


Prüfbericht-Nr.: Test Report No.:	50307339 001	Auftrags-Nr.: Order No.:	150117236		Seite 1 von of 12 Page 1 von of 12
Kunden Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	2019-10-24		
Auftraggeber: Client:	NEC Corporation 1753 Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa 211-8666, Japan				
Gegenstand der Prüfung: Test item:	NEC Virtual End Node (VEN)				
Bezeichnung / Typ-Nr.: Identification / Type No.:	NEC Virtual End Node (VEN)				
Auftrags-Inhalt: Order content:	OpenADR Certification Test				
Prüfgrundlage: Test specification:	OpenADR 2.0b Certification Test Specification Version 1.1.4				
Wareneingangsdatum: Date of receipt:	2019-11-14				
Prüfmuster-Nr.: Test sample No.:	A001025631				
Prüfzeitraum: Testing period:	2019-11-14 - 2019-11-15				
Ort der Prüfung: Place of testing:	TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Japan Ltd.				
Prüfergebnis: Test results:	The test item passed the test specification(s).				
Geprüft von Tested by:	Kontrolliert von Reviewed by:				
2019-11-18	Atsuhiko Endo	2019-11-19	Tam Tran Thanh		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position	Unterschrift Signature
Sonstiges / Other Aspects:					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>*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 Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>					
<p>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. 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</p>					

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1 General Product Information

1.1 Client Information

Company Name: see page 1
Address: see page 1
Contact Person: Yukiko Kojima
Phone: +81-44-455-8615
E-mail: y-kojima@ap.jp.nec.com

1.2 General SUT Information

The system under test is software implementation of OpenADR protocol installed on laptop.

Serial Number: N/A
Hardware Version: N/A
Firmware version: 1.0

1.3 General EUT Description

Equipment under test: see page 1

1.4 Profile

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

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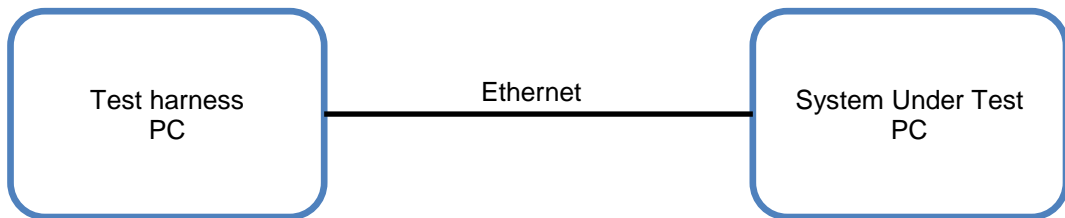
2 Testing Laboratory

Company name: TÜV Rheinland Japan Ltd.
Address: see page 1

2.1 Test Equipment

Equipment ID	Model Product name	Manufacture	Category	Version
1800528	OpenADR Test Harness for 2.0b	QualityLogic	Software	1.1.4

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 Japan 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 test result list of this test report means the performed test according to the test specification was verified and that the tested device is conformant to the specification. "Fail" means that the performed test according to the test specification was verified and the tested device is not conformant to the specification or that test didn't run to completion because the tested device is not conformant to the specification. "N/A" means the test cases are optional and/or not applicable to the tested device.

4 Test Results

4.1 Profile 2.0b

4.1.1 VEN Pull Tests

4.1.1.1 EiRegisterParty Service

No.	Test Case Name	Date	Result	Log
01	N1_0010_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_092158_036.txt
02	N1_0015_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_093440_381.txt
03	N1_0020_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_092339_285.txt
04	N1_0025_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_092953_165.txt
05	N1_0030_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_092725_507.txt
06	N1_0040_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_093647_708.txt
07	N1_0050_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_094040_833.txt
08	N1_0060_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_094326_518.txt
09	N1_0065_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_094657_320.txt
10	N1_0070_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_094910_087.txt
11	N1_0080_TH_VTN_1	N/A	N/A	N/A

4.1.1.2 EiOpt Service

No.	Test Case Name	Date	Result	Log
01	P1_2010_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_095337_243.txt
02	P1_2015_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_095607_644.txt
03	P1_2020_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_100011_148.txt
04	P1_2030_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_100235_607.txt
05	P1_2040_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_100434_496.txt
06	P1_2050_TH_VTN_1	N/A	N/A	N/A

