9374        - Engine-out flag
9366  9375        - Engines off status
9367  9376        - Number of engines out via Prf_Aeroeng_Pkg.Get_Num_Eng_Out
9368  9377        -when Perf_Background_Dpkg.Pcpathref is not Onpath the descent path is not be captured
9369  9378        - Cruise altitude from Fpln_Ext_Dpkg.Get_Cruise_Alt
9370  9379        - Set the next applicable cruise altitude variable Data and vaild fields with the Cruise altitude
9371  9380          Data and Valid values respectively.
9372  9381        - when Sel_Src_Inertial_Vert_Speed is valid, A/C inertial vertical speed is Io_Common_Irs_Dpkg.Data
9373  9382        - Speed mode from Guid_Ext_Dpkg.Va3vertmde
9374  9383        - Active Speed Restriction Annunciation from Guid_Ext_Dpkg.Active_Speed_Restriction
9375  9384        -  when Io_Fg_Fm_Internal_Dpkg.Altitude_Hold_Mode_Activeis valid, Altitude Hold mode flag status from FMGC via th
               » e interface
9376  9385        - Final descent mode flag from FMGC armed or active status via the interfaces
9377  9386           Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Active.Data and
9378  9387           Io_Fg_Fm_Internal_Dpkg.Final_Descent_Mode_Armed.Data
9379  9388        - A/C configuration via Prf_Acstate_Pkg.Get_Ac_Config
9380  9389        - A/C airbrake extension indicator to zero airbrake
9381  9390        - Step climb & step descent active flags (Psstpclbact & Psstpdesact) are set from guidance.
9382  9391        -  when the Engine out status and the VG indicator that Green-Dot Speed is not latched,
9383  9392        then the flag indicating that VG is using latched Green-Dot descent speed is not set
9384  9393       - Guidance provided PFD display speed and its validity when the valid is true.
9385  9394        PERF_SDD_0409 (PERF_SRD_6057, PERF_SRD_10166_INT, PERF_SRD_10167_INT, PERF_SRD_10168_INT, PERF_SRD_10198_INT,
9386  9395        PERF_SRD_10200_INT, PERF_SRD_10199_INT,  PERF_SRD_1490_INT, PERF_SRD_12370_INT, PERF_SRD_12409_INT,
9387  9396        PERF_SRD_1358,PERF_SRD_23387, PERF_SRD_23965, PERF_SRD_24100, PERF_SRD_6005_INT)
9388  9397
9389  9398
9390  9399  INPUT                                                                                               VALUE
9391  9400  ----------------------------------------------------------------------------------------------- -----------------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
              » --------
  9392   9401 Perf_Background_Dpkg.Flight_Plan_Type                                                      Indep_Fro
              » m_Active
  9393   9402 Perf_Background_Dpkg.Pcactorsec                                                                    S
              » econdary
  9394   9403 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
              »     True
  9395   9404 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Valid
              »     True
  9396   9405 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_LRC_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
              »     32.20
  9397   9406 Perf_To_Cdck_Dpkg:body.Data_Storage.WI_EO_GDOT_Maximum_Alt(Perf_Background_Dpkg.Pcactorsec).Data
              »     32.30
  9398   9407 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data
              »      0.0
  9399   9408 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid
              »     False
  9400   9409 Guid_Spds_Dpkg.Pfd_Display_Speed.Valid
              »     True
  9401   9410 Guid_Spds_Dpkg.Pfd_Display_Speed.Data
              »      1.0
  9402   9411 Perf_Background_Dpkg.Pfd_Display_Speed.Valid
              »     False
  9403   9412 Perf_Background_Dpkg.Pfd_Display_Speed.Data
              »      0.0
  9404   9413 Perf_Background_Dpkg.Pcgmttime.Hour
              »        0
  9405   9414 Perf_Background_Dpkg.Pcgmttime.Minute
              »        0
  9406   9415 Perf_Background_Dpkg.Pcgmttime.Second
              »        0
  9407   9416 Perf_Background_Dpkg.Psairborne
              »     True
  9408   9417 Perf_Background_Dpkg.Ac_Crosstrack_Error
              »      1.0
  9409   9418 Perf_Background_Dpkg.Psautolat
              »     True
  9410   9419 Perf_Background_Dpkg.Psengout
              »     True
  9411   9420 Perf_Background_Dpkg.Psenginesoff
              »     True
  9412   9421 Perf_Background_Dpkg.Psvgonpath
              »     True
  9413   9422 Perf_Integration_DPkg.Pcairbrakes
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »    Fullab
 9414    9423 Perf_Background_Dpkg.Psstpclbact
                  »       False
 9415    9424 Perf_Background_Dpkg.Psstpdesact
                  »       False
 9416    9425 Perf_Background_Dpkg.Pcmanspd.Speed.CAS
                  »       1.0
 9417    9426 Perf_Background_Dpkg.Pcmanspd.CASVALID
                  »       True
 9418    9427 Perf_Background_Dpkg.Pcmanspd.Speed.MACH
                  »       1.0
 9419    9428 Perf_Background_Dpkg.Pcmanspd.MACHVALID
                  »       True
 9420    9429 Perf_Background_Dpkg.Pccuraltcstr.Data
                  »       1.0
 9421    9430 Perf_Background_Dpkg.Pccuraltcstr.Valid
                  »       True
 9422    9431 Perf_Background_Dpkg.Pccuraltcstr.Legidx
                  »       1
 9423    9432 Perf_Background_Dpkg.Pccuraltcstr.Lgidval
                  »       True
 9424    9433 Perf_Background_Dpkg.Pccuraltcstr.Usevga
                  »       True
 9425    9434 Perf_Background_Dpkg.Pccuraltcstr.Vgaidx
                  »       1
 9426    9435 Perf_Background_Dpkg.Pcprebcalt.Data
                  »       1.0
 9427    9436 Perf_Background_Dpkg.Pcprebcalt.Valid
                  »       True
 9428    9437 Perf_Background_Dpkg.Pc3rdalt.Data
                  »       1.0
 9429    9438 Perf_Background_Dpkg.Pc3rdalt.Valid
                  »       True
 9430    9439 Perf_Background_Dpkg.Pslcautoctl
                  »       True
 9431    9440 Perf_Background_Dpkg.Vert_Auto_Mode
                  »       True
 9432    9441 Perf_Background_Dpkg.Early_Descent_From_Level
                  »       False
 9433    9442 Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment
                  »       False
 9434    9443 Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol
                  »       1.0
 9435    9444 Perf_Background_Dpkg.Psinertvs
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                  »        0.0
  9436 │ 9445 Perf_Background_Dpkg.Speed_Annunciation.Cas
                  »        0.0
  9437 │ 9446 Perf_Background_Dpkg.Speed_Annunciation.Alt
                  »        0.0
  9438 │ 9447 Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type                                    Vg_Ext_Tpkg
                  » .Invalid
  9439 │ 9448 Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                                                   "
                  »            "
  9440 │ 9449 Perf_Background_Dpkg.Altholdmode
                  »        False
  9441 │ 9450 Perf_Background_Dpkg.Psgrndotdes
                  »        False
  9442 │ 9451 Perf_Background_Dpkg.Vman_Fe.Data
                  »        1.0
  9443 │ 9452 Perf_Background_Dpkg.Vman_Fe.Valid
                  »        True
  9444 │ 9453 Perf_Background_Dpkg.Pcspeedmode                                                         Perf_Ext_Tpk
                  » g.Vmecon
  9445 │ 9454 Guid_Ext_Dpkg.Galxtk
                  »        2.49
  9446 │ 9455 Fmcs_Partition_Data_Pkg.Ops_Time.Hour
                  »          2
  9447 │ 9456 Fmcs_Partition_Data_Pkg.Ops_Time.Minute
                  »          2
  9448 │ 9457 Fmcs_Partition_Data_Pkg.Ops_Time.Second
                  »          2
  9449 │ 9458 Guid_Ext_Dpkg.Active_Speed_Restriction.Cas
                  »        330.0
  9450 │ 9459 Guid_Ext_Dpkg.Active_Speed_Restriction.Alt
                  »    15500.0
  9451 │ 9460 Guid_Ext_Dpkg.Active_Speed_Restriction.Speed_Lim_Type                                 Vg_Ext_Tpkg.Des
                  » _Spd_Lim
  9452 │ 9461 Guid_Ext_Dpkg.Active_Speed_Restriction.Wpt_Ident                                                    "
                  » ABCDEFG"
  9453 │ 9462 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.io_frame_1_120_blk0_validity_rec.FRAME_120_Disc_Word_3
                  »        true
  9454 │ 9463 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_3.Altitude_Hold_Mode_Active
                  »        true
  9455 │ 9464 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_1_Inboard
                  »        True
  9456 │ 9465 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5
                  »        True
  9457 │ 9466 Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_2_Inboard
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» True	
9458	9467	Guid_Checkpoint_Resynch_Dpkg.Vc3Cstrduald.Isbdatablock.Cstraltlim	
		» True	
9459	9468	Vertical_Guidance_Fast_Dpkg.Aircraft_Below_Navdb_Imposed_Segment_Fgnd	
		» True	
9460	9469	Vertical_Guidance_Fast_Dpkg.Non_Level_Path_Alt_Error_Capture_Tolerance	
		» 2.0	
9461	9470	Guid_Ext_Dpkg.Va3Vertmde	Perf_Ext_Tpk
		» g.Vmnone	
9462	9471	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Clbact	
		» True	
9463	9472	Guid_Checkpoint_Resynch_Dpkg.Vc3stepflags.Desact	
		» True	
9464	9473		
9465	9474		
9466	9475	define Perf_Get_State_Pkg_Get_State_called := False	
9467	9476	define Fpln_Ext_Dpkg_Get_Flight_Phase_called := False	
9468	9477	define Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called := False	
9469	9478	define Fpln_Ext_Dpkg_Get_Cruise_Alt_called := False	
9470	9479	define Prf_Acstate_Pkg_Get_Ac_Config_called := False	
9471	9480	define Perf_Get_State_Pkg_Get_State_called := True	
9472	9481	define Fpln_Ext_Dpkg_Get_Flight_Phase_called := True	
9473	9482	define Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called := True	
9474	9483	define Fpln_Ext_Dpkg_Get_Cruise_Alt_called := True	
9475	9484	define Prf_Acstate_Pkg_Get_Ac_Config_called := True	
9476	9485		
9477	9486		
9478	9487	INPUT	VALUE
9479	9488	--- ------------------	
		» --------	
9480	9489	Eng_Healthy1_Inboard	
		» False	
9481	9490	Eng_Healthy1_Outboard	
		» False	
9482	9491	Eng_Healthy2_Inboard	
		» False	
9483	9492	Eng_Healthy2_Outboard	
		» False	
9484	9493	Tla_Ecu1_Inboard.Data	
		» 0.0	
9485	9494	Tla_Ecu1_Inboard.Valid	
		» False	
9486	9495	Tla_Ecu1_Outboard.Data	
		» 1.0	

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9487    9496 Tla_Ecu1_Outboard.Valid
             »        True
9488    9497 Tla_Ecu2_Inboard.Data
             »         0.0
9489    9498 Tla_Ecu2_Inboard.Valid
             »        False
9490    9499 Tla_Ecu2_Outboard.Data
             »         1.0
9491    9500 Tla_Ecu2_Outboard.Valid
             »        True
9492    9501
9493    9502
9494    9503 OUTPUT                                                       EXPECTED              TOLERANCE           ACTUAL
             »          P/F
9495    9504 -------------------------------------------------------  ----------------------------  -------------  ------------------
             » --------  ----
9496    9505 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Data            0.0           0.001                 0.0
             » 0000E+00  P
9497    9506 Perf_Background_Dpkg.Next_Applicable_Cruise_Altitude.Valid          False          (N/A)
             »    FALSE  P
9498    9507 Eng_Healthy1_Inboard                                               False          (N/A)
             »    FALSE  P
9499    9508 Eng_Healthy1_Outboard                                              False          (N/A)
             »    FALSE  P
9500    9509 Eng_Healthy2_Inboard                                               False          (N/A)
             »    FALSE  P
9501    9510 Eng_Healthy2_Outboard                                              False          (N/A)
             »    FALSE  P
9502    9511 Tla_Ecu1_Inboard.Data                                               0.0           0.001                 0.0
             » 0000E+00  P
9503    9512 Tla_Ecu1_Inboard.Valid                                             False          (N/A)
             »    FALSE  P
9504    9513 Tla_Ecu1_Outboard.Data                                              1.0           0.001                 1.0
             » 0000E+00  P
9505    9514 Tla_Ecu1_Outboard.Valid                                            True           (N/A)
             »     TRUE  P
9506    9515 Tla_Ecu2_Inboard.Data                                               0.0           0.001                 0.0
             » 0000E+00  P
9507    9516 Tla_Ecu2_Inboard.Valid                                             False          (N/A)
             »    FALSE  P
9508    9517 Tla_Ecu2_Outboard.Data                                              1.0           0.001                 1.0
             » 0000E+00  P
9509    9518 Tla_Ecu2_Outboard.Valid                                            True           (N/A)
             »     TRUE  P
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 9510 | 9519 | Fpln_Ext_Dpkg_Get_Cruise_Alt_called                               False         (N/A)
      |      | »      FALSE  P
 9511 | 9520 | Perf_Background_Dpkg.Psairborne                                   True          (N/A)
      |      | »      TRUE   P
 9512 | 9521 | Perf_Background_Dpkg.Ac_Crosstrack_Error                          1.0           0.001                 1.0
      |      | » 0000E+00  P
 9513 | 9522 | Perf_Background_Dpkg.Pccuraltcstr.Valid                           True          (N/A)
      |      | »      TRUE   P
 9514 | 9523 | Perf_Background_Dpkg.Pcprebcalt.Valid                             True          (N/A)
      |      | »      TRUE   P
 9515 | 9524 | Perf_Integration_DPkg.Pcairbrakes                                 Fullab        (N/A)
      |      | »    FULLAB   P
 9516 | 9525 | Perf_Background_Dpkg.Psengout                                     True          (N/A)
      |      | »      TRUE   P
 9517 | 9526 |
 9518 | 9527 |
 9519 | 9528 |  define Fpln_Ext_Dpkg_Get_Cruise_Alt_called := True
 9520 | 9529 |
 9521 | 9530 |
 9522 | 9531 | OUTPUT                                                   EXPECTED              TOLERANCE            ACTUAL
      |      | »            P/F
 9523 | 9532 | -------------------------------------------------------  ----------------------------  -------------  ------------------
      |      | » --------  ----
 9524 | 9533 | Perf_Background_Dpkg.Pfd_Display_Speed.Valid                      False         (N/A)
      |      | »      FALSE  P
 9525 | 9534 | Perf_Background_Dpkg.Pfd_Display_Speed.Data                       0.0           0.001                 0.0
      |      | » 0000E+00  P
 9526 | 9535 | Perf_Get_State_Pkg_Get_State_called                              False         (N/A)
      |      | »      FALSE  P
 9527 | 9536 | Fpln_Ext_Dpkg_Get_Flight_Phase_called                            False         (N/A)
      |      | »      FALSE  P
 9528 | 9537 | Prf_Aeroeng_Pkg_Get_Num_Eng_Out_called                           False         (N/A)
      |      | »      FALSE  P
 9529 | 9538 | Prf_Acstate_Pkg_Get_Ac_Config_called                             False         (N/A)
      |      | »      FALSE  P
 9530 | 9539 | Perf_Background_Dpkg.Pcgmttime.Hour                               0             (N/A)
      |      | »        0  P
 9531 | 9540 | Perf_Background_Dpkg.Pcgmttime.Minute                             0             (N/A)
      |      | »        0  P
 9532 | 9541 | Perf_Background_Dpkg.Pcgmttime.Second                             0             (N/A)
      |      | »        0  P
 9533 | 9542 | Perf_Background_Dpkg.Vman_Fe.Data                                 1.0           0.001                 1.0
      |      | » 0000E+00  P
 9534 | 9543 | Perf_Background_Dpkg.Vman_Fe.Valid                                True          (N/A)
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »       TRUE   P
 9535    9544 | Perf_Background_Dpkg.Psautolat                                               True           (N/A)
                    »       TRUE   P
 9536    9545 | Perf_Background_Dpkg.Psenginesoff                                            True           (N/A)
                    »       TRUE   P
 9537    9546 | Perf_Background_Dpkg.Pc3rdalt.Data                                           1.0            0.001              1.0
                    » 0000E+00   P
 9538    9547 | Perf_Background_Dpkg.Pc3rdalt.Valid                                          True           (N/A)
                    »       TRUE   P
 9539    9548 | Perf_Background_Dpkg.Pslcautoctl                                             True           (N/A)
                    »       TRUE   P
 9540    9549 | Perf_Background_Dpkg.Vert_Auto_Mode                                          True           (N/A)
                    »       TRUE   P
 9541    9550 | Perf_Background_Dpkg.Pccuraltcstr.Data                                       1.0            0.001              1.0
                    » 0000E+00   P
 9542    9551 | Perf_Background_Dpkg.Pccuraltcstr.Legidx                                     1              (N/A)
                    »        1   P
 9543    9552 | Perf_Background_Dpkg.Pccuraltcstr.Lgidval                                    True           (N/A)
                    »       TRUE   P
 9544    9553 | Perf_Background_Dpkg.Pccuraltcstr.Usevga                                     True           (N/A)
                    »       TRUE   P
 9545    9554 | Perf_Background_Dpkg.Pccuraltcstr.Vgaidx                                     1              (N/A)
                    »        1   P
 9546    9555 | Perf_Background_Dpkg.Pcprebcalt.Data                                         1.0            0.001              1.0
                    » 0000E+00   P
 9547    9556 | Perf_Background_Dpkg.Early_Descent_From_Level                               False          (N/A)
                    »       FALSE   P
 9548    9557 | Perf_Background_Dpkg.Below_Path_Pred.Below_Navdb_Imposed_Segment            False          (N/A)
                    »       FALSE   P
 9549    9558 | Perf_Background_Dpkg.Below_Path_Pred.VG_Path_Capture_Tol                     1.0            0.001              1.0
                    » 0000E+00   P
 9550    9559 | Perf_Background_Dpkg.Psvgonpath                                             True           (N/A)
                    »       TRUE   P
 9551    9560 | Perf_Background_Dpkg.Psinertvs                                              0.0            0.001              0.0
                    » 0000E+00   P
 9552    9561 | Perf_Background_Dpkg.Pcspeedmode                        Perf_Ext_Tpkg.Vmecon               (N/A)
                    »   VMECON   P
 9553    9562 | Perf_Background_Dpkg.Speed_Annunciation.Cas                                 0.0            0.001              0.0
                    » 0000E+00   P
 9554    9563 | Perf_Background_Dpkg.Speed_Annunciation.Alt                                 0.0            0.001              0.0
                    » 0000E+00   P
 9555    9564 | Perf_Background_Dpkg.Speed_Annunciation.Speed_Lim_Type   Vg_Ext_Tpkg.Invalid              (N/A)
                    »   INVALID   P
 9556    9565 | Perf_Background_Dpkg.Speed_Annunciation.Wpt_Ident                          "      "        (N/A)              "
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
                    »          "   P
 9557   9566 | Perf_Background_Dpkg.Altholdmode                                                      False          (N/A)
                    »      FALSE  P
 9558   9567 | Perf_Background_Dpkg.Psstpclbact                                                      False          (N/A)
                    »      FALSE  P
 9559   9568 | Perf_Background_Dpkg.Psstpdesact                                                      False          (N/A)
                    »      FALSE  P
 9560   9569 | Perf_Background_Dpkg.Psgrndotdes                                                      False          (N/A)
                    »      FALSE  P
 9561   9570 |
 9562   9571 |
 9563   9572 | ====> All 58 Comparisons Passed <====
 9564   9573 |
 9565   9574 |
 9566   9575 | TESTID: 85
 9567   9576 |
 9568   9577 | if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
 9569   9578 | Approach, then the Optimum Descent speeds shall be set as follows:
 9570   9579 | if the following are true:
 9571   9580 |   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
 9572   9581 |     - The A/C is currently in a deceleration, and either:
 9573   9582 |       - The predictions count is less than or equal to one, or
 9574   9583 |       - The current working flight plan is Active and the difference between the current prediction sequence
 9575   9584 |         counter and starting prediction sequence counter is less than or equal to 2, or
 9576   9585 |       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
 9577   9586 |         being processed is Current Mode predictions(Normal or High Priority) ,or
 9578   9587 |       - First Preds After Insert Temporary indication is True;
 9579   9588 |     - The A/C is not in Auto Lateral mode,
 9580   9589 |     - Approach Speeds have been latched.
 9581   9590 | then,
 9582   9591 |   Optimum Descent CAS is set to the VG Partially-Limited CAS
 9583   9592 | otherwise,
 9584   9593 |   Optimum Descent CAS is set to current VG CAS target.
 9585   9594 | -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
 9586   9595 | -- VG Partially-Limited CAS is non-zero.
 9587   9596 | -- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds indicatio
                    » n
 9588   9597 | -- is True and the itinerary being processed is Current Mode predictions(Normal)
 9589   9598 | -- Optimum Descent CAS is set to the VG Partially-Limited CAS
 9590   9599 |
 9591   9600 |    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
 9592   9601 |
 9593   9602 |    SUPPORTING REQUIREMENTS : N/A
 9594   9603 |
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9595  9604
9596  9605  INPUT                                                                                          VALUE
9597  9606  --------------------------------------------------------------------------------  -----------------
            » --------
9598  9607  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
            »        0.0
9599  9608  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
            »   Descent
9600  9609  Perf_Background_Dpkg.Pcfltphase
            »   Descent
9601  9610  Perf_Background_Dpkg.Pcactorsec
            »    Active
9602  9611  Guid_Spds_Dpkg.Vc3prtlimcas
            »        5.0
9603  9612  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
            »       True
9604  9613  Perf_Background_Dpkg.Psautolat
            »       True
9605  9614  Guid_Ext_Dpkg.Gcxxlatautoc
            »       True
9606  9615  Perf_Background_Dpkg.Psappspdlat
            »      False
9607  9616  Perf_Background_Dpkg.Pcpredcount(Active)
            »        3
9608  9617  Perf_Dpkg.Psfrstactprd
            »       True
9609  9618  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
            »      False
9610  9619  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
            »      345.0
9611  9620  Perf_Background_Dpkg.Pcitin.Itinerary                                                      Current_Mo
            » de_Preds
9612  9621
9613  9622
9614  9623  OUTPUT                                                EXPECTED            TOLERANCE            ACTUAL
            »         P/F
9615  9624  ----------------------------------------------------  ---------------------------  -------------  -----------------
            » --------  ----
9616  9625  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                     5.0        0.001               5.0
            » 0000E+00  P
9617  9626
9618  9627
9619  9628  ====> All 1 Comparisons Passed <====
9620  9629
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9621  9630
9622  9631 TESTID: 86
9623  9632
9624  9633 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
9625  9634 Approach, then the Optimum Descent speeds shall be set as follows:
9626  9635 if the following are true:
9627  9636   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
9628  9637     - The A/C is currently in a deceleration, and either:
9629  9638       - The predictions count is less than or equal to one, or
9630  9639       - The current working flight plan is Active and the difference between the current prediction sequence
9631  9640         counter and starting prediction sequence counter is less than or equal to 2, or
9632  9641       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9633  9642         being processed is Current Mode predictions(Normal or High Priority) ,or
9634  9643       - First Preds After Insert Temporary indication is True;
9635  9644     - The A/C is not in Auto Lateral mode,
9636  9645     - Approach Speeds have been latched.
9637  9646 then,
9638  9647   Optimum Descent CAS is set to the VG Partially-Limited CAS
9639  9648 otherwise,
9640  9649   Optimum Descent CAS is set to current VG CAS target.
9641  9650 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9642  9651 -- VG Partially-Limited CAS is non-zero.
9643  9652 -- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds indicatio
           » n
9644  9653 -- is True and the itinerary being processed is Current Mode predictions(High Priority)
9645  9654 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
9646  9655
9647  9656    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9648  9657
9649  9658    SUPPORTING REQUIREMENTS : N/A
9650  9659
9651  9660
9652  9661 INPUT                                                                                              VALUE
9653  9662 ----------------------------------------------------------------------------------------------- ------------------
           » --------
9654  9663 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
           »       0.0
9655  9664 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           » Descent
9656  9665 Perf_Background_Dpkg.Pcfltphase
           » Descent
9657  9666 Perf_Background_Dpkg.Pcactorsec
           »    Active
9658  9667 Guid_Spds_Dpkg.Vc3prtlimcas
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» 5.0
9659	9668	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
		» True
9660	9669	Perf_Background_Dpkg.Psautolat
		» True
9661	9670	Guid_Ext_Dpkg.Gcxxlatautoc
		» True
9662	9671	Perf_Background_Dpkg.Psappspdlat
		» False
9663	9672	Perf_Background_Dpkg.Pcpredcount(Active)
		» 3
9664	9673	Perf_Dpkg.Psfrstactprd
		» True
9665	9674	Perf_Dpkg.Insrt_Tmpy_Frst_Preds
		» False
9666	9675	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
		» 345.0
9667	9676	Perf_Background_Dpkg.Pcitin.Itinerary Current_Mod
		» e_Hi_Pri
9668	9677	
9669	9678	
9670	9679	OUTPUT EXPECTED TOLERANCE ACTUAL
		» P/F
9671	9680	-- ------------------------------ ------------- ------------------
		» -------- ----
9672	9681	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas 5.0 0.001 5.0
		» 0000E+00 P
9673	9682	
9674	9683	
9675	9684	====> All 1 Comparisons Passed <====
9676	9685	
9677	9686	
9678	9687	TESTID: 87
9679	9688	
9680	9689	if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
9681	9690	Approach, then the Optimum Descent speeds shall be set as follows:
9682	9691	if the following are true:
9683	9692	- VG Partially-Limited CAS is non-zero, and Any of the following are true:
9684	9693	- The A/C is currently in a deceleration, and either:
9685	9694	- The predictions count is less than or equal to one, or
9686	9695	- The current working flight plan is Active and the difference between the current prediction sequence
9687	9696	counter and starting prediction sequence counter is less than or equal to 2, or
9688	9697	- The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9689	9698	being processed is Current Mode predictions(Normal or High Priority) ,or

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

9690	9699	- First Preds After Insert Temporary indication is True;
9691	9700	- The A/C is not in Auto Lateral mode,
9692	9701	- Approach Speeds have been latched.
9693	9702	then,
9694	9703	Optimum Descent CAS is set to the VG Partially-Limited CAS
9695	9704	otherwise,
9696	9705	Optimum Descent CAS is set to current VG CAS target.
9697	9706	-- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9698	9707	-- VG Partially-Limited CAS is non-zero.
9699	9708	-- The A/C is not currently in a deceleration and First Preds After Insert Temporary indication is True.
9700	9709	-- Optimum Descent CAS is set to current VG CAS target.
9701	9710	
9702	9711	REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9703	9712	
9704	9713	SUPPORTING REQUIREMENTS : N/A
9705	9714	
9706	9715	
9707	9716	INPUT VALUE
9708	9717	--- -----------------
		» --------
9709	9718	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
		» 0.0
9710	9719	CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
		» Descent
9711	9720	Perf_Background_Dpkg.Pcfltphase
		» Descent
9712	9721	Perf_Background_Dpkg.Pcactorsec
		» Active
9713	9722	Guid_Spds_Dpkg.Vc3prtlimcas
		» 5.0
9714	9723	Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
		» False
9715	9724	Perf_Background_Dpkg.Psautolat
		» True
9716	9725	Guid_Ext_Dpkg.Gcxxlatautoc
		» True
9717	9726	Perf_Background_Dpkg.Psappspdlat
		» False
9718	9727	Perf_Background_Dpkg.Pcpredcount(Active)
		» 3
9719	9728	Perf_Dpkg.Psfrstactprd
		» False
9720	9729	Perf_Dpkg.Insrt_Tmpy_Frst_Preds
		» True

