




Prüfbericht-Nr.: <i>Test Report No.:</i>	50035524 001	Auftrags-Nr.: <i>Order No.:</i>	133043686	Seite 1 von 9 <i>Page 1 of 9</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	12.Nov.2015	
Auftraggeber: <i>Client:</i>	Tide 9F Kapeul Great Valley A-dong, Digitalre 9-ghil 32, Geumcheon-gu, Seoul, Korea			
Prüfgegenstand: <i>Test item:</i>	DCU			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	Q-M7000R			
Auftrags-Inhalt: <i>Order content:</i>	OpenADR Certification Testing			
Prüfgrundlage: <i>Test specification:</i>	OpenADR 2.0b Certification Test Specification v1.0.6			
Wareneingangsdatum: <i>Date of receipt:</i>	12.Nov.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000280666			
Prüfzeitraum: <i>Testing period:</i>	12.Nov.2015 ~ 12.Nov.2015			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Korea Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Korea Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
 13.Nov.2015 Young-Ju Yoon/Proj.Engineer		 16.Nov.2015 Jong-Shik Her/Proj.Manager		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet <i>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor</i> <i>P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</i>				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht a uszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not per mitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

v04

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1. General Product Information

1.1 General SUT Information

Order number: 133043686
Hardware version: V0.4
Firmware version: V0.3

1.2 General EUT Description

Equipment under test: see page 1

1.3 Type of Product

Product type: VEN
OpenADR profile: 2.0b
Mode: Pull
Transport: Simple HTTP
Security: Standard

2. Testing Laboratory

Company name: TÜV Rheinland Korea Ltd.

Address: E & C Venture Dream Tower 6, 197-28, Guro-dong, Guro-gu
Seoul, 152-719, Korea

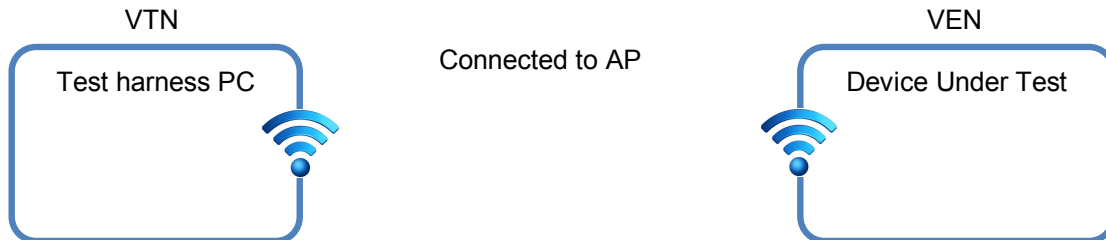
2.1 Test Equipment

Instrument	Manufacturer	Model Number	Version/Errata
Test tool	QualityLogic	OpenADR2.0bCertTest	1.0.6

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2.2 Test Setup



3. Information about Test Results

3.1 General

Documentation of tested devices and results:

The complete set of measurement results is stored at the TÜV Rheinland Korea Ltd. test laboratory and is available on demand.

Interpretation of test results:

The results of the inspection are described on the following pages. "Pass" in the summary list of this test report means the performed tests according to the test specification were verified and that the tested device is conformant to the specifications.

4. Test Results

4.1 VEN Pull Tests

4.1.1 EiRegisterParty Service

No.	Test Case	Date	Result	Log
1	N1_0010_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_114221_849.txt
2	N1_0015_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_114432_028.txt
3	N1_0020_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_112252_139.txt
4	N1_0025_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_114758_858.txt
5	N1_0030_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_114613_127.txt
6	N1_0040_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_115007_474.txt
7	N1_0050_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_112436_944.txt
8	N1_0060_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_113033_165.txt
9	N1_0065_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_113157_266.txt
10	N1_0070_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_114042_772.txt
11	N1_0080_TH_VTN_1	Nov / 12 / 2015	NA	View Log TraceLog_121115_113753_354.txt

4.1.2 EiOpt Service

No.	Test Case	Date	Result	Log
1	P1_2010_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_115551_143.txt
2	P1_2015_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_115724_272.txt
3	P1_2020_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_115841_770.txt
4	P1_2030_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_120208_776.txt
5	P1_2040_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_120337_647.txt
6	P1_2050_TH_VTN_1	Nov / 12 / 2015	NA	View Log TraceLog_121115_120529_431.txt

