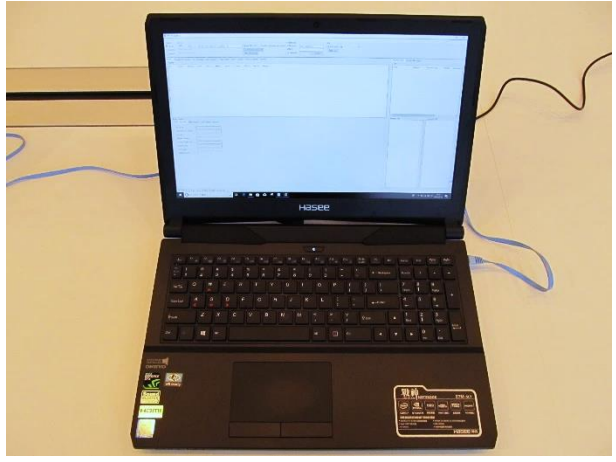


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Kunden Referenz-Nr.: Client Reference No.:	ENE19-5-013	Auftragsdatum: Order date:	2019-11-12		
Auftraggeber: Client:	Enestone Corporation 3F ANNEX Union bld. 3-25-5 Shinyokohama Kohoku-ku Yokohama, Kanagawa, Japan				
Gegenstand der Prüfung: Test item:	VPP RA system				
Bezeichnung / Typ-Nr.: Identification / Type No.:	ENS-VPPVEN, EOP-VPPVEN				
Auftrags-Inhalt: Order content:	OpenADR Certification Test				
Prüfgrundlage: Test specification:	OpenADR 2.0b Certification Test Specification Version 1.1.4				
Wareneingangsdatum: Date of receipt:	2020-02-18				
Prüfmuster-Nr.: Test sample No.:	A001065698				
Prüfzeitraum: Testing period:	2020-02-18, 19				
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:				
2020-03-06	Atsuhiko Endo	2020-03-06	Tam Tran Thanh		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position	Unterschrift Signature
Sonstiges / Other Aspects:					
This is correction report for report No. 50318340 001.					
“Identification / Type No.:" on page 1 was changed from “ENS-VPPVEN” to “ENS-VPPVEN, EOP-VPPVEN” as the client requested.					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged				
*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					
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					

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1 General Product Information

1.1 Client Information

Company Name: see page 1
Address: see page 1
Contact Person: Naoki Umetsu
Phone: +81-70-3860-4967
E-mail: Naoki-umetsu@enestone.jp

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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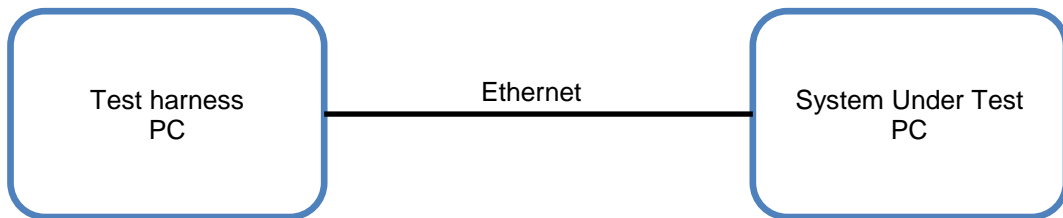
2 Testing Laboratory

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	Feb 18 2020	PASS	TraceLog_021820_105115_712.txt
02	N1_0015_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_110822_292.txt
03	N1_0020_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_105325_257.txt
04	N1_0025_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_110651_690.txt
05	N1_0030_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_105654_220.txt
06	N1_0040_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_111003_248.txt
07	N1_0050_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_111419_665.txt
08	N1_0060_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_112429_603.txt
09	N1_0065_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_112633_606.txt
10	N1_0070_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_112813_066.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	Feb 18 2020	PASS	TraceLog_021820_114101_378.txt
02	P1_2015_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_114246_695.txt
03	P1_2020_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_114532_561.txt
04	P1_2030_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_114751_199.txt
05	P1_2040_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_120542_645.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	Feb 18 2020	PASS	TraceLog_021820_131612_503.txt
02	R1_3020_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_131843_943.txt
03	R1_3025_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_132221_965.txt
04	R1_3027_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_132721_719.txt
05	R1_3030_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_133248_006.txt
06	R1_3040_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_134000_428.txt
07	R1_3045_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_134127_232.txt
08	R1_3050_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_134505_101.txt
09	R1_3060_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_134746_450.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	Feb 18 2020	PASS	TraceLog_021820_135359_230.txt
16	R1_3150_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_135725_086.txt
17	R1_3160_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_140026_254.txt
18	R1_3170_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_140813_458.txt
19	R1_3180_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_141222_722.txt
20	R1_3190_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_141442_739.txt