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9721    9730  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »      345.0
9722    9731
9723    9732
9724    9733  OUTPUT                                                   EXPECTED                    TOLERANCE         ACTUAL
              »          P/F
9725    9734  ------------------------------------------------------  ----------------------------  -------------  -------------------
              » --------  ----
9726    9735  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                    345.0                    0.001                  3.4
              » 5000E+02  P
9727    9736
9728    9737
9729    9738  ====> All 1 Comparisons Passed <====
9730    9739
9731    9740
9732    9741  TESTID: 88
9733    9742
9734    9743  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
9735    9744  Approach, then the Optimum Descent speeds shall be set as follows:
9736    9745  if the following are true:
9737    9746    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
9738    9747      - The A/C is currently in a deceleration, and either:
9739    9748        - The predictions count is less than or equal to one, or
9740    9749        - The current working flight plan is Active and the difference between the current prediction sequence
9741    9750          counter and starting prediction sequence counter is less than or equal to 2, or
9742    9751        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9743    9752          being processed is Current Mode predictions(Normal or High Priority) ,or
9744    9753        - First Preds After Insert Temporary indication is True;
9745    9754      - The A/C is not in Auto Lateral mode,
9746    9755      - Approach Speeds have been latched.
9747    9756  then,
9748    9757    Optimum Descent CAS is set to the VG Partially-Limited CAS
9749    9758  otherwise,
9750    9759    Optimum Descent CAS is set to current VG CAS target.
9751    9760  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9752    9761  -- VG Partially-Limited CAS is non-zero.
9753    9762  -- The A/C is currently in a deceleration and predictions count is less than one.
9754    9763  -- Optimum Descent CAS is set to the VG Partially-Limited CAS
9755    9764
9756    9765      REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9757    9766
9758    9767      SUPPORTING REQUIREMENTS : N/A
9759    9768
9760    9769
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9761| 9770|INPUT                                                                                            VALUE
9762| 9771|------------------------------------------------------------------------------------  ------------------
     |     |» --------
9763| 9772|Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
     |     |»        0.0
9764| 9773|CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     |     |»  Descent
9765| 9774|Perf_Background_Dpkg.Pcfltphase
     |     |»  Descent
9766| 9775|Perf_Background_Dpkg.Pcactorsec
     |     |»    Active
9767| 9776|Guid_Spds_Dpkg.Vc3prtlimcas
     |     |»        5.0
9768| 9777|Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
     |     |»      True
9769| 9778|Perf_Background_Dpkg.Psautolat
     |     |»      True
9770| 9779|Guid_Ext_Dpkg.Gcxxlatautoc
     |     |»      True
9771| 9780|Perf_Background_Dpkg.Psappspdlat
     |     |»     False
9772| 9781|Perf_Background_Dpkg.Pcpredcount(Active)
     |     |»        0
9773| 9782|Perf_Dpkg.Psfrstactprd
     |     |»     False
9774| 9783|Perf_Dpkg.Insrt_Tmpy_Frst_Preds
     |     |»     False
9775| 9784|Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
     |     |»     345.0
9776| 9785|
9777| 9786|
9778| 9787|OUTPUT                                                        EXPECTED            TOLERANCE           ACTUAL
     |     |»            P/F
9779| 9788|------------------------------------------------  ------------------------------  ------------  ------------------
     |     |» --------  ----
9780| 9789|Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                        5.0            0.001              5.0
     |     |» 0000E+00  P
9781| 9790|
9782| 9791|
9783| 9792|====> All 1 Comparisons Passed <====
9784| 9793|
9785| 9794|
9786| 9795|TESTID: 89
9787| 9796|
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9788   9797  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
9789   9798  Approach, then the Optimum Descent speeds shall be set as follows:
9790   9799  if the following are true:
9791   9800    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
9792   9801      - The A/C is currently in a deceleration, and either:
9793   9802        - The predictions count is less than or equal to one, or
9794   9803        - The current working flight plan is Active and the difference between the current prediction sequence
9795   9804          counter and starting prediction sequence counter is less than or equal to 2, or
9796   9805        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9797   9806          being processed is Current Mode predictions(Normal or High Priority) ,or
9798   9807        - First Preds After Insert Temporary indication is True;
9799   9808      - The A/C is not in Auto Lateral mode,
9800   9809      - Approach Speeds have been latched.
9801   9810  then,
9802   9811    Optimum Descent CAS is set to the VG Partially-Limited CAS
9803   9812  otherwise,
9804   9813    Optimum Descent CAS is set to current VG CAS target.
9805   9814  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9806   9815  -- VG Partially-Limited CAS is non-zero.
9807   9816  -- The A/C is currently in a deceleration and predictions count is greater than one.
9808   9817  -- Optimum Descent CAS is set to current VG CAS target.
9809   9818
9810   9819     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9811   9820
9812   9821     SUPPORTING REQUIREMENTS : N/A
9813   9822
9814   9823
9815   9824  INPUT                                                                                          VALUE
9816   9825  ------------------------------------------------------------------------------------------  ------------------
             » --------
9817   9826  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »        0.0
9818   9827  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »  Descent
9819   9828  Perf_Background_Dpkg.Pcfltphase
             »  Descent
9820   9829  Perf_Background_Dpkg.Pcactorsec
             »    Active
9821   9830  Guid_Spds_Dpkg.Vc3prtlimcas
             »        5.0
9822   9831  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
             »        True
9823   9832  Perf_Background_Dpkg.Psautolat
             »        True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9824   9833  Guid_Ext_Dpkg.Gcxxlatautoc
             »      True
9825   9834  Perf_Background_Dpkg.Psappspdlat
             »      False
9826   9835  Perf_Background_Dpkg.Pcpredcount(Active)
             »        3
9827   9836  Perf_Dpkg.Psfrstactprd
             »      False
9828   9837  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
             »      False
9829   9838  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             »      345.0
9830   9839
9831   9840
9832   9841  OUTPUT                                                         EXPECTED                TOLERANCE              ACTUAL
             »            P/F
9833   9842  ------------------------------------------------------   ----------------------------  ------------   ------------------
             » --------  ----
9834   9843  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                        345.0                   0.001                   3.4
             » 5000E+02  P
9835   9844
9836   9845
9837   9846  ====> All 1 Comparisons Passed <====
9838   9847
9839   9848
9840   9849  TESTID: 90
9841   9850
9842   9851  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
9843   9852  Approach, then the Optimum Descent speeds shall be set as follows:
9844   9853  if the following are true:
9845   9854    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
9846   9855      - The A/C is currently in a deceleration, and either:
9847   9856        - The predictions count is less than or equal to one, or
9848   9857        - The current working flight plan is Active and the difference between the current prediction sequence
9849   9858          counter and starting prediction sequence counter is less than or equal to 2, or
9850   9859        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9851   9860          being processed is Current Mode predictions(Normal or High Priority) ,or
9852   9861        - First Preds After Insert Temporary indication is True;
9853   9862      - The A/C is not in Auto Lateral mode,
9854   9863      - Approach Speeds have been latched.
9855   9864  then,
9856   9865    Optimum Descent CAS is set to the VG Partially-Limited CAS
9857   9866  otherwise,
9858   9867    Optimum Descent CAS is set to current VG CAS target.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9859   9868  -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9860   9869  -- VG Partially-Limited CAS is non-zero.
9861   9870  -- The A/C is currently in a deceleration and The current working flight plan is Temporary and the difference
9862   9871  -- between the current prediction sequence counter and starting prediction sequence counter is equal to 2.
9863   9872  -- Optimum Descent CAS is set to current VG CAS target.
9864   9873
9865   9874     REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9866   9875
9867   9876     SUPPORTING REQUIREMENTS : N/A
9868   9877
9869   9878
9870   9879  INPUT                                                                                              VALUE
9871   9880  ------------------------------------------------------------------------------------------------  ------------------
              » --------
9872   9881  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »      0.0
9873   9882  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              »  Descent
9874   9883  Perf_Background_Dpkg.Pcfltphase
              »  Descent
9875   9884  Perf_Background_Dpkg.Pcactorsec                                                                       T
              » emporary
9876   9885  Guid_Spds_Dpkg.Vc3prtlimcas
              »      5.0
9877   9886  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
              »      True
9878   9887  Perf_Background_Dpkg.Psautolat
              »      True
9879   9888  Guid_Ext_Dpkg.Gcxxlatautoc
              »      True
9880   9889  Perf_Background_Dpkg.Psappspdlat
              »      False
9881   9890  Perf_Background_Dpkg.Pcpredcount(Temporary)
              »      3
9882   9891  Perf_Background_Dpkg.Active_Start_Predcount
              »      1
9883   9892  Perf_Dpkg.Psfrstactprd
              »      False
9884   9893  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
              »      False
9885   9894  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »    345.0
9886   9895
9887   9896
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

9888	9897	OUTPUT	EXPECTED	TOLERANCE	ACTUAL

```
 9888 | 9897 OUTPUT                                                  EXPECTED              TOLERANCE        ACTUAL
      |      »          P/F
 9889 | 9898 ------------------------------------------------------  -----------------------------  -------------  ------------------
      |      » --------  ----
 9890 | 9899 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                        345.0             0.001                     3.4
      |      » 5000E+02  P
 9891 | 9900
 9892 | 9901
 9893 | 9902 ====> All 1 Comparisons Passed <====
 9894 | 9903
 9895 | 9904
 9896 | 9905 TESTID: 91
 9897 | 9906
 9898 | 9907 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
 9899 | 9908 Approach, then the Optimum Descent speeds shall be set as follows:
 9900 | 9909 if the following are true:
 9901 | 9910   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
 9902 | 9911     - The A/C is currently in a deceleration, and either:
 9903 | 9912       - The predictions count is less than or equal to one, or
 9904 | 9913       - The current working flight plan is Active and the difference between the current prediction sequence
 9905 | 9914         counter and starting prediction sequence counter is less than or equal to 2, or
 9906 | 9915       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
 9907 | 9916         being processed is Current Mode predictions(Normal or High Priority) ,or
 9908 | 9917       - First Preds After Insert Temporary indication is True;
 9909 | 9918     - The A/C is not in Auto Lateral mode,
 9910 | 9919     - Approach Speeds have been latched.
 9911 | 9920 then,
 9912 | 9921   Optimum Descent CAS is set to the VG Partially-Limited CAS
 9913 | 9922 otherwise,
 9914 | 9923   Optimum Descent CAS is set to current VG CAS target.
 9915 | 9924 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
 9916 | 9925 -- VG Partially-Limited CAS is non-zero.
 9917 | 9926 -- The A/C is currently in a deceleration and The current working flight plan is Active and the difference
 9918 | 9927 -- between the current prediction sequence counter and starting prediction sequence counter is less than 2.
 9919 | 9928 -- Optimum Descent CAS is set to the VG Partially-Limited CAS
 9920 | 9929
 9921 | 9930    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
 9922 | 9931
 9923 | 9932    SUPPORTING REQUIREMENTS : N/A
 9924 | 9933
 9925 | 9934
 9926 | 9935 INPUT                                                                                              VALUE
 9927 | 9936 ----------------------------------------------------------------------------------------------  ------------------
      |      » --------
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9928   9937  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »        0.0
9929   9938  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »   Descent
9930   9939  Perf_Background_Dpkg.Pcfltphase
             »   Descent
9931   9940  Perf_Background_Dpkg.Pcactorsec
             »    Active
9932   9941  Guid_Spds_Dpkg.Vc3prtlimcas
             »        5.0
9933   9942  Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
             »      True
9934   9943  Perf_Background_Dpkg.Psautolat
             »      True
9935   9944  Guid_Ext_Dpkg.Gcxxlatautoc
             »       True
9936   9945  Perf_Background_Dpkg.Psappspdlat
             »      False
9937   9946  Perf_Background_Dpkg.Pcpredcount(Active)
             »        3
9938   9947  Perf_Background_Dpkg.Active_Start_Predcount
             »        2
9939   9948  Perf_Dpkg.Psfrstactprd
             »      False
9940   9949  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
             »      False
9941   9950  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
             »      345.0
9942   9951
9943   9952
9944   9953  OUTPUT                                                    EXPECTED               TOLERANCE              ACTUAL
             »          P/F
9945   9954  ------------------------------------------------------  -----------------------------  -------------  ------------------
             » --------  ----
9946   9955  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                          5.0            0.001                5.0
             » 0000E+00  P
9947   9956
9948   9957
9949   9958  ====> All 1 Comparisons Passed <====
9950   9959
9951   9960
9952   9961  TESTID: 92
9953   9962
9954   9963  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
9955  9964 Approach, then the Optimum Descent speeds shall be set as follows:
9956  9965 if the following are true:
9957  9966   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
9958  9967     - The A/C is currently in a deceleration, and either:
9959  9968       - The predictions count is less than or equal to one, or
9960  9969       - The current working flight plan is Active and the difference between the current prediction sequence
9961  9970         counter and starting prediction sequence counter is less than or equal to 2, or
9962  9971       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
9963  9972         being processed is Current Mode predictions(Normal or High Priority) ,or
9964  9973       - First Preds After Insert Temporary indication is True;
9965  9974     - The A/C is not in Auto Lateral mode,
9966  9975     - Approach Speeds have been latched.
9967  9976 then,
9968  9977   Optimum Descent CAS is set to the VG Partially-Limited CAS
9969  9978 otherwise,
9970  9979   Optimum Descent CAS is set to current VG CAS target.
9971  9980 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
9972  9981 -- VG Partially-Limited CAS is non-zero.
9973  9982 -- The A/C is currently in a deceleration and The current working flight plan is Active and the difference
9974  9983 -- between the current prediction sequence counter and starting prediction sequence counter is greater than 2.
9975  9984 -- Optimum Descent CAS is set to current VG CAS target.
9976  9985
9977  9986    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
9978  9987
9979  9988    SUPPORTING REQUIREMENTS : N/A
9980  9989
9981  9990
9982  9991 INPUT                                                                                           VALUE
9983  9992 ---------------------------------------------------------------------------------  ------------------
           » --------
9984  9993 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
           »      0.0
9985  9994 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
           »  Descent
9986  9995 Perf_Background_Dpkg.Pcfltphase
           »  Descent
9987  9996 Perf_Background_Dpkg.Pcactorsec
           »    Active
9988  9997 Guid_Spds_Dpkg.Vc3prtlimcas
           »      5.0
9989  9998 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
           »      True
9990  9999 Perf_Background_Dpkg.Psautolat
           »      True
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
 9991  10000  Guid_Ext_Dpkg.Gcxxlatautoc
              »      True
 9992  10001  Perf_Background_Dpkg.Psappspdlat
              »      False
 9993  10002  Perf_Background_Dpkg.Pcpredcount(Active)
              »        3
 9994  10003  Perf_Background_Dpkg.Active_Start_Predcount
              »        0
 9995  10004  Perf_Dpkg.Psfrstactprd
              »      False
 9996  10005  Perf_Dpkg.Insrt_Tmpy_Frst_Preds
              »      False
 9997  10006  Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »      345.0
 9998  10007
 9999  10008
10000  10009  OUTPUT                                                          EXPECTED                TOLERANCE              ACTUAL
              »            P/F
10001  10010  ------------------------------------------------------  ------------------------------  -------------  ------------------
              » --------  ----
10002  10011  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                         345.0                 0.001                   3.4
              » 5000E+02  P
10003  10012
10004  10013
10005  10014  ====> All 1 Comparisons Passed <====
10006  10015
10007  10016
10008  10017  TESTID: 93
10009  10018
10010  10019  if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10011  10020  Approach, then the Optimum Descent speeds shall be set as follows:
10012  10021  if the following are true:
10013  10022    - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10014  10023      - The A/C is currently in a deceleration, and either:
10015  10024        - The predictions count is less than or equal to one, or
10016  10025        - The current working flight plan is Active and the difference between the current prediction sequence
10017  10026          counter and starting prediction sequence counter is less than or equal to 2, or
10018  10027        - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10019  10028          being processed is Current Mode predictions(Normal or High Priority) ,or
10020  10029        - First Preds After Insert Temporary indication is True;
10021  10030      - The A/C is not in Auto Lateral mode,
10022  10031      - Approach Speeds have been latched.
10023  10032  then,
10024  10033    Optimum Descent CAS is set to the VG Partially-Limited CAS
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10025   10034 otherwise,
10026   10035    Optimum Descent CAS is set to current VG CAS target.
10027   10036 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10028   10037 -- VG Partially-Limited CAS is non-zero.
10029   10038 -- The A/C is currently in a deceleration and current working flight plan is Temporary and First Tactical Preds
10030   10039 -- indication is True and the itinerary being processed is Current Mode predictions(Normal)
10031   10040 -- Optimum Descent CAS is set to current VG CAS target.
10032   10041
10033   10042    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10034   10043
10035   10044    SUPPORTING REQUIREMENTS : N/A
10036   10045
10037   10046
10038   10047 INPUT                                                                                                   VALUE
10039   10048 ------------------------------------------------------------------------------------------------ -----------------
              » --------
10040   10049 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
              »        0.0
10041   10050 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
              »    Descent
10042   10051 Perf_Background_Dpkg.Pcfltphase
              »    Descent
10043   10052 Perf_Background_Dpkg.Pcactorsec                                                                              T
              » emporary
10044   10053 Guid_Spds_Dpkg.Vc3prtlimcas
              »        5.0
10045   10054 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
              »       True
10046   10055 Perf_Background_Dpkg.Psautolat
              »       True
10047   10056 Guid_Ext_Dpkg.Gcxxlatautoc
              »       True
10048   10057 Perf_Background_Dpkg.Psappspdlat
              »      False
10049   10058 Perf_Background_Dpkg.Pcpredcount(Temporary)
              »        3
10050   10059 Perf_Dpkg.Psfrstactprd
              »       True
10051   10060 Perf_Dpkg.Insrt_Tmpy_Frst_Preds
              »      False
10052   10061 Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
              »      345.0
10053   10062 Perf_Background_Dpkg.Pcitin.Itinerary                                                              Current_Mo
              » de_Preds
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

10054	10063	
10055	10064	
10056	10065	OUTPUT EXPECTED TOLERANCE ACTUAL
		» P/F
10057	10066	--- -------------------------- ------------ -------------------
		» -------- ----
10058	10067	Perf_Background_Dpkg.Pcoptinitspd.Des.Cas 345.0 0.001 3.4
		» 5000E+02 P
10059	10068	
10060	10069	
10061	10070	====> All 1 Comparisons Passed <====
10062	10071	
10063	10072	
10064	10073	TESTID: 94
10065	10074	
10066	10075	if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10067	10076	Approach, then the Optimum Descent speeds shall be set as follows:
10068	10077	if the following are true:
10069	10078	- VG Partially-Limited CAS is non-zero, and Any of the following are true:
10070	10079	- The A/C is currently in a deceleration, and either:
10071	10080	- The predictions count is less than or equal to one, or
10072	10081	- The current working flight plan is Active and the difference between the current prediction sequence
10073	10082	counter and starting prediction sequence counter is less than or equal to 2, or
10074	10083	- The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10075	10084	being processed is Current Mode predictions(Normal or High Priority) ,or
10076	10085	- First Preds After Insert Temporary indication is True;
10077	10086	- The A/C is not in Auto Lateral mode,
10078	10087	- Approach Speeds have been latched.
10079	10088	then,
10080	10089	Optimum Descent CAS is set to the VG Partially-Limited CAS
10081	10090	otherwise,
10082	10091	Optimum Descent CAS is set to current VG CAS target.
10083	10092	-- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10084	10093	-- VG Partially-Limited CAS is non-zero.
10085	10094	-- The A/C is currently in a deceleration and current working flight plan is Active and First Tactical Preds
10086	10095	-- indication is False and the itinerary being processed is Current Mode predictions(Normal)
10087	10096	-- Optimum Descent CAS is set to current VG CAS target.
10088	10097	
10089	10098	REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10090	10099	
10091	10100	SUPPORTING REQUIREMENTS : N/A
10092	10101	
10093	10102	
10094	10103	INPUT VALUE

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10095 | 10104 |---------------------------------------------------------------------------------- -----------------
      |       |» --------
10096 | 10105 |Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
      |       |»        0.0
10097 | 10106 |CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
      |       |»  Descent
10098 | 10107 |Perf_Background_Dpkg.Pcfltphase
      |       |»  Descent
10099 | 10108 |Perf_Background_Dpkg.Pcactorsec
      |       |»   Active
10100 | 10109 |Guid_Spds_Dpkg.Vc3prtlimcas
      |       |»        5.0
10101 | 10110 |Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
      |       |»       True
10102 | 10111 |Perf_Background_Dpkg.Psautolat
      |       |»       True
10103 | 10112 |Guid_Ext_Dpkg.Gcxxlatautoc
      |       |»       True
10104 | 10113 |Perf_Background_Dpkg.Psappspdlat
      |       |»      False
10105 | 10114 |Perf_Background_Dpkg.Pcpredcount(Active)
      |       |»          3
10106 | 10115 |Perf_Dpkg.Psfrstactprd
      |       |»      False
10107 | 10116 |Perf_Dpkg.Insrt_Tmpy_Frst_Preds
      |       |»      False
10108 | 10117 |Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
      |       |»      345.0
10109 | 10118 |Perf_Background_Dpkg.Pcitin.Itinerary                                              Current_Mo
      |       |» de_Preds
10110 | 10119 |
10111 | 10120 |
10112 | 10121 |OUTPUT                                             EXPECTED            TOLERANCE           ACTUAL
      |       |»             P/F
10113 | 10122 |-------------------------------------------------- ---------------------------- ------------- ------------------
      |       |» --------  ----
10114 | 10123 |Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                          345.0         0.001              3.4
      |       |» 5000E+02  P
10115 | 10124 |
10116 | 10125 |
10117 | 10126 |====> All 1 Comparisons Passed <====
10118 | 10127 |
10119 | 10128 |
10120 | 10129 |TESTID: 95
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10121 10130
10122 10131 if the current VG CAS and Mach targets are valid, and the flight phase is Descent or
10123 10132 Approach, then the Optimum Descent speeds shall be set as follows:
10124 10133 if the following are true:
10125 10134   - VG Partially-Limited CAS is non-zero, and Any of the following are true:
10126 10135     - The A/C is currently in a deceleration, and either:
10127 10136       - The predictions count is less than or equal to one, or
10128 10137       - The current working flight plan is Active and the difference between the current prediction sequence
10129 10138         counter and starting prediction sequence counter is less than or equal to 2, or
10130 10139       - The current working flight plan is Active and First Tactical Preds indication is True and the itinerary
10131 10140         being processed is Current Mode predictions(Normal or High Priority) ,or
10132 10141       - First Preds After Insert Temporary indication is True;
10133 10142     - The A/C is not in Auto Lateral mode,
10134 10143     - Approach Speeds have been latched.
10135 10144 then,
10136 10145   Optimum Descent CAS is set to the VG Partially-Limited CAS
10137 10146 otherwise,
10138 10147   Optimum Descent CAS is set to current VG CAS target.
10139 10148 -- In this case, flight phase is Descent and current VG CAS and Mach targets are valid.
10140 10149 -- VG Partially-Limited CAS is non-zero.
10141 10150 -- The A/C is currently in a deceleration and First Preds After Insert Temporary indication is False.
10142 10151 -- Optimum Descent CAS is set to current VG CAS target.
10143 10152
10144 10153    REQUIREMENTS UNDER EVALUATION : PERF_SDD_2249_INT
10145 10154
10146 10155    SUPPORTING REQUIREMENTS : N/A
10147 10156
10148 10157
10149 10158 INPUT                                                                                           VALUE
10150 10159 -------------------------------------------------------------------------------------------  -----------------
             » --------
10151 10160 Perf_Background_Dpkg.Pcoptinitspd.Des.Cas
             »        0.0
10152 10161 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
             »   Descent
10153 10162 Perf_Background_Dpkg.Pcfltphase
             »   Descent
10154 10163 Perf_Background_Dpkg.Pcactorsec
             »     Active
10155 10164 Guid_Spds_Dpkg.Vc3prtlimcas
             »        5.0
10156 10165 Guid_Checkpoint_Resynch_Dpkg.Vc3spdchgtgt.Apply
             »       True
10157 10166 Perf_Background_Dpkg.Psautolat
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

		» True
10158	10167	Guid_Ext_Dpkg.Gcxxlatautoc
		» True
10159	10168	Perf_Background_Dpkg.Psappspdlat
		» False
10160	10169	Perf_Background_Dpkg.Pcpredcount(Active)
		» 3
10161	10170	Perf_Dpkg.Psfrstactprd
		» False
10162	10171	Perf_Dpkg.Insrt_Tmpy_Frst_Preds
		» False
10163	10172	Guid_Spds_Dpkg.Vc3Curspds.Cas.Data
		» 345.0
10164	10173	
10165	10174	

```
10166  10175  OUTPUT                                                    EXPECTED              TOLERANCE             ACTUAL
               »           P/F
10167  10176  --------------------------------------------------------  --------------------------  -------------  --------------------
               » --------  ----
10168  10177  Perf_Background_Dpkg.Pcoptinitspd.Des.Cas                                345.0                0.001                    3.4
               » 5000E+02   P
10169  10178
10170  10179
10171  10180  ====> All 1 Comparisons Passed <====
10172  10181
10173  10182
10174         Test End Time: Oct 15 13:23:54 2013
       10183  TESTID: 96
       10184
       10185  The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
               » t to true,
       10186  if all of the following conditions are satisfied:
       10187    - Level change auto control mode is engaged.
       10188    - The descent path reference is set to Onpath.
       10189    - The current working flight plan is Active.
       10190  -- In this case,
       10191  -- Level change auto control mode is engaged.
       10192  -- The descent path reference is set to Onpath.
       10193  -- The current working flight plan is Active.
       10194
       10195      REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
       10196
       10197      SUPPORTING REQUIREMENTS : N/A
       10198
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10199
10200 INPUT                                                                                      VALUE
10201 --------------------------------------------------------------------------------  ------------------
    » --------
10202 Perf_Background_Dpkg.Flight_Plan_Type                                                          I
    » s_Active
10203 Guid_Ext_Dpkg.Va3lcautoctl
    »      True
10204 Perf_Background_Dpkg.Pcpathref
    »     Onpath
10205 Perf_Background_Dpkg.Pcactorsec
    »     Active
10206 Perf_Background_Dpkg.Psvgonpath
    »      False
10207 Guid_Ext_Dpkg.Va3pathref
    »     Onpath
10208 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
    »   Descent
10209
10210
10211 OUTPUT                                              EXPECTED              TOLERANCE            ACTUAL
    »            P/F
10212 ------------------------------------------------  ----------------------------  -------------  ------------------
    » --------  ----
10213 Perf_Background_Dpkg.Psvgonpath                                                True          (N/A)
    »     TRUE   P
10214
10215
10216 ====> All 1 Comparisons Passed <====
10217
10218
10219 TESTID: 97
10220
10221 The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
    » t to true,
10222 if all of the following conditions are satisfied:
10223   - Level change auto control mode is engaged.
10224   - The descent path reference is set to Onpath.
10225   - The current working flight plan is Active.
10226 -- In this case,
10227 -- Level change auto control mode is not engaged.
10228 -- The descent path reference is set to Onpath.
10229 -- The current working flight plan is Active.
10230
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10231        REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10232
10233        SUPPORTING REQUIREMENTS : N/A
10234
10235
10236  INPUT                                                                                              VALUE
10237  ------------------------------------------------------------------------------------------  ------------------
     » --------
10238  Perf_Background_Dpkg.Flight_Plan_Type                                                                 I
     » s_Active
10239  Guid_Ext_Dpkg.Va3lcautoctl
     »     False
10240  Perf_Background_Dpkg.Pcpathref
     »    Onpath
10241  Perf_Background_Dpkg.Pcactorsec
     »    Active
10242  Perf_Background_Dpkg.Psvgonpath
     »     True
10243  Guid_Ext_Dpkg.Va3pathref
     »    Onpath
10244  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
     »  Descent
10245
10246
10247  OUTPUT                                                   EXPECTED                 TOLERANCE              ACTUAL
     »          P/F
10248  -------------------------------------------------  ------------------------------  -------------  ------------------
     » --------  ----
10249  Perf_Background_Dpkg.Psvgonpath                                    False            (N/A)
     »    FALSE   P
10250
10251
10252  ====> All 1 Comparisons Passed <====
10253
10254
10255  TESTID: 98
10256
10257  The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
     » t to true,
10258  if all of the following conditions are satisfied:
10259    - Level change auto control mode is engaged.
10260    - The descent path reference is set to Onpath.
10261    - The current working flight plan is Active.
10262  -- In this case,
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10263 -- Level change auto control mode is engaged.
10264 -- The descent path reference is set to Nopath.
10265 -- The current working flight plan is Active.
10266
10267     REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10268
10269     SUPPORTING REQUIREMENTS : N/A
10270
10271
10272 INPUT                                                                          VALUE
10273 ------------------------------------------------------------------------------ ------------------
      » --------
10274 Perf_Background_Dpkg.Flight_Plan_Type                                                          I
      » s_Active
10275 Guid_Ext_Dpkg.Va3lcautoctl
      »      True
10276 Perf_Background_Dpkg.Pcpathref
      »   Nopath
10277 Perf_Background_Dpkg.Pcactorsec
      »   Active
10278 Perf_Background_Dpkg.Psvgonpath
      »      True
10279 CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
      »   Cruise
10280
10281
10282 OUTPUT                                            EXPECTED              TOLERANCE          ACTUAL
      »           P/F
10283 ------------------------------------------------  ------------------------------  -------------  ------------------
      » --------  ----
10284 Perf_Background_Dpkg.Psvgonpath                                       False          (N/A)
      »   FALSE  P
10285
10286
10287 ====> All 1 Comparisons Passed <====
10288
10289
10290 TESTID: 99
10291
10292 The flag indicating Vertical Guidance is onpath or capturing Descent Path(Perf_Background_Dpkg.Psvgonpath) shall be se
      » t to true,
10293 if all of the following conditions are satisfied:
10294   - Level change auto control mode is engaged.
10295   - The descent path reference is set to Onpath.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

```
10296      - The current working flight plan is Active.
10297  -- In this case,
10298  -- Level change auto control mode is engaged.
10299  -- The descent path reference is set to Onpath.
10300  -- The current working flight plan is Secondary.
10301
10302      REQUIREMENTS UNDER EVALUATION : PERF_SDD_09201_INT
10303
10304      SUPPORTING REQUIREMENTS : N/A
10305
10306
10307  INPUT                                                                              VALUE
10308  ------------------------------------------------------------------------------  ------------------
       » --------
10309  Perf_Background_Dpkg.Flight_Plan_Type                                                  I
       » s_Active
10310  Guid_Ext_Dpkg.Va3lcautoctl
       »      True
10311  Perf_Background_Dpkg.Pcpathref
       »    Onpath
10312  Perf_Background_Dpkg.Pcactorsec                                                        S
       » econdary
10313  Perf_Background_Dpkg.Psvgonpath
       »      True
10314  Guid_Ext_Dpkg.Va3pathref
       »    Onpath
10315  CTP_A350_PERF_BKGND_Get_Bk_Data.sync_flight_phase
       »   Descent
10316
10317
10318  OUTPUT                                              EXPECTED              TOLERANCE           ACTUAL
       »          P/F
10319  -------------------------------------------------  -----------------------------  -------------  ------------------
       » --------  ----
10320  Perf_Background_Dpkg.Psvgonpath                                          False         (N/A)
       »    FALSE  P
10321
10322
10323  ====> All 1 Comparisons Passed <====
10324
10325
10326  Test End Time: Dec 26 16:26:38 2013
10327  Test Generation System (TGS) Version v4.5.2, ps4082887-103
10328  Current Program Library
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.rst (continued)

10177		c:\a350\builds\a01365\bld_a01365\common_software\v009\hads_root\a29_cert_system.alb (root)
10178		c:\a350\builds\a01365\bld_a01365\common_software\v009\acm$ada_lib.alb
10179		C:\A350\Builds\A01365\BLD_A01365\Libraries\Iotbx.alb
10180		C:\A350\Builds\A01365\BLD_A01365\Libraries\Tou.alb
10181		C:\A350\Builds\A01365\BLD_A01365\Libraries\Ops.alb
10182		C:\A350\Builds\A01365\BLD_A01365\Libraries\Bsvc.alb
10183		C:\A350\Builds\A01365\BLD_A01365\Libraries\Opc.alb
10184		C:\A350\Builds\A01365\BLD_A01365\Libraries\Io.alb
10185		C:\A350\Builds\A01365\BLD_A01365\Libraries\isb.alb
10186		C:\A350\Builds\A01365\BLD_A01365\Libraries\Com.alb
10187		C:\A350\Builds\A01365\BLD_A01365\Libraries\Fm.alb
10188		C:\A350\BUILDS\A01365\BLD_A01365\Libraries\fm2.alb
10189		C:\A350_Work\20130716\CTP_A350_PERF_BKGND_GET_BK_DATA(Rework)\fm2_p.alb
10190		C:\A350_Work\20130716\CTP_A350_PERF_BKGND_GET_BK_DATA(Rework)\my_fm2.alb
	10329	c:\a350\builds\a01418\bld_a01418\common_software\v009\hads_root\a29_cert_system.alb (root)
	10330	c:\a350\builds\a01418\bld_a01418\common_software\v009\acm$ada_lib.alb
	10331	C:\A350\Builds\A01418\BLD_A01418\Libraries\Iotbx.alb
	10332	C:\A350\Builds\A01418\BLD_A01418\Libraries\Tou.alb
	10333	C:\A350\Builds\A01418\BLD_A01418\Libraries\Ops.alb
	10334	C:\A350\Builds\A01418\BLD_A01418\Libraries\Bsvc.alb
	10335	C:\A350\Builds\A01418\BLD_A01418\Libraries\Opc.alb
	10336	C:\A350\Builds\A01418\BLD_A01418\Libraries\Io.alb
	10337	C:\A350\Builds\A01418\BLD_A01418\Libraries\isb.alb
	10338	C:\A350\Builds\A01418\BLD_A01418\Libraries\Com.alb
	10339	C:\A350\Builds\A01418\BLD_A01418\Libraries\Fm.alb
	10340	C:\A350\BUILDS\A01418\BLD_A01418\Libraries\fm2.alb
	10341	C:\A350_Work\S4P51418\CTP_A350_PERF_BKGND_GET_BK_DATA\fm2_p.alb
	10342	C:\A350_Work\S4P51418\CTP_A350_PERF_BKGND_GET_BK_DATA\my_fm2.alb

Beyond Compare 2.1.1

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_BK_DATA.dsp

