System Test Report

(Systemtestbericht)

(TINF18C, SWE I Praxisprojekt 2019/2020)

Project: DD2AML Converter

Customer: Rentschler & Ewertz

Rotebühlplatz 41 70178 Stuttgart

Supplier: Team 3 – by Antonia Wermerskirch

(Nora Baitinger, Antonia Wermerskirch, Carl Beese, Lara Mack, Bastiane Storz)

Rotebühlplatz 41 70178 Stuttgart

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0.1	07.09.2018	created	
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0.3	04.05.2020	Wermerskirch	Test Results for GUI added
1.0	09.05.2020	Wermerskirch	Finalization

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1. Scope

The TCS / TRP (Test Case Specification / Test Report) describes the environment, the preconditions and the actions of a test performed or to be performed. If the test was performed, the results are given. Test Case Specification / Test Reports are referenced by System Integration Plans/Reports (SIP/SIR), by System Test Plans/Reports (STP/STR) and by System Validation Plans/Reports (SVP/SVR).

2. Definitions

TC TestcaseTS TestsuiteMC Multicast

CLI Command Line InterfaceGUI Graphical User Interfac

3. Test Objects

RefId.	Test Object Name	product-number, serial-number, modification status
1	DD2AML Conversion Library	Build v1.0 beta
2	DD2AML CLI and GUI	Build v1.0 beta

4. Test Equipment

The following equipment must be available for testing:

- A computer with Windows 7 or higher
- Installed AutomationML Editor (<u>Download here</u>)
- Installed DD2AML software

5. Results of Testsuite <TS-001: Conversion Library>

5.1. Results of <TC-001-001> (File Validation with valid input file)

Testca	se ID:	TC-001-001				
Testca	se Name:	File Validation with valid input file				
ReqII	D:	LF20, LF10, LF30, LF40, LF50				
Test Se	etup:	The Balluff-	BNI_IOL_355_S02_Z013-20170315-IO	DD1.1.xml is used as test file.		
			Test Steps			
Step	Action		Expected result	Actual Result		
1	Install the DI and open the ing cmd in the	CLI by typ-	The DD2AML tool is installed on the system. The CLI is open.	The DD2AML tool is installed on the system. The CLI is open.		
2	search. Select a valid input file for the validation, for example: dd2aml —input /filePathTo/Balluff- BNI_IOL_355_S02_Z013 -20170315-IODD1.1.xml		The validation is executed successfully, and the conversion is completed correctly without error message.	The conversion is completed successfully and the AMLX file can be opened.		
3	Then open the logs of the CLI. These can be found under: C:\Users\USERNAME\ AppData\Local\ DD2AML\Logs\CLI		After replacing the USERNAME tag with the real username, the CLI folder with all logs opens. The most recent log is opened.	After navigating to the CLI log folder, the latest log can be opened.		
Find the log message that shows that the file was successfully deserialized. It can be found at the beginning of the log file.		g message hat the file fully dese- n be found	The log message "DD file was deserialized correctly." should be found approximately in the 5th line of the log. An INFO log message text "DD file was deserialized correctly." could be found the 5th line.			
Tester	:	Antonia We	ermerskirch			
Date:		09.05.2020				
Testca	se Result:			PASS		



5.2. Results of <TC-001-002> (File Validation with invalid input file)

Testcase ID:		TC-001-002					
Testcase Name: File Validation with valid input file							
ReqII							
Test Se			I_IOL_355_S02_Z013-20170315-IO	DD1.1.xml is used as test file.			
			Test Steps				
Step	Action		Expected result	Actual Result			
		2AML tool and	The DD2AML tool is installed on	The DD2AML tool is installed			
1		by typing cmd	the system. The CLI is open.	on the system. The CLI is			
	in the windo			open.			
		d input file for	The conversion is aborted after	The conversion is terminated			
		n, for example:	the failed validation.	with an error message.			
2	dd2aml	–input					
_		BrokenBalluff-					
	BNI_IOL_355						
	20170315-IO						
		he logs of the	After replacing the USERNAME	After navigating to the CLI log			
	CLI. These ca	n be found un-	tag with the real username, the	folder, the latest log can be			
	der:	C:\Us-	CLI folder with all logs opens.	opened.			
3	ers\USERNAN	ΛΕ∖Ap-	The most recent log is opened.				
	pData\Lo-						
	cal\DD2AML\Logs\CLI						
	Lagirat tha f	irst error mes-	The agree made and he found	The agree was a second was found			
			The error message can be found	The error message was found in the 5th line. In the test case			
	sage in the lo	igs.	approximately in the 5th line. Detailed information about the				
4				it contains the following: The			
4			error, as well as line details are	'Feature' start tag on line 31			
			given.	position 8 does not match the			
				end tag of 'Features'. Line 33,			
				position 9.			
Tester	•	Antonia Werm	erskirch				
Date:	•	09.05.2020	CI SKII CI I				
	se Result:	03.03.2020		PASS			
· cocca				. 733			

6. Results of Testsuite <TS-002: Command Line Interface>

6.1. Results of <TC-002-001> (View CLI help text)

Testca	se ID:	TC-002-	002					
Testca	se Name:	View CLI help text						
ReqII	D:	LF60						
Test Se	etup:	The Ball	uff-BNI_IOL_355_S02_Z013-20170315-IO	DD1.1.xml is used as test file.				
	_		Test Steps					
Step	Action		Expected result	Actual Result				
1	Install the D	DD2AML	The DD2AML tool is installed on the	The DD2AML tool is installed				
	tool and oper	n the CLI	system. The CLI is open.	on the system. The CLI is				
	by typing cm	d in the		open.				
	windows sea	rch.						
2	Run the DD2	AML CLI	Regardless of the other valid argu-	As long ashelp is included in				
	with valid arg	guments	ments, only "help" is executed and a	the transfer parameters, the				
	and use the h	elp flag.	help text is displayed, showing all pos-	help text is displayed, which				
			sible functions.	gives information about all				
				possible transfer parameters.				
Tester: Antonia			Wermerskirch					
Date:		04.05.20	020					
Testca	se Result:			PASS				

