

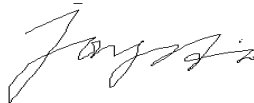


Prüfbericht-Nr.: <i>Test Report No.:</i>	50035161 001	Auftrags-Nr.: <i>Order No.:</i>	133043527	Seite 1 von 9 <i>Page 1 of 9</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	02.Oct.2015		
Auftraggeber: <i>Client:</i>	MANAGEON #202, PILOT PLANT Building, Incheon Technopark, 12, Gaetbeol-ro, Yeonsu-gu, Incheon, Korea, 406-840				
Prüfgegenstand: <i>Test item:</i>	ONBOX				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	A-V10				
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>	03.Nov.2015				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000276278				
Prüfzeitraum: <i>Testing period:</i>	03.Nov.2015 ~ 04.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:			
 03.Nov.2015 Young-Ju Yoon/Proj.Engineer		 04.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> P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
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: 133043527
Hardware version: V1
Firmware version: V1.0

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

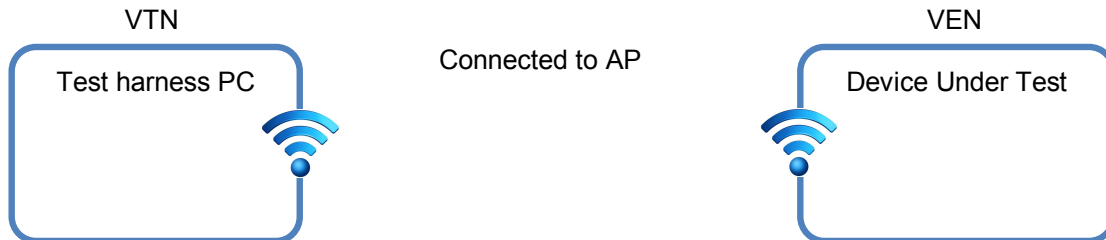
2.1 Test Equipment

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 / 03 / 2015	PASS	View Log TraceLog_031115_110701_323.txt
2	N1_0015_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_110254_810.txt
3	N1_0020_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_105653_140.txt
4	N1_0025_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_105854_876.txt
5	N1_0030_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_110527_832.txt
6	N1_0040_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_112348_855.txt
7	N1_0050_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_110059_660.txt
8	N1_0060_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_110848_918.txt
9	N1_0065_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_111957_801.txt
10	N1_0070_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_112122_268.txt
11	N1_0080_TH_VTN_1	Nov / 03 / 2015	NA	View Log TraceLog_031115_112248_313.txt

4.1.2 EiOpt Service

No.	Test Case	Date	Result	Log
1	P1_2010_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_113017_982.txt
2	P1_2015_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_113422_910.txt
3	P1_2020_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_113829_112.txt
4	P1_2030_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_114240_056.txt
5	P1_2040_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_114417_532.txt
6	P1_2050_TH_VTN_1	Nov / 03 / 2015	NA	View Log TraceLog_031115_114639_389.txt

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4.1.3 EiReport Service

No.	Test Case	Date	Result	Log
1	R1_3010_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_125351_664.txt
2	R1_3020_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_125517_465.txt
3	R1_3025_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_125836_107.txt
4	R1_3027_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_011032_064.txt
5	R1_3030_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_011557_100.txt
6	R1_3040_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_011932_567.txt
7	R1_3045_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_012309_595.txt
8	R1_3050_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_012753_426.txt
9	R1_3060_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_012920_459.txt
10	R1_3130_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_013105_354.txt
11	R1_3140_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_013427_582.txt
12	R1_3150_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_013600_716.txt
13	R1_3160_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_013809_671.txt
14	R1_3170_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_014152_337.txt
15	R1_3180_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_014410_334.txt
16	R1_3190_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_014932_854.txt

4.1.4 EiEvent Service

No.	Test Case	Date	Result	Log
1	E1_1010_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_025520_400.txt
2	E1_1020_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_025838_517.txt
3	E1_1025_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_025959_640.txt
4	E1_1027_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_030143_216.txt
5	E1_1030_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_030252_647.txt
6	E1_1040_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_030514_062.txt
7	E1_1050_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_030719_272.txt
8	E1_1055_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_030835_090.txt
9	E1_1060_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_032216_377.txt
10	E1_1065_TH_VTN_1	Nov / 03 / 2015	NA	View Log TraceLog_031115_032411_754.txt
11	E1_1070_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_032438_073.txt
12	E1_1080_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_032553_730.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 / 03 / 2015	PASS	View Log TraceLog_031115_033423_288.txt
2	A_E1_0040_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_033808_797.txt
3	A_E1_0060_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_034354_056.txt
4	A_E1_0070_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_034556_520.txt
5	A_E1_0082_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_034806_288.txt
6	A_E1_0086_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_035003_637.txt
7	A_E1_0090_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_035203_665.txt
8	A_E1_0092_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_040327_544.txt
9	A_E1_0094_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_040916_003.txt
10	A_E1_0096_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_041038_637.txt
11	A_E1_0098_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_041351_411.txt
12	A_E1_0100_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_042322_546.txt
13	A_E1_0102_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_042455_300.txt
14	A_E1_0104_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_042807_958.txt
15	A_E1_0110_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_043146_598.txt
16	A_E1_0130_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_043322_992.txt
17	A_E1_0180_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_043456_588.txt
18	A_E1_0190_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_044056_506.txt
19	A_E1_0200_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_044219_275.txt
20	A_E1_0210_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_044427_852.txt
21	A_E1_0220_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_044829_974.txt
22	A_E1_0230_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_050028_581.txt
23	A_E1_0240_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_050405_433.txt
24	A_E1_0250_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_050652_705.txt
25	A_E1_0260_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_051040_211.txt
26	A_E1_0262_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_051933_403.txt
27	A_E1_0267_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_052948_151.txt
28	A_E1_0268_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_054512_655.txt
29	A_E1_0270_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_055543_256.txt
30	A_E1_0280_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_055944_701.txt
31	A_E1_0285_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060217_634.txt
32	A_E1_0300_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060341_783.txt

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33	A_E1_0310_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060452_896.txt
34	A_E1_0325_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060707_899.txt
35	A_E1_0340_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060827_059.txt
36	A_E1_0345_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_060937_621.txt
37	A_E1_0360_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_061049_256.txt
38	A_E1_0370_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_061227_481.txt
39	A_E1_0390_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_061449_329.txt
40	A_E1_0392_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_061604_081.txt

4.1.6 General Tests

No.	Test Case	Date	Result	Log
1	G1_4005_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_020658_217.txt
2	G1_4015_TH_VTN_1	Nov / 03 / 2015	PASS	View Log TraceLog_031115_021002_524.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 PC