```
   1       1 ##****************************************************************************************************
            » **
   2       2 ##    DSP Generator Tool Version 1.0
   3       3 ##****************************************************************************************************
            » **
   4       4 ##
   5       5 ##    CTP_A350_PERF_BKGND_GET_BK_DATA.DSP
   6       6 ##
   7       7 ## NOTE:
   8       8 ## A. "Any" SCR that is mentioned in this DSP file must contain the prefix "SCR_disposed#: "
   9       9 ## B. Template of this DSP file is created by tool and it should not be modified/deleted.
  10      10 ## C. If any information is not applicable then mark the corresponding field as N/A instead of deleting it.
  11      11 ## D. If more than one SCR has to be used for one issue, make separate entry. SCRs should not be captured
  12      12 ##    in the same line using comma or any other separators.
  13      13 ##
  14      14 ##
  15      15
  16      16 ----------------------------------------------------------------------------------------------------
            » --
  17      17 1. REASON_FOR_FAILURES_OF_TEST_CASE(S):
  18      18 ## The below mentioned group of lines need to be repeated for each Test case ID, which is having test failures in it.
  19      19 ----------------------------------------------------------------------------------------------------
            » --
  20      20
  21      21 Test_case_Id: N/A
  22      22 #_of_Failures: N/A
  23      23 Failed_Requirements: N/A
  24      24 SCR_disposed#: N/A
  25      25 SCR_PROJECT: N/A
  26      26 SCR_SUB_PROJECT: N/A
  27      27 Disposition: N/A
  28      28
  29      29 ----------------------------------------------------------------------------------------------------
            » --
  30      30 2. COVERAGE_PROBLEM(S):
  31      31 ## Standard excuse and SCR related details need to be mentioned for each and every sub unit separately.
  32      32 ----------------------------------------------------------------------------------------------------
            » --
  33      33 Compilation_Unit_Name: PRF_BKGND_PKG.GET_BK_DATA
  34      34 Uncovered_Code:
  35      35
  36      36
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.dsp (continued)

```
37   37 TCH(Test_Coverage_Hole)_Excuse: N/A
38      N/A
39   38 SCR_disposed#: N/A
40   39 SCR_PROJECT: N/A
41   40 SCR_SUB_PROJECT: N/A
42   41
43   42 ---------------------------------------------------------------------------------------------
       » --
44   43 3. ANY_OTHER_ISSUE(S):
45   44 ## A. Every entry in Any_Other_Issue should be followed by a SCR_number, its corresponding CM 21 project and subprojec
       » t.
46   45 ## B. If SCR is not applicable then mention N/A.
47   46 ## C. If more than one SCR has to be used for one issue, make separate entry. SCRs should not be captured
48   47 ##    in the same line using comma or any other separators.
49   48 ---------------------------------------------------------------------------------------------
       » --
50   49
51   50 (1) PERF_SRD_12507_DR is partially tested here,aslo is tested in CTP_A350_PERF_INTEG_CLB_TGT& CTP_A350_PERF_INT_SHELL_
       » SETUP_INTVAL
52   51 SCR_disposed#: N/A
53   52 SCR_PROJECT: N/A
54   53 SCR_SUB_PROJECT: N/A
55   54
56   55 (2) PERF_SRD_12511_DR is partially tested here,aslo is tested in
57   56 CTP_A350_PERF_INTEG_CLB_ACCEL & CTP_A350_PERF_INT_SHELL_SETUP_INTVAL
58   57 SCR_disposed#: N/A
59   58 SCR_PROJECT: N/A
60   59 SCR_SUB_PROJECT: N/A
61   60
62   61 (3) PERF_SRD_12514_DR is partially tested here,aslo is tested in
63   62 CTP_A350_PERF_INTEG_CLB_ACCEL & CTP_A350_PERF_INT_SHELL_SETUP_INTVAL
64   63 SCR_disposed#: N/A
65   64 SCR_PROJECT: N/A
66   65 SCR_SUB_PROJECT: N/A
67   66
68   67 {4) PERF_SRD_12517_DR is partially tested here,aslo is tested in
69   68 CTP_A350_PERF_INTEG_INT_VMIN_CLB & CTP_A350_PERF_INT_SHELL_SETUP_INTVAL
70   69 SCR_disposed#: N/A
71   70 SCR_PROJECT: N/A
72   71 SCR_SUB_PROJECT: N/A
73   72
74   73 (5) PERF_SRD_12520_DR is partially tested here,aslo is tested in
75   74 CTP_A350_PERF_AEROENG_PKG_03, CTP_A350_PERF_INTEG_CLB_DES_FPA& CTP_A350_PERF_INT_SHELL_SETUP_INTVAL
76   75 SCR_disposed#: N/A
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.dsp (continued)

```
 77     76 SCR_PROJECT: N/A
 78     77 SCR_SUB_PROJECT: N/A
 79     78
 80     79 (6) PERF_SRD_12523_DR is partially tested here    ,aslo is tested in
 81     80 CTP_A350_PERF_INTEG_CLB_DESVS, CTP_A350_PERF_INTEG_CLB_DES_FPA & CTP_A350_PERF_INT_SHELL_SETUP_INTVAL
 82     81 SCR_disposed#: N/A
 83     82 SCR_PROJECT: N/A
 84     83 SCR_SUB_PROJECT: N/A
 85     84
 86     85 (7) PERF_SRD_10199_INT is partially tested here,aslo is tested in
 87     86 CTP_A350_PERF_AEROENG_PKG_01, CTP_A350_PERF_SPEED_PKG_03, CTP_A350_PERF_INTEG_FORWARD_DES,
 88     87 CTP_A350_PERF_INT_SHELL_SETUP_PRED, CTP_A350_PERF_FPLN_GET_START_STATE& CTP_A350_PERF_ALTPLAN_EXECUTE
 89     88 SCR_disposed#: N/A
 90     89 SCR_PROJECT: N/A
 91     90 SCR_SUB_PROJECT: N/A
 92     91
 93     92 (8) PERF_SRD_1490_INT is partially tested here,aslo is tested in
 94     93 CTP_A350_PERF_FPLN_CONTROL_INTEG, CTP_A350_PERF_FPLN_PROCESS_GUIDTERM &CTP_A350_PERF_FPLN_PROCESS_ITINTERM
 95     94 SCR_disposed#: N/A
 96     95 SCR_PROJECT: N/A
 97     96 SCR_SUB_PROJECT: N/A
 98     97
 99     98 (9) PERF_SRD_12370_INT is partially tested here,aslo is tested in
100     99 CTP_A350_PERF_BKGND_GET_KY_DATA & CTP_A350_PERF_CHGPROC_INITIALIZE
101    100 SCR_disposed#: N/A
102    101 SCR_PROJECT: N/A
103    102 SCR_SUB_PROJECT: N/A
104    103
105    104 (10) PERF_SRD_12404 is partially tested here,aslo is tested in
106    105 CTP_A350_PERF_BKGND_GET_KY_DATA, CTP_A350_PERF_BKGND_PUT_BK_DATA,
107    106 CTP_A350_PERF_REALTIME_GET_DATA & CTP_A350_PERF_REALTIME_PUT_DATA
108    107 SCR_disposed#: N/A
109    108 SCR_PROJECT: N/A
110    109 SCR_SUB_PROJECT: N/A
111    110
112    111 (11) PERF_SRD_10166_INT is partially tested here,aslo is tested in
113    112 CTP_A350_PERF_ALTPLAN_GET_DATA, CTP_A350_PERF_BKGND_GET_KY_DATA
114    113 SCR_disposed#: N/A
115    114 SCR_PROJECT: N/A
116    115 SCR_SUB_PROJECT: N/A
117    116
118    117 (12) The requirements mentioned in the SRD anchor, PERF_SRD_12529_INT is explicitly implemented in VGUIDE discrete rat
           » her than in
119    118 Perf. Comment section of SDD anchor, Perf_SDD_4600 to which PERF_SRD_12529_INT traces can be referred for the Same.
```

File: CTP_A350_PERF_BKGND_GET_BK_DATA.dsp (continued)

```
120   119 Here PERF_SRD_12529_INT is simply tagged but not tested to avoid trace hole.
121   120 SCR_disposed#: N/A
122   121 SCR_PROJECT: N/A
123   122 SCR_SUB_PROJECT: N/A
124   123
125   124 (13) As per anchor PERF_SDD_3746_INT, The current Step altitude is initialized to the current Cruise altitude after
126   125 copying the trip data. This is common to all Test Cases.
127   126 SCR_disposed#: N/A
128   127 SCR_PROJECT: N/A
129   128 SCR_SUB_PROJECT: N/A
130   129
131   130 ------------------------------------------------------------------------------------------------------------------
          » --
132   131 4. SPECIAL_EXECUTION_INSTRUCTION(S):
133   132 ## Capture all additional information and/or supporting file(s) required for this CTP execution.
134   133 ## For example:
135   134 ## (i) "nav_db23.o" is required for execution.
136   135 ## (ii) "apex_traps.o"/gen=xx and "common file"/gen=xx are required for execution.
137   136 ## Database_Details:
138   137 ## 1. <Enter the database name>
139   138 ------------------------------------------------------------------------------------------------------------------
          » --
140   139
141   140 (i) "apex_traps.o"/gen=1 and "CTP_A350_PERF_COMMON_OBJECTS.C"/gen=3 are required for execution.
142   141
143   142 Database_Details:
144   143 1. N/A
145   144
146   145 *************************************************** End of Report ***************************************************
          » **
```

Mode: All Lines

File: CTP_A350_PERF_ADS_INTERFACE.STB

```
   1        1 --
   2        2 --      STUB File
   3        3 --
   4        4 --      CTP_A350_PERF_ADS_INTERFACE.STB
   5        5 --
   6        6 --      REASONS FOR STUBBING : PROCEDURE  Get_Requested_Num_Waypoints stubbed out to simplify testing.
   7        7 --
   8        8 --      Source File Name: PERF_ADS_INTERFACE_DPKG.ADA
   9        9 --
  10       10 with Apex_Partition_Pkg;           -- common sw lib
  11       11 with Apex_Types_Pkg;               -- common sw lib
  12       12 with Portable_Types_Pkg;           -- common sw lib
  13       13 with Sorts;                        -- common sw lib
  14       14 with Perf_Ads_Intent_Request_Tpkg;  -- fms common type
  15       15 with Flight_Pln_Hdr_Types;         -- fms common type
  16       16 with Flight_Pln_Leg_Types;         -- fms common type
  17       17 with Lateral_Path_Type_Tpkg;       -- fms common type
  18       18 with Fmcs_Fp_Guid_Btypes;          -- fms common type
  19       19 with Fmcs_Partition_Data_Pkg;      -- fms common type
  20       20 with Fmcs_Partition_Data_Pkg;      -- fms common object
  21       21 with Atc_Discretes_Pkg;            -- fms aircraft object
  22       22 with Options_And_Data_Pkg;         -- fms common util
  23       23 with Common_Lgb;                   -- fms common fmf util
  24       24 with Sys_Change_Flags_Pkg;
  25       25 with Perf_Change_Flags_Types;
  26       26 with Number_To_Text_Pkg;
  27       27 with Text_Format_Tpkg;
  28       28 with Atc_Msg_Common_Types_Pkg;
  29       29 with Fmf_Fpi_Atc_Common_Util_Pkg;
  30       30 with Fmcs_Fp_Guid_Btypes;
  31       31 with Math_pkg;
  32       32 with Ctp_A350_Perf_Bkgnd_Get_Bk_Data;
  33       33 -- Procedures to use to obtain operator visibility
  34       34 use Apex_Partition_Pkg;
  35       35 use Apex_Types_Pkg;
  36       36 use Lateral_Path_Type_Tpkg;        -- for = sign
  37       37 use Portable_Types_Pkg;            -- for + sign
  38       38 use Atc_Msg_Common_Types_Pkg;
  39       39 use Fmcs_Fp_Guid_Btypes;
  40       40
  41       41
  42       42 package body Perf_Ads_Interface_Dpkg is
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
43    43  -- Static Data
44    44  --
45    45
46    46    Fixed_Intent_Data : Fixed_Intent_Data_Type;                    -- Storage for Fixed Intent Data Buffer
47    47    Intermediate_Intent_Data : Intermediate_Intent_Data_Type;  -- Storage for Intermediate Intent Data Buffer
48    48    Predicted_Route_Data : Predicted_Route_Data_Type;          -- Storage for Predicted Route Data Buffer
49    49    Fpln_Event_Status : Fpln_Event_Rec_Type;                    -- Reason why Fpln_Modified bit is set (Pred Rte)
50    50
51    51    -- frame data lock-preemption tokens to be accessed only by Access_Granted & Access_Released subprograms.
52    52    -- exception: IO "Get" routines are allowed to direct access since they are called out of foreground
53    53    --             and thus will never be preempted by Perf or Dl subprograms.
54    54    Frame_Data_In_Use : array (Lock_Data_Frame_Type) of Boolean;
55    55
56    56    -- Initialization aggregate for GMT
57    57    Gmt_Init : Fcs_Date_Time_Pkg.Time_Rec := (Hour => 0,
58    58                                               Minute => 0,
59    59                                               Second => 0,
60    60                                               Millisecond => 0,
61    61                                               Rtc_Status_Register => (Unused => 0,
62    62                                                                       Leap_Year => Apex_Partition_Pkg.Current_Year,
63    63                                                                       Time_Valid => False,
64    64                                                                       others=>False),
65    65                                               Gpc_Time => 0,
66    66                                               Delta_Time => 0);
67    67
68    68  -- overload operators
69    69
70    70    function "=" (Left, Right : in Portable_Types_Pkg.Integer_32) return Boolean renames Portable_Types_Pkg."=";
71    71
72    72    function "+" (Left, Right : in Portable_Types_Pkg.Integer_32) return Portable_Types_Pkg.Integer_32 renames Portable_
          » Types_Pkg."+";
73    73
74    74    function "-" (Left, Right : in Portable_Types_Pkg.Integer_32) return Portable_Types_Pkg.Integer_32 renames Portable_
          » Types_Pkg."-";
75    75
76    76    function "<" (Left, Right : in Portable_Types_Pkg.Integer_32) return Boolean renames Portable_Types_Pkg."<";
77    77
78    78    function ">" (Left, Right : in Portable_Types_Pkg.Integer_32) return Boolean renames Portable_Types_Pkg.">";
79    79
80    80    function ">=" (Left, Right : in Portable_Types_Pkg.Integer_32) return Boolean renames Portable_Types_Pkg.">=";
81    81
82    82
83    83
84    84  ----------------------------------------------------------------
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
 85     85  
 86     86     function Buffer_Ttg_Greater_Than (This, Next : in Fixed_Intent_Rec_Type) return Boolean is
 87     87  
 88     88  
 89     89     begin    --   function Perf_Ads_Interface_Dpkg.Buffer_Ttg_Greater_Than
 90     90  
 91     91       return (This.Requests.Ttg > Next.Requests.Ttg) and then (Next.Requests.Ttg /= 0);
 92     92  
 93     93     end Buffer_Ttg_Greater_Than;
 94     94  
 95     95  
 96     96     function Buffer_Ttg_Greater_Than_Or_Equal (This, Next : in Fixed_Intent_Rec_Type) return Boolean is
 97     97  
 98     98  
 99     99     begin    --   function Perf_Ads_Interface_Dpkg.Buffer_Ttg_Greater_Than_Or_Equal
100    100  
101    101       return (This.Requests.Ttg >= Next.Requests.Ttg) and then (Next.Requests.Ttg /= 0);
102    102  
103    103     end Buffer_Ttg_Greater_Than_Or_Equal;
104    104  
105    105  
106    106     package Buffer_Sort_Pkg is
107    107  
108    108  
109    109        new Sorts (Element_Type => Fixed_Intent_Rec_Type,
110    110                   Index => Perf_Ads_Intent_Request_Tpkg.Request_Index_Type,
111    111                   Table_Type => Fixed_Intent_Storage_Type,
112    112                   Gt => Buffer_Ttg_Greater_Than,
113    113                   Gte => Buffer_Ttg_Greater_Than_Or_Equal);
114    114  
115    115  
116    116     function Access_Granted (Frame : in Lock_Data_Frame_Type) return Boolean is
117    117  
118    118  
119    119       New_Lock_Level : Apex_Partition_Pkg.Lock_Level_Type;
120    120       Status_Code : Apex_Types_Pkg.Status_Code_Type;
121    121       Access_Received : Boolean;
122    122  
123    123     begin
124    124  
125    125       --LOCK
126    126       Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level => New_Lock_Level, Status_Code => Status_Code);
127    127       if Status_Code = Apex_Types_Pkg.No_Error then
128    128          if not Frame_Data_In_Use (Frame) then
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
129   129         Frame_Data_In_Use (Frame) := True;
130   130         Access_Received := True;
131   131       else
132   132         Access_Received := False;
133   133       end if;
134   134
135   135       --UNLOCK - if unlock completes with a status other than No_Error, the returned new_lock_level
136   136       --  will be zero (i.e., process scheduling will resume).
137   137       Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level => New_Lock_Level, Status_Code => Status_Code);
138   138
139   139     else  -- lock request unsucessful
140   140       Access_Received := False;
141   141     end if;
142   142
143   143     return Access_Received;
144   144
145   145   end Access_Granted;
146   146
147   147
148   148   procedure Access_Released (Frame : in Lock_Data_Frame_Type) is
149   149
150   150
151   151     New_Lock_Level : Apex_Partition_Pkg.Lock_Level_Type;
152   152     Status_Code : Apex_Types_Pkg.Status_Code_Type;
153   153
154   154   begin
155   155     --LOCK
156   156     Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level => New_Lock_Level, Status_Code => Status_Code);
157   157
158   158     Frame_Data_In_Use (Frame) := False;
159   159
160   160     --UNLOCK
161   161     Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level => New_Lock_Level, Status_Code => Status_Code);
162   162
163   163   end Access_Released;
164   164
165   165
166   166   procedure Initialize (Boot_Status : in Apex_Partition_Pkg.Operating_Mode_Type; --
167   167                         Success : out Boolean) is
168   168
169   169
170   170     Predicted_Frame_Success : Boolean := False;
171   171     Intermediate_Frame_Success : Boolean := False;
172   172     Fixed_Frame_Success : Boolean := False;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
173   173       Purge_Success : Boolean := False;
174   174
175   175    begin    --  procedure Perf_Ads_Interface_Dpkg.Initialize
176   176
177   177      if Boot_Status = Apex_Partition_Pkg.Normal then
178   178
179   179        if Access_Granted (Predicted_Route) then
180   180
181   181          --  Initialize all fields in the Predicted Route buffer;
182   182          Predicted_Route_Data :=
183   183            (Num_Of_Requested_Waypoints => 0,
184   184             Num_Of_Predicted_Waypoints => 0,
185   185             Preds_Reference_Gmt => Gmt_Init,
186   186             Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps =>
          »  False),
187   187             Preds_Recomputed_Timer => 0,
188   188             Fpln_Modified => False,
189   189             Destination_Waypoint_Included => False,
190   190             Non_Predicted_Data_Is_Valid => False,
191   191             Predicted_Data_Is_Valid => False,
192   192             Data => (others => (Lat_Lon => (0.0, 0.0), Altitude => 0.0, Waypoint_Ttg => 0, Waypoint_Ident => (others =
          »  > ' '))));
193   193          Access_Released (Predicted_Route);
194   194          Predicted_Frame_Success := True;
195   195        end if;
196   196
197   197
198   198        if Access_Granted (Intermediate_Intent) then
199   199
200   200          --  Initialize all fields in the Intermediate Intent buffer;
201   201          Intermediate_Intent_Data :=
202   202            (Num_Of_Predicted_Points => 0,
203   203             Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps =>
          »  False),
204   204             Preds_Recomputed_Timer => 0,
205   205             Predicted_Data_Is_Valid => False,
206   206             Data => (others => (Distance => 0.0, Track => 0.0, Altitude => 0.0, Ttg => 0)));
207   207          Access_Released (Intermediate_Intent);
208   208          Intermediate_Frame_Success := True;
209   209        end if;
210   210
211   211
212   212        -- no lock needed here since the purge will do it
213   213        --  Initialize all fields in the Fixed Intent buffer;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
214  214        Purge_Fixed_Intent_Requests (Success => Fixed_Frame_Success);
215  215

216  216        Success := Predicted_Frame_Success and then --
217  217                   Intermediate_Frame_Success and then --
218  218                   Fixed_Frame_Success;
219  219

220  220

221  221     elsif Boot_Status = Apex_Partition_Pkg.Cold_Start then
222  222

223  223        -- Since this package is resynch data, all values need to be explicitly re-initialized
224  224        -- upon cold start (or else the retained values would be kept).
225  225        -- No locking is needed since processes are not yet running in steady state.
226  226

227  227        Frame_Data_In_Use (Predicted_Route) := False;
228  228        Frame_Data_In_Use (Intermediate_Intent) := False;
229  229        Frame_Data_In_Use (Fixed_Intent) := False;
230  230

231  231        Purge_Fixed_Intent_Requests (Success => Purge_Success);
232  232

233  233        Intermediate_Intent_Data :=
234  234           (Num_Of_Predicted_Points => 0,
235  235            Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps => F
     » alse),
236  236            Preds_Recomputed_Timer => 0,
237  237            Predicted_Data_Is_Valid => False,
238  238            Data => (others => (Distance => 0.0, Track => 0.0, Altitude => 0.0, Ttg => 0)));
239  239

240  240        Predicted_Route_Data :=
241  241           (Num_Of_Requested_Waypoints => 0,
242  242            Num_Of_Predicted_Waypoints => 0,
243  243            Preds_Reference_Gmt => Gmt_Init,
244  244            Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps => F
     » alse),
245  245            Preds_Recomputed_Timer => 0,
246  246            Fpln_Modified => False,
247  247            Destination_Waypoint_Included => False,
248  248            Non_Predicted_Data_Is_Valid => False,
249  249            Predicted_Data_Is_Valid => False,
250  250            Data => (others => (Lat_Lon => (0.0, 0.0), Altitude => 0.0, Waypoint_Ttg => 0, Waypoint_Ident => (others =>
     » ' '))));
251  251

