

試験報告書番号: Test report no.:	JP21J8DR-001	申請受理番号: Order no.:	P00299403 (150243562)	頁 1 / 15 Page 1 / 15
申請者参照番号: Client reference no.:	2153048	申請日: Order date	2021-06-02	
申請者: Client:	Enestone Corporation 3F ANNEX Union bld. 3-25-5 Shinyokohama Kohoku-ku Yokohama, Kanagawa, Japan			
試験品: Test item:	ENS-VPPVEN2.0			
識別表示 / 型名: Identification / Type no.:	VPP RA system / 2.0			
申請内容: Order content:	OpenADR Certification Test			
適用した試験基準: Test specification:	OpenADR 2.0b Certification Test Specification Version 1.1.5			
サンプル受領日: Date of sample receipt:	2021-06-21			
製造番号: Test sample no.:	N/A			
試験期間: Testing period:	2021-06-21 ~ 2021-06-24			
試験場所: Place of testing:	TÜV Rheinland Japan Ltd. 3-19-5 Shin-Yokohama, Kohoku-ku Yokohama 222-0033, Japan			
試験所: Testing laboratory:	TÜV Rheinland Japan Ltd.			
試験結果: Test result*:	適合 / Pass			
備考 / Other:				
試験者: tested by:	 <b>Takeshi Senuma</b>	照査者: authorized by:		
日付: 2021-06-25 Date:		発行日: 2021-06-25 Issue Date:		
職位 / Position:	専門家 / Expert	職位 / Position:	専門家 / Expert	
備考 / Other:				
納品時の試験品の状態: Condition of the test item at delivery:	試験品は完全で破損はない Test item complete and undamaged			
*凡例: P(ass) = 適合	1 = 優 2 = 良	3 = 可 F(ail) = 不適合	4 = 準可 N/A = 適用外	5 = 不可 N/T = 試験せず
* Legend: P(ass) = passed a.m. test specification(s)	1 = very good 2 = good	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
<p>この試験報告書は上記試験品に関するものであり、当該試験所の許可無しに、この試験報告書を抜粋し複写してはいけません。 また、この試験報告書は、当該製品又は類似製品に何れかの試験マークを附す権利を与えるものではありません。 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>				

## Contents

<b>1</b>	<b>General Product Information .....</b>	<b>3</b>
1.1	Client Information .....	3
1.2	General SUT Information .....	3
1.3	General EUT Description .....	3
1.4	Profile .....	3
<b>2</b>	<b>Testing Laboratory .....</b>	<b>4</b>
2.1	Test Equipment .....	4
2.2	Test Setup.....	4
<b>3</b>	<b>Information about Test Results .....</b>	<b>5</b>
3.1	General.....	5
<b>4</b>	<b>Test Results.....</b>	<b>6</b>
4.1	Profile 2.0b.....	6
4.1.1	VEN Pull Tests.....	6
4.1.1.1	EiRegisterParty Service .....	6
4.1.1.2	EiOpt Service .....	6
4.1.1.3	EiReport Service .....	7
4.1.1.4	EiEvent Service.....	7
4.1.1.5	EiEvent Ported A Profile .....	8
4.1.1.6	General Tests .....	9
4.1.2	VEN Push Tests.....	10
4.1.2.1	EiRegisterParty Service .....	10
4.1.2.2	EiOpt Service .....	10
4.1.2.3	EiReport Service .....	11
4.1.2.4	EiEvent Service.....	11
4.1.2.5	EiEvent Ported A Profile .....	12
4.1.2.6	General Tests .....	13
<b>5</b>	<b>Remarks and References.....</b>	<b>14</b>
<b>6</b>	<b>Photos.....</b>	<b>15</b>

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 3 / 15  
Page 3 / 15

## 1 General Product Information

### 1.1 Client Information

**Company Name:** see page 1  
**Address:** see page 1  
**Contact Person:** Naoki Umetsu  
**Phone:** +81-45-534-6962  
**E-mail:** Naoki-umetsu@enestone.jp