4.1.1.4 EiEvent Service

No.	Test Case Name	Date	Result	Log
01	E1_1010_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_151344_718.txt
02	E1_1020_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_151618_831.txt
03	E1_1025_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_151851_405.txt
04	E1_1027_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_152205_679.txt
05	E1_1030_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_152532_733.txt
06	E1_1040_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_153424_503.txt
07	E1_1050_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_153842_399.txt
08	E1_1055_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_154053_911.txt
09	E1_1060_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_154543_729.txt
10	E1_1065_TH_VTN_1	N/A	N/A	N/A
11	E1_1070_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_155315_248.txt
12	E1_1080_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_155451_598.txt
13	E1_1090_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_155701_035.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	Feb 18 2020	PASS	TraceLog_021820_160820_391.txt
02	A_E1_0040_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_161038_753.txt
03	A_E1_0060_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_161226_405.txt
04	A_E1_0070_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_161436_495.txt
05	A_E1_0082_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_161719_739.txt
06	A_E1_0086_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_161911_719.txt
07	A_E1_0090_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_162030_015.txt
08	A_E1_0092_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_162245_779.txt
09	A_E1_0094_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_162815_664.txt
10	A_E1_0096_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_163050_580.txt
11	A_E1_0098_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_163213_561.txt
12	A_E1_0100_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_163556_753.txt
13	A_E1_0102_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_163904_352.txt
14	A_E1_0104_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_164158_753.txt
15	A_E1_0110_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_165154_186.txt
16	A_E1_0130_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_165311_224.txt
17	A_E1_0180_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_165535_332.txt
18	A_E1_0190_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_165932_125.txt
19	A_E1_0200_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_170726_255.txt
20	A_E1_0210_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_101857_137.txt
21	A_E1_0220_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_102604_893.txt
22	A_E1_0230_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_103155_770.txt
23	A_E1_0240_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_103934_233.txt
24	A_E1_0250_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_104309_028.txt
25	A_E1_0260_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_110822_321.txt
26	A_E1_0262_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_113244_361.txt
27	A_E1_0267_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_115548_493.txt
28	A_E1_0268_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_121719_050.txt
29	A_E1_0270_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_122549_380.txt
30	A_E1_0280_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_123445_265.txt
31	A_E1_0285_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_123821_503.txt
32	A_E1_0300_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124024_014.txt
33	A_E1_0310_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124156_206.txt
34	A_E1_0340_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124418_246.txt
35	A_E1_0345_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124551_705.txt
36	A_E1_0360_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124741_614.txt
37	A_E1_0370_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_124932_614.txt
38	A_E1_0390_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_125312_258.txt
39	A_E1_0392_TH_VTN_1	Feb 19 2020	PASS	TraceLog_021920_125502_587.txt

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4.1.1.6 General Tests

No.	Test Case Name	Date	Result	Log
01	G1_4005_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_142310_887.txt
02	G1_4007_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_142649_323.txt
03	G1_4010_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_143742_377.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	Feb 18 2020	PASS	TraceLog_021820_144803_726.txt
07	G1_4030_TH_VTN_1	Feb 18 2020	PASS	TraceLog_021820_145443_768.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