252  252        Success := True;
253  253

254  254     else
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
255  255
256  256           -- set output parameters for case when an unexpected Boot_Status is passed in.
257  257           Success := False;
258  258
259  259        end if;
260  260
261  261     end Initialize;
262  262
263  263
264  264     procedure Find_Request_In_Buffer (Reference_Id : in Perf_Ads_Intent_Request_Tpkg.Reference_Id_Type; --
265  265                                       Index : out Perf_Ads_Intent_Request_Tpkg.Request_Index_Type) is
266  266
267  267
268  268     begin    --  procedure Perf_Ads_Interface_Dpkg.Find_Request_In_Buffer
269  269
270  270        Index := Perf_Ads_Intent_Request_Tpkg.Request_Index_Type'First;
271  271
272  272        for Search_Index in 1 .. Fixed_Intent_Data.Num_Of_Requests loop
273  273
274  274           Index := Search_Index;
275  275
276  276           exit when (Fixed_Intent_Data.Data (Search_Index).Requests.Reference_Id = Reference_Id);
277  277
278  278        end loop;
279  279
280  280     end Find_Request_In_Buffer;
281  281
282  282
283  283     procedure Add_Request (For_Id : in Perf_Ads_Intent_Request_Tpkg.Reference_Id_Type; --
284  284                            At_Time : in Perf_Ads_Intent_Request_Tpkg.Time_To_Go_Type; --
285  285                            Success : out Boolean) is
286  286
287  287
288  288
289  289     begin    --  procedure Perf_Ads_Interface_Dpkg.Add_Request
290  290
291  291        -- Attempt to gain access to the fixed intent requests.
292  292        if Access_Granted (Fixed_Intent) then
293  293
294  294           -- Store the added Ref ID and Requested TTG into the appropriate fields.  Zero/invalidate the other fields becau
         » se
295  295           --  we don't have any preds yet for this (Ref ID/TTG) pair.  It's important to do this zeroing because when Fixe
         » d
296  296           --  Intent preds ARE stored, if there's no matching (Ref ID/TTG) pair from preds, these fields in the Fixed Inte
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
                    » nt
  297     297           --  Buffer are left untouched.  Thus, we should put in zeroes now, at the beginning.
  298     298           Fixed_Intent_Data.Data (Fixed_Intent_Data.Num_Of_Requests + 1) := (Requests => (Reference_Id => For_Id, Ttg => A
                    » t_Time), --
  299     299                                                              Predicted_Ttg => 0,
  300     300                                                              Lat_Lon => (Lat => 0.0, Lon => 0.0),
  301     301                                                              Altitude => 0.0,
  302     302                                                              Is_Valid => False);
  303     303
  304     304           Buffer_Sort_Pkg.Bubble_Sort (Table => Fixed_Intent_Data.Data);       -- Resort the Fixed Intent Buffer
  305     305
  306     306           Fixed_Intent_Data.Num_Of_Requests := Fixed_Intent_Data.Num_Of_Requests + 1;   -- Increment the buffer's number
  307     307                                                                             --  of requests
  308     308
  309     309           --  Set the 'chadsttg' change set element to alert Perf to refresh the active flight plan predictions
  310     310           Sys_Change_Flags_Pkg.Set_Change_Flag (Perf_Change_Flags_Types.Chadsttg);
  311     311
  312     312           -- If we have made it this far, set 'success' flag to 'true.'
  313     313           Success := True;
  314     314
  315     315           -- Release access.
  316     316           Access_Released (Fixed_Intent);
  317     317
  318     318        else
  319     319           -- We did not gain access to the fixed intent requests.
  320     320           Success := False;
  321     321        end if;  -- locked?
  322     322
  323     323     end Add_Request;
  324     324
  325     325
  326     326     procedure Remove_Request (For_Id : in Perf_Ads_Intent_Request_Tpkg.Reference_Id_Type; --
  327     327                                   Success : out Boolean) is
  328     328
  329     329
  330     330
  331     331  --   LOCAL VARIABLES
  332     332        Matching_Index : Perf_Ads_Intent_Request_Tpkg.Request_Index_Type;
  333     333
  334     334     begin    --  procedure Perf_Ads_Interface_Dpkg.Remove_Request
  335     335
  336     336        -- Attempt to gain access to the fixed intent requests.
  337     337        if Access_Granted (Fixed_Intent) then
  338     338
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
339   339          Find_Request_In_Buffer (Reference_Id => For_Id, Index => Matching_Index);      -- Locate the Ref ID within the bu
                »  ffer
340   340
341   341          -- Remove this request by collapsing the Fixed Intent Buffer by 1
342   342          Fixed_Intent_Data.Data (Matching_Index .. Fixed_Intent_Data.Num_Of_Requests - 1) :=
343   343             Fixed_Intent_Data.Data (Matching_Index + 1 .. Fixed_Intent_Data.Num_Of_Requests);
344   344
345   345          -- The Fixed Intent Buffer has been shortened by one request, so clear what "was" the end of the buffer
346   346          Fixed_Intent_Data.Data (Fixed_Intent_Data.Num_Of_Requests) := (Requests => (Reference_Id => 0, Ttg => 0), --
347   347                                                          Predicted_Ttg => 0,
348   348                                                          Lat_Lon => (Lat => 0.0, Lon => 0.0),
349   349                                                          Altitude => 0.0,
350   350                                                          Is_Valid => False);
351   351
352   352          Fixed_Intent_Data.Num_Of_Requests := Fixed_Intent_Data.Num_Of_Requests - 1;   -- Decrement the buffer's number
353   353                                                                          --  of requests
354   354          -- If we have made it this far, set 'success' flag to 'true.'
355   355          Success := True;
356   356
357   357          -- Release access.
358   358          Access_Released (Fixed_Intent);
359   359
360   360       else
361   361          -- We did not gain access to the fixed intent requests.
362   362          Success := False;
363   363       end if;  -- locked?
364   364
365   365
366   366    end Remove_Request;
367   367
368   368
369   369    procedure Replace_Request (For_Id : in Perf_Ads_Intent_Request_Tpkg.Reference_Id_Type;
370   370                               With_Time : in Perf_Ads_Intent_Request_Tpkg.Time_To_Go_Type;
371   371                               Success : out Boolean) is
372   372
373   373
374   374 --   LOCAL VARIABLES
375   375       Matching_Index : Perf_Ads_Intent_Request_Tpkg.Request_Index_Type;
376   376
377   377    begin    --   procedure Perf_Ads_Interface_Dpkg.Replace_Request
378   378
379   379       -- Attempt to gain access to the fixed intent requests.
380   380       if Access_Granted (Fixed_Intent) then
381   381
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
382   382        Find_Request_In_Buffer (Reference_Id => For_Id, Index => Matching_Index);   -- Locate the Ref ID within the buff
                 » er
383   383
384   384        -- Rewrite the Ref ID and store the new Requested TTG into the appropriate field.  Zero/invalidate the other
385   385        --  fields because the existing preds are not correct for this new Requested TTG.
386   386        Fixed_Intent_Data.Data (Matching_Index) := (Requests => (Reference_Id => For_Id, Ttg => With_Time), --
387   387                                                     Predicted_Ttg => 0,
388   388                                                     Lat_Lon => (Lat => 0.0, Lon => 0.0),
389   389                                                     Altitude => 0.0,
390   390                                                     Is_Valid => False);
391   391
392   392        Buffer_Sort_Pkg.Bubble_Sort (Table => Fixed_Intent_Data.Data);      -- Resort the Fixed Intent Buffer
393   393
394   394        --  Set the 'chadsttg' change set element to alert Perf to refresh the active flight plan predictions
395   395        Sys_Change_Flags_Pkg.Set_Change_Flag (Perf_Change_Flags_Types.Chadsttg);
396   396
397   397        -- If we have made it this far, set 'success' flag to 'true.'
398   398        Success := True;
399   399
400   400        -- Release access.
401   401        Access_Released (Fixed_Intent);
402   402
403   403      else
404   404        -- We did not gain access to the fixed intent requests.
405   405        Success := False;
406   406      end if;  -- locked?
407   407
408   408
409   409    end Replace_Request;
410   410
411   411
412   412    procedure Number_Of_Requests (Count : out Perf_Ads_Intent_Request_Tpkg.Request_Count_Type; --
413   413                                  Success : out Boolean) is
414   414
415   415
416   416    begin    --  procedure Perf_Ads_Interface_Dpkg.Number_Of_Requests
417   417
418   418      -- Attempt to gain access to the fixed intent requests.
419   419      if Access_Granted (Fixed_Intent) then
420   420
421   421        Count := Fixed_Intent_Data.Num_Of_Requests;
422   422
423   423        -- If we have made it this far, set 'success' flag to 'true.'
424   424        Success := True;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
425  425
426  426        -- Release access.
427  427        Access_Released (Fixed_Intent);
428  428
429  429      else
430  430        -- We did not gain access to the fixed intent requests.
431  431        Success := False;
432  432        Count := 0;
433  433
434  434      end if;  -- locked
435  435
436  436
437  437    end Number_Of_Requests;
438  438
439  439
440  440    procedure Get_Requests (Requests : out Perf_Ads_Intent_Request_Tpkg.Request_Storage_Type; --
441  441                            Success : out Boolean) is
442  442
443  443
444  444    begin    --  procedure Perf_Ads_Interface_Dpkg.Get_Requests
445  445
446  446      Success := False;      --  Initialize
447  447
448  448      if Access_Granted (Fixed_Intent) then
449  449        for Index in 1 .. Fixed_Intent_Data.Num_Of_Requests loop
450  450          Requests (Index) := (Reference_Id => Fixed_Intent_Data.Data (Index).Requests.Reference_Id,
451  451                               Ttg => Fixed_Intent_Data.Data (Index).Requests.Ttg);
452  452        end loop;
453  453        Access_Released (Fixed_Intent);
454  454        Success := True;
455  455      end if;
456  456
457  457    end Get_Requests;
458  458
459  459    procedure Search (For_Reference_Id : in Perf_Ads_Intent_Request_Tpkg.Reference_Id_Type; Found : out Boolean) is
460  460
461  461
462  462  -- LOCAL VARIABLES
463  463      A_Match : Boolean := False;    --  Initialize to False
464  464
465  465    begin    --  procedure Perf_Ads_Interface_Dpkg.Search
466  466
467  467      for Search_Index in 1 .. Fixed_Intent_Data.Num_Of_Requests loop
468  468
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
469  469        A_Match := (Fixed_Intent_Data.Data (Search_Index).Requests.Reference_Id = For_Reference_Id);
470  470
471  471      exit when A_Match;
472  472
473  473    end loop;
474  474
475  475    Found := A_Match;
476  476
477  477  end Search;
478  478
479  479
480  480  function Get_Requested_Num_Waypoints return Requested_Waypoints_Index_Type is
481  481
482  482
483  483    -- local variables
484  484    Requested_Num_Waypoints : Requested_Waypoints_Index_Type := Default_Pred_Rte_Waypoints;
485  485    Tmp_Predicted_Route : Portable_Types_Pkg.Natural_32 := Max_Requested_Waypoints;
486  486
487  487  begin
488  488
489  489    Requested_num_Waypoints := Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Requested_num_Waypoints;
490  490    Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Get_Requested_Num_Waypoints_Exec := True;
491  491
492  492    return Requested_Num_Waypoints;
493  493
494  494
495  495
496  496  end Get_Requested_Num_Waypoints;
497  497
498  498
499  499
500  500  procedure Get_Time_Stamp (Time_Stamp : out Time_Stamp_Rec_Type) is
501  501
502  502
503  503  begin    --  procedure Perf_Ads_Interface_Dpkg.Get_Time_Stamp
504  504
505  505    if Fmcs_Partition_Data_Pkg.Ops_Time.Rtc_Status_Register.Time_Valid then
506  506
507  507      Time_Stamp.Time.Hours := Portable_Types_Pkg.Integer_32 (Fmcs_Partition_Data_Pkg.Ops_Time.Hour);
508  508      Time_Stamp.Time.Minutes := Portable_Types_Pkg.Integer_32 (Fmcs_Partition_Data_Pkg.Ops_Time.Minute);
509  509      Time_Stamp.Time.Seconds := Portable_Types_Pkg.Integer_32 (Fmcs_Partition_Data_Pkg.Ops_Time.Second);
510  510      Time_Stamp.Clock_Source_Is_Gps := Fmcs_Partition_Data_Pkg.Ops_Time.Rtc_Status_Register.Sync_To_Gps;
511  511      Time_Stamp.Is_Valid := True;
512  512
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
513   513      else  -- no valid source of time available
514   514
515   515        Time_Stamp.Is_Valid := False;
516   516        Time_Stamp.Time := (0, 0, 0);
517   517        Time_Stamp.Clock_Source_Is_Gps := False;
518   518
519   519      end if;
520   520
521   521    end Get_Time_Stamp;
522   522
523   523
524   524    procedure Get_Predicted_Route_Data (Data : out Predicted_Route_Data_Type; --
525   525                                         Success : out Boolean) is
526   526
527   527
528   528    begin    --  procedure Perf_Ads_Interface_Dpkg.Get_Predicted_Route_Data
529   529
530   530      if not Frame_Data_In_Use (Predicted_Route) then
531   531        -- get frame data access token
532   532        Frame_Data_In_Use (Predicted_Route) := True;
533   533
534   534        Predicted_Route_Data.Preds_Recomputed_Timer := Predicted_Route_Data.Preds_Recomputed_Timer + 1;
535   535        Data := Predicted_Route_Data;
536   536
537   537        -- release frame data access token
538   538        Frame_Data_In_Use (Predicted_Route) := False;
539   539        Success := True;
540   540
541   541      else
542   542        -- frame data unaccessable, set all "out" parameters and status
543   543        Data := (Num_Of_Requested_Waypoints => 0,
544   544                 Num_Of_Predicted_Waypoints => 0,
545   545                 Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps
             »  => False),
546   546                 Preds_Recomputed_Timer => 0,
547   547                 Fpln_Modified => False,
548   548                 Destination_Waypoint_Included => False,
549   549                 Non_Predicted_Data_Is_Valid => False,
550   550                 Predicted_Data_Is_Valid => False,
551   551                 Preds_Reference_Gmt => Gmt_Init,
552   552                 Data => (others => (Lat_Lon => (0.0, 0.0), Altitude => 0.0, Waypoint_Ttg => 0, Waypoint_Ident => (other
             » s => ' '))));
553   553        Success := False;
554   554
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
555   555      end if;
556   556    end Get_Predicted_Route_Data;
557   557
558   558
559   559    function Pred_Rte_Predicted_Data_Is_Valid return Boolean is
560   560
561   561
562   562    begin    --  procedure Perf_Ads_Interface_Dpkg.Pred_Rte_Predicted_Data_Is_Valid
563   563
564   564      return Predicted_Route_Data.Predicted_Data_Is_Valid;
565   565
566   566    end Pred_Rte_Predicted_Data_Is_Valid;
567   567
568   568
569   569    procedure Put_Predicted_Route_Pred_Data (Data : in Perf_Pred_Rte_Rec_Type; --
570   570                                             Success : out Boolean) is
571   571
572   572
573   573  --  LOCAL VARIABLES
574   574      Dest_Waypoint_Deleted : Boolean := False;          -- Signals to invalidate the dest included flag
575   575      Loc_Req_Num_Wpts : Requested_Waypoints_Index_Type;    -- Local number of requested Pred Rte points
576   576      Loc_Time_Stamp : Time_Stamp_Rec_Type;                 -- Local Time Stamp record
577   577
578   578    begin    --  procedure Perf_Ads_Interface_Dpkg.Put_Predicted_Route_Pred_Data
579   579
580   580      Success := False;        --  Initialize
581   581
582   582      if Access_Granted (Predicted_Route) then
583   583
584   584        --  Obtain the *current* number of requested Predicted Route Waypoints
585   585        Loc_Req_Num_Wpts := Get_Requested_Num_Waypoints;
586   586        Predicted_Route_Data.Num_Of_Requested_Waypoints := Loc_Req_Num_Wpts;
587   587
588   588        --  Obtain the number of Predicted Route Waypoints predicted by Perf, then limit it to
589   589        --  the number of requested Predicted Route Waypoints + Pred_Rte_Pad
590   590        Predicted_Route_Data.Num_Of_Predicted_Waypoints := Data.Num_Of_Predicted_Waypoints;
591   591        if Predicted_Route_Data.Num_Of_Predicted_Waypoints > Loc_Req_Num_Wpts + Pred_Rte_Pad then
592   592
593   593          Predicted_Route_Data.Num_Of_Predicted_Waypoints := Loc_Req_Num_Wpts + Pred_Rte_Pad;
594   594          --
595   595          -- If the dest was included, it will be cut out as it is assumed to be the last point
596   596          -- This operation cuts off the last predicted route points in the buffer
597   597          --
598   598          Dest_Waypoint_Deleted := True;
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
599  599      end if;
600  600
601  601      --  Copy the Waypoint Lat, Lon, Altitude, TTG and Ident for all predicted waypoints
602  602      Predicted_Route_Data.Data (1 .. Predicted_Route_Data.Num_Of_Predicted_Waypoints) :=
603  603         Data.Data (1 .. Predicted_Route_Data.Num_Of_Predicted_Waypoints);
604  604
605  605      --  Copy the reference GMT
606  606      Predicted_Route_Data.Preds_Reference_Gmt := Data.Preds_Reference_Gmt;
607  607
608  608      --  Copy the Destination Waypoint Included flag
609  609      Predicted_Route_Data.Destination_Waypoint_Included := --
610  610         Data.Destination_Waypoint_Included and then not Dest_Waypoint_Deleted;
611  611
612  612      -- Obtain and store the Time Stamp
613  613      Get_Time_Stamp (Loc_Time_Stamp);
614  614      Predicted_Route_Data.Time_Stamp := Loc_Time_Stamp;
615  615
616  616      Predicted_Route_Data.Preds_Recomputed_Timer := 0;              -- Reset the timer to zero
617  617
618  618      Predicted_Route_Data.Non_Predicted_Data_Is_Valid := True;    -- Set the non-predicted data validity flag to True
619  619      Predicted_Route_Data.Predicted_Data_Is_Valid := True;         -- Set the predicted data validity flag to True
620  620
621  621      Access_Released (Predicted_Route);
622  622      Success := True;
623  623    end if;
624  624
625  625  end Put_Predicted_Route_Pred_Data;
626  626
627  627
628  628  procedure Get_Intermediate_Intent_Data (Data : out Intermediate_Intent_Data_Type; --
629  629                                          Success : out Boolean) is
630  630
631  631
632  632  begin    --  procedure Perf_Ads_Interface_Dpkg.Get_Intermediate_Intent_Data
633  633
634  634    if not Frame_Data_In_Use (Intermediate_Intent) then
635  635      -- get frame data access token
636  636      Frame_Data_In_Use (Intermediate_Intent) := True;
637  637
638  638      Intermediate_Intent_Data.Preds_Recomputed_Timer := Intermediate_Intent_Data.Preds_Recomputed_Timer + 1;
639  639      Data := Intermediate_Intent_Data;
640  640
641  641      -- release frame data access token
642  642      Frame_Data_In_Use (Intermediate_Intent) := False;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
643   643          Success := True;
644   644
645   645        else
646   646          -- frame data unaccessable, set all "out" parameters and status
647   647          Data := (Num_Of_Predicted_Points => 0,
648   648                  Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps
      »  => False),
649   649                  Preds_Recomputed_Timer => 0,
650   650                  Predicted_Data_Is_Valid => False,
651   651                  Data => (others => (Distance => 0.0, Track => 0.0, Altitude => 0.0, Ttg => 0)));
652   652          Success := False;
653   653
654   654        end if;
655   655
656   656    end Get_Intermediate_Intent_Data;
657   657
658   658
659   659    procedure Put_Intermediate_Intent_Pred_Data (Data : in Perf_Intermediate_Intent_Rec_Type; Success : out Boolean) is
660   660
661   661
662   662 --   LOCAL VARIABLES
663   663      Loc_Time_Stamp : Time_Stamp_Rec_Type;                      -- Local Time Stamp record
664   664
665   665    begin    --   procedure Perf_Ads_Interface_Dpkg.Put_Intermediate_Intent_Pred_Data
666   666
667   667      Success := False;       --  Initialize
668   668
669   669      if Access_Granted (Intermediate_Intent) then
670   670
671   671        --  Obtain the number of predicted Intermediate Intent Points
672   672        Intermediate_Intent_Data.Num_Of_Predicted_Points := Data.Num_Of_Predicted_Points;
673   673
674   674        --  Copy Intermediate Intent Dist, Track, Altitude, and TTG for all predicted points
675   675        Intermediate_Intent_Data.Data (1 .. Intermediate_Intent_Data.Num_Of_Predicted_Points) :=
676   676            Data.Data (1 .. Intermediate_Intent_Data.Num_Of_Predicted_Points);
677   677
678   678        --  Obtain and store the Time Stamp
679   679        Get_Time_Stamp (Loc_Time_Stamp);
680   680        Intermediate_Intent_Data.Time_Stamp := Loc_Time_Stamp;
681   681
682   682        Intermediate_Intent_Data.Preds_Recomputed_Timer := 0;        -- Reset the timer to zero
683   683
684   684        Intermediate_Intent_Data.Predicted_Data_Is_Valid := True;   -- Set the predicted data validity flag to True
685   685
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
686   686         Access_Released (Intermediate_Intent);
687   687         Success := True;
688   688       end if;
689   689
690   690    end Put_Intermediate_Intent_Pred_Data;
691   691
692   692
693   693    procedure Get_Fixed_Intent_Data (Data : out Fixed_Intent_Data_Type; --
694   694                                     Success : out Boolean) is
695   695
696   696
697   697    begin    --  procedure Perf_Ads_Interface_Dpkg.Get_Fixed_Intent_Data
698   698
699   699      if not Frame_Data_In_Use (Fixed_Intent) then
700   700
701   701         -- get frame data access token
702   702         Frame_Data_In_Use (Fixed_Intent) := True;
703   703
704   704         Fixed_Intent_Data.Preds_Recomputed_Timer := Fixed_Intent_Data.Preds_Recomputed_Timer + 1;
705   705         Data := Fixed_Intent_Data;
706   706
707   707         -- release frame data access token
708   708         Frame_Data_In_Use (Fixed_Intent) := False;
709   709         Success := True;
710   710
711   711      else
712   712         -- frame data unaccessable, set all "out" parameters and status
713   713         Data := (Num_Of_Requests => 0,
714   714                  Num_Of_Predicted_Points => 0,
715   715                  Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps
      »   => False),
716   716                  Preds_Recomputed_Timer => 0,
717   717                  Data => (others => (Lat_Lon => (Lat => 0.0, Lon => 0.0),
718   718                                      Altitude => 0.0,
719   719                                      Requests => (Reference_Id => 0, Ttg => 0),
720   720                                      Predicted_Ttg => 0,
721   721                                      Is_Valid => False)));
722   722         Success := False;
723   723
724   724      end if;
725   725
726   726    end Get_Fixed_Intent_Data;
727   727
728   728
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
729   729    procedure Put_Fixed_Intent_Pred_Data (Data : in Perf_Fixed_Intent_Rec_Type; Success : out Boolean) is
730   730
731   731
732   732 --   LOCAL VARIABLES
733   733    Loc_Time_Stamp : Time_Stamp_Rec_Type;                                   -- Local Time Stamp record
734   734    Num_Of_Matches : Perf_Ads_Intent_Request_Tpkg.Request_Count_Type := 0;  -- Number of matches between predicted and
»  buffer
735   735                                                                   -- Ref IDs/Requested TTGs;  Initialize to
»  zero.
736   736
737   737    begin     --   procedure Perf_Ads_Interface_Dpkg.Put_Fixed_Intent_Pred_Data
738   738
739   739      Success := False;      --  Initialize
740   740
741   741      if Access_Granted (Fixed_Intent) then
742   742
743   743        Fixed_Intent_Buffer_Points:   -- Outer loop to step through all points in the existing Fixed Intent Buffer
744   744          for Buffer_Index in Perf_Ads_Intent_Request_Tpkg.Request_Index_Type range 1 .. Fixed_Intent_Data.Num_Of_Reques
»  ts loop
745   745
746   746            Fixed_Intent_Preds:   -- Inner loop to step through the predicted Fixed Intent points
747   747              for Preds_Index in Perf_Ads_Intent_Request_Tpkg.Request_Index_Type range 1 .. Data.Num_Of_Predicted_Points
»  loop
748   748
749   749                -- Check if buffer Reference ID and Requested TTG match the predicted data's Reference ID and Requested
»  TTG
750   750                if (Fixed_Intent_Data.Data (Buffer_Index).Requests.Reference_Id =
751   751                    Data.Data (Preds_Index).Requests.Reference_Id) and then
752   752                   (Fixed_Intent_Data.Data (Buffer_Index).Requests.Ttg = Data.Data (Preds_Index).Requests.Ttg) then
753   753
754   754                  -- The buffer's Reference ID and TTG match the predicted data's Reference ID and TTG, so copy the
755   755                  -- corresponding predicted data into the buffer record that corresponds to this Ref ID/Requested TTG.
756   756                  -- We cannot use a block copy of the complete Data.Data array because of the need to insure that
757   757                  -- the Reference ID and Requested TTG match.
758   758                  -- We do, however, use a block copy of the selected Data.Data record.  Even though this record contai
»  ns
759   759                  -- the requested Ref ID and TTG, it's okay to copy these values because we've just verified
760   760                  -- that they match.
761   761                  Fixed_Intent_Data.Data (Buffer_Index) := Data.Data (Preds_Index);
762   762
763   763                  Num_Of_Matches := Num_Of_Matches + 1;     -- Increment the "number of matches" counter
764   764
765   765                  exit Fixed_Intent_Preds;                 -- Exit the inner (Fixed_Intent_Preds) loop
766   766
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
767   767              end if;
768   768
769   769          end loop Fixed_Intent_Preds;
770   770
771   771        end loop Fixed_Intent_Buffer_Points;
772   772
773   773        -- Set the number of predicted points equal to the number of matched points, NOT the number of predicted poin
          » ts
774   774        -- passed in through the DATA parameter.
775   775        -- Some buffer points may be so new they're not predicted; similarly, some predicted points may no longer be
776   776        -- in the buffer, and are thus discarded.  The number of predicted points should represent the number of
777   777        -- buffer points that contain predicted data.
778   778      Fixed_Intent_Data.Num_Of_Predicted_Points := Num_Of_Matches;
779   779
780   780      -- Obtain and store the Time Stamp
781   781      Get_Time_Stamp (Loc_Time_Stamp);
782   782      Fixed_Intent_Data.Time_Stamp := Loc_Time_Stamp;
783   783
784   784      Fixed_Intent_Data.Preds_Recomputed_Timer := 0;          -- Reset the timer to zero
785   785
786   786      Access_Released (Fixed_Intent);
787   787      Success := True;
788   788    end if;
789   789
790   790   end Put_Fixed_Intent_Pred_Data;
791   791
792   792
793   793   function Ads_Is_Enabled return Boolean is
794   794
795   795
796   796   begin    --  function Perf_Ads_Interface_Dpkg.Ads_Is_Enabled
797   797
798   798     return (Options_And_Data_Pkg.Ats_Enable and then Atc_Discretes_Pkg.Ads_Enabled);
799   799
800   800   end Ads_Is_Enabled;
801   801
802   802
803   803   procedure Extract_Lgb_Predicted_Route_Data (Fpln : in Fmcs_Fp_Guid_Btypes.Flight_Plan_Id_Type; Success : out Boolean
          » ) is
804   804
805   805
806   806 --   LOCAL VARIABLES
807   807      Destglidx : Flight_Pln_Leg_Types.Leg_Index_Type;        -- Destination leg index
808   808      Activeglidx : Flight_Pln_Leg_Types.Leg_Index_Type;      -- Active leg index
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
809   809      Gleg : Flight_Pln_Leg_Types.Leg_Rec;                    -- Local copy of a guidance leg
810   810      Glidx : Flight_Pln_Leg_Types.Leg_Index_Type;           -- A generic guidance leg index
811   811      Guidhdr : Flight_Pln_Hdr_Types.Flight_Pln_Hdr_Rec;     -- Local copy of guidance header
812   812      Lastlegidx : Flight_Pln_Leg_Types.Leg_Index_Type;      -- Last-leg leg index
813   813      Loc_Req_Num_Wpts : Requested_Waypoints_Index_Type;     -- Local number of requested Pred Rte points
814   814      Nextgleg : Flight_Pln_Leg_Types.Leg_Rec;               -- Local copy of the next guidance leg
815   815      Numfoundpts : Predicted_Waypoints_Index_Type := 0;     -- Number of points found in flight plan; Initialize to zer
                » o
816   816      Success1 : Boolean := False;                           -- Success indicator; Initialize to False
817   817      Success2 : Boolean := False;                           -- Success indicator; Initialize to False
818   818      Success3 : Boolean := False;                           -- Success indicator; Initialize to False
819   819
820   820   begin     --  procedure Perf_Ads_Interface_Dpkg.Extract_Lgb_Predicted_Route_Data
821   821
822   822      --  Obtain the *current* number of requested Predicted Route Waypoints
823   823      Loc_Req_Num_Wpts := Get_Requested_Num_Waypoints;
824   824
825   825      --  Obtain some needed critical indices from the Guidance Header
826   826      Common_Lgb.Getlgbhdr (Fmcs_Fp_Guid_Btypes.Flight_Planning, Fpln, Guidhdr);
827   827      Glidx := Guidhdr.Critidx (Flight_Pln_Hdr_Types.Firstleg);
828   828      Lastlegidx := Guidhdr.Critidx (Flight_Pln_Hdr_Types.Lastleg);
829   829      Destglidx := Guidhdr.Critidx (Flight_Pln_Hdr_Types.Destwpt);
830   830
831   831      if Glidx /= 0 then
832   832         --
833   833         --  The first leg in the LGB is either the Origin waypoint (in Preflight) or the FROM
834   834         --  waypoint (all other cases with a flight plan).  The Guidance Leg needed is the next in the LGB.
835   835         --  If the leg index is zero, do nothing.  The next IF statement will handle this error case.
836   836         --
837   837         Common_Lgb.Getlgbleg (Fmcs_Fp_Guid_Btypes.Flight_Planning, Glidx, Gleg);
838   838         Glidx := Gleg.Nextfpn;
839   839         Activeglidx := Glidx;
840   840      end if;
841   841
842   842      if (Loc_Req_Num_Wpts = 0) or else (Glidx = Lastlegidx) or else (Glidx = 0) then
843   843         -- One of the following conditions are met:
844   844         --    - The newly-obtained number of requested Predicted Route Waypoints is zero;
845   845         --    - The First Leg Index = Last Leg Index, meaning there are no waypoints in the flight plan.
846   846         --    - The First Leg Index = 0, meaning something is wrong in the flight plan.
847   847         --  In any of these scenarios, do the following:
848   848         --    - Set the number of predicted waypoints to zero;
849   849         --    - Set the predicted data and non-predicted data validity flags to false
850   850         if Access_Granted (Predicted_Route) then
851   851            Predicted_Route_Data.Num_Of_Predicted_Waypoints := 0;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
852  852          Access_Released (Predicted_Route);
853  853          Success1 := True;
854  854        else
855  855          Success1 := False;
856  856        end if;
857  857
858  858        if Success1 then
859  859          Invalidate_Buffer_Preds (Buffer => Perf_Ads_Interface_Dpkg.Predicted_Route,
860  860                                   Success => Success2); -- Invalidate Pred Route Alt & TTG
861  861          if Success2 then
862  862            Invalidate_Pred_Route_Wpt_Data (Success => Success3); -- Invalidate Pred Route Wpt Ident/Lat/Lon
863  863          end if;
864  864        end if;
865  865
866  866        --  Determine the overall success of these tasks
867  867        Success := Success1 and then Success2 and then Success3;
868  868
869  869      else
870  870        --  The following conditions exist:
871  871        --    - The newly-obtained number of requested Predicted Route Waypoints is NOT zero;
872  872        --    - Waypoints exist in the flight plan;
873  873        --    - The First Leg Index does not equal zero;
874  874        --  Extract the data from each leg, looping until one of the following conditions are met:
875  875        --    - The number of requested Predicted Route Waypoints has been fulfilled;
876  876        --    - The Destination has been reached (if it exists);
877  877        --    - The last leg of the flight plan has been reached (if no Destination exists);
878  878        --    - The next leg index = 0, meaning something is wrong in the flight plan;
879  879        if Access_Granted (Predicted_Route) then
880  880          Predicted_Route_Data.Num_Of_Requested_Waypoints := Loc_Req_Num_Wpts;
881  881          loop
882  882            Common_Lgb.Getlgbleg (Fmcs_Fp_Guid_Btypes.Flight_Planning, Glidx, Gleg);
883  883
884  884            -- if the next leg is valid then retrieve it so we can check for next leg having an offset.
885  885            if (Gleg.Nextfpn /= 0) then
886  886              Common_Lgb.Getlgbleg (Fmcs_Fp_Guid_Btypes.Flight_Planning, Gleg.Nextfpn, Nextgleg);
887  887            end if;
888  888
889  889            if Is_Pred_Rte_Waypoint(Pathterm => Ps_Ads_Gleg.Pathterm,
890  890                                    Glidx => Glidx,
891  891                                    Activelidx => Activeglidx,
892  892                                    Is_Atc_Waypoint => Ps_Ads_Gleg.Atc_waypoint) then
893  893              --
894  894              --  Accept only legs with path termination of type 'xF' or HM exit fixes
895  895              --
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
896   896              Numfoundpts := Numfoundpts + 1;
897   897              --   Obtain the Pred Route Waypoint Lat/Lon
898   898              --   The Lat/Lon of the current leg's Turnpoint 3 is used if all of the following conditions are true:
899   899              --     - The current leg is part of a lateral offset;
900   900              --     - The next leg is available;
901   901              --     - The next leg is part of a lateral offset;
902   902              --   Otherwise, the Lat/Lon of the To waypoint is used.
903   903           --   Note that the "next leg is not available" condition must be tested BEFORE the "next leg is not part of a la
   » teral offset"
904   904              --   condition because if the next leg is NOT available, we don't want to look at the Nextgleg.
905   905              if Gleg.Cduoffset and then
906   906                 Gleg.Nextfpn /= 0 and then
907   907                 Nextgleg.Cduoffset then
908   908                 Predicted_Route_Data.Data (Numfoundpts).Lat_Lon := Gleg.Turnpt3;      -- Already normalized (-180 to +180
   » )
909   909              else
910   910                 Predicted_Route_Data.Data (Numfoundpts).Lat_Lon := Gleg.Tolatlon;      -- Already normalized (-180 to +18
   » 0)
911   911              end if;
912   912              Predicted_Route_Data.Data (Numfoundpts).Waypoint_Ident := Gleg.Fixident;
913   913           end if;
914   914
915   915           --
916   916           -- Determine if the Destination waypoint is in the Extracted Buffer
917   917           --
918   918           Predicted_Route_Data.Destination_Waypoint_Included := (Glidx = Destglidx) or else (Glidx = Lastlegidx);
919   919
920   920           exit when (Numfoundpts = Predicted_Route_Data.Num_Of_Requested_Waypoints + Pred_Rte_Pad) or else
921   921                     (Glidx = Destglidx) or else (Glidx = Lastlegidx) or else (Gleg.Nextfpn = 0);
922   922
923   923           Glidx := Gleg.Nextfpn;  -- Set the guidance leg index to point to the next waypoint
924   924        end loop;
925   925
926   926        Predicted_Route_Data.Num_Of_Predicted_Waypoints := Numfoundpts;
927   927        Predicted_Route_Data.Non_Predicted_Data_Is_Valid := True;   -- Set the non-predicted data validity flag to Tru
   » e
928   928
929   929        Access_Released (Predicted_Route);
930   930        Success := True;
931   931     else
932   932        Success := False;
933   933     end if;
934   934
935   935   end if;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
936    936
937    937    end Extract_Lgb_Predicted_Route_Data;
938    938
939    939
940    940    procedure Invalidate_Buffer_Preds (Buffer : in Frame_Type; Success : out Boolean) is
941    941
942    942
943    943    begin     --  procedure Perf_Ads_Interface_Dpkg.Invalidate_Buffer_Preds
944    944
945    945      Success := False;      --  Initialize
946    946
947    947      if (Buffer = Predicted_Route) and then Access_Granted (Predicted_Route) then
948    948        Predicted_Route_Data.Predicted_Data_Is_Valid := False;          -- Invalidate Pred Route Buffer's Alt & TTG
949    949        Access_Released (Predicted_Route);
950    950        Success := True;
951    951      elsif (Buffer = Intermediate_Intent) and then Access_Granted (Intermediate_Intent) then
952    952        Intermediate_Intent_Data.Predicted_Data_Is_Valid := False;     -- Invalidate Interm. Intent Dist, Track, Alt, &
       » TTG
953    953        Access_Released (Intermediate_Intent);
954    954        Success := True;
955    955      elsif (Buffer = Fixed_Intent) and then Access_Granted (Fixed_Intent) then
956    956        for Index in 1 .. Fixed_Intent_Data.Num_Of_Requests loop
957    957          Fixed_Intent_Data.Data (Index).Is_Valid := False;          -- Invalidate Fixed Intent Buffer's Lat, Lon, & A
       » lt
958    958        end loop;
959    959        Access_Released (Fixed_Intent);
960    960        Success := True;
961    961      end if;
962    962
963    963    end Invalidate_Buffer_Preds;
964    964
965    965
966    966    procedure Invalidate_Pred_Route_Wpt_Data (Success : out Boolean) is
967    967
968    968
969    969    begin     --  procedure Perf_Ads_Interface_Dpkg.Invalidate_Pred_Route_Wpt_Data
970    970
971    971      Success := False;      --  Initialize
972    972
973    973      if Access_Granted (Predicted_Route) then
974    974        Predicted_Route_Data.Non_Predicted_Data_Is_Valid := False;        -- Invalidate Pred Route Waypoint Ident & Lat/Lo
       » n
975    975        Access_Released (Predicted_Route);
976    976        Success := True;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
 977   977        end if;
 978   978
 979   979     end Invalidate_Pred_Route_Wpt_Data;
 980   980
 981   981
 982   982     procedure Shorten_Predicted_Route_Data (Success : out Boolean; --
 983   983                                              Num_Wpt_Sequenced : in Portable_Types_Pkg.Integer_32 := 0) is
 984   984
 985   985
 986   986        --
 987   987        --   LOCAL VARIABLES
 988   988        --
 989   989        Wpts_To_Delete : Portable_Types_Pkg.Integer_32 := Num_Wpt_Sequenced; -- Counter through the sequenced waypoints
 990   990
 991   991     begin      --   procedure Perf_Ads_Interface_Dpkg.Shorten_Predicted_Route_Data
 992   992
 993   993        Success := False;         --   Initialize
 994   994
 995   995        --
 996   996        -- If no waypoints are to be deleted, then just invalidate the predicted data.
 997   997        -- This should only occur when sequencing onto a hold or crossing the exit
 998   998        -- fix of a hold when not exiting
 999   999        --
1000  1000        if ( Wpts_To_Delete = 0 ) then
1001  1001
1002  1002          Predicted_Route_Data.Predicted_Data_Is_Valid := False;
1003  1003        else
1004  1004          --
1005  1005          --  Waypoints to delete, cycle through
1006  1006          --
1007  1007          while ( Wpts_To_Delete > 0 ) and then ( Predicted_Route_Data.Num_Of_Predicted_Waypoints > 0 ) loop
1008  1008
1009  1009            if Predicted_Route_Data.Num_Of_Predicted_Waypoints = 1 then
1010  1010              --
1011  1011              --   There's only one waypoint in the Predicted Route Buffer, so set the number of predicted waypoints
1012  1012              --   to zero and set the predicted data and non-predicted data validity flags to false:
1013  1013              Predicted_Route_Data.Num_Of_Predicted_Waypoints := 0;
1014  1014
1015  1015              -- Invalidate Pred Route Alt & TTG
1016  1016              Predicted_Route_Data.Predicted_Data_Is_Valid := False;
1017  1017
1018  1018              -- Invalidate Pred Route Wpt Ident/Lat/Lon
1019  1019              Predicted_Route_Data.Non_Predicted_Data_Is_Valid := False;
1020  1020
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1021  1021          elsif Predicted_Route_Data.Num_Of_Predicted_Waypoints > 1 then
1022  1022            --
1023  1023            --  Bump each waypoint and its data up one position in the Predicted Route Buffer
1024  1024            --
1025  1025            Predicted_Route_Data.Data( 1..Predicted_Route_Data.Num_Of_Predicted_Waypoints - 1 ) :=
1026  1026                Predicted_Route_Data.Data( 2..Predicted_Route_Data.Num_Of_Predicted_Waypoints );
1027  1027
1028  1028            --  Decrement the number of predicted waypoints by one
1029  1029            Predicted_Route_Data.Num_Of_Predicted_Waypoints := Predicted_Route_Data.Num_Of_Predicted_Waypoints - 1;
1030  1030          end if;
1031  1031
1032  1032          --
1033  1033          -- Decrement the waypoint counter
1034  1034          --
1035  1035          Wpts_To_Delete := Wpts_To_Delete - 1;
1036  1036        end loop;
1037  1037
1038  1038        Success := True;
1039  1039
1040  1040     end if;
1041  1041
1042  1042   end Shorten_Predicted_Route_Data;
1043  1043
1044  1044
1045  1045   procedure Put_Fpln_Modified (Data : in Boolean; --
1046  1046                                Invalidate_Buffer_Data : in Boolean; --
1047  1047                                Success : out Boolean;
1048  1048                                Num_Wpt_Sequenced : in Portable_Types_Pkg.Integer_32 := 0) is
1049  1049
1050  1050
1051  1051     Predicted_Frame_Success_1 : Boolean := False;
1052  1052
1053  1053   begin      --  procedure Perf_Ads_Interface_Dpkg.Fpln_Modified
1054  1054
1055  1055     Success := True;
1056  1056
1057  1057     --  If conditions dictate, invalidate the buffer data first
1058  1058     if Data then
1059  1059
1060  1060       --  The FPLN Modified request has been set True by FPLN
1061  1061       if Invalidate_Buffer_Data then
1062  1062         --
1063  1063         --  Invalidate the Pred Route Buffer data (signaled only by FPLN, but NOT due to a Lateral Sequence
1064  1064         -- Invalidate Pred Route Alt & TTG
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1065  1065                  --
1066  1066                  Invalidate_Buffer_Preds( Perf_Ads_Interface_Dpkg.Predicted_Route, Predicted_Frame_Success_1 );
1067  1067                  Success := Predicted_Frame_Success_1;
1068  1068                  Fpln_Event_Status.Fpln_Changed := True;
1069  1069                else
1070  1070                  --
1071  1071                  --   The FPLN Modified request has been sent by FPLN due only to a Lateral Sequence.  In this case,
1072  1072                  --   do NOT invalidate the Pred Route Buffer data. Also, do not unconditionally delete the first
1073  1073                  --   waypoint in the buffer. Wait until access has been granted.
1074  1074                  Fpln_Event_Status.Leg_Sequenced := True;
1075  1075                end if;
1076  1076              end if;
1077  1077
1078  1078
1079  1079           if Access_Granted( Predicted_Route ) then
1080  1080
1081  1081              --   Call the Shorten_Predicted_Route_Data procedure to delete the first waypoint in the buffer
1082  1082              --   if a waypoint has been sequenced.
1083  1083              --   Indicate to the Shorten procedure how many waypoints to shorten by.
1084  1084              if Fpln_Event_Status.Leg_Sequenced then
1085  1085                Shorten_Predicted_Route_Data(Success => Success, Num_Wpt_Sequenced => Num_Wpt_Sequenced);
1086  1086              end if;
1087  1087
1088  1088              --   Set the Fpln_Modified request
1089  1089              Predicted_Route_Data.Fpln_Modified := Data;
1090  1090              Access_Released( Predicted_Route );
1091  1091            else
1092  1092              Success := False;
1093  1093            end if;
1094  1094
1095  1095      end Put_Fpln_Modified;
1096  1096
1097  1097
1098  1098      function Get_Fpln_Event_Status return Fpln_Event_Rec_Type is
1099  1099
1100  1100         Loc_Fpln_Event_Status : Fpln_Event_Rec_Type;  -- Local copy of object manager data
1101  1101
1102  1102      begin    --   function Perf_Ads_Interface_Dpkg.Get_Fpln_Event_Status
1103  1103
1104  1104         --
1105  1105         -- Copy the official object manager data
1106  1106         --
1107  1107         Loc_Fpln_Event_Status := Fpln_Event_Status;  -- Copy the official data
1108  1108
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1109  1109       --
1110  1110       -- Invalidate the object manager data as it has been read now
1111  1111       --
1112  1112       Fpln_Event_Status := (False, False);
1113  1113

