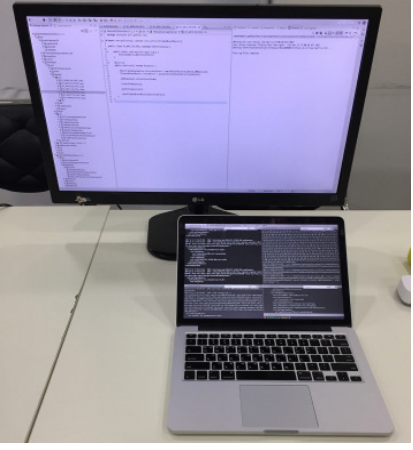




Prüfbericht-Nr.: <i>Test Report No.:</i>	50115635 001	Auftrags-Nr.: <i>Order No.:</i>	133053758	Seite 1 von 9 <i>Page 1 of 9</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	672834	Auftragsdatum: <i>Order date:</i>	14.Dec.2017	
Auftraggeber: <i>Client:</i>	Encored Technologies, Inc. 8F KTS Bldg., 215 Bongeunsa-ro, Gangnam-gu, Seoul, Republic of Korea			
Prüfgegenstand: <i>Test item:</i>	2.0b / VEN / PULL			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	EnerTalk VEN			
Auftrags-Inhalt: <i>Order content:</i>	OpenADR Certification Testing			
Prüfgrundlage: <i>Test specification:</i>	OpenADR 2.0b Certification Test Specification v1.1.0			
Wareneingangsdatum: <i>Date of receipt:</i>	12.Dec.2017			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000667263			
Prüfzeitraum: <i>Testing period:</i>	12.Dec.2017 ~12.Dec.2017			
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.Dec.2017 Young-Ju Yoon/Proj.Engineer		14.Dec.2017 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 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: 133053758
Hardware version: N/A
Firmware version: v1.0.0

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

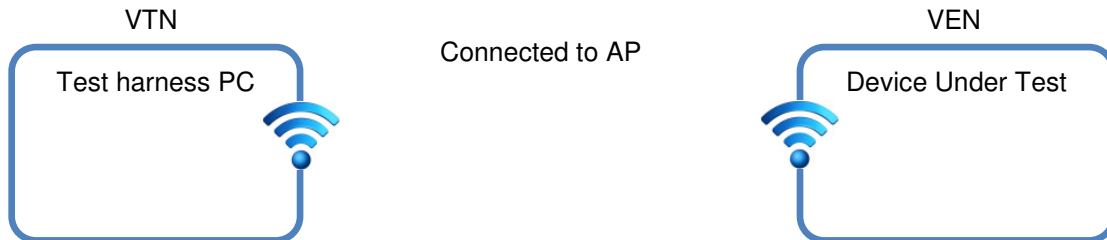
2.1 Test Equipment

Instrument	Manufacturer	Model Number	Version/Errata
Test tool	QualityLogic	OpenADR2.0bCertTest	1.1.0

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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	Dec / 12 / 2017	PASS	View Log TraceLog_121217_101713_905.txt
2	N1_0015_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_102242_384.txt
3	N1_0020_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_100614_913.txt
4	N1_0025_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_101827_998.txt
5	N1_0030_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_103032_528.txt
6	N1_0040_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_104356_095.txt
7	N1_0050_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_103649_803.txt
8	N1_0060_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_100843_444.txt
9	N1_0065_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_101301_792.txt
10	N1_0070_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_103957_555.txt
11	N1_0080_TH_VTN_1	Dec / 12 / 2017	NA	View Log TraceLog_121217_103225_910.txt

4.1.2 EiOpt Service

No.	Test Cass	Date	Result	Log
1	P1_2010_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_105314_369.txt
2	P1_2015_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_105448_487.txt
3	P1_2020_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_105603_740.txt
4	P1_2030_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_105745_407.txt
5	P1_2040_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_112538_459.txt
6	P1_2050_TH_VTN_1	Dec / 12 / 2017	NA	View Log TraceLog_121217_112721_029.txt

