Application Acceptance Test Report

Release Name:	SYS-E350-I3.1.1-P51.5

Project:	zFAS Series

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Revision Chart

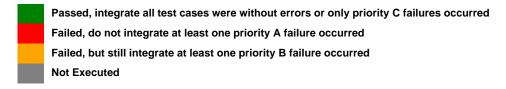| Version	Date	Responsible Person	Description
3.50.0	2019-09-10	Cedomir Jovanovic	Automatic creation of the document

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
CtCdParkControl	SWC-0340-I3.1.1-P44.5_20190125080227-S40.81_20190219145122	**Failed, but still integrate**

Table 1 Application Acceptance Test Result & Integration Recommendation

🟩 **Passed, integrate all test cases were without errors or only priority C failures occurred**

🟥 **Failed, do not integrate at least one priority A failure occurred**

🟧 **Failed, but still integrate at least one priority B failure occurred**

⬜ **Not Executed**

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%	20	90.9%	7	100%	31	88.6%
Not executed test cases	2	33.3%	2	9.1%	0	0%	4	11.4%
Passed test cases	4	66.7%	11	50%	6	85.7%	21	60%
Failed test cases	0	0%	9	40.9%	1	14.3%	10	28.6%

Table 2 Statistics

1.3 Test Case Results

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	Bug References
1	SWC limits check	Reads and checks all limits from Architektursteckbriefe. It creates temporary file swc_limits.csv used by other processes	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	2	Architektursteckbriefe error: Missing data RAM_KB for Runnable RParkControlSpeaker10ms Architektursteckbriefe error: Missing data FLASH_KB for Runnable RParkControlSpeaker10ms	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	7	Data 20190219145122.APH.CtCdParkControl_build.log stated in XML document not found in deliveries! Data CtCdParkControl.elf.map stated in XML document not found in deliveries! Data MISRA_CtCdParkControl_Implementation_sum.txt stated in XML document not found in deliveries! Data Datasets stated in XML document not found in deliveries! Binary CtCdParkControl.elf.hex stated in XML document not found in deliveries! There are undocumented files/folders in Binary folder: [CtCdParkControl_D.odx, CtCdParkControl_D.zip]! There are undocumented files/folders in Document folder:[Release_Notes.pdf]!	No bug references.
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	7	Data 20190219145122.APH.CtCdParkControl_build.log stated in XML document not found in deliveries! Data CtCdParkControl.elf.map 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 MISRA_CtCdParkControl_Implementation_sum.txt stated in XML document not found in deliveries! Data Datasets stated in XML document not found in deliveries! Binary CtCdParkControl.elf.hex stated in XML document not found in deliveries! There are undocumented files/folders in Binary folder: [CtCdParkControl_D.odx, CtCdParkControl_D.zip]! There are undocumented files/folders in Document folder:[Release_ Notes.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	2	.map file does not exist .mapxml file does not exist	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	1	MISRA file does not exist	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	1	.log file does not exist	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	**Passed, integrate**		No bug references.

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	Bug References
10	Test Case naming convention check	Checks if all delivered Test cases (mandatory and additional) follows the naming convention	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
11	Mandatory Test Case folder content check	Checks if every mandatory test case folder contains all mandatory files.	PRIO_B	2019-09-10 17:15 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
12	Additional Test Case folder content check	Checks if additional test case folder (if any) contains all mandatory files.	PRIO_C	2019-09-10 17:15 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
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	**Passed, integrate**		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	**Passed, integrate**		No bug references.

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	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	**1**	Mandatory Test Case ID='ETC005' not passed.	No bug references.
19	Additional test case result check	Checks the result of the additional test cases stated in supplier's AITR document (if any)	PRIO_C	2019-09-10 17:15 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
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	**7**	7 forbidden symbols found. See unagreed symbols in unagreed_symbols_CtCdParkControl.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	**233**	41.00% of RTE interfaces not used, 59.00% used. See unused RTE interfaces in unused_rte_CtCdParkControl.txt See RTE symbols statistics table in used_categories_stats_ CtCdParkControl.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		**Not Executed**	.map file does not exist. Test cannot be executed Since this is the APH component and delivered Release version is not the same as the current Release version, test cannot be executed.	
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.