### 1.2 General SUT Information

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

**Serial Number:** N/A  
**Hardware Version:** N/A  
**Firmware version:** 2.0

### 1.3 General EUT Description

**Equipment under test:** see page 1

### 1.4 Profile

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

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 4 / 15  
Page 4 / 15

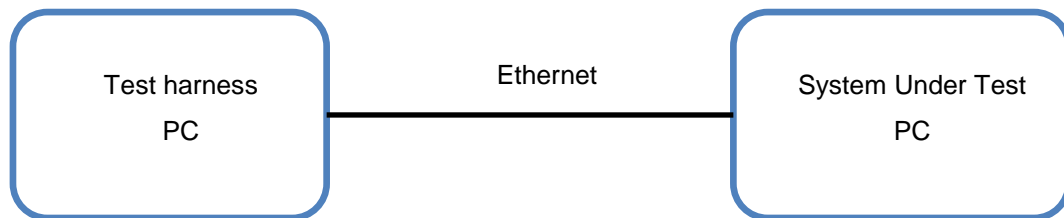
## 2 Testing Laboratory

see page 1

### 2.1 Test Equipment

Equipment ID	Model Product name	Manufacture	Category	Version
1800528	OpenADR Test Harness for 2.0b	QualityLogic	Software	1.1.5

### 2.2 Test Setup



試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 5 / 15  
Page 5 / 15

## 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.

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 6 / 15  
Page 6 / 15

## 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
01	N1_0010_TH_VTN_1	June 23 2021	PASS
02	N1_0015_TH_VTN_1	June 23 2021	PASS
03	N1_0020_TH_VTN_1	June 23 2021	PASS
04	N1_0025_TH_VTN_1	June 23 2021	PASS
05	N1_0030_TH_VTN_1	June 23 2021	PASS
06	N1_0040_TH_VTN_1	June 23 2021	PASS
07	N1_0050_TH_VTN_1	June 23 2021	PASS
08	N1_0060_TH_VTN_1	June 23 2021	PASS
09	N1_0065_TH_VTN_1	June 23 2021	PASS
10	N1_0070_TH_VTN_1	June 23 2021	PASS
11	N1_0080_TH_VTN_1	N/A	N/A

##### 4.1.1.2 EiOpt Service

No.	Test Case Name	Date	Result
01	P1_2010_TH_VTN_1	June 23 2021	PASS
02	P1_2015_TH_VTN_1	June 23 2021	PASS
03	P1_2020_TH_VTN_1	June 23 2021	PASS
04	P1_2030_TH_VTN_1	June 23 2021	PASS
05	P1_2040_TH_VTN_1	June 23 2021	PASS
06	P1_2050_TH_VTN_1	N/A	N/A

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 7 / 15  
Page 7 / 15

#### 4.1.1.3 EiReport Service

No.	Test Case Name	Date	Result
01	R1_3010_TH_VTN_1	June 23 2021	PASS
02	R1_3020_TH_VTN_1	June 23 2021	PASS
03	R1_3025_TH_VTN_1	June 23 2021	PASS
04	R1_3027_TH_VTN_1	June 23 2021	PASS
05	R1_3030_TH_VTN_1	June 23 2021	PASS
06	R1_3040_TH_VTN_1	June 23 2021	PASS
07	R1_3045_TH_VTN_1	June 23 2021	PASS
08	R1_3050_TH_VTN_1	June 23 2021	PASS
09	R1_3060_TH_VTN_1	June 23 2021	PASS
10	R1_3070_TH_VTN_1	N/A	N/A
11	R1_3080_TH_VTN_1	N/A	N/A
12	R1_3090_TH_VTN_1	N/A	N/A
13	R1_3100_TH_VTN_1	N/A	N/A
14	R1_3120_TH_VTN_1	N/A	N/A
15	R1_3130_TH_VTN_1	June 23 2021	PASS
16	R1_3150_TH_VTN_1	June 23 2021	PASS
17	R1_3160_TH_VTN_1	June 23 2021	PASS
18	R1_3170_TH_VTN_1	June 23 2021	PASS
19	R1_3180_TH_VTN_1	June 23 2021	PASS
20	R1_3190_TH_VTN_1	June 23 2021	PASS