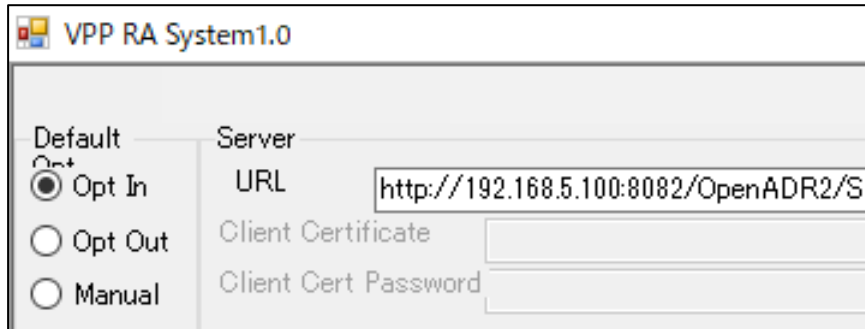


Photo 1: FW Version

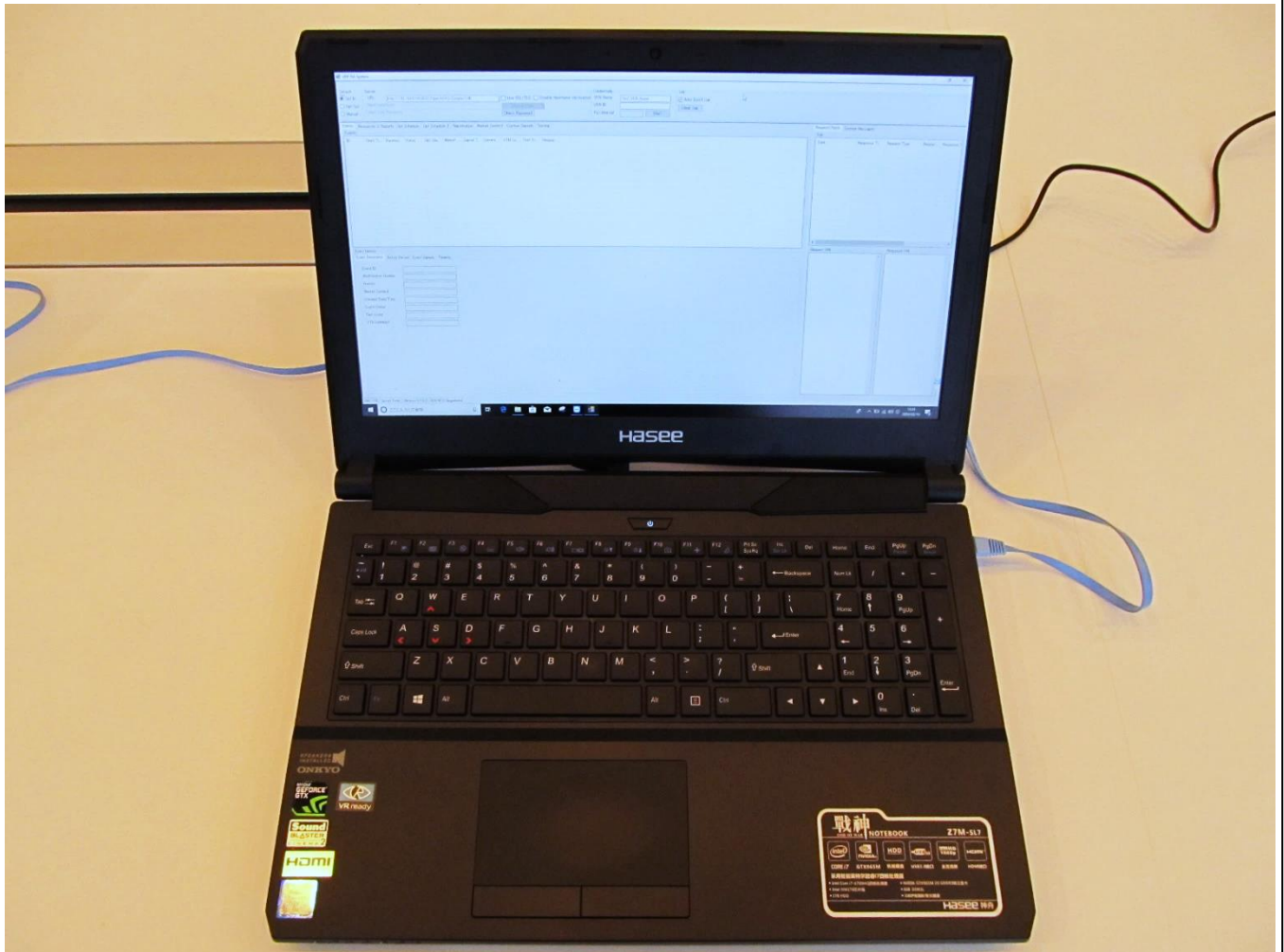


Photo 2: Operating PC



Photo 3: Test Setup