4.1.3 EiReport Service

No.	Test Case	Date	Result	Log
1	R1_3010_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_011622_731.txt
2	R1_3020_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_011755_615.txt
3	R1_3025_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_012133_634.txt
4	R1_3027_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_012554_079.txt
5	R1_3030_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_013401_594.txt
6	R1_3040_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_013933_390.txt
7	R1_3045_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_020621_915.txt
8	R1_3050_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_020900_276.txt
9	R1_3060_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_021123_877.txt
10	R1_3130_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_021432_281.txt
11	R1_3140_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_021838_336.txt
12	R1_3150_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_022044_940.txt
13	R1_3160_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_022258_890.txt
14	R1_3170_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_022635_549.txt
15	R1_3180_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_022942_834.txt
16	R1_3190_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_023112_043.txt

4.1.4 EiEvent Service

No.	Test Case	Date	Result	Log
1	E1_1010_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_025930_347.txt
2	E1_1020_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_030159_087.txt
3	E1_1025_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_030325_408.txt
4	E1_1027_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_030448_906.txt
5	E1_1030_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_030641_129.txt
6	E1_1040_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_030757_468.txt
7	E1_1050_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_031039_705.txt
8	E1_1055_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_031222_693.txt
9	E1_1060_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_031714_824.txt
10	E1_1065_TH_VTN_1	Nov / 12 / 2015	NA	View Log TraceLog_121115_031941_548.txt
11	E1_1070_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_032043_484.txt
12	E1_1080_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_032312_065.txt

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4.1.5 EiEvent Ported A Profile

No.	Test Case	Date	Result	Log
1	A_E1_0020_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_032839_801.txt
2	A_E1_0040_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033125_270.txt
3	A_E1_0060_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033240_989.txt
4	A_E1_0070_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033444_753.txt
5	A_E1_0082_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033611_904.txt
6	A_E1_0086_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033729_548.txt
7	A_E1_0090_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_033904_858.txt
8	A_E1_0092_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_034033_470.txt
9	A_E1_0094_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_034659_834.txt
10	A_E1_0096_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_034817_486.txt
11	A_E1_0098_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035039_823.txt
12	A_E1_0100_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035218_970.txt
13	A_E1_0102_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035447_728.txt
14	A_E1_0104_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035636_967.txt
15	A_E1_0110_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035817_631.txt
16	A_E1_0130_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_035926_421.txt
17	A_E1_0180_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_040130_885.txt
18	A_E1_0190_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_040454_122.txt
19	A_E1_0200_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_040632_340.txt
20	A_E1_0210_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_040740_500.txt
21	A_E1_0220_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_041353_887.txt
22	A_E1_0230_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_042339_952.txt
23	A_E1_0240_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_042555_249.txt
24	A_E1_0250_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_042852_723.txt
25	A_E1_0260_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_043245_283.txt
26	A_E1_0262_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_043829_334.txt
27	A_E1_0267_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_044845_883.txt
28	A_E1_0268_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_045853_722.txt
29	A_E1_0270_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_051150_483.txt
30	A_E1_0280_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_051539_435.txt
31	A_E1_0285_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_051812_941.txt
32	A_E1_0300_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_051946_788.txt

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33	A_E1_0310_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052100_900.txt
34	A_E1_0325_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052247_829.txt
35	A_E1_0340_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052506_502.txt
36	A_E1_0345_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052611_399.txt
37	A_E1_0360_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052731_671.txt
38	A_E1_0370_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_052857_540.txt
39	A_E1_0390_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_053019_646.txt
40	A_E1_0392_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_053123_135.txt

4.1.6 General Tests

No.	Test Case	Date	Result	Log
1	G1_4005_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_010722_376.txt
2	G1_4015_TH_VTN_1	Nov / 12 / 2015	PASS	View Log TraceLog_121115_011013_040.txt

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Appendix A: Remarks and References

Log files for the executed test cases are provided in the electronic format.

List of all executed tests with links to the log files is located in the "logfile.xml" which could be opened in any web-browser.

Appendix B: Photos

Photo 1: Test harness PC



Photo 2: Test Device