1114  1114       --
1115  1115       -- Return the status flags to the requestor
1116  1116       --
1117  1117       return Loc_Fpln_Event_Status;
1118  1118

1119  1119    end Get_Fpln_Event_Status;
1120  1120

1121  1121

1122  1122    procedure Purge_Fixed_Intent_Requests (Success : out Boolean) is
1123  1123

1124  1124

1125  1125    begin    --  procedure Perf_Ads_Interface_Dpkg.Purge_Fixed_Intent_Requests
1126  1126

1127  1127       -- Attempt to gain access to the fixed intent requests.
1128  1128       if Access_Granted (Fixed_Intent) then
1129  1129

1130  1130          Fixed_Intent_Data :=
1131  1131             (Num_Of_Requests => 0,
1132  1132              Num_Of_Predicted_Points => 0,
1133  1133              Time_Stamp => (Time => (Hours => 0, Minutes => 0, Seconds => 0), Is_Valid => False, Clock_Source_Is_Gps => F
               » alse),
1134  1134              Preds_Recomputed_Timer => 0,
1135  1135              Data => (others => (Lat_Lon => (Lat => 0.0, Lon => 0.0),
1136  1136                                  Altitude => 0.0,
1137  1137                                  Requests => (Reference_Id => 0, Ttg => 0),
1138  1138                                  Predicted_Ttg => 0,
1139  1139                                  Is_Valid => False)));
1140  1140

1141  1141          -- If we have made it this far, set 'success' flag to 'true.'
1142  1142          Success := True;
1143  1143

1144  1144          -- Release access.
1145  1145          Access_Released (Fixed_Intent);
1146  1146

1147  1147       else
1148  1148          -- We did not gain access to the fixed intent requests.
1149  1149          Success := False;
1150  1150       end if;  -- locked?
1151  1151
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1152  1152    end Purge_Fixed_Intent_Requests;
1153  1153
1154  1154
1155  1155    function All_Waypoints_Available return Boolean is
1156  1156
1157  1157
1158  1158    begin
1159  1159
1160  1160      return (Predicted_Route_Data.Num_Of_Predicted_Waypoints >= Predicted_Route_Data.Num_Of_Requested_Waypoints) or els
           » e
1161  1161              Predicted_Route_Data.Destination_Waypoint_Included;
1162  1162
1163  1163    end All_Waypoints_Available;
1164  1164
1165  1165
1166  1166    function Is_Pred_Rte_Waypoint
1167  1167      (
1168  1168      Pathterm   : in Lateral_Path_Type_Tpkg.Pathtype;
1169  1169      Glidx      : in Flight_Pln_Leg_Types.Leg_Index_Type;
1170  1170      Activelidx : in Flight_Pln_Leg_Types.Leg_Index_Type;
1171  1171      Is_Atc_Waypoint  : in Boolean
1172  1172      ) return Boolean is
1173  1173
1174  1174     Loc_Success  : Boolean := False;
1175  1175    begin
1176  1176      --
1177  1177      -- Only ATC waypoints are to be included in the ADS Predicted Route:
1178  1178      -- HM exit fix is included only when it is the Active leg for Guidance (it represents the TO waypoint)
1179  1179      -- and it is also an ATC waypoint or an HA ident is included if it is the active leg,
1180  1180      -- otherwise all ATC waypoints (if within frame range) should be included
1181  1181      --
1182  1182
1183  1183      if ( Is_Atc_Waypoint or else Pathterm = Lateral_Path_Type_Tpkg.Ha) then
1184  1184
1185  1185        Loc_Success := True;
1186  1186
1187  1187        if ((Pathterm = Lateral_Path_Type_Tpkg.Hm  or else Pathterm = Lateral_Path_Type_Tpkg.Ha) and then Glidx /= Activ
           » elidx) then
1188  1188
1189  1189          Loc_Success := False;
1190  1190
1191  1191        end if;
1192  1192
1193  1193      end if;
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1194  1194
1195  1195      return Loc_Success;
1196  1196    end Is_Pred_Rte_Waypoint;
1197  1197
1198  1198
1199  1199    procedure Get_ATC_Ident (ATC_Wpt_Ident : out Base_Domain_Services_Tpkg.String_17_Type ) is   -- ATC formatted fix id
                » ent
1200  1200 -- An ICD update needs to be completed before this procedure can be used.  Since the interface
1201  1201 -- spec has already been defined, this procedure needs a body.
1202  1202 -- No calls are made to this procedure and once the ICD is updated, this procedure can be used as intended, and this c
                » omment removed
1203  1203
1204  1204
1205  1205
1206  1206    --LOCAL VARIABLES
1207  1207    Temp_Lat_Lon_Rec : Atc_Msg_Common_Types_Pkg.Atc_Lat_Lon_Rec; --holds the record set returned from Convert_Saf call
1208  1208    Temp_Brg         : Portable_Types_Pkg.Integer_32;      --holds bearing to be converted to a string
1209  1209
1210  1210    begin    --  procedure Get_ATC_Ident
1211  1211
1212  1212      ATC_Wpt_Ident(1..17) := "                 "; --initialize/clear waypoint ident
1213  1213
1214  1214      if ((Ps_Ads_Gleg.Llfixtype = Fmcs_Fp_Guid_Btypes.Pbdwpt) and then (Ps_Ads_Gleg.Fixbrgdisval)) then
1215  1215
1216  1216        ATC_Wpt_Ident(1..7) := Ps_Ads_Gleg.Parent1_Ident(1..7);   --get Parent fix ident
1217  1217
1218  1218
1219  1219        --Bearing sent to ATC by the ADS will always be magnetic north referenced,
1220  1220        --regardless of how the pilot entered the bearing and independent of the true/mag switch setting.
1221  1221        Temp_Brg := Portable_Types_Pkg.Integer_32(Ps_Ads_Gleg.Fixbrgmag);
1222  1222
1223  1223        if ( Temp_Brg < 0 ) then --scale range 0 to 360, instead of -180 to 180
1224  1224          Temp_Brg := 360 + Temp_Brg;
1225  1225        end if;
1226  1226
1227  1227        ATC_Wpt_Ident(8..11) := "/" & Number_To_Text_Pkg.String_Of(Integer_Number => Temp_Brg,
1228  1228                                                              Width => 3,
1229  1229                                                              Fill_Type => Text_Format_Tpkg.Zero_Fill,
1230  1230                                                              Justification => Text_Format_Tpkg.Right_Justify);
1231  1231
1232  1232        --check the distance and put on the end of string
1233  1233        ATC_Wpt_Ident(12..17) := "/" & Number_To_Text_Pkg.String_Of(Float_Number => Portable_Types_Pkg.Float_64 (Ps_Ads_G
                » leg.Fixdist),
1234  1234                                                              Width => 5,
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1235  1235                                                                Decimal_Places => 1,
1236  1236                                                                Fill_Type => Text_Format_Tpkg.Zero_Fill,
1237  1237                                                                Justification => Text_Format_Tpkg.Right_Justify);
1238  1238
1239  1239        elsif (Ps_Ads_Gleg.Llfixtype = Fmcs_Fp_Guid_Btypes.Plainlatlon) then
1240  1240
1241  1241           --convert to deg/min format and store in a temp record
1242  1242           Temp_Lat_Lon_Rec := Fmf_Fpi_Atc_Common_Util_Pkg.Convert_Saf (To_Lat_Lon => Ps_Ads_Gleg.tolatlon);
1243  1243
1244  1244           --convert numerical values to a string and concatenate into ATC waypoint ident
1245  1245           ATC_Wpt_Ident(1..2) := Number_To_Text_Pkg.String_Of(Integer_Number => Temp_Lat_Lon_Rec.Latitude.Degrees,
1246  1246                                                      Width => 2,
1247  1247                                                      Fill_Type => Text_Format_Tpkg.Zero_Fill,
1248  1248                                                      Justification => Text_Format_Tpkg.Right_Justify);
1249  1249
1250  1250           --round and scale LAT minutes
1251  1251           Temp_Lat_Lon_Rec.Latitude.Minutes := Portable_Types_Pkg.Integer_32(
1252  1252                                          Math_Pkg.Round(Portable_Types_Pkg.Float_32(Temp_Lat_Lon_Rec.Latitude.Minut
      » es) * 0.1));
1253  1253
1254  1254           if (Temp_Lat_Lon_Rec.Latitude.Minutes = 60 ) then
1255  1255               Temp_Lat_Lon_Rec.Latitude.Minutes:= 0;
1256  1256           end if;
1257  1257
1258  1258           ATC_Wpt_Ident(3..5) := ":" & Number_To_Text_Pkg.String_Of(Integer_Number =>
1259  1259                                                      Portable_Types_Pkg.Integer_32 (Temp_Lat_Lon_Rec.Latit
      » ude.Minutes),
1260  1260                                                      Width => 2,
1261  1261                                                      Fill_Type => Text_Format_Tpkg.Zero_Fill,
1262  1262                                                      Justification => Text_Format_Tpkg.Right_Justify);
1263  1263
1264  1264           if (Temp_Lat_Lon_Rec.Latitude.Direction = Atc_Msg_Common_Types_Pkg.North) then  --determine latitude direction
1265  1265             ATC_Wpt_Ident(6..7) := "N/";
1266  1266           else
1267  1267             ATC_Wpt_Ident(6..7) := "S/";
1268  1268           end if;
1269  1269
1270  1270
1271  1271           ATC_Wpt_Ident(8..10) := Number_To_Text_Pkg.String_Of(Integer_Number => Temp_Lat_Lon_Rec.Longitude.Degrees,
1272  1272                                                      Width => 3,
1273  1273                                                      Fill_Type => Text_Format_Tpkg.Zero_Fill,
1274  1274                                                      Justification => Text_Format_Tpkg.Right_Justify);
1275  1275
1276  1276           --round and scale LON minutes
```

File: CTP_A350_PERF_ADS_INTERFACE.STB (continued)

```
1277  1277        Temp_Lat_Lon_Rec.Longitude.Minutes := Portable_Types_Pkg.Integer_32(
1278  1278                              Math_Pkg.Round(Portable_Types_Pkg.Float_32(Temp_Lat_Lon_Rec.Longitude.Min
      » utes) * 0.1));
1279  1279
1280  1280        if (Temp_Lat_Lon_Rec.Longitude.Minutes = 60 ) then
1281  1281           Temp_Lat_Lon_Rec.Longitude.Minutes := 0;
1282  1282        end if;
1283  1283
1284  1284        ATC_Wpt_Ident(11..13) := ":" & Number_To_Text_Pkg.String_Of(Integer_Number =>
1285  1285                              Portable_Types_Pkg.Integer_32 (Temp_Lat_Lon_Rec.Longi
      » tude.Minutes),
1286  1286                              Width => 2,
1287  1287                              Fill_Type => Text_Format_Tpkg.Zero_Fill,
1288  1288                              Justification => Text_Format_Tpkg.Right_Justify);
1289  1289
1290  1290        if (Temp_Lat_Lon_Rec.Longitude.Direction = Atc_Msg_Common_Types_Pkg.East) then  --determine longitude direction
1291  1291           ATC_Wpt_Ident(14..14) := "E";
1292  1292        else
1293  1293           ATC_Wpt_Ident(14..14) := "W";
1294  1294        end if;
1295  1295
1296  1296     else
1297  1297
1298  1298        ATC_Wpt_Ident(1..7) := Ps_Ads_Gleg.Fixident;
1299  1299
1300  1300     end if;
1301  1301
1302  1302  end Get_ATC_Ident;
1303  1303
1304  1304 end Perf_Ads_Interface_Dpkg;
```

Mode: All Lines

File: CTP_A350_Io_Engine_Data_Dpkg.STB

```
   1      1 --
   2      2 --      STUB File
   3      3 --
   4      4 --      CTP_A350_Io_Engine_Data_Dpkg.STB
   5      5 --
   6      6 --      REASONS FOR STUBBING : function  Wing_Anti_Ice.Data, Wing_Anti_Ice.Is_Valid, Engine_Anti_Ice.Data, Engine_Anti_I
            » ce..Is_Valid
   7      7 --                       Air_Conditioning.Data, Air_Conditioning.Is_Valid are stubbed out
   8      8
   9      9 --      File Name: PRF_BKGND_PKG_GET_BK_DATA.ADA
  10     10
  11     11
  12     12 with Base_Domain_Services_Tpkg;
  13     13 with Fmcs_Partition_Data_Pkg;
  14     14 --with Io_PRIM_Sel_Pkg;
  15     15 with Io_PRIM_1_Sel_Pkg;
  16     16
  17     17 with Io_Pcs_Sel_Pkg;
  18     18 with CTP_A350_PERF_BKGND_GET_BK_DATA;
  19     19 use CTP_A350_PERF_BKGND_GET_BK_DATA;
  20     20
  21     21 use Base_Domain_Services_Tpkg;
  22     22
  23     23 package body Io_Engine_Data_Dpkg is
  24     24
  25     25
  26     26
  27     27   package body Anti_Ice is    --
  28     28
  29     29
  30     30        function Data return Boolean is
  31     31
  32     32
  33     33       Sel_Anti_Ice : Boolean := False;
  34     34
  35     35       begin
  36     36
  37     37         Sel_Anti_Ice:= CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Anti_Ice_Data;
  38     38
  39     39         return Sel_Anti_Ice;
  40     40
  41     41        end Data;
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
42     42
43     43            function Is_Valid return Boolean is
44     44            begin
45     45
46     46               return CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid;
47     47
48     48            end Is_Valid;
49     49
50     50      end Anti_Ice;
51     51
52     52
53     53        package body Wing_Anti_Ice is    --
54     54
55     55
56     56            function Data return Boolean is
57     57
58     58              Sel_Wing_Anti_Ice : Boolean := False;
59     59           begin
60     60
61     61               Sel_Wing_Anti_Ice := CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Wing_Anti_Ice_Data;
62     62               return Sel_Wing_Anti_Ice;
63     63
64     64            end Data;
65     65
66     66            function Is_Valid return Boolean is
67     67
68     68            begin
69     69
70     70                return CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid;
71     71
72     72            end Is_Valid;
73     73
74     74        end Wing_Anti_Ice;
75     75
76     76
77     77        package body Engine_Anti_Ice is
78     78
79     79
80     80
81     81
82     82            function Data return Boolean is
83     83
84     84            Sel_Eng_Anti_Ice : Boolean := False;
85     85
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
 86    86        begin
 87    87
 88    88           Sel_Eng_Anti_Ice := CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Eng_Anti_Ice_Data;
 89    89           return Sel_Eng_Anti_Ice;
 90    90
 91    91         end Data;
 92    92
 93    93         function Is_Valid return Boolean is
 94    94         begin
 95    95
 96    96           return CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid;
 97    97
 98    98         end Is_Valid;
 99    99
100   100      end Engine_Anti_Ice;
101   101
102   102      package body Air_Conditioning is
103   103
104   104         function Data return Boolean is
105   105
106   106         Sel_Air_Cond : Boolean := False;
107   107
108   108         begin
109   109
110   110          Sel_Air_Cond := CTP_A350_PERF_BKGND_GET_BK_DATA.Sel_Air_Cond_Data;
111   111          return Sel_Air_Cond;
112   112
113   113         end Data;
114   114
115   115         function Is_Valid return Boolean is
116   116         begin
117   117
118   118         return CTP_A350_PERF_BKGND_GET_BK_DATA.Is_Valid;
119   119
120   120         end Is_Valid;
121   121
122   122      end Air_Conditioning;
123   123
124   124    package body Engine_Thrust_Sufficiency is
125   125
126   126         function Data return Boolean is --
127   127         begin
128   128           --|return (Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine2_Above_8
                  » 5pcts and then
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
129  129              --|           Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine3_Above_8
             » 5pcts);
130  130
131  131          if( (Io_Pcs_Sel_Pkg.Io_Pcs_Selected_Source.Pcs1.all.Io_EIF_ENGINE_DATA_MSG_Rec.ENGINE_STATUS_DIS.ENG_AT_TAKE_O
             » FF_POWER)
132  132              and then
133  133              (Io_Pcs_Sel_Pkg.Io_Pcs_Selected_Source.Pcs2.all.Io_EIF_ENGINE_DATA_MSG_Rec.ENGINE_STATUS_DIS.ENG_AT_TAKE_O
             » FF_POWER) )
134  134              then
135  135
136  136          return True;
137  137
138  138        else
139  139
140  140          return False;
141  141
142  142        end if;
143  143        end Data;
144  144
145  145        function Is_Valid return Boolean is --
146  146        begin
147  147          --|return (Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5);
148  148
149  149        if( (Io_Pcs_Sel_Pkg.Io_Pcs_Selected_Source.Pcs1.all.Io_EIF_ENGINE_DATA_MSG_Validity_Rec.ENGINE_STATUS_DIS) and t
             » hen
150  150            (Io_Pcs_Sel_Pkg.Io_Pcs_Selected_Source.Pcs2.all.Io_EIF_ENGINE_DATA_MSG_Validity_Rec.ENGINE_STATUS_DIS) ) the
             » n
151  151
152  152          return True;
153  153
154  154        else
155  155
156  156          return False;
157  157
158  158        end if;
159  159
160  160        end Is_Valid;
161  161
162  162    end Engine_Thrust_Sufficiency;
163  163
164  164    package body Engines_Off is    --
165  165
166  166        function Data return Boolean is
167  167        begin
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
168  168            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engines_Off;
169  169            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engines_Off;
170  170          end Data;
171  171
172  172          function Is_Valid return Boolean is
173  173          begin
174  174            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
175  175            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5;
176  176          end Is_Valid;
177  177
178  178      end Engines_Off;
179  179
180  180      package body Inboard_Engine_Healthy_1 is    --
181  181
182  182          function Data return Boolean is
183  183          begin
184  184            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine_Healthy_1
              » _Inboard;
185  185            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_
              » 1_Inboard;
186  186          end Data;
187  187
188  188          function Is_Valid return Boolean is
189  189          begin
190  190            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
191  191            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5;
192  192          end Is_Valid;
193  193
194  194      end Inboard_Engine_Healthy_1;
195  195
196  196      package body Inboard_Engine_Healthy_2 is    --
197  197
198  198          function Data return Boolean is
199  199          begin
200  200            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine_Healthy_2
              » _Inboard;
201  201            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Rec.FRAME_40_Disc_Word_5.Engine_Healthy_
              » 2_Inboard;
202  202          end Data;
203  203
204  204          function Is_Valid return Boolean is
205  205          begin
206  206            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
207  207            return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_40_BLK0_Validity_Rec.FRAME_40_Disc_Word_5;
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
208   208        end Is_Valid;
209   209
210   210     end Inboard_Engine_Healthy_2;
211   211
212   212     package body Inboard_Throttle_Lever_Angle_1 is
213   213
214   214        function Data return Portable_Types_Pkg.Float_32 is --
215   215        begin
216   216           return 0.0;
217   217
218   218        end Data;
219   219
220   220        function Is_Valid return Boolean is --
221   221        begin
222   222
223   223           return False;
224   224
225   225        end Is_Valid;
226   226
227   227     end Inboard_Throttle_Lever_Angle_1;
228   228
229   229     package body Inboard_Throttle_Lever_Angle_2 is
230   230
231   231        function Data return Portable_Types_Pkg.Float_32 is --
232   232        begin
233   233
234   234           return 0.0;
235   235
236   236        end Data;
237   237
238   238        function Is_Valid return Boolean is --
239   239        begin
240   240
241   241           return false;
242   242
243   243        end Is_Valid;
244   244
245   245     end Inboard_Throttle_Lever_Angle_2;
246   246
247   247     package body Outboard_Engine_Healthy_1 is    --
248   248
249   249        function Data return Boolean is
250   250        begin
251   251           --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine_Healthy_1
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
                 » _Outboard;
   252    252              return TRUE;
   253    253          end Data;
   254    254
   255    255       function Is_Valid return Boolean is
   256    256       begin
   257    257          --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
   258    258          return TRUE;
   259    259       end Is_Valid;
   260    260
   261    261   end Outboard_Engine_Healthy_1;
   262    262
   263    263   package body Outboard_Engine_Healthy_2 is    --
   264    264
   265    265       function Data return Boolean is
   266    266       begin
   267    267          --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine_Healthy_2
                 » _Outboard;
   268    268              return TRUE;
   269    269          end Data;
   270    270
   271    271       function Is_Valid return Boolean is
   272    272       begin
   273    273          --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
   274    274          return TRUE;
   275    275       end Is_Valid;
   276    276
   277    277   end Outboard_Engine_Healthy_2;
   278    278
   279    279   package body Outboard_Throttle_Lever_Angle_1 is --
   280    280
   281    281       function Data return Portable_Types_Pkg.Float_32 is --
   282    282       begin
   283    283          --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK1_Rec.Selected_Tla_1_Outboard;
   284    284          return 0.0;
   285    285       end Data;
   286    286
   287    287       function Is_Valid return Boolean is --
   288    288       begin
   289    289          --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK1_Validity_Rec.Selected_Tla_1_Outboard;
   290    290          return FALSE;
   291    291       end Is_Valid;
   292    292
   293    293   end Outboard_Throttle_Lever_Angle_1;
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
294  294
295  295    package body Outboard_Throttle_Lever_Angle_2 is --
296  296
297  297        function Data return Portable_Types_Pkg.Float_32 is --
298  298        begin
299  299            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK1_Rec.Selected_Tla_2_Outboard;
300  300            return 0.0;
301  301        end Data;
302  302
303  303        function Is_Valid return Boolean is --
304  304        begin
305  305            --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK1_Validity_Rec.Selected_Tla_2_Outboard;
306  306            return FALSE;
307  307        end Is_Valid;
308  308
309  309    end Outboard_Throttle_Lever_Angle_2;
310  310
311  311    package body Flex_Climb_Active is --
312  312
313  313    function Data return Boolean is
314  314    begin
315  315      --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Flex_Climb_Active;
316  316      return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Rec.FRAME_120_Disc_Word_8.Flex_Climb_Active
       » ;
317  317    end Data;
318  318
319  319    function Is_Valid return Boolean is
320  320    begin
321  321      --|return Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_5;
322  322      return Io_PRIM_1_Sel_Pkg.The_Selected_PRIM_1.all.Io_FRAME_1_120_BLK0_Validity_Rec.FRAME_120_Disc_Word_8;
323  323    end Is_Valid;
324  324
325  325    end Flex_Climb_Active;
326  326
327  327    package body Data_Select is    --
328  328
329  329        function Data (Data1: in Boolean; Valid1: in Boolean; Data2: in Boolean; Valid2: in Boolean) return Boolean is
330  330        begin
331  331
332  332            --|return (Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Wing_Anti_Ice or
       » --
333  333            --|         Io_PRIM_Sel_Pkg.The_Selected_PRIM.all.Io_FRAME_120_BLK0_Rec.FRAME_120_Disc_Word_5.Engine_Anti_Ice)
       » ;
334  334
```

File: CTP_A350_Io_Engine_Data_Dpkg.STB (continued)

```
335    335           if( (Data1 and Valid1) or (Data2 and Valid2) ) then
336    336
337    337              return True;
338    338
339    339           else
340    340
341    341              return False;
342    342
343    343           end if;
344    344
345    345        end Data;
346    346
347    347     end Data_Select;
348    348
349    349  end Io_Engine_Data_Dpkg;
350    350
```

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_GB_DATA.STB