#### 4.1.1.4 EiEvent Service

No.	Test Case Name	Date	Result
01	E1_1010_TH_VTN_1	June 23 2021	PASS
02	E1_1020_TH_VTN_1	June 23 2021	PASS
03	E1_1025_TH_VTN_1	June 23 2021	PASS
04	E1_1027_TH_VTN_1	June 23 2021	PASS
05	E1_1030_TH_VTN_1	June 23 2021	PASS
06	E1_1040_TH_VTN_1	June 23 2021	PASS
07	E1_1050_TH_VTN_1	June 23 2021	PASS
08	E1_1055_TH_VTN_1	June 23 2021	PASS
09	E1_1060_TH_VTN_1	June 23 2021	PASS
10	E1_1065_TH_VTN_1	N/A	N/A
11	E1_1070_TH_VTN_1	June 23 2021	PASS
12	E1_1080_TH_VTN_1	June 23 2021	PASS
13	E1_1090_TH_VTN_1	June 23 2021	PASS

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 8 / 15  
Page 8 / 15

#### 4.1.1.5 EiEvent Ported A Profile

No.	Test Case Name	Date	Result
01	A_E1_0020_TH_VTN_1	June 21 2021	PASS
02	A_E1_0040_TH_VTN_1	June 21 2021	PASS
03	A_E1_0060_TH_VTN_1	June 21 2021	PASS
04	A_E1_0070_TH_VTN_1	June 21 2021	PASS
05	A_E1_0082_TH_VTN_1	June 21 2021	PASS
06	A_E1_0086_TH_VTN_1	June 21 2021	PASS
07	A_E1_0090_TH_VTN_1	June 21 2021	PASS
08	A_E1_0092_TH_VTN_1	June 21 2021	PASS
09	A_E1_0094_TH_VTN_1	June 21 2021	PASS
10	A_E1_0096_TH_VTN_1	June 21 2021	PASS
11	A_E1_0098_TH_VTN_1	June 21 2021	PASS
12	A_E1_0100_TH_VTN_1	June 21 2021	PASS
13	A_E1_0102_TH_VTN_1	June 21 2021	PASS
14	A_E1_0104_TH_VTN_1	June 21 2021	PASS
15	A_E1_0110_TH_VTN_1	June 21 2021	PASS
16	A_E1_0130_TH_VTN_1	June 21 2021	PASS
17	A_E1_0180_TH_VTN_1	June 21 2021	PASS
18	A_E1_0190_TH_VTN_1	June 21 2021	PASS
19	A_E1_0200_TH_VTN_1	June 21 2021	PASS
20	A_E1_0210_TH_VTN_1	June 21 2021	PASS
21	A_E1_0220_TH_VTN_1	June 21 2021	PASS
22	A_E1_0230_TH_VTN_1	June 21 2021	PASS
23	A_E1_0240_TH_VTN_1	June 23 2021	PASS
24	A_E1_0250_TH_VTN_1	June 23 2021	PASS
25	A_E1_0260_TH_VTN_1	June 23 2021	PASS
26	A_E1_0262_TH_VTN_1	June 23 2021	PASS
27	A_E1_0267_TH_VTN_1	June 21 2021	PASS
28	A_E1_0268_TH_VTN_1	June 21 2021	PASS
29	A_E1_0270_TH_VTN_1	June 21 2021	PASS
30	A_E1_0280_TH_VTN_1	June 21 2021	PASS
31	A_E1_0285_TH_VTN_1	June 21 2021	PASS
32	A_E1_0300_TH_VTN_1	June 21 2021	PASS
33	A_E1_0310_TH_VTN_1	June 21 2021	PASS
34	A_E1_0340_TH_VTN_1	June 21 2021	PASS
35	A_E1_0345_TH_VTN_1	June 21 2021	PASS
36	A_E1_0360_TH_VTN_1	June 21 2021	PASS
37	A_E1_0370_TH_VTN_1	June 21 2021	PASS
38	A_E1_0390_TH_VTN_1	June 21 2021	PASS
39	A_E1_0392_TH_VTN_1	June 21 2021	PASS



試験報告書番号:  
Test report no.:

