

OpenADR 2.0b

Protocol Implementation

Conformance Statement (PICS)

Version 1.0.6

Valid for Certification as of September 10, 2013

Manufacturer:	Siemens Retail & Commercial Systems
Product Type:	VEN Pull
Product Name:	Intelligent Load Management (ILM) Aggregator
Firmware Revision:	N/A 1.0.0
Tested OpenADR 2.0b Profile Spec version:	1.0


Disclaimer:

The information provided in this document can be made available to the general public in order to identify the tested versions, features and options.

By signing this document, the manufacturer confirms that all information provided in this document is correct and the applicable features have been tested.

Manufacturer Name: Siemens Retail & Commercial Systems

Representative Name and Title: Craig Vaughn – Software Engineer

Signature: 

Date: 5-23-11

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Instructions for Completing the PICS

The first part of the PICS document, System Identification, is to be completed as indicated with the information necessary to fully identify both the supplier and the implementation.

The main part of the PICS document is a fixed format questionnaire. Answers to questionnaire items are to be provided in the rightmost column by simply marking an answer to indicate a choice, typically Yes or No.

If an implementation fails to support a mandatory item, or supports a prohibited item, the supplier should provide supplementary information with the PICS document explaining the rationale for the exception.

Note: The burden of interoperability falls to the VTN implementation. Therefore any certified VTN must support the 2.0A profile and the 2.0B profile including the applicable schemas.

Documents required for final certification

- This PICS document ✓
- Manufacturers Declaration of Conformity ✓
- Completed Test Report from appointed test house
- Product marketing description for website (50 words) ✓
- Product picture or logo if applicable ✓
- Web link to product

If you would like to postpone posting your product on the OpenADR Alliance website for a period of time (maximum 3 months), please fill out the following section.

_____ (Manufacturer) herewith requests that the submitted product shall not be posted on the OpenADR Alliance product web page until _____ (date, max 3 months from submittal).

Name: _____

Signature: _____

Global Statement of Conformance

Requirement	Support
Are all mandatory capabilities supported for the indicated roles supported by this implementation? Yes, however some questions/concerns are expressed in red in below document.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Roles

Item	Role	Status	Support
1	VEN - Full Function	O-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	VEN - Energy Reporting Only	O-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3	VTN	O-1	<input type="checkbox"/> Yes <input type="checkbox"/> No

O-1) Must answer Yes to one Role. Note that if an implementation supports both VEN and VTN functionality, two separate PICS documents should be submitted, one for each role.

Profile Support

Requirements Reference: Conformance rule 506

Item	Role	Profile	Status	Support
1	VEN/VTN	"A" Profile	C-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2	VEN/VTN	"B" Profile	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

C-1) VTNs must support the A

C-1) VENS may support ONLY the B profile

Transports /Exchange Pattern Support

Requirements Reference: Figure 1, OpenADR 2.0 Certification Levels and conformance rule 37

Item	Role	Transport	Status	Support
1	VEN/VTN	SimpleHTTP - Pull	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	VEN/VTN	SimpleHTTP - Push	C-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3	VEN/VTN	XMPP - Push	C-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

C-1) VTNs must support all transports and exchange patterns.

C-1) VENS must support at least one item from the list. If SimpleHTTP items are selected this must include the "SimpleHTTP-Pull" option from the list.

Payload Schema Conformance

For each payload generated by a VEN or VTN, indicate if it conforms to the OpenADR B Profile schema. Note that the Status is relative to the Role listed.

Item	Role	Payload	Status for Role	Validates Against B Schema
1	VEN-Pull	oadrPoll	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	VEN	oadrRequestEvent	C-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	VEN	oadrCreatedEvent	C-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	VEN	oadrCreateOpt	C-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	VEN	oadrCancelOpt	C-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	VTN	oadrCanceledOpt	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
7	VEN	oadrQueryRegistration	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	VEN	oadrCreatePartyRegistration	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	VEN/VTN	oadrResponse	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10	VEN/VTN	oadrCancelPartyRegistration	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	VEN/VTN	oadrCanceledPartyRegistration	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	VEN/VTN	oadrRegisterReport	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13	VEN/VTN	oadrRegisteredReport	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		oadrCreateReport		
14	VEN/VTN	VEN only serves the Report request, it does not request for create report.	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
15	VEN/VTN	oadrCreatedReport	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16	VEN/VTN	oadrUpdateReport	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		oadrUpdatedReport		
17	VEN/VTN	VEN only serves the Report request, it does send Updated report	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		oadrCancelReport		
18	VEN/VTN	VEN only serves the Report request, it does not send cancel report	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
19	VEN/VTN	oadrCanceledReport	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
20	VTN	oadrCreatedOpt	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
21	VTN	oadrDistributeEvent	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
22	VTN	oadrCreatedPartyRegistration	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
23	VTN	oadrRequestReregistration	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

C-1) VENs with SimpleHTTP push support must support oadrPoll, other implementations must not.

C-2) All implementations must support these options except for Report Only VENs.

