

OpenADR 2.0b

Protocol Implementation

Conformance Statement (PICS)

Version 1.1.7

Valid for Certification as of November 21st 2025

Manufacturer:	A.O. Smith
Product Type:	VEN
Product Name:	100323281 iCOMM Heat Pump Water Heater Module
Firmware Revision:	1.0
<i>Tested OpenADR 2.0b Profile Spec version:</i>	1.1.7

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: A.O. Smith

Representative Name and Title:

Signature: *Joshua Smith*

Date: March 4, 2026

Revisions:

Version	Changes	Date/Editor
1.0.0	<ul style="list-style-type: none"> Released Version 	06/28/13
1.0.1	<ul style="list-style-type: none"> Added additional optional test case conditions 	07/28/13
1.0.2	<ul style="list-style-type: none"> Added test case A_E1_0285 and A_E0_0285 to optional list 	08/15/13
1.0.4	<ul style="list-style-type: none"> Added test case A_E3_0680 to optional list 	08/20/13
1.0.5	<ul style="list-style-type: none"> Added the following test cases to optional list. A_E2_0435, A_E3_0435, A_E2_0685, A_E3_0685, 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, R0_8120_TH_VTN_1, 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. 	09/09/13
1.0.6	<ul style="list-style-type: none"> Corrected typo. Removed test case A_E0_0295. Mentioned GO_9005. 	2/11/2014 EP, BD
1.0.7	<ul style="list-style-type: none"> Corrections 	11/7/2015 JZ
1.1.2	<ul style="list-style-type: none"> Revision incremented 	4/25/17 JZ
1.1.3	<ul style="list-style-type: none"> Corrected typo on skipped test cases in item 5 of Optional Test Case Guidelines. R1 was changes to R0 on last 4 test cases Clarified payloads required if VEN or VTN do not implement optional characteristics of reporting. Corrected test specification and profiles specification references 	12/12/18 JZ
1.1.4	<ul style="list-style-type: none"> Changed version to sync with test harness version 	9/12/19
1.1.6	<ul style="list-style-type: none"> Align document version with current test harness version 	2/5/22
1.1.7	<ul style="list-style-type: none"> Align document version with current test harness version 	1/21/24

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Introduction

The purpose of this PICS document is to provide a mechanism whereby a supplier of an implementation based on the following requirements may provide information about the implementation in a standardized manner.

These requirements are drawn from the OASIS Energy Interoperation standard and related schemas. With the exception of OpenADR Alliance schema extensions, payloads generated by OpenADR 2.0b implementations should validate against the Energy Interop schemas.

Information provided by the supplier will be used to assess the implementation's compliance to the requirements, as well as to configure the certification tests performed on the implementation.

References

- OpenADR 2.0b Profile Specification 1.1
- OpenADR 2.0b Test Spec V1.1.6
- OpenADR 2.0b Schema

Abbreviations and Conventions

The PICS information comprises information in a tabular format as follows:

- **Item Column** – A number which identifies the item in the table
- **Capability Column** – A brief description of the requirement
- **Reference Column or Section Header** – A reference to a specific requirement in the specification
- **Status Column** – Contains notations regarding the requirements
 - M – Mandatory
 - O – Optional
 - N/A – Not applicable
 - X – Prohibited
 - O-i – Qualified Optional (mutually exclusive or selectable options from a set identified with the same “i” value)
 - C-i – Conditional (status dependent on support of other optional requirements , identified in footnotes at bottom of table with “i” being a reference integer for the footnote(s))
- **Support Column** – Yes or No answer is required. If feature is not applicable, answer No.
- **Values Allowed Column** – Optional column representing set of values allowed.
- **Values Supported Column** – Optional column where supplier can indicate a set of values supported by the implementation.

Note that all requirement references in the tables on the following pages are with respect to the OpenADR 2.0b Profile Specification, Version 1.1.