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4.1.1.3 EiReport Service

No.	Test Case Name	Date	Result	Log
01	R1_3010_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_101054_804.txt
02	R1_3020_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_101504_790.txt
03	R1_3025_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_101953_566.txt
04	R1_3027_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_102603_877.txt
05	R1_3030_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_103123_807.txt
06	R1_3040_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_103707_960.txt
07	R1_3045_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_104234_299.txt
08	R1_3050_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_104658_836.txt
09	R1_3060_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_105002_717.txt
10	R1_3070_TH_VTN_1	N/A	N/A	N/A
11	R1_3080_TH_VTN_1	N/A	N/A	N/A
12	R1_3090_TH_VTN_1	N/A	N/A	N/A
13	R1_3100_TH_VTN_1	N/A	N/A	N/A
14	R1_3120_TH_VTN_1	N/A	N/A	N/A
15	R1_3130_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_105421_567.txt
16	R1_3150_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_105808_394.txt
17	R1_3160_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_110249_289.txt
18	R1_3170_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_112239_449.txt
19	R1_3180_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_112923_796.txt
20	R1_3190_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_113653_930.txt

4.1.1.4 EiEvent Service

No.	Test Case Name	Date	Result	Log
01	E1_1010_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_124323_407.txt
02	E1_1020_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_124519_902.txt
03	E1_1025_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_124729_282.txt
04	E1_1027_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_124942_642.txt
05	E1_1030_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_125221_186.txt
06	E1_1040_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_125616_059.txt
07	E1_1050_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_125952_824.txt
08	E1_1055_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_130231_644.txt
09	E1_1060_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_130444_274.txt
10	E1_1065_TH_VTN_1	Nov 14 2019	N/A	N/A
11	E1_1070_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_130932_583.txt
12	E1_1080_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_131207_217.txt
13	E1_1090_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_131426_491.txt

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4.1.1.5 EiEvent Ported A Profile

No.	Test Case Name	Date	Result	Log
01	A_E1_0020_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_132228_488.txt
02	A_E1_0040_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_132743_335.txt
03	A_E1_0060_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_132943_112.txt
04	A_E1_0070_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_133147_104.txt
05	A_E1_0082_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_133410_344.txt
06	A_E1_0086_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_133600_813.txt
07	A_E1_0090_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_133802_100.txt
08	A_E1_0092_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_134024_024.txt
09	A_E1_0094_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_134345_836.txt
10	A_E1_0096_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_134623_429.txt
11	A_E1_0098_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_134818_916.txt
12	A_E1_0100_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_135053_996.txt
13	A_E1_0102_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_135336_484.txt
14	A_E1_0104_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_135623_419.txt
15	A_E1_0110_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_135837_803.txt
16	A_E1_0130_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_140043_413.txt
17	A_E1_0180_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_140308_782.txt
18	A_E1_0190_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_140712_234.txt
19	A_E1_0200_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_141238_153.txt
20	A_E1_0210_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_143921_082.txt
21	A_E1_0220_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_150047_131.txt
22	A_E1_0230_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_150740_733.txt
23	A_E1_0240_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_151629_922.txt
24	A_E1_0250_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_152134_297.txt
25	A_E1_0260_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_154350_610.txt
26	A_E1_0262_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_161123_160.txt
27	A_E1_0267_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_163434_762.txt
28	A_E1_0268_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_165550_761.txt
29	A_E1_0270_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_101318_662.txt
30	A_E1_0280_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_103432_421.txt
31	A_E1_0285_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_104037_401.txt
32	A_E1_0300_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_104410_356.txt
33	A_E1_0310_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_104649_678.txt
34	A_E1_0340_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_105023_881.txt
35	A_E1_0345_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_105409_344.txt
36	A_E1_0360_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_105645_254.txt
37	A_E1_0370_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_110047_336.txt
38	A_E1_0390_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_110537_420.txt
39	A_E1_0392_TH_VTN_1	Nov 15 2019	PASS	TraceLog_111519_110805_106.txt

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4.1.1.6 General Tests

No.	Test Case Name	Date	Result	Log
01	G1_4005_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_115809_857.txt
02	G1_4007_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_120636_076.txt
03	G1_4010_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_121925_966.txt
04	G1_4011_TH_VTN_1	N/A	N/A	N/A
05	G1_4012_TH_VTN_1	N/A	N/A	N/A
06	G1_4015_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_122416_497.txt
07	G1_4030_TH_VTN_1	Nov 14 2019	PASS	TraceLog_111419_122931_460.txt

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5 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.html" which could be opened in any web-browser (Internet Explorer is recommended).

6 Photos

```
(venv37) [user01@localhost ven]$ cat VERSION  
1.0  
(venv37) [user01@localhost ven]$ █
```

Photo 1: FW Version



Photo 2: Test Sample



Photo 3: Test Setup