Standard Event Signal Support

Indicate which of the following Alliance-defined standard signals are supported by the VEN or VTN .
Requirements Reference: Conformance rule 510

Item	Role	Signal Name	SignalType	Status	Support
1	VEN/VTN	SIMPLE		M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	VEN/VTN	ELECTRICITY_PRICE	Price	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	VEN/VTN	LOAD_DISPATCH	setpoint	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

1) The Alliance was still determining VTN report support at the time this was drafted.

Standard Report Support

Indicate which of the following Alliance-defined standard reports are offered as part of report registration by the VEN or VTN. Requirements Reference: Conformance rule 510

Item	Role	Report Name	Status	Support
1	VEN	METADATA	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	VEN	TELEMETRY_UASGE	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	VEN	TELEMETRY_STATUS	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	VEN	HISTORY_USAGE	C-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	VTN	METADATA	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

C-1) Optional for full function VENs; mandatory for Report Only VENs.

Item (Rule)	Role	Status	Support
53	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
56	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
57	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
58	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
59	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
60	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
61	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
62	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
63	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
65	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
66	VEN/VTN Seems to be a VTN Test case	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
67	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
68	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
100	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
101	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
102	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
103	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
104	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
105	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
106	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
107	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
108	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
109	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
110	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
111	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
112	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
113	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
114	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
115	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
116	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
200	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
201	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
202	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
203	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
204	VEN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
205	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
206	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
207	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
208	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
209	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
210	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
211	VEN/VTN	C-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
300	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
301	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
302	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
303	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
304	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
305	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
306	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
307	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
308	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
309	VEN/VTN	M	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Implementation Capabilities and Configuration

For each of the questions below, indicate if the implementation has the necessary functionality, configurability, and documentation to successfully complete the certification testing process.

Item	Description	Support
1	Does the implementation being submitted for certification support the capabilities outlined in the DUT Implementation Limits section of the OpenADR 2.0b Test Specification documentation? Note that these limits do not imply minimum market needs for a “b” profile implementation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Does the implementation being submitted for certification support methodologies necessary to trigger specific actions during test execution as outlined in the DUT Configuration Requirements section of the OpenADR 2.0b Test Specification documentation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Have you attached documentation to this PICS statement regarding how to configure the implementation as outlined in Appendix A of the OpenADR Certification Test Harness User Guide?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4	Does the implementation being submitted for certification have pre-installed x.509 certificates from the OpenADR/NetworkFX portal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	Does the VEN's being submitted for certification must have host authentication of the X.509 client certificate CN field disabled in order to avoid complex reconfiguration of the test harness and Openfire server? Answer No if not testing a VEN	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	Does the VTN being submitted for certification have the XMPP Server per-configured for the user name of 111111111111 which the test harness uses to connect to the implementation's VTN XMPP server. Answer No if not testing a VTN or XMPP is not supported	<input type="checkbox"/> Yes <input type="checkbox"/> No
7)	Does the VTN being offer reports as part of its metadata report. If so, periodic reporting will be tested. Answer No if not testing a VTN or no reports are supported	<input type="checkbox"/> Yes <input type="checkbox"/> No

7	<p>If the VTN cannot be configured to set oadrResponseRequired to never skip test cases A_E2_0468, A_E2_0480, A_E2_0498, A_E3_0468, A_E3_0480, and A_E3_0498</p> <p>N/A</p>
8	<p>If VEN cannot be configure with multiple Market Context, skip test case A_E1_0285 and A_E0_0285</p> <p>Supported</p>
9	<p>If the implementation cannot resend an unchanged payload, the test case A_E3_0680 can be skipped.</p> <p>N/A</p>
10	<p>If the VTN cannot set a ramp up period skip test cases A_E2_0527 and A_E3_0527</p> <p>N/A</p>
11	<p>If the VTN cannot configure multiple intervals in an event skip test case A_E2_0432 and A_E3_0432</p> <p>N/A</p>
12	<p>If a VTN cannot set an event's priority skip test case A_E2_0510, A_E3_0510, A_E2_0520, and A_E3_0520</p> <p>N/A</p>
13	<p>If the VTN does not support configuration of eiTarget subelements, skip test case A_E3_0435 and A_E2_0435.</p> <p>N/A</p>
14	<p>If the VTN does not support configuration of randomization with a startafter element skip test cases A_E2_0685 and A_E3_0685.</p> <p>N/A</p>
15	<p>If the VEN cannot be configured to request reports from VTN skip test case R1_3070_TH_VTN_1, R0_8070_TH_VTN_1, R1_3080_TH_VTN_1, R0_8080_TH_VTN_1, R1_3090_TH_VTN_1, R0_8090_TH_VTN_1, R1_3100_TH_VTN_1, R0_8100_TH_VTN_1, R1_3120_TH_VTN_1 and R0_8120_TH_VTN.</p> <p>Not supported</p>
16	<p>If the VTN or VEN cannot be configured to send piggy back report requests and report cancellation payloads skip test cases R1_3050_TH_VEN, R0_8050_TH_VEN_1, R1_3060_TH_VEN, R0_8060_TH_VEN, R1_3120_TH_VTN_1 and R0_8120_TH_VTN.</p> <p>Not supported</p>