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: _____

Implementation and Supplier Information

Date of Statement	29.01.2026
Product Name	
Product Model Number	N/a
Version Number(s)	1.0
Non-Default Hardware Configuration	N/a
Non-Default Software Configuration	N/a
Supplier Name, Address, Phone, Email	Codibly Zabłocie 43A/2nd floor, 30-701 Kraków, Poland office@codibly.com
Contact name, email, phone for questions	Marek Sitek marek.sitek@codibly.com

Global Statement of Conformance

Requirement	Support
Are all mandatory capabilities supported for the indicated roles supported by this implementation?	<input type="checkbox"/> Yes <input checked="" 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 checked="" 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 and B Profile

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.

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Service Support

Requirements Reference: Section 7.2.2 and conformance rules 501 and 507

Item	Role	Service	Status	Support
1	VEN/VTN	EiEvent	C-1	[*]Yes []No
2	VEN/VTN	EiOpt	C-1	[*]Yes []No
3	VEN/VTN	EiReport	M	[*]Yes []No
4	VEN/VTN	RiRegisterParty	M	[*]Yes []No
5	VEN/VTN	OadrPoll	C-2	[*]Yes []No

C-1) VTNs and Full Function VENs must support these Services, but are not supported by Report Only VENs.

C-2) VTNs must support; VENs must support if simpleHTTP transport is supported.

Security Support

Requirements Reference: Conformance rules 67, 68, and 514

Item	Role	Security	Status	Support
1	VEN	SHA2 Security -TLS 1.2 -Client and server x.509 certs with SHA2 -Alliance RSA or ECC SHA2 Ciphers -SASL_EXTERNAL (XMPP Only)	M	[*]Yes []No
2	VTN	SHA2 Security -TLS 1.2 -Client and server x.509 certs with SHA2 -Alliance RSA and ECC SHA2 Ciphers -SASL_EXTERNAL (XMPP Only if supported)	M	[]Yes [*]No
3	VEN/VTN	XML Signatures	O	[]Yes [*]No

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	[*]Yes []No
2	VEN	oadrRequestEvent	C-2	[*]Yes []No
3	VEN	oadrCreatedEvent	C-2	[*]Yes []No
4	VEN	oadrCreateOpt	C-2	[*]Yes []No
5	VEN	oadrCancelOpt	C-2	[*]Yes []No
6	VTN	oadrCanceledOpt	C-2	[]Yes [*]No
7	VEN	oadrQueryRegistration	M	[*]Yes []No
8	VEN	oadrCreatePartyRegistration	M	[*]Yes []No
9	VEN/VTN	oadrResponse	M	[*]Yes []No
10	VEN/VTN	oadrCancelPartyRegistration	M	[*]Yes []No
11	VEN/VTN	oadrCanceledPartyRegistration	M	[*]Yes []No
12	VEN/VTN	oadrRegisterReport	M	[*]Yes []No
13	VEN/VTN	oadrRegisteredReport	M	[*]Yes []No
14	VEN/VTN	oadrCreateReport	C-3	[*]Yes []No
15	VEN/VTN	oadrCreatedReport	M	[*]Yes []No
16	VEN/VTN	oadrUpdateReport	C-4	[*]Yes []No
17	VEN/VTN	oadrUpdatedReport	C-3	[*]Yes []No
18	VEN/VTN	oadrCancelReport	C-3	[*]Yes []No
19	VEN/VTN	oadrCanceledReport	M	[*]Yes []No
20	VTN	oadrCreatedOpt	C-2	[]Yes [*]No
21	VTN	oadrDistributeEvent	C-2	[]Yes [*]No
22	VTN	oadrCreatedPartyRegistration	M	[]Yes [*]No
23	VTN	oadrRequestReregistration	M	[]Yes [*]No

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

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

C-3) VENs are not required to implement requesting reports from VTNs. If the VEN does not implement requesting reports from the VEN, the indicated payloads are not required

C-4) VTNs are not required to offer reports, so delivering reports other than metadata is not mandatory. If the VTN does not offer reports, the indicated payload is optional.