```
     1      1 --
     2      2 --      STUB File
     3      3 --
     4      4 --      CTP_A350_PERF_BKGND_GET_GB_DATA.STB
     5      5 --
     6      6 --      REASONS FOR STUBBING : PROCEDURE  Get_Gb_Data  in Prf_External_Util_Pkg is stubbed out
     7      7 --      File Name: PRF_BKGND_PKG_GET_GB_DATA.ADA
     8      8
     9      9 with Fmcs_Base_Types;               -- common
    10     10 with Fmcs_Fp_Guid_Btypes;           -- common
    11     11 with Fmcs_Partition_Data_Pkg;       -- common
    12     12 with Fprequestrec_Types;            -- shared fmf types
    13     13 with Perf_Ext_Tpkg;                 -- shared fmf types
    14     14 with Perf_Background_Dpkg;          -- perf
    15     15 with Perf_Despath_Dpkg;             -- perf
    16     16 with Perf_Dpkg;                     -- perf
    17     17 with Perf_Int_Base_Tpkg;            -- perf
    18     18
    19     19
    20     20 with ctp_A350_perf_bkgnd_get_bk_data;
    21     21
    22     22 -- Needed for operator visibility
    23     23 use Fmcs_Fp_Guid_Btypes;
    24     24
    25     25 separate (Prf_Bkgnd_Pkg)
    26     26 procedure Get_Gb_Data is
    27     27
    28     28 begin   --  procedure Get_Gb_Data
    29     29
    30     30   Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Get_Gb_Data_Exec := True;
    31     31
    32     32 end Get_Gb_Data;
```

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_KY_DATA.STB

```
  1      1 |--
  2      2 |--       STUB File
  3      3 |--
  4      4 |--       CTP_A350_PERF_BKGND_GET_KY_DATA.STB
  5      5 |--
  6      6 |--       REASONS FOR STUBBING : PROCEDURE GET_ky_DATA  in Prf_External_Util_Pkg is stubbed out
  7      7 |--       File Name:PRF_BKGND_PKG_GET_KY_DATA.ADA
  8      8 |
  9      9 |with Portable_Types_Pkg;            --   common_sw
 10     10 |with Fmcs_Base_Types;               --   common
 11     11 |with Fmcs_Partition_Data_Pkg;       --   common
 12     12 |with Perf_Buffer_Types;             --   gray
 13     13 |with Conversion_Const_Pkg;          --   shared types
 14     14 |with Cdk_Fuel_Weight_Tpkg;          --   shared fmf types
 15     15 |with Cdk_Vert_Tpkg;                 --   shared fmf types
 16     16 |with Fprequestrec_Types;            --   shared fmf types
 17     17 |with Perf_Despath_Tpkg;             --   shared fmf types
 18     18 |with Cdk_Vert_Dpkg;                 --   shared fmf objects
 19     19 |with Perf_Despath_Dpkg;             --   shared fmf objects
 20     20 |with Perf_Rt_Speeds_Dpkg;           --   shared fmf objects
 21     21 |with Perf_Background_Dpkg;          --   perf
 22     22 |with Perf_Config_Dpkg;              --   perf
 23     23 |with Perf_Dpkg;                     --   perf
 24     24 |with Perf_Integration_Dpkg;         --   perf
 25     25 |with Perf_Int_Base_Tpkg;            --   perf
 26     26 |
 27     27 |with Ctp_A350_Perf_Bkgnd_Get_Bk_Data;
 28     28 |
 29     29 |-- Packages used to obtain operator visibility
 30     30 |use Cdk_Fuel_Weight_Tpkg;
 31     31 |use Cdk_Vert_Tpkg;
 32     32 |use Conversion_Const_Pkg;
 33     33 |use Fmcs_Base_Types;
 34     34 |use Fprequestrec_Types;
 35     35 |use Perf_Int_Base_Tpkg;
 36     36 |use Portable_Types_Pkg;
 37     37 |
 38     38 |separate (Prf_Bkgnd_Pkg)
 39     39 |procedure Get_Ky_Data is
 40     40 |
 41     41 |
 42     42 |begin     --  Procedure Prf_Bkgnd_Pkg.Get_Ky_Data
```

File: CTP_A350_PERF_BKGND_GET_KY_DATA.STB (continued)

43	43	
44	44	Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Get_Ky_Data_Exec := True;
45	45	
46	46	end Get_Ky_Data;

Mode: All Lines

File: CTP_A350_PERF_BKGND_GET_PB_DATA.STB

```
  1      1 --
  2      2 --      STUB File
  3      3 --
  4      4 --      CTP_A350_PERF_BKGND_GET_PB_DATA.STB
  5      5 --
  6      6 --      REASONS FOR STUBBING : PROCEDURE  Get_Pb_Data  in Prf_External_Util_Pkg is stubbed out
  7      7
  8      8 --      File Name: PRF_BKGND_PKG_GET_PB_DATA.ADA
  9      9
 10     10 with Portable_Types_Pkg;         -- common sw
 11     11 with Fmcs_Base_Types;            -- common
 12     12 with Base_Domain_Services_Tpkg;  -- common
 13     13 with Io_Interface_Tpkg;          -- common
 14     14 with Fprequestrec_Types;         -- shared fmf types
 15     15 with Perf_Buffer_Types;          -- shared fmf types
 16     16 with Perf_Ext_Tpkg;              -- shared fmf types
 17     17 with Takeoff_Alt_Types;          -- shared fmf types
 18     18 with Perf_Ads_Interface_Dpkg;    -- shared fmf objects
 19     19 with Perf_Ads_Dpkg;              -- perf
 20     20 with Perf_Background_Dpkg;        -- perf
 21     21 with Perf_Dpkg;                  -- perf
 22     22 with Perf_Int_Base_Tpkg;         -- perf
 23     23 with ctp_A350_perf_bkgnd_get_bk_data;
 24     24
 25     25 -- Needed for operator visibility
 26     26 use Fmcs_Base_Types;
 27     27 use Base_Domain_Services_Tpkg;
 28     28 use Io_Interface_Tpkg;
 29     29 use Fprequestrec_Types;
 30     30 use Perf_Buffer_Types;
 31     31 use Perf_Ext_Tpkg;
 32     32 use Perf_Int_Base_Tpkg;
 33     33 use Portable_Types_Pkg;
 34     34
 35     35 separate (Prf_Bkgnd_Pkg)
 36     36 procedure Get_Pb_Data is
 37     37
 38     38 begin  --  Procedure Prf_Bkgnd_Pkg.Get_Pb_Data
 39     39
 40     40   Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Get_Pb_Data_Exec := True;
 41     41
 42     42 end Get_Pb_Data;
```

Mode: All Lines

File: CTP_A350_PERF_BUFFER.STB

```
     1      1 --
     2      2 --      STUB File
     3      3 --
     4      4 --        CTP_A350_PERF_BUFFER.STB
     5      5 --
     6      6 --      REASONS FOR STUBBING :  PROCEDURE Getperfleg in Perf_Buffer is stubbed out
     7      7 --
     8      8
     9      9 --
    10     10 -- File Name: perf_buffer.ada
    11     11 --
    12     12
    13     13 with Portable_Types_Pkg;         -- common sw
    14     14 with Apex_Types_Pkg;             -- common
    15     15 with Apex_Partition_Pkg;         -- common
    16     16 with Bite_Fault_Recovery_Tpkg;   -- common
    17     17 with Bite_Recover_Gpkg;          -- common
    18     18 with Fmcs_Base_Types;            -- common
    19     19 with Base_Domain_Services_Tpkg;  -- common
    20     20 with Io_Interface_Tpkg;          -- common
    21     21 with Lateral_Path_Type_Tpkg;     -- common
    22     22 with Ndb_Tpkg;                   -- common
    23     23 with Ops_Data_Retained_Pkg;      -- common
    24     24 with Perf_Buffer_Types;          -- shared fmf types
    25     25 with Ctp_A350_Perf_Bkgnd_Get_Bk_data;
    26     26
    27     27 use Fmcs_Base_Types;
    28     28 use Base_Domain_Services_Tpkg;
    29     29 use Io_Interface_Tpkg;
    30     30 use Lateral_Path_Type_Tpkg;
    31     31 use Ndb_Tpkg;
    32     32 use Portable_Types_Pkg;
    33     33
    34     34 package body Perf_Buffer is
    35     35
    36     36
    37     37   Max_Routes : Perf_Route_Type;
    38     38
    39     39   type Access_Type is (Read, Write);
    40     40
    41     41   -- The following type is used instead of Boolean because HADS does
    42     42   -- not handle boolean array indexes correctly.
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
43   43   type Corruption_Leg_Array is array (Perf_Leg_Type range 1 .. Perf_Leg_Type'Last) of Boolean;
44   44   type Corruption_Array is array (Perf_Process_Val range Perf_Process_Val'First .. Perf_Process_Val'Last) of Corruptio
       » n_Leg_Array;
45   45
46   46   type Perf_Route_Rec is
47   47     record
48   48       Pb_Data : Perf_Route;
49   49       Perf_Has_Updated_Route : Boolean;
50   50       Writer : Perf_Process_Val;
51   51       Guard : Corruption_Array;
52   52     end record;
53   53
54   54   type Perf_Route_Array is array (Perf_Route_Type range 1 .. Perf_Route_Type'Last) of Perf_Route_Rec;
55   55   Perf_Routes : Perf_Route_Array;
56   56
57   57   New_Lock_Level : Apex_Partition_Pkg.Lock_Level_Type;
58   58   Comp_Status : Apex_Types_Pkg.Status_Code_Type;
59   59
60   60   --
61   61   -- BITE fault code and error subcodes for PDB errors
62   62   --
63   63   Perf_Db_Fault_Code : constant Portable_Types_Pkg.Byte_Type := 29;  -- Fault code designated by BITE
64   64   Pb_Route_Out_Of_Range : constant Portable_Types_Pkg.Byte_Type := 0;
65   65
66   66   type Bite_Recover_Rec is
67   67     record
68   68       User : Perf_Process_Val;
69   69       Route : Perf_Route_Type;
70   70       Max_Routes : Perf_Route_Type;
71   71     end record;
72   72
73   73   Bite_Data : Bite_Recover_Rec;
74   74
75   75
76   76   package Call_Bite is new Bite_Recover_Gpkg (Data_Type => Bite_Recover_Rec);
77   77
78   78
79   79   function Is_Mcdu_Pseudo (Pleg : in Perf_Leg_Type) return Boolean is
80   80
81   81   begin
82   82     return ((Pleg = Perf_Buffer_Types.Clb_Spdlim) or else (Pleg = Perf_Buffer_Types.Toc) or else
83   83             (Pleg = Perf_Buffer_Types.Tod1) or else (Pleg = Perf_Buffer_Types.Des_Spdlim) or else
84   84             (Pleg = Perf_Buffer_Types.Decelpt) or else (Pleg in Perf_Buffer_Types.Timemark1 .. Perf_Buffer_Types.Timem
       » ark4) or else
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
 85    85            (Pleg in Perf_Buffer_Types.Stpstart1 .. Perf_Buffer_Types.PossibleStepEnd'Last));
 86    86      end Is_Mcdu_Pseudo;
 87    87
 88    88
 89    89      function No_Of_Routes return Perf_Route_Type is
 90    90
 91    91      begin
 92    92        return Max_Routes;
 93    93      end No_Of_Routes;
 94    94
 95    95
 96    96
 97    97      procedure Init (No_Of_Routes : in Perf_Route_Type; Clear_Out_Buffers : in Boolean) is
 98    98
 99    99      begin
100   100
101   101        Max_Routes := No_Of_Routes;
102   102
103   103        if Clear_Out_Buffers or else not Ops_Data_Retained_Pkg.Ops_Sram_Valid then
104   104
105   105          -- The initialization abomination below is brought to you courtesy of
106   106          -- the inadequacies of the HADS compiler...enjoy.
107   107
108   108          for H in 1 .. Perf_Route_Type'Last loop
109   109            for J in Perf_Process_Val'First .. Perf_Process_Val'Last loop
110   110              for K in 1 .. Perf_Leg_Type'Last loop
111   111                Perf_Routes (H).Guard (J) (K) := False;
112   112              end loop;
113   113            end loop;
114   114            Perf_Routes (H).Writer := Fmcs_Fp_Guid_Btypes.No_Valid_Caller;
115   115            Perf_Routes (H).Pb_Data := (others => Init_Perflegrec);
116   116            Perf_Routes (H).Perf_Has_Updated_Route := (False);
117   117          end loop;
118   118
119   119        end if;
120   120
121   121      end Init;
122   122
123   123
124   124      procedure Requestperf (User : in Perf_Process_Val; Route : in Perf_Route_Type; Type_Of_Access : in Access_Type) is
125   125
126   126      begin
127   127        if not (Route in 1 .. Max_Routes) then
128   128          Bite_Data.User := User;
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
129   129        Bite_Data.Route := Route;
130   130        Bite_Data.Max_Routes := Max_Routes;
131   131
132   132        Call_Bite.Recover (Bite_Data, (Perf_Db_Fault_Code, Pb_Route_Out_Of_Range),
133   133                    Bite_Fault_Recovery_Tpkg.Record_And_Raise_Exception);
134   134      end if;
135   135      Perf_Routes (Route).Guard (User) := (others => False);
136   136      if Type_Of_Access = Write then
137   137        Perf_Routes (Route).Writer := User;
138   138      end if;
139   139    end Requestperf;
140   140
141   141
142   142
143   143    function Releaseperf (User : in Perf_Process_Val; Route : in Perf_Route_Type; Leg_No : in Perf_Leg_Type := 0) return
      »   Boolean is
144   144
145   145      All_False : constant Corruption_Leg_Array := (others => False);
146   146
147   147    begin
148   148      if User = Perf_Routes (Route).Writer then
149   149        Perf_Routes (Route).Writer := Fmcs_Fp_Guid_Btypes.No_Valid_Caller;
150   150        return True;
151   151      else
152   152        case Leg_No is
153   153          when 0 =>
154   154            if Perf_Routes (Route).Guard (User) = All_False then
155   155              return True;
156   156            else
157   157              return False;
158   158            end if;
159   159          when others =>
160   160            if Perf_Routes (Route).Guard (User) (Leg_No) = False then
161   161              return True;
162   162            else
163   163              return False;
164   164            end if;
165   165        end case;
166   166      end if;
167   167    end Releaseperf;
168   168
169   169
170   170
171   171    function Getperfleg (User : in Perf_Process_Val; Route : in Perf_Route_Type; Leg_No : in Perf_Leg_Type) return Perfl
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
                  » egrec is
  172    172
  173    173        Leg : Perflegrec;
  174    174      begin
  175    175
  176    176          Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Getperfleg_EXE := true;
  177    177          return Ctp_A350_Perf_Bkgnd_Get_Bk_data.CTP_Perfleg;
  178    178      end Getperfleg;
  179    179
  180    180
  181    181
  182    182      function Getperfroute (User : in Perf_Process_Val; Route : in Perf_Route_Type) return Perf_Route is
  183    183
  184    184        Rte : Perf_Route;
  185    185      begin
  186    186        loop
  187    187          Requestperf (User, Route, Read);
  188    188          Rte := Perf_Routes (Route).Pb_Data;
  189    189          exit when Releaseperf (User, Route);
  190    190        end loop;
  191    191        return Rte;
  192    192      end Getperfroute;
  193    193
  194    194
  195    195
  196    196      procedure Putperfleg (User : in Perf_Process_Val; Route : in Perf_Route_Type; Leg_No : in Perf_Leg_Type; Leg : in Pe
                  » rflegrec) is
  197    197
  198    198        Bogus : Boolean;
  199    199      begin
  200    200        Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Comp_Status);
  201    201        Requestperf (User, Route, Write);
  202    202        Perf_Routes (Route).Pb_Data (Leg_No) := Leg;
  203    203        for I in Perf_Process_Val'First .. Perf_Process_Val'Last loop
  204    204          Perf_Routes (Route).Guard (I) (Leg_No) := True;
  205    205        end loop;
  206    206        if ((User = Perf_Bg) or else (User = Perf_Fg) or else (User = Preds_Restart)) and then Is_Mcdu_Pseudo (Leg_No) the
                  » n
  207    207          Perf_Routes (Route).Perf_Has_Updated_Route := True;
  208    208        end if;
  209    209        Bogus := Releaseperf (User, Route, Leg_No);
  210    210        Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Comp_Status);
  211    211      end Putperfleg;
  212    212
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
213  213
214  214
215  215     procedure Putperfroute (User : in Perf_Process_Val; Route_No : in Perf_Route_Type; Route : in Perf_Route) is
216  216
217  217        Bogus : Boolean;
218  218     begin
219  219        Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Comp_Status);
220  220        Requestperf (User, Route_No, Write);
221  221        Perf_Routes (Route_No).Pb_Data := Route;
222  222        Perf_Routes (Route_No).Guard := (others => (others => True));
223  223        Bogus := Releaseperf (User, Route_No);
224  224        Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Comp_Status);
225  225     end Putperfroute;
226  226
227  227
228  228     procedure Restart is
229  229
230  230     begin
231  231        for I in 1 .. Max_Routes loop
232  232           Perf_Routes (I).Writer := Fmcs_Fp_Guid_Btypes.No_Valid_Caller;
233  233        end loop;
234  234     end Restart;
235  235
236  236
237  237
238  238     function Get_Vert_Seq (Data : Perf_Buffer_Types.Perf_Leg_Type) return Flight_Pln_Hdr_Types.Vrtseqset_Enu is
239  239
240  240
241  241        Temp : Flight_Pln_Hdr_Types.Vrtseqset_Enu;
242  242
243  243     begin
244  244        case Data is
245  245           when Perf_Buffer_Types.Strtclb2 =>
246  246              Temp := Flight_Pln_Hdr_Types.Strtclb2;
247  247           when Perf_Buffer_Types.Spdchgpt =>
248  248              Temp := Flight_Pln_Hdr_Types.Spdchgpt;
249  249           when Perf_Buffer_Types.Clb_Spdlim =>
250  250              Temp := Flight_Pln_Hdr_Types.Clbspdlim;
251  251           when Perf_Buffer_Types.Des_Spdlim =>
252  252              Temp := Flight_Pln_Hdr_Types.Desspdlim;
253  253           when Perf_Buffer_Types.Level1 =>
254  254              Temp := Flight_Pln_Hdr_Types.Level1;
255  255           when Perf_Buffer_Types.Toc =>
256  256              Temp := Flight_Pln_Hdr_Types.Toc;
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
257    257        when Perf_Buffer_Types.Clrncealt =>
258    258           Temp := Flight_Pln_Hdr_Types.Clralt;
259    259        when Perf_Buffer_Types.Predtoalt =>
260    260           Temp := Flight_Pln_Hdr_Types.Altintcp;
261    261        when Perf_Buffer_Types.Stpstart1 =>
262    262           Temp := Flight_Pln_Hdr_Types.Stpstart1;
263    263        when Perf_Buffer_Types.Stpstart2 =>
264    264           Temp := Flight_Pln_Hdr_Types.Stpstart2;
265    265        when Perf_Buffer_Types.Stpstart3 =>
266    266           Temp := Flight_Pln_Hdr_Types.Stpstart3;
267    267        when Perf_Buffer_Types.Stpstart4 =>
268    268           Temp := Flight_Pln_Hdr_Types.Stpstart4;
269    269        when Perf_Buffer_Types.Stpstart5 =>
270    270           Temp := Flight_Pln_Hdr_Types.Stpstart5;
271    271        when Perf_Buffer_Types.Stpstart6 =>
272    272           Temp := Flight_Pln_Hdr_Types.Stpstart6;
273    273        when Perf_Buffer_Types.Stpstart7 =>
274    274           Temp := Flight_Pln_Hdr_Types.Stpstart7;
275    275        when Perf_Buffer_Types.Stpstart8 =>
276    276           Temp := Flight_Pln_Hdr_Types.Stpstart8;
277    277        when Perf_Buffer_Types.Stpstart9 =>
278    278           Temp := Flight_Pln_Hdr_Types.Stpstart9;
279    279        when Perf_Buffer_Types.Stpstart10 =>
280    280           Temp := Flight_Pln_Hdr_Types.Stpstart10;
281    281        when Perf_Buffer_Types.Stepend1 =>
282    282           Temp := Flight_Pln_Hdr_Types.Stepend1;
283    283        when Perf_Buffer_Types.Stepend2 =>
284    284           Temp := Flight_Pln_Hdr_Types.Stepend2;
285    285        when Perf_Buffer_Types.Stepend3 =>
286    286           Temp := Flight_Pln_Hdr_Types.Stepend3;
287    287        when Perf_Buffer_Types.Stepend4 =>
288    288           Temp := Flight_Pln_Hdr_Types.Stepend4;
289    289        when Perf_Buffer_Types.Stepend5 =>
290    290           Temp := Flight_Pln_Hdr_Types.Stepend5;
291    291        when Perf_Buffer_Types.Stepend6 =>
292    292           Temp := Flight_Pln_Hdr_Types.Stepend6;
293    293        when Perf_Buffer_Types.Stepend7 =>
294    294           Temp := Flight_Pln_Hdr_Types.Stepend7;
295    295        when Perf_Buffer_Types.Stepend8 =>
296    296           Temp := Flight_Pln_Hdr_Types.Stepend8;
297    297        when Perf_Buffer_Types.Stepend9 =>
298    298           Temp := Flight_Pln_Hdr_Types.Stepend9;
299    299        when Perf_Buffer_Types.Stepend10 =>
300    300           Temp := Flight_Pln_Hdr_Types.Stepend10;
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
301  301        when Perf_Buffer_Types.Strtclb1 =>
302  302          Temp := Flight_Pln_Hdr_Types.Strtclb1;
303  303        when Perf_Buffer_Types.Tod1 =>
304  304          Temp := Flight_Pln_Hdr_Types.Tod1;
305  305        when Perf_Buffer_Types.Tod2 =>
306  306          Temp := Flight_Pln_Hdr_Types.Tod2;
307  307        when Perf_Buffer_Types.Intercept1 =>
308  308          Temp := Flight_Pln_Hdr_Types.Intercept1;
309  309        when Perf_Buffer_Types.Intercept2 =>
310  310          Temp := Flight_Pln_Hdr_Types.Intercept;
311  311        when Perf_Buffer_Types.Decelpt =>
312  312          Temp := Flight_Pln_Hdr_Types.Decelpt;
313  313        when Perf_Buffer_Types.Drftdnpt =>
314  314          Temp := Flight_Pln_Hdr_Types.Drftdnpt;
315  315        when Perf_Buffer_Types.Timemark1 =>
316  316          Temp := Flight_Pln_Hdr_Types.Timemark1;
317  317        when Perf_Buffer_Types.Timemark2 =>
318  318          Temp := Flight_Pln_Hdr_Types.Timemark2;
319  319        when Perf_Buffer_Types.Timemark3 =>
320  320          Temp := Flight_Pln_Hdr_Types.Timemark3;
321  321        when Perf_Buffer_Types.Timemark4 =>
322  322          Temp := Flight_Pln_Hdr_Types.Timemark4;
323  323        when Perf_Buffer_Types.Equitime =>
324  324          Temp := Flight_Pln_Hdr_Types.Equitime;
325  325        when Perf_Buffer_Types.Adsttg1 =>
326  326          Temp := Flight_Pln_Hdr_Types.Adsttg1;
327  327        when Perf_Buffer_Types.Adsttg2 =>
328  328          Temp := Flight_Pln_Hdr_Types.Adsttg2;
329  329        when Perf_Buffer_Types.Adsttg3 =>
330  330          Temp := Flight_Pln_Hdr_Types.Adsttg3;
331  331        when Perf_Buffer_Types.Adsttg4 =>
332  332          Temp := Flight_Pln_Hdr_Types.Adsttg4;
333  333        when Perf_Buffer_Types.Adsttg5 =>
334  334          Temp := Flight_Pln_Hdr_Types.Adsttg5;
335  335        when others =>
336  336          Temp := Flight_Pln_Hdr_Types.Predstart;  -- This element not used by Airbus
337  337      end case;
338  338
339  339    return Temp;
340  340
341  341  end Get_Vert_Seq;
342  342
343  343
344  344
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
345   345   function Get_Pseudo_Wpt (Data : Flight_Pln_Hdr_Types.Vrtseqset_Enu) return Perf_Buffer_Types.Perf_Leg_Type is
346   346
347   347
348   348      Temp : Perf_Buffer_Types.Perf_Leg_Type;
349   349
350   350   begin
351   351     case Data is
352   352       when Flight_Pln_Hdr_Types.Strtclb2 =>
353   353         Temp := Perf_Buffer_Types.Strtclb2;
354   354       when Flight_Pln_Hdr_Types.Spdchgpt =>
355   355         Temp := Perf_Buffer_Types.Spdchgpt;
356   356       when Flight_Pln_Hdr_Types.Clbspdlim =>
357   357         Temp := Perf_Buffer_Types.Clb_Spdlim;
358   358       when Flight_Pln_Hdr_Types.Desspdlim =>
359   359         Temp := Perf_Buffer_Types.Des_Spdlim;
360   360       when Flight_Pln_Hdr_Types.Level1 =>
361   361         Temp := Perf_Buffer_Types.Level1;
362   362       when Flight_Pln_Hdr_Types.Toc =>
363   363         Temp := Perf_Buffer_Types.Toc;
364   364       when Flight_Pln_Hdr_Types.Clralt =>
365   365         Temp := Perf_Buffer_Types.Clrncealt;
366   366       when Flight_Pln_Hdr_Types.Altintcp =>
367   367         Temp := Perf_Buffer_Types.Predtoalt;
368   368       when Flight_Pln_Hdr_Types.Stpstart1 =>
369   369         Temp := Perf_Buffer_Types.Stpstart1;
370   370       when Flight_Pln_Hdr_Types.Stpstart2 =>
371   371         Temp := Perf_Buffer_Types.Stpstart2;
372   372       when Flight_Pln_Hdr_Types.Stpstart3 =>
373   373         Temp := Perf_Buffer_Types.Stpstart3;
374   374       when Flight_Pln_Hdr_Types.Stpstart4 =>
375   375         Temp := Perf_Buffer_Types.Stpstart4;
376   376       when Flight_Pln_Hdr_Types.Stpstart5 =>
377   377         Temp := Perf_Buffer_Types.Stpstart5;
378   378       when Flight_Pln_Hdr_Types.Stpstart6 =>
379   379         Temp := Perf_Buffer_Types.Stpstart6;
380   380       when Flight_Pln_Hdr_Types.Stpstart7 =>
381   381         Temp := Perf_Buffer_Types.Stpstart7;
382   382       when Flight_Pln_Hdr_Types.Stpstart8 =>
383   383         Temp := Perf_Buffer_Types.Stpstart8;
384   384       when Flight_Pln_Hdr_Types.Stpstart9 =>
385   385         Temp := Perf_Buffer_Types.Stpstart9;
386   386       when Flight_Pln_Hdr_Types.Stpstart10 =>
387   387         Temp := Perf_Buffer_Types.Stpstart10;
388   388       when Flight_Pln_Hdr_Types.Stepend1 =>
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
389   389         Temp := Perf_Buffer_Types.Stepend1;
390   390       when Flight_Pln_Hdr_Types.Stepend2 =>
391   391         Temp := Perf_Buffer_Types.Stepend2;
392   392       when Flight_Pln_Hdr_Types.Stepend3 =>
393   393         Temp := Perf_Buffer_Types.Stepend3;
394   394       when Flight_Pln_Hdr_Types.Stepend4 =>
395   395         Temp := Perf_Buffer_Types.Stepend4;
396   396       when Flight_Pln_Hdr_Types.Stepend5 =>
397   397         Temp := Perf_Buffer_Types.Stepend5;
398   398       when Flight_Pln_Hdr_Types.Stepend6 =>
399   399         Temp := Perf_Buffer_Types.Stepend6;
400   400       when Flight_Pln_Hdr_Types.Stepend7 =>
401   401         Temp := Perf_Buffer_Types.Stepend7;
402   402       when Flight_Pln_Hdr_Types.Stepend8 =>
403   403         Temp := Perf_Buffer_Types.Stepend8;
404   404       when Flight_Pln_Hdr_Types.Stepend9 =>
405   405         Temp := Perf_Buffer_Types.Stepend9;
406   406       when Flight_Pln_Hdr_Types.Stepend10 =>
407   407         Temp := Perf_Buffer_Types.Stepend10;
408   408       when Flight_Pln_Hdr_Types.Strtclb1 =>
409   409         Temp := Perf_Buffer_Types.Strtclb1;
410   410       when Flight_Pln_Hdr_Types.Tod1 =>
411   411         Temp := Perf_Buffer_Types.Tod1;
412   412       when Flight_Pln_Hdr_Types.Tod2 =>
413   413         Temp := Perf_Buffer_Types.Tod2;
414   414       when Flight_Pln_Hdr_Types.Intercept1 =>
415   415         Temp := Perf_Buffer_Types.Intercept1;
416   416       when Flight_Pln_Hdr_Types.Intercept =>
417   417         Temp := Perf_Buffer_Types.Intercept2;
418   418       when Flight_Pln_Hdr_Types.Decelpt =>
419   419         Temp := Perf_Buffer_Types.Decelpt;
420   420       when Flight_Pln_Hdr_Types.Drftdnpt =>
421   421         Temp := Perf_Buffer_Types.Drftdnpt;
422   422       when Flight_Pln_Hdr_Types.Timemark1 =>
423   423         Temp := Perf_Buffer_Types.Timemark1;
424   424       when Flight_Pln_Hdr_Types.Timemark2 =>
425   425         Temp := Perf_Buffer_Types.Timemark2;
426   426       when Flight_Pln_Hdr_Types.Timemark3 =>
427   427         Temp := Perf_Buffer_Types.Timemark3;
428   428       when Flight_Pln_Hdr_Types.Timemark4 =>
429   429         Temp := Perf_Buffer_Types.Timemark4;
430   430       when Flight_Pln_Hdr_Types.Equitime =>
431   431         Temp := Perf_Buffer_Types.Equitime;
432   432       when Flight_Pln_Hdr_Types.Adsttg1 =>
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
433    433            Temp := Perf_Buffer_Types.Adsttg1;
434    434          when Flight_Pln_Hdr_Types.Adsttg2 =>
435    435            Temp := Perf_Buffer_Types.Adsttg2;
436    436          when Flight_Pln_Hdr_Types.Adsttg3 =>
437    437            Temp := Perf_Buffer_Types.Adsttg3;
438    438          when Flight_Pln_Hdr_Types.Adsttg4 =>
439    439            Temp := Perf_Buffer_Types.Adsttg4;
440    440          when Flight_Pln_Hdr_Types.Adsttg5 =>
441    441            Temp := Perf_Buffer_Types.Adsttg5;
442    442          when others =>
443    443            Temp := Perf_Buffer_Types.Not_Supported;
444    444        end case;
445    445
446    446        return Temp;
447    447
448    448    end Get_Pseudo_Wpt;
449    449
450    450
451    451
452    452    function Perf_Has_Updated_Route (User : in Perf_Process_Val; Route : in Perf_Route_Type) return Boolean is
453    453
454    454        Return_Value, Bogus : Boolean;
455    455
456    456    begin
457    457        Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Comp_Status);
458    458
459    459        Requestperf (User, Route, Write);
460    460        Return_Value := Perf_Routes (Route).Perf_Has_Updated_Route;
461    461        Perf_Routes (Route).Perf_Has_Updated_Route := False;
462    462        Bogus := Releaseperf (User, Route);
463    463
464    464        Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Comp_Status);
465    465
466    466        return Return_Value;
467    467
468    468    end Perf_Has_Updated_Route;
469    469
470    470
471    471
472    472    procedure Set_Update_Flag (User : in Perf_Process_Val; Route : in Perf_Route_Type) is
473    473
474    474        Bogus : Boolean;
475    475    begin
476    476        Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Comp_Status);
```

File: CTP_A350_PERF_BUFFER.STB (continued)

