




Prüfbericht-Nr.: <i>Test Report No.:</i>	50217103 001	Auftrags-Nr.: <i>Order No.:</i>	156100013	Seite 1 von 9 <i>Page 1 of 9</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	690573	Auftragsdatum: <i>Order date:</i>	14.01.2019	
Auftraggeber: <i>Client:</i>	NAONWORKS Co., LTD Rm711, 271, Digital-ro, Guro-gu, Seoul, Republic of Korea			
Prüfgegenstand: <i>Test item:</i>	2.0b / VEN / PULL			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	NAONWORKS VEN			
Auftrags-Inhalt: <i>Order content:</i>	OpenADR Certification Testing			
Prüfgrundlage: <i>Test specification:</i>	OpenADR 2.0b Certification Test Specification v1.1.2			
Wareneingangsdatum: <i>Date of receipt:</i>	03.Jan.2019			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000866639			
Prüfzeitraum: <i>Testing period:</i>	03.Jan.2019 ~08.Jan.2019			
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:			
				
10.Jan.2019	Young-Ju Yoon/Proj.Engineer	11.Jan.2019	GwangHyeon Ryu /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 auszugsweise 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 permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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1. General Product Information

1.1 General SUT Information

Order number: 156100013
Hardware version: N/A
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: 2F, Young City, N-Tower, 25, Mullaero 28-gil, Yeongdeungpo-gu
Seoul, #07298, Rep. of Korea

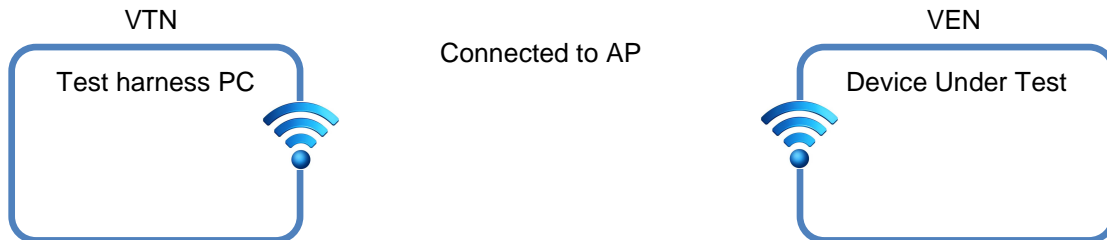
2.1 Test Equipment

Instrument	Manufacturer	Model Number	Version/Errata
Test tool	QualityLogic	OpenADR2.0bCertTest	1.1.2

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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 Cass	Date	Result	Log
1	N1_0010_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_151621_525.txt
2	N1_0015_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_163727_794.txt
3	N1_0020_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_163017_795.txt
4	N1_0025_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_151843_366.txt
5	N1_0030_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_164344_352.txt
6	N1_0040_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_165311_748.txt
7	N1_0050_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_165058_307.txt
8	N1_0060_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_164209_131.txt
9	N1_0065_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_165544_429.txt
10	N1_0070_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_165829_845.txt
11	N1_0080_TH_VTN_1	Jan / 03 / 2019	NA	View Log TraceLog_010319_165427_835.txt

4.1.2 EiOpt Service

No.	Test Cass	Date	Result	Log
1	P1_2010_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_170927_648.txt
2	P1_2015_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_171154_447.txt
3	P1_2020_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_171341_153.txt
4	P1_2030_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_171656_808.txt
5	P1_2040_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_171815_023.txt
6	P1_2050_TH_VTN_1	Jan / 03 / 2019	NA	View Log TraceLog_010319_171933_719.txt

4.1.3 EiReport Service

No.	Test Cass	Date	Result	Log
1	R1_3010_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010319_174612_335.txt
2	R1_3020_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010319_175624_657.txt
3	R1_3025_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_103014_513.txt
4	R1_3027_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_103355_495.txt
5	R1_3030_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_104639_946.txt
6	R1_3040_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_111056_912.txt
7	R1_3045_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_111416_879.txt
8	R1_3050_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_131732_454.txt
9	R1_3060_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_132332_608.txt
10	R1_3150_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_111656_933.txt
11	R1_3160_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_134733_159.txt
12	R1_3170_TH_VTN_1	Jan / 08 / 2019	PASS	View Log TraceLog_010819_094818_307.txt
13	R1_3180_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_113843_584.txt
14	R1_3190_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_114044_808.txt