6.2. Results of <TC-002-002> (Converting without output flag)

Testcase ID: TC-002-			002	
Testcase Name: Converting without output flag				
ReqII	D:	LF60		
Test So	etup:	The Ball	uff-BNI_IOL_355_S02_Z013-20170315-IO	DD1.1.xml is used as test file.
			Test Steps	
Step	Step Action		Expected result	Actual Result
1	Install the D	DD2AML	The DD2AML tool is installed on the	The DD2AML tool is installed
	tool and oper	n the CLI	system. The CLI is open.	on the system. The CLI is
	by typing cm	d in the		open.
windows search.		rch.		
2 Run the DD2AML CLI		AML CLI	The conversion is executed success-	The output file will be saved
with valid input flag,		out flag,	fully. Since no output path is given, the	in the input directory without
	for example:		output file is saved in the file path of	further inquiry. If an output
			the input file.	



dd2aml /filePathTo/E BNI_IOL_355 013-2017031 IODD1.1.xml	_S02_Z .5-	file with the same name already exists, the system will first ask whether it is allowed to overwrite it.
Tester: Date: Testcase Result:	Antonia Wermerskirch 04.05.2020	PASS

7. Results of Testsuite <TS-003: Graphical User Interface>

7.1. Results of <TC-003-001> (GUI Input field verification)

Testca	estcase ID: TC-003-001						
Testca	se Name:	GUI Input field verification					
ReqII	D:	LF70					
Test Setup: The DD2AML software should be downloaded and ready to run the setul installation.							
			Test Steps				
Step	Action		Expected result	Actual Result			
1	Install the DD2AML Software and open the GUI.		The software is installed and the GUI window opens.	With installed DD2AML Software the GUI window opens.			
2	Try to start the conversion by pressing the "Convert" button at the bottom centre.		Conversion not possible, because "Convert" button stays deactivated.	It is not possible to start the conversation by clicking "Convert" while the input field is empty.			
T	-	A t	NA/a was a salidash				
			nia Wermerskirch				
Date: 04.05.			JZU				
restca	se Result:			PASS			

7.2. Results of <TC-003-002> (GUI Input file selection via file explorer)

Testca	Testcase ID: TC-003-002							
Testca	se Name:	GUI Input file selection via file explorer						
ReqII	D:	LF70						
Test Setup: The DD2AML software should be downloaded and ready to run the setup installation.								
			Test Steps					
Step	Action		Expected result	Actual Result				
1	Install the [DD2AML	The software is installed and the GUI	With installed DD2AML Soft-				
	Software an	d open	window opens.	ware the GUI window opens.				
	the GUI.							
2	Click on the '	'" but-	The file explorer opens in a new win-					
	ton at the en	d of the	dow.					
input text field.		ld.						
3	3 Click on "Files" in the		A drop-down menu opens showing	The drop-down list shows				
	lower right co	orner di-	that only file suffix with .xml or .cspp	that only files with .xml or				
			are allowed.	.cspp as suffix are allowed. To				



rectly above the but- tons for open and cancel						exact, ml;*.cs _l	shows:	Files
Tester:	Antonia	Wermerskirch						
Date: 04.05.20		20						
Testcase Result:		_	•	_	•			PASS

7.3. Results of <TC-003-003> (GUI Input file selection via file explorer)

Testcase ID: TC-003-003							
Testca	se Name:	GUI Input file selection via drag and drop					
ReqII	D:	LF70					
Test So	etup:	The DD2 installat	2AML software should be downloaded and ready to run the setup for tion.				
			Test Steps				
Step	Action		Expected result	Actual Result			
1	Install the DD2AML Software and open the GUI.		The software is installed and the GUI window opens.	With installed DD2AML Software the GUI window opens.			
2			If the selected file has a valid file suffix, its absolute file path will appear in the input field. If it has an invalid suffix, it is not possible to drop the file into the input field.	If a suffix is allowed, the file can be placed in the input field, then the absolute file path of the file is in the input field. For each invalid suffix, the mouse pointer changes to a no-drop symbol, when the file is dragged into the input field and it is not possible to drop the file.			
			Wermerskirch				
		04.05.20	020				
Testca	se Result:			PASS			

7.4. Results of <TC-003-004> (GUI Output file path generation)

Testcase ID:		TC-003-004		
Testcase Name:		GUI Output file path generation		
ReqID:		LF70		
Test Setup:		The DD2AML software should be downloaded and ready to run the setup for installation. Example files from GSD, IODD and CSP+ must be available.		
Test Steps				
Step	Action		Expected result	Actual Result
1	Install the DD2AML Software and open the GUI.		The software is installed and the GUI window opens.	With installed DD2AML Software the GUI window opens.
2	Select a valid file of IODD, CSP+ or GSD format in the Input text box.		As soon as the file including file path is in the input field, an output file is suggested for the same directory. The output file has the suffix .amlx and does not have the file format of the input file in its name.	For an IODD file, "-IODD1.1" is removed from the file name. For a CSP+ file, only the extension .cspp is replaced by .amlx. With the GSD file "GSD-" is removed from the name. The output file with the file path of the input file is displayed in the output text field.
Tester:		Antonia Wermerskirch		
Date:		04.05.2020		
Testcase Result:		0 1100120		PASS

8. References/Standards

- [1] SRS TINF18C DD2AML
- [2] STP TINF18C DD2AML