




<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>50045972 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>133046207</b>	Seite 1 von 9 <i>Page 1 of 9</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	03.Jun.2016	
<b>Auftraggeber:</b> <i>Client:</i>	CUROO GSBC Boyook-center-407, 107, Gwanggyo-ro, Yeongtong-gu, Suwon-si, 16229, Korea			
<b>Prüfgegenstand:</b> <i>Test item:</i>	2.0b / VEN / PULL			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	CUROO_LAOS_#1			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	OpenADR Certification Testing			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	OpenADR 2.0b Certification Test Specification v1.0.6			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	02.Jun.2016			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A000371829			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	02.Jun.2016 ~ 02.Jun.2016			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland Korea Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland Korea Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
				
03.Jun.2016    Young-Ju Yoon/Proj.Engineer		03.Jun.2016    Jong-Shik Her/Proj.Manager		
<b>Datum</b>	<b>Name / Stellung</b>	<b>Unterschrift</b>		
<i>Date</i>	<i>Name / Position</i>	<i>Signature</i>		
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <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				
<b>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.</b> <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

## - Contents

<b>1. GENERAL PRODUCT INFORMATION.....</b>	<b>3</b>
<b>1.1 GENERAL SUT INFORMATION .....</b>	<b>3</b>
<b>1.2 GENERAL EUT DESCRIPTION .....</b>	<b>3</b>
<b>1.3 TYPE OF PRODUCT .....</b>	<b>3</b>
<b>2. TESTING LABORATORY .....</b>	<b>3</b>
<b>2.1 TEST EQUIPMENT .....</b>	<b>3</b>
<b>2.2 TEST SETUP .....</b>	<b>4</b>
<b>3. INFORMATION ABOUT TEST RESULTS .....</b>	<b>4</b>
<b>3.1 GENERAL .....</b>	<b>4</b>
<b>4. TEST RESULTS.....</b>	<b>5</b>
<b>4.1 VEN PULL TESTS.....</b>	<b>5</b>
4.1.1 <i>EiRegisterParty Service.....</i>	<i>5</i>
4.1.2 <i>EiOpt Service.....</i>	<i>5</i>
4.1.3 <i>EiReport Service .....</i>	<i>6</i>
4.1.4 <i>EiEvent Service.....</i>	<i>6</i>
4.1.5 <i>EiEvent Ported A Profile .....</i>	<i>7</i>
4.1.6 <i>General Tests .....</i>	<i>8</i>
<b>APPENDIX A: REMARKS AND REFERENCES .....</b>	<b>9</b>
<b>APPENDIX B: PHOTOS .....</b>	<b>9</b>

**Prüfbericht - Nr.:** 50045972 001  
*Test Report No.*

Seite 3 von 9  
*Page of*

## 1. General Product Information

### 1.1 General SUT Information

Order number: 133046207  
Hardware version: -  
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

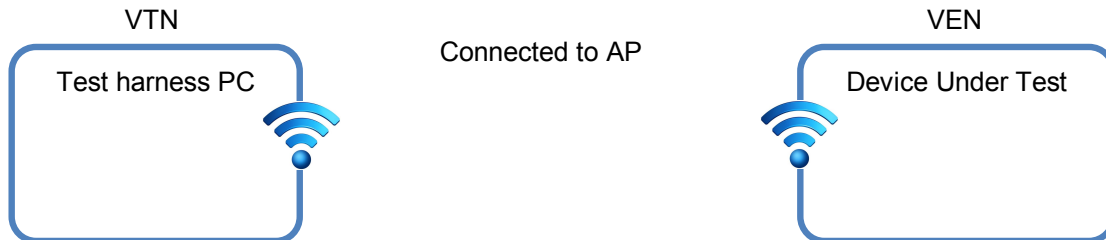
### 2.1 Test Equipment

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

**Prüfbericht - Nr.:** 50045972 001  
*Test Report No.*

Seite 4 von 9  
*Page of*

## 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	Jun / 02 / 2016	PASS	View Log TraceLog_020616_113343_742.txt
2	N1_0015_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_113711_804.txt
3	N1_0020_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_125622_061.txt
4	N1_0025_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_010826_504.txt
5	N1_0030_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_010601_331.txt
6	N1_0040_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_011453_395.txt
7	N1_0050_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_125752_136.txt
8	N1_0060_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_125949_431.txt
9	N1_0065_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_011023_092.txt
10	N1_0070_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_011141_970.txt
11	N1_0080_TH_VTN_1	Jun / 02 / 2016	NA	View Log TraceLog_020616_011340_072.txt