```
477   477        Requestperf (User, Route, Write);
478   478        Perf_Routes (Route).Perf_Has_Updated_Route := True;
479   479        Bogus := Releaseperf (User, Route);
480   480
481   481        Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Comp_Status);
482   482
483   483     end Set_Update_Flag;
484   484
485   485 end Perf_Buffer;
486   486
```

Mode: All Lines

File: CTP_A350_PERF_CLIMB_AUTODRT.STB

```
    1      1 --
    2      2 --    STUB File
    3      3 --
    4      4 --    CTP_A350_PERF_CLIMB_AUTODRT.STB
    5      5 --
    6      6 --    REASONS FOR STUBBING : function Climb_Autodrt is stubbed out for testing.
    7      7
    8      8 --| File Name: Prf_Int_Utils_Climb_Autodrt.ada
    9      9 --|
   10     10 --|
   11     11
   12     12 with Base_Domain_Services_Tpkg;
   13     13 with Pdb_Constants;                 --  shared fmf objects
   14     14 with Pdb_Functional_Interface_Pkg;  --  shared fmf objects
   15     15
   16     16 with Cdk_Vert_Dpkg;                 --  shared fmf objects
   17     17 with Cdk_Entry_Tpkg;                --  shared types
   18     18
   19     19 with Prf_Aeroeng_Pkg;               --  perf
   20     20 with Perf_Ext_Tpkg;                 --  perf
   21     21 with Prf_Maxalt_Pkg;                --  perf
   22     22 with Portable_Types_Pkg;            --  common sw
   23     23 with Fpln_Ext_Dpkg;
   24     24 with Portable_Types_Pkg;            --  shared
   25     25 with Options_And_Data_Pkg;          --  common
   26     26 with CTP_A350_PERF_BKGND_GET_BK_DATA;
   27     27
   28     28 use CTP_A350_PERF_BKGND_GET_BK_DATA;
   29     29 use Portable_Types_Pkg;
   30     30 use Cdk_Entry_Tpkg;
   31     31 use Options_And_Data_Pkg;
   32     32
   33     33 separate (Prf_Int_Utils)
   34     34
   35     35 procedure Climb_Autodrt(Takeoff_Gw        : in Portable_Types_Pkg.Float_32;
   36     36                         Org_elevation     : in Portable_Types_Pkg.Float_32;
   37     37                         Clb_Autodrt       : in out Perf_Ext_Tpkg.Clb_Auto_Derate_Rec;
   38     38                         Crzisadev         : in Portable_Types_Pkg.Float_32;
   39     39                         Crz_Alt           : in Portable_Types_Pkg.Float_32;
   40     40                         Trop_Alt          : in Portable_Types_Pkg.Float_32;
   41     41                         Clb_Rec_Max_Alt   : in out Io_Interface_Tpkg.Float_32_Valid.Normal ) is
   42     42
```

File: CTP_A350_PERF_CLIMB_AUTODRT.STB (continued)

```
43   43
44   44
45   45
46   46    Thr_Breakpt                    : Portable_Types_Pkg.Float_32;        -- Thrust Breaking point
47   47    Dzpflex                        : Portable_Types_Pkg.Float_32;        -- Alt Difference between MCRRA and Rec Max Alt
48   48    Dtflex                         : Portable_Types_Pkg.Float_32;        -- Flex Climb Temp difference
49   49    Max_Clb_Rating_Rec_Alt         : Portable_Types_Pkg.Float_32;        -- Max Climb Rating Recovering Alt(MCRRA)
50   50    Isadev_at_Mcrra                : Portable_Types_Pkg.Float_32;        -- ISADEV at MCRRA (Forecast)
51   51    Wos                            : Portable_Types_Pkg.Float_32;        -- Wash Out Slope (Deg C/foot)
52   52    Woendalt                       : Portable_Types_Pkg.Float_32;        -- Washout end Alt (feet)
53   53    Gwt                            : Portable_Types_Pkg.Float_32;        -- Equal to Takeoff GW accounted for Fuel burned
54   54    Std_Crzisadev                  : Portable_Types_Pkg.Float_32;        -- Standard ISA Dev at Cruise Altitude
55   55    K_Dtflex                       : Portable_Types_Pkg.Float_32;        -- PDB Constant
56   56    Isadev                         : Portable_Types_Pkg.Float_32;
57   57    Maximum_Maximum_Alt            : Io_Interface_Tpkg.Float_32_Valid.Normal;  -- Max Max Alt
58   58    Dtflex_Basic                   : Pdb_Functional_Interface_Pkg.Access_Table_Type; -- PDB  value
59   59    Deltaalt                       : Portable_Types_Pkg.Float_32;
60   60
61   61
62   62  procedure Compute_Climb_Rec_Max_Alt  is
63   63
64   64
65   65
66   66   begin -- Procedure Compute_Climb_Rec_Max_Alt
67   67
68   68      if Clb_Rec_Max_Alt.Valid then
69   69        Deltaalt := Clb_Rec_Max_Alt.Data - Org_elevation;
70   70      else
71   71        Deltaalt := Pdb_Constants.Hcermaxalt - Org_elevation;
72   72      end if;
73   73
74   74      Gwt := Takeoff_Gw -
75   75             Prf_Aeroeng_Pkg.Fuelburned
76   76                  (Clbburn => True, Isadev =>Crzisadev, Gwkg => Takeoff_Gw , Dalt => Deltaalt);
77   77
78   78      -- Compute Max Max alt
79   79      Maximum_Maximum_Alt.Data := Prf_Maxalt_Pkg.Calc_Maxmax_Alt (Gwt => Gwt, Isadev => Crzisadev,
80   80                                                     Engout => False, Numengout => 0);
81   81      Maximum_Maximum_Alt.Valid := True;
82   82
83   83
84   84      ---Compute ADCRMA
85   85      Clb_Rec_Max_Alt.Data :=
86   86            Prf_Maxalt_Pkg.Calc_Rec_Max_Alt
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_CLIMB_AUTODRT.STB (continued)

```
 87   87        (Gwt => Gwt, Isadev => Crzisadev, Maxmax => Maximum_Maximum_Alt.Data);
 88   88     Clb_Rec_Max_Alt.Valid := True;
 89   89
 90   90  end Compute_Climb_Rec_Max_Alt; -- Procedure Compute_Climb_Rec_Max_Alt
 91   91
 92   92  --********************************************************************************
 93   93
 94   94  begin -- Climb_Autodrt
 95   95
 96   96     Clb_Autodrt.Wash_Out_End_Alt := CTP_Woendalt;
 97   97     Clb_Autodrt.Wash_Out_Slope := CTP_Wos;
 98   98     Clb_Autodrt.Delta_T_Flex := CTP_Dtflex;
 99   99     Clb_Autodrt.Is_Valid := True;
100  100
101  101  end Climb_Autodrt ; -- Procedure Calc_Clb_Autodrt
102  102
103  103  --********************************************************************************
104  104
105  105
```

Mode: All Lines

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB

```
   1      1 --
   2      2 --     STUB File
   3      3 --
   4      4 --     CTP_A350_PERF_FPLN_EXT_DPKG.STB
   5      5 --
   6      6 --     REASONS FOR STUBBING : Package Fpln_Ext_Dpkg is stubbed out to make
   7      7 --                             Get_Flight_Phase procedure visible for test.
   8      8
   9      9 -- File Name: A380_FPLN_EXT_DPKG.ADA
  10     10
  11     11 with Fpln_Nonretained_Dpkg;
  12     12 with Fpln_Resync_Dpkg;
  13     13 with Fprequestrec_Types;
  14     14 with Fplnchgtyp_Set_Types;
  15     15 with Fpln_Retained_Dpkg;
  16     16 with Ctp_A350_Perf_Bkgnd_Get_Bk_Data;
  17     17
  18     18 package body Fpln_Ext_Dpkg is
  19     19
  20     20
  21     21   procedure Put_Prev_Ppos_Leg_Data (Prev_Ppos_Leg_Data : in Fp_Mini_Ppos_Leg_Type.Mini_Ppos_Leg_Rec) is
  22     22
  23     23   begin
  24     24     Fpln_Nonretained_Dpkg.Put_Prev_Ppos_Leg_Data (Prev_Ppos_Leg_Data);
  25     25   end Put_Prev_Ppos_Leg_Data;
  26     26
  27     27   procedure Get_Prev_Ppos_Leg_Data (Prev_Ppos_Leg_Data : out Fp_Mini_Ppos_Leg_Type.Mini_Ppos_Leg_Rec) is
  28     28
  29     29   begin
  30     30     Fpln_Nonretained_Dpkg.Get_Prev_Ppos_Leg_Data (Prev_Ppos_Leg_Data);
  31     31   end Get_Prev_Ppos_Leg_Data;
  32     32
  33     33   procedure Put_Hm_Leg (Fpln : in Fprequestrec_Types.Display_Fp_Type; Leg_Index : in Flight_Pln_Leg_Types.Leg_Index_Ty
          » pe) is
  34     34
  35     35   begin
  36     36     Fpln_Resync_Dpkg.Put_Hm_Leg (Fpln, Leg_Index);
  37     37   end Put_Hm_Leg;
  38     38
  39     39   procedure Get_Hm_Leg (Fpln : in Fprequestrec_Types.Display_Fp_Type; Leg_Index : out Flight_Pln_Leg_Types.Leg_Index_T
          » ype) is
  40     40
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
41   41   begin
42   42      Fpln_Resync_Dpkg.Get_Hm_Leg (Fpln, Leg_Index);
43   43   end Get_Hm_Leg;
44   44
45   45   procedure Put_Trans_Alt (Fpln : in Fprequestrec_Types.Minor_Fp_Type; Altitude : in Fp_Altitude_Types.Transition_Alti
          » tude_Type) is
46   46
47   47
48   48   begin
49   49      Fpln_Resync_Dpkg.Put_Trans_Alt (Fpln, Altitude);
50   50   end Put_Trans_Alt;
51   51
52   52   procedure Get_Trans_Alt (Fpln : in Fprequestrec_Types.Minor_Fp_Type; Altitude : out Fp_Altitude_Types.Transition_Alt
          » itude_Type) is
53   53
54   54
55   55   begin
56   56      Fpln_Resync_Dpkg.Get_Trans_Alt (Fpln, Altitude);
57   57   end Get_Trans_Alt;
58   58
59   59   procedure Put_Airport_Elevation (Fpln : in Fprequestrec_Types.Minor_Fp_Type; Elevation : in Fp_Altitude_Types.Associ
          » ated_Airport_Type) is
60   60   begin
61   61      Fpln_Resync_Dpkg.Put_Airport_Elevation (Fpln, Elevation);
62   62   end Put_Airport_Elevation;
63   63   procedure Get_Airport_Elevation (Fpln : in Fprequestrec_Types.Minor_Fp_Type; Elevation : out Fp_Altitude_Types.Assoc
          » iated_Airport_Type) is
64   64   begin
65   65      Fpln_Resync_Dpkg.Get_Airport_Elevation (Fpln, Elevation);
66   66   end Get_Airport_Elevation;
67   67 procedure Put_Def_Accel_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Acceleration_Alt : in Takeoff_Alt_Types.P
          » haserectyp) is
68   68
69   69
70   70   begin
71   71      Fpln_Resync_Dpkg.Put_Def_Accel_Alt (Fpln, Acceleration_Alt);
72   72   end Put_Def_Accel_Alt;
73   73
74   74 procedure Get_Def_Accel_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type;
75   75                              Acceleration_Alt : out Takeoff_Alt_Types.Phaserectyp) is
76   76
77   77
78   78   begin
79   79      Fpln_Resync_Dpkg.Get_Def_Accel_Alt (Fpln, Acceleration_Alt);
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
 80   80    end Get_Def_Accel_Alt;
 81   81
 82   82    procedure Put_Cruise_Alt (Fpln : in Fprequestrec_Types.Display_Fp_Type; Altitude : in Io_Interface_Tpkg.Float_32_Val
           » id.Normal) is
 83   83
 84   84
 85   85    begin
 86   86      Fpln_Resync_Dpkg.Put_Cruise_Alt (Fpln, Altitude);
 87   87    end Put_Cruise_Alt;
 88   88
 89   89    procedure Get_Cruise_Alt (Fpln : in Fprequestrec_Types.Display_Fp_Type; Altitude : out Io_Interface_Tpkg.Float_32_Va
           » lid.Normal) is
 90   90
 91   91
 92   92    begin
 93   93      Altitude.data := 5.0;
 94   94      Altitude.Valid := true;
 95   95    end Get_Cruise_Alt;
 96   96
 97   97    procedure Put_Active_Legs_Match (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Flag : in Boolean) is
 98   98
 99   99    begin
100  100      Fpln_Resync_Dpkg.Put_Active_Legs_Match (Fpln, Flag);
101  101    end Put_Active_Legs_Match;
102  102
103  103    function Active_Legs_Match (Fpln : in Fprequestrec_Types.All_Major_Fp_Type) return Boolean is
104  104
105  105      Flag : Boolean;
106  106
107  107    begin
108  108      Flag := Fpln_Resync_Dpkg.Active_Legs_Match (Fpln);
109  109      return Flag;
110  110    end Active_Legs_Match;
111  111
112  112
113  113
114  114    procedure Put_Fix_Info_Predictions (Prediction : in Fp_Fpln_Types.Fix_Info_Pred_Type) is
115  115
116  116
117  117    begin
118  118      Fpln_Resync_Dpkg.Put_Fix_Info_Predictions (Prediction);
119  119    end Put_Fix_Info_Predictions;
120  120
121  121    procedure Get_Fix_Info_Predictions (Prediction : out Fp_Fpln_Types.Fix_Info_Pred_Type) is
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
122  122  |
123  123  |  begin
124  124  |    Fpln_Resync_Dpkg.Get_Fix_Info_Predictions (Prediction);
125  125  |  end Get_Fix_Info_Predictions;
126  126  |
127  127  |
128  128  |  procedure Put_Eo_Accel_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Accel_Alt : in Takeoff_Alt_Types.Phasere
         » ctyp) is
129  129  |
130  130  |  begin
131  131  |    Fpln_Resync_Dpkg.Put_Eo_Accel_Alt (Fpln, Accel_Alt);
132  132  |  end Put_Eo_Accel_Alt;
133  133  |
134  134  |  procedure Get_Eo_Accel_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Accel_Alt : out Takeoff_Alt_Types.Phaser
         » ectyp) is
135  135  |
136  136  |  begin
137  137  |    Fpln_Resync_Dpkg.Get_Eo_Accel_Alt (Fpln, Accel_Alt);
138  138  |  end Get_Eo_Accel_Alt;
139  139  |
140  140  |  procedure Put_Refalt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Altitude : in Takeoff_Alt_Types.Phaserectyp) i
         » s
141  141  |
142  142  |  begin
143  143  |    Fpln_Resync_Dpkg.Put_Refalt (Fpln, Altitude);
144  144  |  end Put_Refalt;
145  145  |
146  146  |  procedure Get_Refalt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type; Altitude : out Takeoff_Alt_Types.Phaserectyp)
         » is
147  147  |
148  148  |  begin
149  149  |    Fpln_Resync_Dpkg.Get_Refalt (Fpln, Altitude);
150  150  |  end Get_Refalt;
151  151  |
152  152  |  procedure Put_Tmpy_Eosid_Exists (Flag : in Boolean) is
153  153  |
154  154  |  begin
155  155  |    Fpln_Resync_Dpkg.Put_Tmpy_Eosid_Exists (Flag);
156  156  |  end Put_Tmpy_Eosid_Exists;
157  157  |
158  158  |  function Tmpy_Eosid_Exists return Boolean is
159  159  |
160  160  |
161  161  |    Flag : Boolean;
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
162  162
163  163    begin
164  164      Flag := Fpln_Resync_Dpkg.Tmpy_Eosid_Exists;
165  165      return Flag;
166  166    end Tmpy_Eosid_Exists;
167  167
168  168    procedure Put_Tmpy_Exists (Flag : in Boolean) is
169  169
170  170    begin
171  171      Fpln_Resync_Dpkg.Put_Tmpy_Exists (Flag);
172  172    end Put_Tmpy_Exists;
173  173
174  174    function Tmpy_Exists return Boolean is
175  175
176  176
177  177      Flag : Boolean;
178  178
179  179    begin
180  180      Flag := Fpln_Resync_Dpkg.Tmpy_Exists;
181  181      return Flag;
182  182    end Tmpy_Exists;
183  183
184  184    procedure Put_Fpln_Chg_Flag_Set (Fpln : in Fprequestrec_Types.All_Major_Fp_Type;
185  185                                     Activation_Leg : in Flight_Pln_Leg_Types.Leg_Index_Type;
186  186                                     Set_Of_Change_Flags : in Chgreqtyp_Set_Pkg.Set_Type) is
187  187
188  188    begin
189  189      Fpln_Nonretained_Dpkg.Put_Fpln_Chg_Flag_Set (Fpln, Activation_Leg, Set_Of_Change_Flags);
190  190    end Put_Fpln_Chg_Flag_Set;
191  191
192  192
193  193    procedure Clear_Fpln_Chg_Set (Fpln : in Fprequestrec_Types.All_Major_Fp_Type) is
194  194
195  195    begin
196  196      Fpln_Nonretained_Dpkg.Clear_Fpln_Chg_Set (Fpln);
197  197    end Clear_Fpln_Chg_Set;
198  198
199  199  procedure Get_Fpln_Chg_Set (Fpln : in Fprequestrec_Types.All_Major_Fp_Type;
200  200                              Change_Flag_Set : out Fplnchgtyp_Set_Types.Fplnchgsettyp) is
201  201
202  202    begin
203  203      Fpln_Nonretained_Dpkg.Get_Fpln_Chg_Set (Fpln, Change_Flag_Set);
204  204    end Get_Fpln_Chg_Set;
205  205
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
206  206     procedure Put_Corrected_Clearance_Alt (Altitude : in Io_Interface_Tpkg.Float_32_Valid.Normal) is
207  207
208  208     begin
209  209        Fpln_Resync_Dpkg.Put_Corrected_Clearance_Alt (Altitude);
210  210     end Put_Corrected_Clearance_Alt;
211  211
212  212     procedure Get_Corrected_Clearance_Alt (Altitude : out Io_Interface_Tpkg.Float_32_Valid.Normal) is
213  213
214  214     begin
215  215        Fpln_Resync_Dpkg.Get_Corrected_Clearance_Alt (Altitude);
216  216     end Get_Corrected_Clearance_Alt;
217  217
218  218     procedure Put_Flight_Phase (Flight_Phase : in Base_Domain_Services_Tpkg.Flight_Phase_Type) is
219  219
220  220     begin
221  221        Fpln_Resync_Dpkg.Put_Flight_Phase (Flight_Phase);
222  222     end Put_Flight_Phase;
223  223
224  224     procedure Get_Flight_Phase (Flight_Phase : out Base_Domain_Services_Tpkg.Flight_Phase_Type) is
225  225
226  226     begin
227  227        flight_phase := Ctp_a350_perf_Bkgnd_Get_Bk_Data.Sync_Flight_phase;
228  228     end Get_Flight_Phase;
229  229
230  230     procedure Put_Def_Thrust_Reduction_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type;
231  231                                             Thrust_Reduction_Alt : in Takeoff_Alt_Types.Phaserectyp) is
232  232
233  233     begin
234  234        Fpln_Resync_Dpkg.Put_Def_Thrust_Reduction_Alt (Fpln, Thrust_Reduction_Alt);
235  235     end Put_Def_Thrust_Reduction_Alt;
236  236
237  237     procedure Get_Def_Thrust_Reduction_Alt (Fpln : in Fprequestrec_Types.All_Major_Fp_Type;
238  238                                             Thrust_Reduction_Alt : out Takeoff_Alt_Types.Phaserectyp) is
239  239
240  240     begin
241  241        Fpln_Resync_Dpkg.Get_Def_Thrust_Reduction_Alt (Fpln, Thrust_Reduction_Alt);
242  242     end Get_Def_Thrust_Reduction_Alt;
243  243
244  244
245  245     procedure Put_Clearance_Alt (Altitude : in Io_Interface_Tpkg.Float_32_Valid.Normal) is
246  246
247  247     begin
248  248        Fpln_Resync_Dpkg.Put_Clearance_Alt (Altitude);
249  249     end Put_Clearance_Alt;
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
250   250
251   251     procedure Get_Clearance_Alt (Altitude : out Io_Interface_Tpkg.Float_32_Valid.Normal) is
252   252
253   253     begin
254   254        Fpln_Resync_Dpkg.Get_Clearance_Alt (Altitude);
255   255     end Get_Clearance_Alt;
256   256
257   257     procedure Set_Tap_Modification_Flag (Flag : in Boolean;
258   258                                          Fpln_Segment : in Fp_Fpln_Types.Segment_Type;
259   259                                          Fpln_Type : in Fprequestrec_Types.Minor_Fp_Type) is
260   260
261   261     begin
262   262        Fpln_Resync_Dpkg.Set_Tap_Modification_Flag (Flag, Fpln_Segment, Fpln_Type);
263   263     end Set_Tap_Modification_Flag;
264   264
265   265     function Tap_Modification_Flag
266   266              (Fpln_Segment : in Fp_Fpln_Types.Segment_Type; Fpln_Type : in Fprequestrec_Types.Minor_Fp_Type) return B
      » oolean is
267   267
268   268     begin
269   269        return Fpln_Resync_Dpkg.Tap_Modification_Flag (Fpln_Segment, Fpln_Type);
270   270     end Tap_Modification_Flag;
271   271
272   272     procedure Put_Active_Wpt_Sequenced (Flag : in Boolean) is
273   273
274   274     begin
275   275        Fpln_Resync_Dpkg.Put_Active_Wpt_Sequenced (Flag);
276   276     end Put_Active_Wpt_Sequenced;
277   277
278   278     function Active_Wpt_Sequenced return Boolean is
279   279
280   280     begin
281   281        return Fpln_Resync_Dpkg.Active_Wpt_Sequenced;
282   282     end Active_Wpt_Sequenced;
283   283
284   284
285   285     procedure Put_Actv_Scndry_Shrd_Lnk_Stat (Link_Status : in Fp_Fpln_Types.Actv_Scndry_Shrd_Lnk_Stat_Type;
286   286                                              Fpln : in Fprequestrec_Types.Major_Actorsec_Type := Fprequestrec_Types.Seco
      » ndary) is
287   287
288   288     begin
289   289        Fpln_Resync_Dpkg.Put_Actv_Scndry_Shrd_Lnk_Stat (Link_Status, Fpln);
290   290     end Put_Actv_Scndry_Shrd_Lnk_Stat;
291   291
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
292  292    function Actv_Scndry_Shrd_Lnk_Stat(Fpln : in Fprequestrec_Types.Major_Actorsec_Type := Fprequestrec_Types.Secondary)
293  293      return Fp_Fpln_Types.Actv_Scndry_Shrd_Lnk_Stat_Type is
294  294
295  295    begin
296  296      return Fpln_Resync_Dpkg.Actv_Scndry_Shrd_Lnk_Stat(Fpln);
297  297    end Actv_Scndry_Shrd_Lnk_Stat;
298  298
299  299    procedure Put_Sec_Fpln_From_Init_Uplink (Sec_Fpln_From_Init_Uplink : in Boolean;
300  300                                             Fpln : in Fprequestrec_Types.Major_Actorsec_Type := Fprequestrec_Types.Seco
        » ndary) is
301  301
302  302    begin
303  303      Fpln_Resync_Dpkg.Put_Sec_Fpln_From_Init_Uplink (Sec_Fpln_From_Init_Uplink, Fpln);
304  304    end Put_Sec_Fpln_From_Init_Uplink;
305  305
306  306    function Sec_Fpln_From_Init_Uplink (Fpln : in Fprequestrec_Types.Major_Actorsec_Type := Fprequestrec_Types.Secondary
        » )
307  307    return Boolean is
308  308
309  309    begin
310  310      return Fpln_Resync_Dpkg.Sec_Fpln_From_Init_Uplink(Fpln);
311  311    end Sec_Fpln_From_Init_Uplink;
312  312
313  313    function Get_Noise_Data ( Flight_Plan : in Fprequestrec_Types.Major_Fp_Type ) return Takeoff_Alt_Types.NoiseAbateRec
        »  is
314  314
315  315    begin
316  316      return Fpln_Resync_Dpkg.Get_Noise_Data ( Flight_Plan );
317  317    end Get_Noise_Data;
318  318
319  319    procedure Put_Noise_Data ( Flight_Plan : in Fprequestrec_Types.Major_Fp_Type;
320  320                               NoiseData   : in Takeoff_Alt_Types.NoiseAbateRec ) is
321  321
322  322    begin
323  323      Fpln_Resync_Dpkg.Put_Noise_Data ( Flight_Plan, NoiseData );
324  324    end Put_Noise_Data;
325  325
326  326    function  Req_Will_Create_Or_Modify_Tmpy_Fpln ( Fpln_Type     : in Fprequestrec_Types.Minor_Fp_Type;
327  327                                                    Fpln_Request  : in Fprequestrec_Types.Fplnreqtyp) return Boolean is
328  328
329  329    begin
330  330      return Fpln_Resync_Dpkg.Req_Will_Create_Or_Modify_Tmpy_Fpln ( Fpln_Type, Fpln_Request );
331  331    end Req_Will_Create_Or_Modify_Tmpy_Fpln;
332  332
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
333   333    procedure Put_Tmpy_Ppos_Hold (Temporary_Ppos_Hold : in Boolean) is
334   334
335   335    begin
336   336      Fpln_Resync_Dpkg.Put_Tmpy_Ppos_Hold (Temporary_Ppos_Hold);
337   337    end Put_Tmpy_Ppos_Hold;
338   338
339   339    function Tmpy_Ppos_Hold return Boolean is
340   340    begin
341   341      return Fpln_Resync_Dpkg.Tmpy_Ppos_Hold;
342   342    end Tmpy_Ppos_Hold;
343   343
344   344    procedure Put_RNP_AR_Resync_Check_Status (Flag : in Boolean) is
345   345    begin
346   346      Fpln_Retained_Dpkg.Put_RNP_AR_Resync_Check_Status(Flag) ;
347   347    end Put_RNP_AR_Resync_Check_Status;
348   348
349   349    procedure Get_RNP_AR_Resync_Check_Status (Flag : out Boolean) is
350   350
351   351    begin
352   352      Fpln_Retained_Dpkg.Get_RNP_AR_Resync_Check_Status (Flag);
353   353    end Get_RNP_AR_Resync_Check_Status;
354   354
355   355
356   356    procedure Put_Fms_Fpln_Revision (Fms_Fpln_Revision : in Fmcs_Base_Types.Boolean_Valid.Normal) is
357   357
358   358    begin
359   359      Fpln_Nonretained_Dpkg.Put_Fms_Fpln_Revision(Fms_Fpln_Revision) ;
360   360    end Put_Fms_Fpln_Revision ;
361   361
362   362
363   363    function  Fms_Fpln_Revision return Fmcs_Base_Types.Boolean_Valid.Normal is
364   364
365   365    begin
366   366      return Fpln_Nonretained_Dpkg.Fms_Fpln_Revision;
367   367    end  Fms_Fpln_Revision ;
368   368
369   369
370   370    procedure Put_Fpln_Up_To_Date (Fpln_Up_To_Date : in Fmcs_Base_Types.Boolean_Valid.Normal) is
371   371
372   372    begin
373   373      Fpln_Nonretained_Dpkg.Put_Fpln_Up_To_Date(Fpln_Up_To_Date) ;
374   374    end Put_Fpln_Up_To_Date ;
375   375
376   376
```

File: CTP_A350_PERF_FPLN_EXT_DPKG.STB (continued)

```
377   377    function Fpln_Up_To_Date return Fmcs_Base_Types.Boolean_Valid.Normal is
378   378
379   379    begin
380   380       return Fpln_Nonretained_Dpkg.Fpln_Up_To_Date;
381   381    end Fpln_Up_To_Date ;
382   382 end Fpln_Ext_Dpkg;
383   383
```

Mode: All Lines

File: CTP_A350_PERF_GET_AC_CONFIG.STB

```
   1       1 --
   2       2 --    Stub File
   3       3 --
   4       4 --    CTP_A350_PERF_GET_AC_CONFIG.STB
   5       5 --
   6       6 --    REASONS FOR STUBBING :  Procedure Get_Ac_Config is stubbed out
   7       7 --     File Name: PRF_ACSTATE_PKG_GET_AC_CONFIG.ADA
   8       8
   9       9
  10      10 with Perf_Config_Dpkg;                      -- perf int objects
  11      11 with Portable_Types_Pkg;                    -- common types
  12      12 use Portable_Types_Pkg;                     -- common types
  13      13 with Fmcs_Base_Types;
  14      14 with Base_Domain_Services_Tpkg;
  15      15 with Io_Interface_Tpkg;
  16      16 with Lateral_Path_Type_Tpkg;
  17      17 with Ndb_Tpkg;
  18      18 use Fmcs_Base_Types;
  19      19 use Base_Domain_Services_Tpkg;
  20      20 use Io_Interface_Tpkg;
  21      21 use Lateral_Path_Type_Tpkg;
  22      22 use Ndb_Tpkg;
  23      23
  24      24 separate (Prf_Acstate_Pkg)
  25      25 procedure Get_Ac_Config (Alt : in Portable_Types_Pkg.Float_32;
  26      26                          Gwt : in Portable_Types_Pkg.Float_32;
  27      27                          Cas : in Portable_Types_Pkg.Float_32;
  28      28                          Cas_Valid : in Boolean;
  29      29                          Engout : in Boolean;
  30      30                          Numengout : in Portable_Types_Pkg.Integer_32;
  31      31                          Fltphase : in Base_Domain_Services_Tpkg.Flight_Phase_Type;
  32      32                          Config : in out Perf_Ext_Tpkg.Configtyp) is
  33      33
  34      34
  35      35    Tofspd : Portable_Types_Pkg.Float_32;
  36      36    Tosspd : Portable_Types_Pkg.Float_32;
  37      37
  38      38
  39      39 begin      --  Procedure Get_Ac_Config
  40      40
  41      41
  42      42
```