4.1.4 EiEvent Service

No.	Test Cass	Date	Result	Log
1	E1_1010_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172024_673.txt
2	E1_1020_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172214_378.txt
3	E1_1025_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172325_395.txt
4	E1_1027_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172449_130.txt
5	E1_1030_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172548_362.txt
6	E1_1040_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_172851_609.txt
7	E1_1050_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_173250_987.txt
8	E1_1055_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_173436_018.txt
9	E1_1060_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_173625_938.txt
10	E1_1065_TH_VTN_1	Jan / 03 / 2019	NA	View Log TraceLog_010319_173801_623.txt
11	E1_1070_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_173822_208.txt
12	E1_1080_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_173918_177.txt
13	E1_1090_TH_VTN_1	Jan / 03 / 2019	PASS	View Log TraceLog_010319_174008_139.txt

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4.1.5 EiEvent Ported A Profile

No.	Test Cass	Date	Result	Log
1	A_E1_0020_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_170520_956.txt
2	A_E1_0040_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010719_100149_631.txt
3	A_E1_0060_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_170835_687.txt
4	A_E1_0070_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_170951_803.txt
5	A_E1_0082_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_171155_260.txt
6	A_E1_0086_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172253_451.txt
7	A_E1_0090_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172408_439.txt
8	A_E1_0092_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172508_743.txt
9	A_E1_0094_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172623_217.txt
10	A_E1_0096_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172713_585.txt
11	A_E1_0098_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172813_400.txt
12	A_E1_0100_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_172910_679.txt
13	A_E1_0102_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173017_123.txt
14	A_E1_0104_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173121_855.txt
15	A_E1_0110_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173232_164.txt
16	A_E1_0130_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173317_841.txt
17	A_E1_0180_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173425_495.txt
18	A_E1_0190_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173525_435.txt
19	A_E1_0200_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_101412_440.txt
20	A_E1_0210_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_101606_029.txt
21	A_E1_0220_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_102019_378.txt
22	A_E1_0230_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_105202_418.txt
23	A_E1_0240_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_105654_930.txt
24	A_E1_0250_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_105924_551.txt
25	A_E1_0260_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_110235_722.txt
26	A_E1_0262_TH_VTN_1	Jan / 08 / 2019	PASS	View Log TraceLog_010819_095052_510.txt
27	A_E1_0267_TH_VTN_1	Jan / 08 / 2019	PASS	View Log TraceLog_010819_100040_791.txt
28	A_E1_0268_TH_VTN_1	Jan / 08 / 2019	PASS	View Log TraceLog_010819_101500_118.txt
29	A_E1_0270_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_120321_953.txt
30	A_E1_0280_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_120842_140.txt
31	A_E1_0285_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_173734_290.txt
32	A_E1_0300_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_175025_071.txt
33	A_E1_0310_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_121030_281.txt
34	A_E1_0340_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_121236_701.txt
35	A_E1_0345_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_121342_310.txt
36	A_E1_0360_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_121500_451.txt
37	A_E1_0390_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_121624_503.txt
38	A_E1_0392_TH_VTN_1	Jan / 07 / 2019	PASS	View Log TraceLog_010719_122714_142.txt

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4.1.6 General Tests

No.	Test Cass	Date	Result	Log
1	G1_4005_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_101901_687.txt
2	G1_4007_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_101126_880.txt
3	G1_4011_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_102201_812.txt
4	G1_4012_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_102332_620.txt
5	G1_4015_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_102452_668.txt
6	G1_4030_TH_VTN_1	Jan / 04 / 2019	PASS	View Log TraceLog_010419_102631_353.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