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	Bug References
25	Release version check	Checks if the Release label stated in delivered Release Notes exists in the lists of Acceptable Releases by Preintegration environment(Architecture).	PRIO_A	2019-09-10 17:17:00 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
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**	.log file does not exist. Test cannot be executed	
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**		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**	MISRA file does not exist	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	2019-09-10 17:17:00 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
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	2019-09-10 17:17:00 - 2019-09-10 17:19	**Passed, integrate**		No bug references.
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	**9**	Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeColmCfg.hex found in 05_data folder cannot be found in Release Notes.	No bug references.

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	Bug References
						Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeCustomerCfg_R.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeDapmCfg.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeFilmCfg.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeIpaCfg_R.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeMopmCfg.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeOdomCfg.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeVctmCfg.hex found in 05_data folder cannot be found in Release Notes. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeVdimCfg.hex found in 05_data folder cannot be found in Release Notes.	
33	Dataset version check	Checks the version found in every hex file against the version stated in RN	PRIO_A		**Not Executed**	Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeColmCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeCustomerCfg_R.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly.	

TC ID	Test Case	Test Case Description	Priority	Executed at	Result[1]	Explanation/Comment	Bug References
						Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeDapmCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeFilmCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeIpaCfg_R.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeMopmCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeOdomCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeVctmCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly. Hex file Audi\Default\CtCdParkControl_PiDsParkControlDataSet_ DeVdimCfg.hex found in 05_data folder cannot be found in Release Notes. Test cannot be executed correctly.	
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**	.log file does not exist. Test cannot be executed	
				Sum[2]	**10/31**		

Table 3 Test Case Results

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

[2]Ratio of test cases: failed/executed

	Passed
	Failed
	Not Executed

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	CtCdParkControl
Version	SWC-0340-I3.1.1-P44.5_20190125080227-S40.81_20190219145122
ASIL Level	QM
Host	APH
Description	

Table 4 Tested SWC

Name	Version	Comment
libCtCdParkControl_BDL.a		
libCtCdParkControl_Implementation.a		
libCtCdParkControl_ServerRunnables.a		

Table 5 Tested Release Content

2.2 Test Output Artefacts generated by the Integrator

Name	Version	Comment
AATR_TTTech_CtCdParkControl.xml	2.0.2	automatic creation
used_rte_CtCdParkControl.txt		File containing list of used RTE interfaces with its categories
unused_rte_CtCdParkControl.txt		File containing list of unused RTE interfaces with its categories
bad_memory_sections_ CtCdParkControl.txt		File containing information about bad memory sections
used_symbols_CtCdParkControl.txt		File containing all used symbols in swc libraries
used_categories_stats_ CtCdParkControl.txt		File containing statistic table of used RTE symbols in swc libraries
AAT_release_notes20190910171546.log		File containing all information about checks in AAT process
unagreed_symbols_CtCdParkControl.txt		File containing all unagreed symbols in swc libraries

white_CtCdParkControl.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	933649

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}

Guidelines

Guidelines:
    * - PDC Button is used for PDC activation Normally, And it can be activated by Reverse(R) Gear and Deactivated by (P) Also.
    * - For Activating IPA: 1- Press the PLA Button While the car is moving and select the parking side by the Blinkers. 2- Driver Seat belt should be fastened. 3- After POS_OK driver should engage P Gear and press brake and release. 4- Fahr Taster should be pressed.
    * - For Activating Park Me Out (PMO):   + Car to be inside a slot.   + Car at Park (P) Gear.   + Press the PLA Button.   + Set Blinker.   + Press the FahrTaster Button.   + Driver should press brake and release.