File: CTP_A350_PERF_GET_AC_CONFIG.STB (continued)

```
43    43      Config :=0;
44    44
45    45
46    46
47    47  end Get_Ac_Config;
```

Mode: All Lines

File: CTP_A350_PERF_GET_STATE_PKG.STB

```
    1      1 --
    2      2 --      STUB File
    3      3 --
    4      4 --      CTP_A350_PERF_GET_STATE_PKG.STB
    5      5 --
    6      6 --      REASONS FOR STUBBING : PROCEDURE  Perf_Get_State_Pkg.Get_State stubbed out to simplify testing.
    7      7 --      File Name: PERF_GET_STATE_PKG.ADA
    8      8
    9      9 with Ac_Position_Types;
   10     10 with Base_Domain_Services_Tpkg;
   11     11 with Io_Interface_Tpkg;
   12     12 with Navigation_Data;
   13     13 with Portable_Types_Pkg;
   14     14 with Perf_Background_Dpkg;
   15     15 with CTP_A350_PERF_BKGND_GET_BK_DATA;
   16     16 use Portable_Types_Pkg;
   17     17
   18     18
   19     19 package body Perf_Get_State_Pkg is
   20     20
   21     21
   22     22
   23     23
   24     24   procedure Get_State (Curacalt : in out Portable_Types_Pkg.Float_32;
   25     25                        Curacaltval : in out Boolean;
   26     26                        Curacposn : in out Ac_Position_Types.Lat_Lon_32_Valid.Normal;
   27     27                        Truetrk : in out Portable_Types_Pkg.Float_32;
   28     28                        Truetrkval : in out Boolean;
   29     29                        Vgrnd : in out Portable_Types_Pkg.Float_32;
   30     30                        Vgrndval : in out Boolean;
   31     31                        Windbrg : in out Portable_Types_Pkg.Float_32;
   32     32                        Windmag : in out Portable_Types_Pkg.Float_32;
   33     33                        Windval : in out Boolean) is
   34     34
   35     35
   36     36 begin
   37     37
   38     38 Curacalt                              := CTP_A350_PERF_BKGND_GET_BK_DATA.CTP_Psacalt;
   39     39 Perf_Background_Dpkg.Pcacposn.Data.Lat := 150.0;
   40     40 Perf_Background_Dpkg.Pcacposn.Data.Lon := 120.0;
   41     41 Perf_Background_Dpkg.Pcacposn.Valid    := true;
   42     42 Perf_Background_Dpkg.Pstruetrack       := 0.1;
```

File: CTP_A350_PERF_GET_STATE_PKG.STB (continued)

```
43    43 Perf_Background_Dpkg.Pswindbrg        := 200.0;
44    44 Perf_Background_Dpkg.Pswindmag        := 100.0;
45    45 Perf_Background_Dpkg.Pswindval        := true;
46    46 Perf_Background_Dpkg.Psacalt          := 100.0;
47    47 Perf_Background_Dpkg.Psacaltv         := True;
48    48 Perf_Background_Dpkg.Pstruetrkv       := True;
49    49 Perf_Background_Dpkg.Psvgrnd          := 1.0;
50    50 Perf_Background_Dpkg.Psvgrndval       := True;
51    51
52    52 end Get_State;
53    53
54    54 end Perf_Get_State_Pkg;
```

Mode: All Lines

File: CTP_A350_PERF_IO_FMS_AIRCRAF.STB

```
 1    1  --
 2    2  --     STUB File
 3    3  --
 4    4  --     CTP_A350_PERF_IO_FMS_AIRCRAF.STB
 5    5  --
 6    6  --     REASONS FOR STUBBING : PROCEDURE Puthetadel in Prf_External_Util_Pkg is stubbed out to aid the execution of this
         »  CTP.
 7    7  --     File Name: A3850_IO_FMS_AIRCRAFT_STATE_DPKG.ADA
 8    8
 9    9  -- common packages
10   10  with Math_Rad_Pkg;             -- common
11   11  with Portable_Types_Pkg;       -- common sw
12   12  with CTP_A350_PERF_BKGND_GET_BK_DATA;
13   13  -- use clauses
14   14  use Math_Rad_Pkg;
15   15  use Portable_Types_Pkg;
16   16
17   17
18   18  package body Io_Fms_Aircraft_State_Dpkg is
19   19
20   20
21   21
22   22     --Variables
23   23     Airborne_Dat : Boolean := False;
24   24     Airborne_Val : Boolean := False;
25   25
26   26     function Is_Airborne return Boolean is
27   27
28   28
29   29      pragma EXTERNAL_NAME (Is_Airborne, "_Io_Is_Airborne");
30   30      pragma Required( Is_Airborne );
31   31
32   32      begin
33   33
34   34         if CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_status = true then
35   35            Airborne_Dat := CTP_A350_PERF_BKGND_GET_BK_DATA.Airborne_valid;
36   36         end if;
37   37         return Airborne_Dat;
38   38
39   39     end Is_Airborne;
40   40
41   41     function Airborne_Is_Valid return Boolean is
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_IO_FMS_AIRCRAF.STB (continued)

```
42  42  |
43  43  |
44  44  |    pragma EXTERNAL_NAME (Airborne_Is_Valid, "_Io_Airborne_Is_Valid");
45  45  |    pragma Required( Airborne_Is_Valid );
46  46  |
47  47  |    begin
48  48  |
49  49  |       return Airborne_Val;
50  50  |
51  51  |    end Airborne_Is_Valid;
52  52  |
53  53  |    -- put
54  54  |
55  55  |    procedure Set_Is_Airborne (Value : in Boolean) is
56  56  |
57  57  |
58  58  |
59  59  |    begin
60  60  |
61  61  |       Airborne_Dat := Value;
62  62  |
63  63  |    end Set_Is_Airborne;
64  64  |
65  65  |    procedure Set_Airborne_Is_Valid (Value : in Boolean) is
66  66  |
67  67  |
68  68  |
69  69  |    begin
70  70  |
71  71  |       Airborne_Val := Value;
72  72  |
73  73  |    end Set_Airborne_Is_Valid;
74  74  |
75  75  |
76  76  |
77  77  |end Io_Fms_Aircraft_State_Dpkg;
78  78  |
```

Mode: All Lines

File: CTP_A350_PERF_PERF_EXT_DESPATH.STB

```
    1      1 --
    2      2 --      STUB File
    3      3 --
    4      4 --      CTP_A350_PERF_PERF_EXT_DESPATH.STB
    5      5 --
    6      6 --      REASONS FOR STUBBING : PROCEDURE  Pgvdespath  in Perf_Ext_Despath is stubbed out
    7      7
    8      8 --    File Name: perf_ext_despath.ada
    9      9 --
   10     10
   11     11 with Airbus_Lgbm;                    --    shared types
   12     12 with Apex_Types_Pkg;                 --    common
   13     13 with Fmcs_Base_Types;               --    common
   14     14 with Base_Domain_Services_Tpkg;  --    common
   15     15 with Io_Interface_Tpkg;            --    common
   16     16 with Lateral_Path_Type_Tpkg;      --    common
   17     17 with Ndb_Tpkg;                      --    common
   18     18 with Fprequestrec_Types;           --    shared types
   19     19 with Ops_Data_Retained_Pkg;        --    common
   20     20 with Portable_Types_Pkg;           --    common
   21     21 with Prf_Fp_Conv_Util_Pkg;
   22     22 with ctp_A350_perf_bkgnd_get_bk_data;
   23     23
   24     24 use Fprequestrec_Types;
   25     25 use Portable_Types_Pkg;
   26     26
   27     27 package body Perf_Ext_Despath is
   28     28
   29     29
   30     30   -- Local types
   31     31   type Storage_Record is
   32     32     --| @FIELD:  Vga_Rec
   33     33     --| @DESCRIPTION:  Record type that will hold one VGA point
   34     34     --| @COMMENTS:  N/A
   35     35
   36     36     record
   37     37
   38     38       Pgvdespath : Perf_Despath_Tpkg.Despthrecord;
   39     39       --| @FIELD:  Pgvdespath
   40     40       --| @DESCRIPTION:  Theoretical Descent Profile record
   41     41
   42     42       Pgvlvlnocstr : Perf_Despath_Tpkg.Lvlsegarr;
```

File: CTP_A350_PERF_PERF_EXT_DESPATH.STB (continued)

```
  43    43       --|   @FIELD:  Pgvlvlnocstr
  44    44       --|   @DESCRIPTION: An array of booleans, representing every predicted flight plan,
  45    45       --|              with the boolean indicating a level altitude not due to an alt cstr.
  46    46       --|              Set true if there is level altitude without alt constraint.
  47    47       Pgvnewdespth : Boolean;
  48    48       --|   @FIELD:  Pgvnewdespth
  49    49       --|   @DESCRIPTION:  Descent path change flag.  Set true if the descent path changes.
  50    50
  51    51     end record;
  52    52
  53    53   type Storage_Record_Type is array (Fprequestrec_Types.Active .. Fprequestrec_Types.Temporary) of Storage_Record;
  54    54
  55    55   -- Local variables
  56    56   Data_Storage : Storage_Record_Type;
  57    57
  58    58   New_Lock_Level : Apex_Partition_Pkg.Lock_Level_Type;
  59    59   Status : Apex_Types_Pkg.Status_Code_Type;
  60    60
  61    61
  62    62   procedure Initialize (Init_Type : in Apex_Partition_Pkg.Operating_Mode_Type) is
  63    63
  64    64   begin
  65    65
  66    66     -- no Initialization identified at this time
  67    67     null;
  68    68
  69    69   end Initialize;
  70    70
  71    71
  72    72
  73    73   procedure Invalidate_Pgvdespath (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgbm.Actprimary) is
  74    74
  75    75
  76    76     Route : Fprequestrec_Types.Major_Fp_Type;
  77    77
  78    78   begin
  79    79     Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Status);  -- lock
  80    80
  81    81     Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
  82    82
  83    83     -- Store the data
  84    84     Data_Storage (Route).Pgvdespath.Vgavalid := False;
  85    85     Data_Storage (Route).Pgvnewdespth := True;
  86    86
```

File: CTP_A350_PERF_PERF_EXT_DESPATH.STB (continued)

```
 87     87        Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Status);   -- unlock
 88     88      end Invalidate_Pgvdespath;
 89     89
 90     90
 91     91
 92     92      function Vga_Valid (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgbm.Actprimary) return Boolean is
 93     93
 94     94
 95     95         Route : Fprequestrec_Types.Major_Fp_Type;
 96     96
 97     97      begin
 98     98         Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
 99     99
100    100         return Data_Storage (Route).Pgvdespath.Vgavalid;
101    101      end Vga_Valid;
102    102
103    103
104    104
105    105      function Pgvdespath (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgbm.Actprimary; Reset_Flag : in Boo
               » lean := False)
106    106                           return Perf_Despath_Tpkg.Despthrecord is
107    107
108    108
109    109         Route : Fprequestrec_Types.Major_Fp_Type;
110    110
111    111      begin
112    112         Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
113    113         CTP_A350_PERF_BKGND_GET_BK_DATA.Pgvdespath_Exec := True;
114    114
115    115         if Reset_Flag then
116    116            Data_Storage (Route).Pgvnewdespth := False;
117    117         end if;
118    118
119    119         return Data_Storage (Route).Pgvdespath;
120    120
121    121      end Pgvdespath;
122    122
123    123
124    124
125    125      procedure Put_Pgvdespath (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgbm.Actprimary;
126    126                               Data : in Perf_Despath_Tpkg.Despthrecord) is
127    127
128    128         Route : Fprequestrec_Types.Major_Fp_Type;
129    129
```

File: CTP_A350_PERF_PERF_EXT_DESPATH.STB (continued)

```
130  130   begin
131  131
132  132      Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
133  133
134  134      Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Status);  -- lock
135  135
136  136      -- Store the data
137  137      Data_Storage (Route).Pgvdespath := Data;
138  138      Data_Storage (Route).Pgvdespath.Vgavalid := (Data.Vgaindxlast > 0) and then Data.Vgavalid;
139  139
140  140      Data_Storage (Route).Pgvnewdespth := True;
141  141
142  142      Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Status);   -- unlock
143  143   end Put_Pgvdespath;
144  144
145  145
146  146
147  147   function Despath_Changed (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgbm.Actprimary) return Boolean
      »  is
148  148
149  149
150  150      Route : Fprequestrec_Types.Major_Fp_Type;
151  151
152  152   begin
153  153      Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
154  154
155  155      return Data_Storage (Route).Pgvnewdespth;
156  156   end Despath_Changed;
157  157
158  158   function TDP_Level_Altitudes_Without_Alt_Constraints (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbus_Lgb
      »  m.Actprimary)
159  159                            return Perf_Despath_Tpkg.Lvlsegarr is
160  160      Route : Fprequestrec_Types.Major_Fp_Type;
161  161
162  162   begin
163  163      Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);
164  164
165  165      return Data_Storage (Route).Pgvlvlnocstr;
166  166
167  167   end TDP_Level_Altitudes_Without_Alt_Constraints;
168  168
169  169   procedure Put_TDP_Level_Altitudes_Without_Alt_Constraints (Fpln : in Fprequestrec_Types.Minor_Actorsec_Type := Airbu
      »  s_Lgbm.Actprimary;
170  170                                                    Data : in Perf_Despath_Tpkg.Lvlsegarr) is
```

File: CTP_A350_PERF_PERF_EXT_DESPATH.STB (continued)

```
171  171       Route : Fprequestrec_Types.Major_Fp_Type;

172  172

173  173    begin
174  174       Apex_Partition_Pkg.Lock_Preemption (New_Lock_Level, Status);  -- lock

175  175

176  176       Route := Prf_Fp_Conv_Util_Pkg.Minor_Fp_To_Major_Fp (Fpln);

177  177

178  178       -- Store the data
179  179       Data_Storage (Route).Pgvlvlnocstr := Data;

180  180

181  181       Apex_Partition_Pkg.Unlock_Preemption (New_Lock_Level, Status);   -- unlock

182  182

183  183    end Put_TDP_Level_Altitudes_Without_Alt_Constraints;

184  184

185  185  end Perf_Ext_Despath;

186  186
```

Mode: All Lines

File: CTP_A350_PERF_PUTHETADEL.STB

```
   1       1 --
   2       2 --      STUB File
   3       3 --
   4       4 --      CTP_A350_PERF_PUTHETADEL.STB
   5       5 --
   6       6 --      REASONS FOR STUBBING : PROCEDURE Puthetadel in Prf_External_Util_Pkg is stubbed out to aid the execution of this
             » CTP.
   7       7 --
   8       8 --      Source File Name: PRF_EXTERNAL_UTIL_PKG_PUTHETADEL.ADA
   9       9 --
  10      10 -- common packages
  11      11 with Math_Rad_Pkg;              -- common
  12      12 with Portable_Types_Pkg;        -- common sw
  13      13
  14      14 -- use clauses
  15      15 use Math_Rad_Pkg;
  16      16 use Portable_Types_Pkg;
  17      17
  18      18
  19      19 separate (Prf_External_Util_Pkg)
  20      20 procedure Puthetadel (Theta : out Portable_Types_Pkg.Float_32;
  21      21                       Thetadev : out Portable_Types_Pkg.Float_32;
  22      22                       Delta_Ratio : out Portable_Types_Pkg.Float_32;
  23      23                       Altitude : in Portable_Types_Pkg.Float_32;
  24      24                       Isadev : in Portable_Types_Pkg.Float_32;
  25      25                       Tropoalt : in Portable_Types_Pkg.Float_32) is
  26      26
  27      27
  28      28 ---- *********************************************************************
  29      29 ---- *              LOCAL CONSTANTS
  30      30 ---- *********************************************************************
  31      31
  32      32   Minimum_Alt : constant := -1000.0;                -- Minimum altitude (which could never happen)
  33      33
  34      34
  35      35
  36      36 -- *********************************************************************
  37      37 -- *              LOCAL VARIABLES
  38      38 -- *********************************************************************
  39      39
  40      40   Isatemp : Portable_Types_Pkg.Float_32;            -- Local ISA temperature
  41      41   Altitude_In : Portable_Types_Pkg.Float_32;        -- Altitude passed in, limited within the min/max range
```

Beyond Compare 2.1.1

File: CTP_A350_PERF_PUTHETADEL.STB (continued)

```
42|   42|
43|   43|
44|   44|
45|   45|begin  -- Prf_External_Util_Pkg.Puthetadel
46|   46|--    Altitude_In := Radian_Utilities_Pkg.Urlim (Altitude, Minimum_Alt, Pdb_Constants.Hcermaxalt);
47|   47|--
48|   48|--    if (Altitude_In < Shared_Const_Pkg.Default_Tropopause_Alt) then
49|   49|--       --   Below standard tropopause
50|   50|--       Delta_Ratio := (1.0 - Shared_Const_Pkg.Lpsratecon * Altitude_In) ** Shared_Const_Pkg.K1Con;
51|   51|--
52|   52|--    else
53|   53|--       --   At or above standard tropopause
54|   54|--       Delta_Ratio := 10.0 ** (Shared_Const_Pkg.K2Con - (Altitude_In / Shared_Const_Pkg.K3Con));
55|   55|--    end if;
56|   56|--
57|   57|--    --   CDU tropopause altitude
58|   58|--    if (Altitude_In < Tropoalt) then
59|   59|--       Isatemp := Shared_Const_Pkg.Isat0Con * (1.0 - Shared_Const_Pkg.Lpsratecon * Altitude_In);
60|   60|--
61|   61|--    else
62|   62|--       Isatemp := Shared_Const_Pkg.Isat0Con * (1.0 - Shared_Const_Pkg.Lpsratecon * Tropoalt);
63|   63|--    end if;
64|   64|--
65|   65|--    Theta := (Isatemp + Isadev) / Shared_Const_Pkg.Isat0Con;
66|   66|--    Thetadev := Isadev / Shared_Const_Pkg.Isat0Con;
67|   67|
68|   68|     NULL;
69|   69|
70|   70|end Puthetadel;
```

Mode: All Lines

File: CTP_A350_PERF_SPEED_LIMIT_TO_ENVELOPE.STB

```
    1      1 --
    2      2 --      STUB File
    3      3 --
    4      4 --       CTP_A350_PERF_SPEED_LIMIT_TO_ENVELOPE.STB
    5      5 --
    6      6 --      REASONS FOR STUBBING :   PROCEDURE Limit_To_Envelope in Prf_External_Util_Pkg is stubbed out
    7      7
    8      8 --      File Name :PRF_SPEED_PKG_LIMIT_TO_ENVELOPE.ADA
    9      9 --
   10     10 with Fmcs_Base_Types;                       -- common
   11     11 with Pdb_Functional_Interface_Pkg;          -- common
   12     12 with Portable_Types_Pkg;                    -- common
   13     13 with Perfspeedtyp_Types;                    -- shared fmf types
   14     14 with Perf_Ext_Tpkg;                         -- shared fmf types
   15     15 with Ctp_A350_Perf_Bkgnd_Get_Bk_data;
   16     16 with Perfspeedtyp_Types;                    -- shared fmf types
   17     17 with Perf_Database_Dpkg;                    -- shared fmf objects
   18     18 with Perf_Dpkg;                             -- shared fmf objects
   19     19 with Perf_Retained_Dpkg;                    -- shared fmf objects
   20     20 with Perf_Rt_Speeds_Dpkg;                   -- shared fmf objects
   21     21 with Perf_Config_Dpkg;
   22     22 with Perf_Int_Base_Tpkg;                    -- perf
   23     23 with Takeoff_Alt_Types;
   24     24
   25     25 use Fmcs_Base_Types;
   26     26 use Perf_Ext_Tpkg;
   27     27 use Perf_Int_Base_Tpkg;
   28     28 use Portable_Types_Pkg;
   29     29
   30     30 separate (Prf_Speed_Pkg)
   31     31 procedure Limit_To_Envelope (Vmax : in out Portable_Types_Pkg.Float_32;
   32     32                              Vmin : in out Portable_Types_Pkg.Float_32;
   33     33                              Maxmintyp : in Fmcs_Base_Types.Speed_Type;
   34     34                              Alt : in Portable_Types_Pkg.Float_32;
   35     35                              Gwt : in Portable_Types_Pkg.Float_32;
   36     36                              Fltphase : in Base_Domain_Services_Tpkg.Flight_Phase_Type;
   37     37                              Isadev : in Portable_Types_Pkg.Float_32;
   38     38                              Tropoalt : in Portable_Types_Pkg.Float_32;
   39     39                              Config : in Perf_Ext_Tpkg.Configtyp;
   40     40                              Press_Ratio : in Portable_Types_Pkg.Float_32;
   41     41                              Theta : in Portable_Types_Pkg.Float_32;
   42     42                              Engout : in Boolean;
```

File: CTP_A350_PERF_SPEED_LIMIT_TO_ENVELOPE.STB (continued)

```
43   43                        Speedmode : in Perf_Int_Base_Tpkg.Spdmodetyp;
44   44                        Numengout : in Portable_Types_Pkg.Integer_32;
45   45                        Landing_Config : in Perf_Ext_Tpkg.Configtyp;
46   46                        Fpln : in Perf_Ext_Tpkg.Pred_Major_Fp_Type) is
47   47
48   48   Appr_Spd : Perfspeedtyp_Types.Apprspeedtyp;   --  System Vapp speed
49   49   Dm : Portable_Types_Pkg.Float_32;             --  Max operating delta for Mach
50   50   Dv : Portable_Types_Pkg.Float_32;             --  Max operating delta for Cas
51   51   Greendot : Portable_Types_Pkg.Float_32;       --  Greendot CAS (Kt)
52   52   Maxcas : Portable_Types_Pkg.Float_32;         --  Maximum CAS
53   53   Maxmach : Portable_Types_Pkg.Float_32;        --  Maximum MACH
54   54   Mincas : Portable_Types_Pkg.Float_32;         --  Minimum CAS
55   55   Next_Config : Perf_Ext_Tpkg.Configtyp;        --  Next configuration in sequence (not used)
56   56   Pdb_Data : Pdb_Functional_Interface_Pkg.Access_Table_Type;  -- Variable to store table lookups
57   57   Stdisadev : Portable_Types_Pkg.Float_32;      --  Standard isa-deviation
58   58   Vapp : Portable_Types_Pkg.Float_32;           --  Approach speed
59   59   Vfe : Portable_Types_Pkg.Float_32;            --  Maximum CAS for flaps and slats extended
60   60   Vls : Portable_Types_Pkg.Float_32;            --  Minimum selectable CAS for a given aircraft configuration (Kt)
61   61   Vman : Portable_Types_Pkg.Float_32;           --  MANOEUVER SPEED FOR CONFIGURATION
62   62   Vxbuf02 : Portable_Types_Pkg.Float_32;        --  Maximum Mach with 0.2 G buffet margin
63   63   Vxthr : Portable_Types_Pkg.Float_32;          --  Maximum Mach due to thrust
64   64
65   65
66   66 begin  --  procedure Prf_Speed_Pkg.Limit_To_Envelope
67   67
68   68   Ctp_A350_Perf_Bkgnd_Get_Bk_Data.Envelope_Exec := True;
69   69
70   70 end Limit_To_Envelope;
```

Mode: All Lines

File: CTP_A350_IO_ADC_DPKG.STB

```
   1      1 |--
   2      2 |--    STUB File
   3      3 |--
   4      4 |--    CTP_A350_IO_ADC_DPKG.STB
   5      5 |--
   6      6 |--    REASONS FOR STUBBING : function  Io_Adc_Dpkg.Cas.Data, Io_Adc_Dpkg.Mach.Data, Io_Adc_Dpkg.Tas.Data are stubbed o
          |» ut
   7      7 |
   8      8 |with Fmcs_Partition_Data_Pkg;
   9      9 |with Apex_Partition_Pkg;
  10     10 |with Io_Adc_Private_Dpkg;
  11     11 |with Io_Adc_Sel_Pkg;
  12     12 |with Io_Adc_In_Pkg;
  13     13 |
  14     14 |with IO_FG_FM_INTERNAL_DPKG;
  15     15 |
  16     16 |
  17     17 |use Apex_Partition_Pkg;
  18     18 |use Io_Adc_Private_Dpkg;
  19     19 |use Io_Adc_In_Pkg;
  20     20 |
  21     21 |package body Io_Adc_Dpkg is
  22     22 |
  23     23 |
  24     24 |
  25     25 |  package body Adc_Valid is
  26     26 |  --!
  27     27 |
  28     28 |
  29     29 |    function Data return Boolean is
  30     30 |    begin
  31     31 |     -- return ( (not Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Adc_Discretes.Adr_Fault) and then
  32     32 |     --        (Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Adc_Discretes) );
  33     33 |     return ( (not Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Adc_Discretes.Adr_Fault) and then
  34     34 |        (Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Adc_Discretes) );
  35     35 |    end Data;
  36     36 |
  37     37 |    function Is_Valid return Boolean is
  38     38 |    begin
  39     39 |     -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Adc_Discretes );
  40     40 |     return Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Adc_Discretes;
  41     41 |    end Is_Valid;
```

File: CTP_A350_IO_ADC_DPKG.STB (continued)

```
42    42
43    43    end Adc_Valid;
44    44
45    45
46    46    package body Altitude is
47    47    --!
48    48
49    49
50    50      function Data return Float_32 is
51    51      begin
52    52       -- return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Altitude );
53    53        return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Altitude );
54    54      end Data;
55    55
56    56      function Is_Valid return Boolean is
57    57      begin
58    58       -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Altitude );
59    59        return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Altitude );
60    60      end Is_Valid;
61    61
62    62    end Altitude;
63    63
64    64    package body Baro_Corr_Alt_Internal is
65    65    --!
66    66
67    67      function Data return Float_32 is
68    68      begin
69    69      --  return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Baro_Corr_Alt_Internal_1 );
70    70        return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Baro_Corr_Alt_Internal_1 );
71    71      end Data;
72    72
73    73      function Is_Valid return Boolean is
74    74      begin
75    75       -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Baro_Corr_Alt_Internal_1 );
76    76        return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Baro_Corr_Alt_Internal_1 );
77    77      end Is_Valid;
78    78
79    79    end Baro_Corr_Alt_Internal;
80    80
81    81
82    82    package body Baro_Correction_Hg_1 is
83    83    --!
84    84
85    85      function Data return Float_32 is
```

File: CTP_A350_IO_ADC_DPKG.STB (continued)

```
 86    86         begin
 87    87           --return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Baro_Correction_Hg_1 );
 88    88           return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Baro_Correction_Hg_1 );
 89    89         end Data;
 90    90
 91    91       function Is_Valid return Boolean is
 92    92       begin
 93    93        -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Baro_Correction_Hg_1 );
 94    94        return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Baro_Correction_Hg_1 );
 95    95       end Is_Valid;
 96    96
 97    97     end Baro_Correction_Hg_1;
 98    98
 99    99
100   100     package body Baro_Correction_Mb_1 is
101   101     --!
102   102
103   103       function Data return Float_32 is
104   104       begin
105   105        -- return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Baro_Correction_Mb_1 );
106   106        return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Baro_Correction_Mb_1 );
107   107       end Data;
108   108
109   109       function Is_Valid return Boolean is
110   110       begin
111   111        -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Baro_Correction_Mb_1 );
112   112         return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Baro_Correction_Mb_1 );
113   113       end Is_Valid;
114   114
115   115     end Baro_Correction_Mb_1;
116   116
117   117     package body Cas is
118   118     --!
119   119
120   120       function Data return Float_32 is
121   121       begin
122   122           return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Cas );
123   123       end Data;
124   124
125   125       function Is_Valid return Boolean is
126   126       begin
127   127         -- return ( Io_Fg_Fm_Internal_Dpkg.PRIM_Cas.Is_Valid or
128   128         --          Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Cas );
129   129           return ( Io_Fg_Fm_Internal_Dpkg.PRIM_Cas.Is_Valid or
```

File: CTP_A350_IO_ADC_DPKG.STB (continued)

```
130    130              Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Cas );
131    131        end Is_Valid;
132    132
133    133    end Cas;
134    134
135    135    package body Mach is
136    136    --!
137    137
138    138      function Data return Float_32 is
139    139      begin
140    140          return Float_32(Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Mach);
141    141      end Data;
142    142
143    143      function Is_Valid return Boolean is
144    144      begin
145    145        --  return ( Io_Fg_Fm_Internal_Dpkg.PRIM_Mach.Is_Valid or
146    146        --            Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Mach );
147    147        return ( Io_Fg_Fm_Internal_Dpkg.PRIM_Mach.Is_Valid or
148    148          Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Mach );
149    149      end Is_Valid;
150    150
151    151    end Mach;
152    152
153    153    package body Sat is
154    154    --!
155    155
156    156      function Data return Float_32 is
157    157      begin
158    158      --  return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Rec.Sat );
159    159        return Float_32( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Sat );
160    160      end Data;
161    161
162    162      function Is_Valid return Boolean is
163    163      begin
164    164       -- return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Sat );
165    165       return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Sat );
166    166      end Is_Valid;
167    167
168    168    end Sat;
169    169
170    170    package body Tas is
171    171    --!
172    172
173    173      function Data return Float_32 is
```

File: CTP_A350_IO_ADC_DPKG.STB (continued)

```
174   174      begin
175   175        return Float_32(Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Rec.Tas);
176   176      end Data;
177   177
178   178      function Is_Valid return Boolean is
179   179      begin
180   180      --  return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_Adr_Msg_Validity_Rec.Tas );
181   181       return ( Io_Adc_Sel_Pkg.The_Selected_Adc.all.Io_ADIRU_ADR_AFDX_MSG_Validity_Rec.Tas );
182   182      end Is_Valid;
183   183
184   184   end Tas;
185   185
186   186
187   187
188   188 end Io_Adc_Dpkg;
```