**JP21VPX5-001**

頁 9 / 15  
Page 9 / 15

#### 4.1.1.6 General Tests

No.	Test Case Name	Date	Result
01	G1_4005_TH_VTN_1	June 23 2021	PASS
02	G1_4007_TH_VTN_1	June 23 2021	PASS
03	G1_4010_TH_VTN_1	June 23 2021	PASS
04	G1_4011_TH_VTN_1	N/A	N/A
05	G1_4012_TH_VTN_1	N/A	N/A
06	G1_4015_TH_VTN_1	June 23 2021	PASS
07	G1_4030_TH_VTN_1	June 23 2021	PASS

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 10 / 15  
Page 10 / 15

## 4.1.2 VEN Push Tests

### 4.1.2.1 EiRegisterParty Service

No.	Test Case Name	Date	Result
01	NO_5010_TH_VTN_1	June 23 2021	PASS
02	NO_5015_TH_VTN_1	June 23 2021	PASS
03	NO_5020_TH_VTN_1	June 23 2021	PASS
04	NO_5025_TH_VTN_1	June 23 2021	PASS
05	NO_5030_TH_VTN_1	June 23 2021	PASS
06	NO_5040_TH_VTN	June 23 2021	PASS
07	NO_5050_TH_VTN	June 23 2021	PASS
08	NO_5060_TH_VTN_1	June 23 2021	PASS
09	NO_5065_TH_VTN_1	June 23 2021	PASS
10	NO_5070_TH_VTN_1	June 23 2021	PASS
11	NO_5080_TH_VTN_1	June 23 2021	PASS

### 4.1.2.2 EiOpt Service

No.	Test Case Name	Date	Result
01	P0_7010_TH_VTN_1	June 23 2021	PASS
02	P0_7015_TH_VTN_1	June 23 2021	PASS
03	P0_7020_TH_VTN_1	June 23 2021	PASS
04	P0_7030_TH_VTN_1	June 23 2021	PASS
05	P0_7040_TH_VTN_1	June 23 2021	PASS
06	P0_7050_TH_VTN_1	N/A	N/A

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 11 / 15  
Page 11 / 15

#### 4.1.2.3 EiReport Service

No.	Test Case Name	Date	Result
01	R0_8010_TH_VTN	June 23 2021	PASS
02	R0_8020_TH_VTN	June 23 2021	PASS
03	R0_8025_TH_VTN	June 23 2021	PASS
04	R0_8027_TH_VTN	June 23 2021	PASS
05	R0_8030_TH_VTN	June 23 2021	PASS
06	R0_8040_TH_VTN	June 23 2021	PASS
07	R0_8045_TH_VTN	June 23 2021	PASS
08	R0_8050_TH_VTN	June 23 2021	PASS
09	R0_8060_TH_VTN_1	June 23 2021	PASS
10	R0_8070_TH_VTN_1	N/A	N/A
11	R0_8080_TH_VTN_1	N/A	N/A
12	R0_8090_TH_VTN_1	N/A	N/A
13	R0_8100_TH_VTN_1	N/A	N/A
14	R0_8120_TH_VTN	N/A	N/A
15	R0_8130_TH_VTN	June 24 2021	PASS
16	R0_8150_TH_VTN	June 24 2021	PASS
17	R0_8160_TH_VTN	June 24 2021	PASS
18	R0_8170_TH_VTN	June 24 2021	PASS
19	R0_8180_TH_VTN	June 24 2021	PASS
20	R0_8190_TH_VTN	June 24 2021	PASS

#### 4.1.2.4 EiEvent Service

No.	Test Case Name	Date	Result
01	E0_6010_TH_VTN	June 24 2021	PASS
02	E0_6020_TH_VTN	June 24 2021	PASS
03	E0_6025_TH_VTN	June 24 2021	PASS
04	E0_6027_TH_VTN	June 24 2021	PASS
05	E0_6030_TH_VTN	June 24 2021	PASS
06	E0_6040_TH_VTN	June 24 2021	PASS
07	E0_6050_TH_VTN_1	June 24 2021	PASS
08	E0_6055_TH_VTN	June 24 2021	PASS
09	E0_6060_TH_VTN	June 24 2021	PASS
10	E0_6065_TH_VTN	N/A	N/A
11	E0_6070_TH_VTN	June 24 2021	PASS
12	E0_6080_TH_VTN	June 24 2021	PASS
13	E0_6090_TH_VTN	June 24 2021	PASS