#### 4.1.2 EiOpt Service

No.	Test Case	Date	Result	Log
1	P1_2010_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_012155_135.txt
2	P1_2015_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_012256_467.txt
3	P1_2020_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_012504_129.txt
4	P1_2030_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_012628_201.txt
5	P1_2040_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_012753_629.txt
6	P1_2050_TH_VTN_1	Jun / 02 / 2016	NA	View Log TraceLog_020616_012948_868.txt

**Prüfbericht - Nr.: 50045972 001**  
Test Report No.

Seite 6 von 9  
Page of

#### 4.1.3 EiReport Service

No.	Test Case	Date	Result	Log
1	R1_3010_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_041706_601.txt
2	R1_3020_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_042856_449.txt
3	R1_3025_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_043214_617.txt
4	R1_3027_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_043404_980.txt
5	R1_3030_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_044821_308.txt
6	R1_3040_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_044641_175.txt
7	R1_3045_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_045137_288.txt
8	R1_3130_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_045603_397.txt
9	R1_3140_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_051542_139.txt
10	R1_3150_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_045808_056.txt
11	R1_3160_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_045932_699.txt
12	R1_3170_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_050649_245.txt
13	R1_3180_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_050913_769.txt
14	R1_3190_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_051052_920.txt

#### 4.1.4 EiEvent Service

No.	Test Case	Date	Result	Log
1	E1_1010_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_013422_297.txt
2	E1_1020_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_013558_024.txt
3	E1_1025_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_013754_599.txt
4	E1_1027_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_013912_046.txt
5	E1_1030_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_014053_208.txt
6	E1_1040_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_014329_684.txt
7	E1_1050_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_014545_578.txt
8	E1_1055_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_014707_546.txt
9	E1_1060_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_014908_666.txt
10	E1_1065_TH_VTN_1	Jun / 02 / 2016	NA	View Log TraceLog_020616_015118_811.txt
11	E1_1070_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_015147_832.txt
12	E1_1080_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_015323_389.txt

**Prüfbericht - Nr.: 50045972 001**  
Test Report No.

Seite 7 von 9  
Page of

#### 4.1.5 EiEvent Ported A Profile

No.	Test Case	Date	Result	Log
1	A_E1_0020_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_015806_685.txt
2	A_E1_0040_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020047_381.txt
3	A_E1_0060_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020344_020.txt
4	A_E1_0070_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020451_575.txt
5	A_E1_0082_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020629_076.txt
6	A_E1_0086_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020735_191.txt
7	A_E1_0090_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_020911_558.txt
8	A_E1_0092_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_021259_978.txt
9	A_E1_0094_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_021702_502.txt
10	A_E1_0096_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_021839_697.txt
11	A_E1_0098_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022022_739.txt
12	A_E1_0100_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022205_481.txt
13	A_E1_0102_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022339_612.txt
14	A_E1_0104_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022514_824.txt
15	A_E1_0110_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022640_952.txt
16	A_E1_0130_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022752_366.txt
17	A_E1_0180_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_022908_643.txt
18	A_E1_0190_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_023122_299.txt
19	A_E1_0200_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_023249_198.txt
20	A_E1_0210_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_023515_288.txt
21	A_E1_0220_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_024202_231.txt
22	A_E1_0230_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_025041_521.txt
23	A_E1_0240_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_025339_874.txt
24	A_E1_0250_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_025630_972.txt
25	A_E1_0260_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_030003_089.txt
26	A_E1_0262_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_030906_357.txt
27	A_E1_0267_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_031919_903.txt
28	A_E1_0268_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_033120_415.txt
29	A_E1_0270_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_034406_908.txt
30	A_E1_0280_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_034752_965.txt
31	A_E1_0285_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_035733_174.txt
32	A_E1_0300_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_035849_292.txt
33	A_E1_0310_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_040003_822.txt
34	A_E1_0325_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_040231_535.txt
35	A_E1_0340_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_040342_961.txt
36	A_E1_0345_TH_VTN_1	Jun / 02 / 2016	PASS	View Log TraceLog_020616_040447_312.txt

**Prüfbericht - Nr.:** 50045972 001

*Test Report No.*

Seite 8 von 9  
Page of

37	A_E1_0360_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_040625_434.txt</a>
38	A_E1_0370_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_035032_503.txt</a>
39	A_E1_0390_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_040737_911.txt</a>
40	A_E1_0392_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_040903_331.txt</a>

#### 4.1.6 General Tests

No.	Test Case	Date	Result	Log
1	G1_4005_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_053603_656.txt</a>
2	G1_4015_TH_VTN_1	Jun / 02 / 2016	PASS	<a href="#">View Log TraceLog_020616_053722_485.txt</a>



**Prüfbericht - Nr.:** 50045972 001  
*Test Report No.*

Seite 9 von 9  
*Page of*

## 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**

