

Application Acceptance Test Report

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Project: zFAS Series

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SW-C: CtApTrailerManeuverAssistIP

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Revision Chart

Version	Date	Responsible Person	Description
3.50.0	2019-09-10	Cedomir Jovanovic	Automatic creation of the document

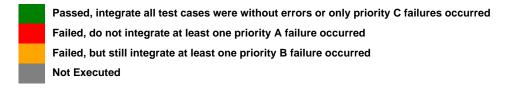
1. Application Acceptance Test Result

This chapter documents the overall test results of the performed Application Acceptance Test.

1.1 SW-C Overall Test Result & Integration Recommendation

SWC Name	Version	Integration Recommendation
CtApTrailerManeuverAssistIP	SWC-X320-I3.1.1- P41.5_20180808134400- S15.0_?????	Failed, do not integrate

Table 1 Application Acceptance Test Result & Integration Recommendation



1.2 Statistics

	Priority A		Priority B		Priority C		Total	
Overall number of test cases	6	100%	22	100%	7	100%	35	100%
Executed test cases	4	66.7%	18	81.8%	5	71.4%	27	77.1%
Not executed test cases	2	33.3%	4	18.2%	2	28.6%	8	22.9%
Passed test cases	3	50%	14	63.6%	2	28.6%	19	54.3%
Failed test cases	1	16.7%	4	18.2%	3	42.9%	8	22.9%

Table 2 Statistics

1.3 Test Case Results

TC ID		Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
1	SWC limits check	Reads and checks all limits from Architectursteckbriefe. It creates temporary file swc_limits.csv used by other processes	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
2	Folder content check	Checks if delivered SWC contains all mandatory subfolders	PRIO_A	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
3	Release notes check	Check Release Notes document against the delivered SWC content	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	11	Release label unknown! The node is empty! Data Audi\AU536_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_BSV3.hex stated in XML document not found in deliveries! Data Audi\AU581_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_AddNWB_ELB.hex stated in XML document not found in deliveries! Data Audi\AU583_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_AddNWB_ELB.hex stated in XML document not found in deliveries! Data Volkswagen\VW536_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration.hex stated in XML document not found in deliveries! Data MISRA_PolyspaceReport_CtApTrailerManeuverAssistIP stated in XML document not found in deliveries! Data SRH.CtApTrailerManeuverAssistIP_build stated in XML document not found in deliveries!	No bug references.



TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
						Data Testprotokoll_Abnahmetest_BV_zFAS stated in XML document not found in deliveries! There are undocumented files/folders in Data folder: [audi\au536_series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMParameter_BSV0.hex, MISRA_ PolyspaceReport_CtApTrailerManeuverAssistIP.html, SRH.CtApTrailerManeuverAssistIP_build.log, Testprotokoll_ Abnahmetest_BV_zFAS.doc, Testprotokoll_Abnahmetest_BV_zFAS.pdf]! There are undocumented files/folders in Document folder: [Architektursteckbrief_CtApTrailerManeuverAssistIP.pdf, Releaseinformationen_R_BV_1-5_ZFAS_2-93-0-E_DS_1-0.pdf]! Release version not found in Release notes.	
4	Supplier's AITR check	Verifies and checks the supplier's AITR document against the delivered SWC content.	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	6	Data Audi\AU536_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_BSV3.hex stated in XML document not found in deliveries! Data Audi\AU581_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_AddNWB_ELB.hex stated in XML document not found in deliveries! Data Audi\AU583_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration_AddNWB_ELB.hex stated in XML document not found in deliveries! Data Volkswagen\VW536_Series\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration.hex stated in XML document not found in deliveries! There are undocumented files/folders in Data folder: [audi\au536_series\CtApTrailerManeuverAssistIP_	No bug references.



TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
						PiDsTrailerManeuverAssistIPDataSet_DeARACAMParameter_ BSV0.hex, Testprotokoll_Abnahmetest_BV_zFAS.doc]! There are undocumented files/folders in Document folder: [Architektursteckbrief_CtApTrailerManeuverAssistIP.pdf, Releaseinformationen_R_BV_1-5_ZFAS_2-93-0-E_DS_1-0.pdf]!	
5	Check 02_libs content (Libraries delivered)	Checks the existance of the libraries in 02_libs folder. At least one library should exist in this folder. Existance should be checked by expected file extension	PRIO_A	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
6	Check for mandatory MAP file	Checks if mandatory MAP file exists in 05_data subfolder. There must be exactly one MAP file	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
7	Check for mandatory MISRA file	Checks if mandatory MISRA file exists in 05_data subfolder. There must be exactly one MISRA file	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
8	Check for mandatory BUILD LOG files	Checks if one or more build log files are delivered in 05_data subfolder	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
9	Check for mandatory test cases in the delivery	Checks if all mandatory test cases are delivered in 04_test subfolder	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	1	Test Directory is empty	No bug references.
10	Test Case naming convention check	Checks if all delivered Test cases (mandatory and additional) follows the naming convention	PRIO_B		Not Executed	Test Directory is empty. Test case cannot be executed.	



TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
11	Mandatory Test Case folder content check	Checks if every mandatory test case folder contains all mandatory files.	PRIO_B		Not Executed	Test Directory is empty. Test case cannot be executed.	
12	Additional Test Case folder content check	Checks if additional test case folder (if any) contains all mandatory files.	PRIO_C		Not Executed	Test Directory is empty. Test case cannot be executed.	
13	Heap allowed but not used	Checks if SWC is allowed to use Heap but heap is never been used.	PRIO_C	2019-09-10 17:15 - 2019-09-10 17:19	1	Heap limits non zero, but no heap function ever called!	No bug references.
14	Heap used but not allowed	Checks if SWC using the heap but it is not allowed to use.	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
15	Host check	Check if SWC's host stated in Release Notes document is correct (the same as the one stated in Architecture Model)	PRIO_C	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
16	ASIL level check	Check if SWC's ASIL level stated in Release Notes documents is correct (the same as the one stated in Architecture Model)	PRIO_C	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.
17	Supplier's AITR limits check	Checks the limits stated in supplier's AITR document against the limits in Architektursteckbriefe	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	1	Runnable missing! Expected runnable: RTrailerManeuverAssistIPMain cannot be found in AITR's runnable list:	No bug references.
18	Mandatory test case result check	Checks the result of the mandatory test cases stated in supplier's AITR document	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	Passed, integrate		No bug references.



TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
19	Additional test	Checks the result of the additional test cases stated in supplier's AITR	PRIO_C	2019-09-10 17:15 -	4	Aditional Test Case ID=" not executed.	No bug
	case result check	document (if any)		2019-09-10 17:19		Aditional Test Case ID=" not executed.	references.
	oo.k			17:19		Aditional Test Case ID=" not executed.	
						Aditional Test Case ID=" not executed.	
20	Interface check	Checks symbols used by delivered libraries against the allowed symbol set - white list (RTE symbols from Contract header and specific list of symbols from the Architecture Model)	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate	0 forbidden symbols found. See unagreed symbols in unagreed_symbols_ CtApTrailerManeuverAssistIP.txt	No bug references.
21	RTE inteface usage check	Checks if all RTE inteface are used	PRIO_C	2019-09-10 17:17:00 - 2019-09-10 17:19	59	77.00% of RTE interfaces not used, 23.00% used. See unused RTE interfaces in unused_rte_ CtApTrailerManeuverAssistlP.txt See RTE symbols statistics table in used_categories_stats_ CtApTrailerManeuverAssistlP.txt Maybe not all the RTE interfaces from the Model are needed to be used, see SW-C's Release Notes.	No bug references.
22	Resource consumption check	Checks the resource consumption from the delivered MAP file against the limits in Architektursteckbriefe	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
23	XML content check	Checks if Release Notes document and supplier's AITR document (xml format)are valid XML file by the xml standards and by the XML Schema.	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
24	AIT version check	Checks if AIT version stated in delivered supplier's AITR exists in the list of allowed AIT versions by Preintegration environment (Architecture).	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
25	Release version check	Checks if the Release label stated in delivered Release Notes exists in the lists of Acceptable	PRIO_A		Not Executed	Release version not found in Release notes. Test case cannot be executed	



TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
		Releases by Preintegration environment(Architecture).					
26	Check allowed compiler flags	Reads BUILD LOG files and checks compiler and linker flags found there against the allowed ones stated in the Preintegration environment (Architecture).	PRIO_A		Not Executed	No compiler flags extracted from log: incorrect format of log file. No linker flags extracted from log: incorrect format of log file.	
27	Compiler version check	Checks if Compiler version stated in delivered Release Notes is accepted by the Preintegration environment (Architecture).	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate	Versions are not equal, but acceptable! Expected 4.8.1 - Found 4.8.1.2	No bug references.
28	MISRA level check	Reads MISRA measurements from supplier's AITR file and checks if level is correct. If MISRA measurements not delivered within AITR file test fails.	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
29	Is SWC buildable	Checks the result of Integrator's build process.	PRIO_A	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate	Build successful.	No bug references.
30	Memory Mapping check	Checks if all symbols used in component are in correct memory section.	PRIO_B		Not Executed	This test is executed for APH components only.	
31	Extended Version check	Compares SW-C version with the release label from the build process. Both data is given by supplier in Release Notes.	PRIO_C		Not Executed	Release version not found in Release notes. Test case cannot be executed Release label missing from Release Notes. Test cannot be executed.	
32	Availability of dataset files check	The SWC delivery is checked. If it contains the .hex files in the RN (compares RN against the delivery)	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
33	Dataset version check	Checks the version found in every hex file against the version stated in RN	PRIO_A	2019-09-10 17:17:00 - 2019-09-10 17:19	2	Hex file Audi\Default\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_ DeARACAMCameraCalibration.hex has incorrect version. Expected 13.0 - Found in release notes 15.0	No bug references.

TC ID	Test Case	Test Case Description	Priority	Executed at	Result ¹	Explanation/Comment	Bug References
						Hex file Audi\Default\CtApTrailerManeuverAssistIP_ PiDsTrailerManeuverAssistIPDataSet_DeARACAMParameter.hex has incorrect version. Expected 13.0 - Found in release notes 15.0	
34	Dataset filesize check	Checks the size found in every hex file against the size projected by the Architecture Model.	PRIO_B	2019-09-10 17:17:00 - 2019-09-10 17:19	Passed, integrate		No bug references.
35	Check mandatory compiler/linker flags	Reads BUILD LOG files and checks compiler and linker flags found there against the mandatory ones stated in the Preintegration environment (Architecture).	PRIO_B		Not Executed	Result changed to not_executed. Due to internal issue118172	
				Sum ²	8/27		

Table 3 Test Case Results

²Ratio of test cases: failed/executed



¹If test case fails, number of errors are shown in this column

2 Test Artefact Information

The following describes the artefacts which were tested at the integrator and delivered by the SW-C supplier during Application Acceptance Testing

2.1 Test Input Artefacts provided by the SWC-Supplier

Name	CtApTrailerManeuverAssistIP
Version	SWC-X320-I3.1.1-P41.5_20180808134400-S15.0_?????
ASIL Level	QM
Host	SRH
Description	

Table 4 Tested SWC

Name	Version	Comment
libCtApTrailerManeuverAssistIP.a		

Table 5 Tested Release Content

2.2 Test Output Artefacts generated by the Integrator

Name	Version	Comment
AATR_TTTech_ CtApTrailerManeuverAssistIP.xml	2.0.2	automatic creation
used_categories_stats_ CtApTrailerManeuverAssistIP.txt		File containing statistic table of used RTE symbols in swc libraries
unused_rte_ CtApTrailerManeuverAssistIP.txt		File containing list of unused RTE interfaces with its categories
used_symbols_ CtApTrailerManeuverAssistIP.txt		File containing all used symbols in swc libraries
AAT_release_notes20190910171546.log		File containing all information about checks in AAT process
used_rte_ CtApTrailerManeuverAssistIP.txt		File containing list of used RTE interfaces with its categories
unagreed_symbols_ CtApTrailerManeuverAssistIP.txt		File containing all unagreed symbols in swc libraries
white_CtApTrailerManeuverAssistIP.dat		Whitelist file containting all allowed symbols specific to the SWC.

Table 6 Generated Test Artefacts

3 Test Environment Information

3.1 Test Management

PTC Integrity Baseline Label	-
PTC Integrity Test Session ID	3302346
PTC Integration Test Element	753484

Table 7 Test Management Table

3.2 AAT Test Framework Information

Application Integration Test Environment has not been changed.

AAT Test Framework Version	C8_REL_REV176895
Change description	No changes
Effects of Change	No effects

Table 8 AAT Test Framework Information

3.3 Additional Software Tools

{NO DATA}

3.4 Test PC Software Image

{NO DATA}

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Guidelines

There are no guidelines.