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 12 / 15  
Page 12 / 15

#### 4.1.2.5 EiEvent Ported A Profile

No.	Test Case Name	Date	Result
01	A_E0_0020_TH_VTN_1	June 24 2021	PASS
02	A_E0_0040_TH_VTN	June 24 2021	PASS
03	A_E0_0060_TH_VTN_1	June 24 2021	PASS
04	A_E0_0070_TH_VTN_1	June 24 2021	PASS
05	A_E0_0082_TH_VTN_1	June 24 2021	PASS
06	A_E0_0086_TH_VTN_1	June 24 2021	PASS
07	A_E0_0090_TH_VTN_1	June 24 2021	PASS
08	A_E0_0092_TH_VTN_1	June 24 2021	PASS
09	A_E0_0094_TH_VTN_1	June 24 2021	PASS
10	A_E0_0096_TH_VTN	June 24 2021	PASS
11	A_E0_0098_TH_VTN_1	June 24 2021	PASS
12	A_E0_0100_TH_VTN_1	June 24 2021	PASS
13	A_E0_0102_TH_VTN_1	June 24 2021	PASS
14	A_E0_0104_TH_VTN_1	June 24 2021	PASS
15	A_E0_0110_TH_VTN_1	June 24 2021	PASS
16	A_E0_0130_TH_VTN_1	June 24 2021	PASS
17	A_E0_0180_TH_VTN_1	June 24 2021	PASS
18	A_E0_0185_TH_VTN_1	June 24 2021	PASS
19	A_E0_0190_TH_VTN_1	June 24 2021	PASS
20	A_E0_0200_TH_VTN_1	June 24 2021	PASS
21	A_E0_0210_TH_VTN_1	June 24 2021	PASS
22	A_E0_0220_TH_VTN_1	June 24 2021	PASS
23	A_E0_0230_TH_VTN	June 24 2021	PASS
24	A_E0_0240_TH_VTN	June 24 2021	PASS
25	A_E0_0250_TH_VTN_1	June 24 2021	PASS
26	A_E0_0260_TH_VTN_1	June 24 2021	PASS
27	A_E0_0262_TH_VTN_1	June 24 2021	PASS
28	A_E0_0267_TH_VTN_1	June 24 2021	PASS
29	A_E0_0268_TH_VTN_1	June 24 2021	PASS
30	A_E0_0270_TH_VTN_1	June 24 2021	PASS
31	A_E0_0280_TH_VTN_1	June 23 2021	PASS
32	A_E0_0285_TH_VTN_1	June 24 2021	PASS
33	A_E0_0300_TH_VTN_1	June 24 2021	PASS
34	A_E0_0310_TH_VTN_1	June 24 2021	PASS
35	A_E0_0340_TH_VTN_1	June 24 2021	PASS
36	A_E0_0345_TH_VTN_1	June 24 2021	PASS
37	A_E0_0360_TH_VTN_1	June 24 2021	PASS
38	A_E0_0370_TH_VTN_1	June 24 2021	PASS
39	A_E0_0390_TH_VTN_1	June 24 2021	PASS
40	A_E0_0392_TH_VTN_1	June 24 2021	PASS

試験報告書番号:  
Test report no.:

**JP21VPX5-001**

頁 13 / 15  
Page 13 / 15

#### 4.1.2.6 General Tests

No.	Test Case Name	Date	Result
01	G0_9005_TH_VTN	June 23 2021	PASS
02	G0_9010_TH_VTN	June 23 2021	PASS
03	G0_9030_TH_VTN	June 23 2021	PASS

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 14 / 15  
Page 14 / 15

## 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.

試験報告書番号:  
Test report no.:

JP21VPX5-001

頁 15 / 15  
Page 15 / 15

## 6 Photos

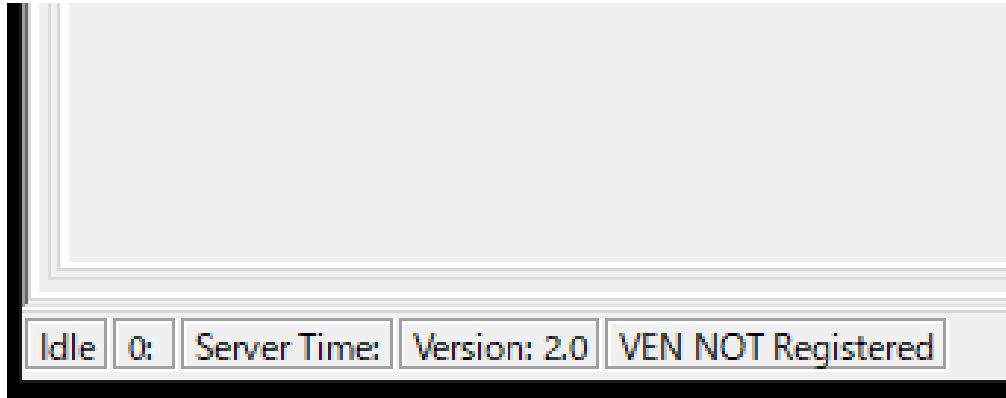


Photo 1: FW Version

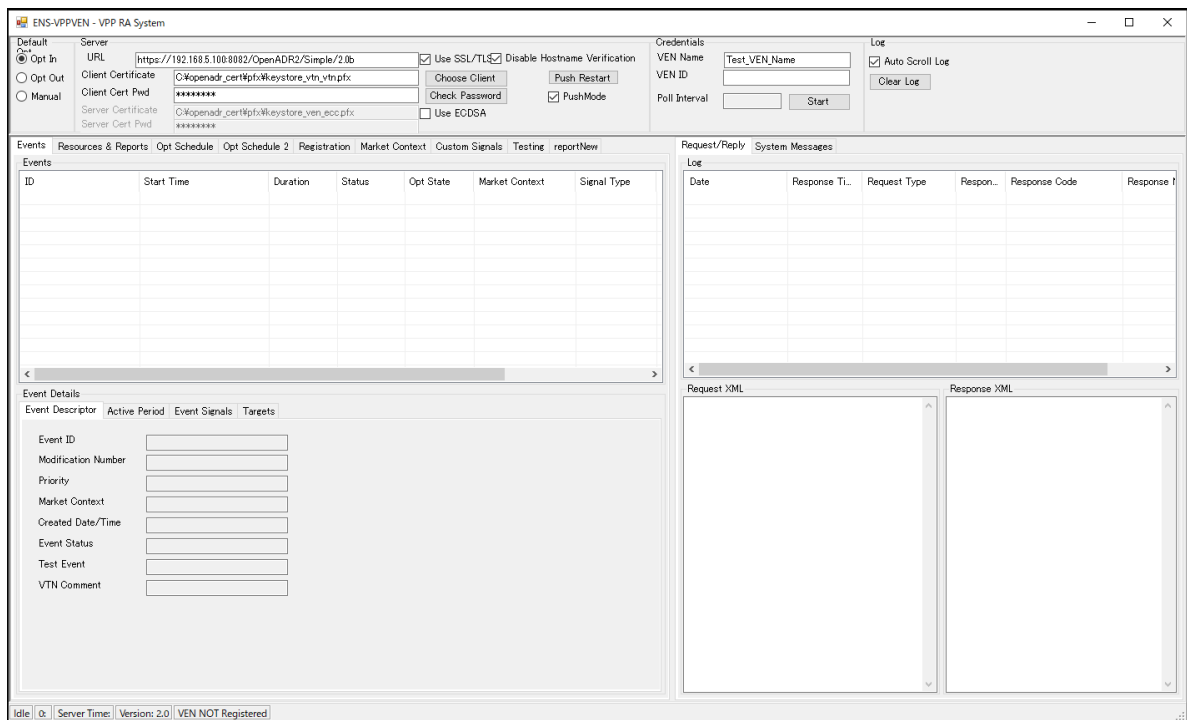


Photo 2: System screen capture