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4.1.3 EiReport Service

No.	Test Cass	Date	Result	Log
1	R1_3010_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_113719_002.txt
2	R1_3020_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_114717_877.txt
3	R1_3025_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_120644_960.txt
4	R1_3027_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_132417_257.txt
5	R1_3030_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_132915_972.txt
6	R1_3040_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_133826_528.txt
7	R1_3045_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_134255_490.txt
8	R1_3050_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_134501_216.txt
9	R1_3060_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_134649_511.txt
10	R1_3070_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_134836_185.txt
11	R1_3080_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_134939_720.txt
12	R1_3090_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_135109_814.txt
13	R1_3100_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_135413_369.txt
14	R1_3120_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_135554_378.txt
15	R1_3130_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_135739_136.txt
16	R1_3140_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_135900_224.txt
17	R1_3150_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_140010_461.txt
18	R1_3160_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_140120_858.txt
19	R1_3170_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_140647_815.txt
20	R1_3180_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_141419_892.txt
21	R1_3190_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_141543_240.txt

4.1.4 EiEvent Service

No.	Test Cass	Date	Result	Log
1	E1_1010_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_142539_117.txt
2	E1_1020_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_142630_726.txt
3	E1_1025_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_142728_139.txt
4	E1_1027_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_142828_769.txt
5	E1_1030_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_142931_432.txt
6	E1_1040_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143103_681.txt
7	E1_1050_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143254_100.txt
8	E1_1055_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143345_143.txt

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9	E1_1060_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143501_697.txt
10	E1_1065_TH_VTN_1	Dec / 12 / 2017	NA	View Log TraceLog_121217_143609_943.txt
11	E1_1070_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143635_392.txt
12	E1_1080_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143720_085.txt
13	E1_1090_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_143830_816.txt

4.1.5 EiEvent Ported A Profile

No.	Test Cass	Date	Result	Log
1	A_E1_0020_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144145_689.txt
2	A_E1_0040_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144411_153.txt
3	A_E1_0060_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144530_780.txt
4	A_E1_0070_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144623_031.txt
5	A_E1_0082_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144721_744.txt
6	A_E1_0086_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_144814_142.txt
7	A_E1_0090_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145127_478.txt
8	A_E1_0092_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145308_180.txt
9	A_E1_0094_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145443_808.txt
10	A_E1_0096_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145544_575.txt
11	A_E1_0098_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145657_964.txt
12	A_E1_0100_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145822_258.txt
13	A_E1_0102_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_145931_576.txt
14	A_E1_0104_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_150105_181.txt
15	A_E1_0110_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_150203_386.txt
16	A_E1_0130_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_154557_688.txt
17	A_E1_0180_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_154657_246.txt
18	A_E1_0190_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_154813_103.txt
19	A_E1_0200_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_155400_566.txt
20	A_E1_0210_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_161851_131.txt
21	A_E1_0220_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_162234_248.txt
22	A_E1_0230_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_162444_701.txt
23	A_E1_0240_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_162707_595.txt
24	A_E1_0250_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_162923_526.txt
25	A_E1_0260_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_163257_615.txt

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26	A_E1_0262_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_163737_698.txt
27	A_E1_0267_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_164852_297.txt
28	A_E1_0268_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_165808_813.txt
29	A_E1_0270_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_170717_318.txt
30	A_E1_0280_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_171154_690.txt
31	A_E1_0285_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_155638_778.txt
32	A_E1_0300_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_155744_169.txt
33	A_E1_0310_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_155845_201.txt
34	A_E1_0340_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_160037_667.txt
35	A_E1_0345_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_160139_009.txt
36	A_E1_0360_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_160246_309.txt
37	A_E1_0370_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_171358_763.txt
38	A_E1_0390_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_171558_388.txt
39	A_E1_0392_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_160931_606.txt

4.1.6 General Tests

No.	Test Cass	Date	Result	Log
1	G1_4005_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_172749_352.txt
2	G1_4007_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_172930_610.txt
3	G1_4011_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_173200_174.txt
4	G1_4012_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_173334_252.txt
5	G1_4015_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_173545_546.txt
6	G1_4030_TH_VTN_1	Dec / 12 / 2017	PASS	View Log TraceLog_121217_174000_467.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