Operational Sequence Support

The table below demonstrates the operational sequences and the conditional behavior for each of the services. The push HTTP acknowledgement (empty payload) of oadrDistributeEvent is not shown in the table. Indicate if all of the behavior shown in each section is supported by the implementation. Brackets are used to indicate conditional behavior which must be supported. Requirements reference: All figures in the B profile specification with interaction diagrams

Item	Service	App Level Exchange Sequence	Status	Support
1	EiEvent	{VEN: RequestEvent {Reply Limit}} VTN: oadrDistributeEvent {Response Required, baseline} {VEN: oadrCreatedEvent {Opt State}} VTN: oadrResponse }	C-1	[*]Yes []No
2	EiOpt	VEN: oadrCreateOpt {Availability schedule} VTN: oadrCreatedOpt ---- VEN: oadrCancelOpt VTN: oadrCanceledOpt --- VEN: oadrCreateOpt - {Event Opt State} VTN: oadrCreatedOpt	C-1	[*]Yes []No
3	EiRegisterParty	VEN: oadrQueryRegistration VTN: oadrCreatedPartyRegistration ---- VEN: oadrCreatePartyRegistration VTN: oadrCreatedPartyRegistration ---- VEN/VTN: oadrCancelPartyRegistration VTN/VEN: oadrCanceledPartyRegistration --- VTN: oadrRequestReregistration VEN: oadrResponse VEN: oadrCreatePartyRegistration VTN: oadrCreatedPartyRegistration	M	[*]Yes []No
4	EiReport	VEN/VTN: oadrRegisterReport VTN/VEN: oadrRegisteredReport {Create Report *} ---- VEN/VTN: oadrCreateReport {Once or Periodic} VTN/VEN: oadrCreatedReport ---- VEN/VTN: oadrUpdateReport VTN/VEN: oadrUpdatedReport {Cancel Report *} ---- VEN/VTN: oadrCancelReport VTN/VEN: oadrCanceledReport {Report to Follow}	C-3	[*]Yes []No
5	OadrPoll	VEN: oadrPoll VTN: Any payload sent by VTN	C-2	[*]Yes []No

C-1) All implementations must support these options, except for Report Only VENS.

C-2) Required for SimpleHTTP Pull VENS only.

C-3) VENS and VTNs are not required to demonstrate initiating piggyback report requests and report cancellations (*), but must understand them and act upon them if received from the other party. As noted in the prior Payload Schema Conformance section, VENS are not required to demonstrate requesting reports from VTNs and VTNs are not required to deliver reports other than metadata..

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	[*]Yes []No
2	VEN/VTN	ELECTRICITY_PRICE	Price	M	[*]Yes []No
3	VEN/VTN	LOAD_DISPATCH	setpoint	M	[*]Yes []No

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	[*]Yes []No
2	VEN	TELEMETRY_UASGE	M	[*]Yes []No
3	VEN	TELEMETRY_STATUS	M	[*]Yes []No
4	VEN	HISTORY_USAGE	C-1	[*]Yes []No
5	VTN	METADATA	M	[]Yes [*]No

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

Alliance “B” Profile Detailed Requirements

In addition to the requirements defined by the schema, the OpenADR 2.0b Profile has a detailed set of conformance rules that define the expected behavior of VTN and VEN implementations. As these rules already reflect the testable requirements, there is no need to relist them here. Please refer to the OpenADR 2.0b Profile Specification while indicating which of the following conformance rules are supported by the implementation.

Item (Rule)	Role	Status	Support
1	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
2	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
4	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
5	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
8	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
9	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
10	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
12	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
13	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
14	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
15	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
16	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
17	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
18	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
19	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
20	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
21	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
22	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
23	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
25	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
27	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
29	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
30	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
31	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
32	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
33	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
35	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
36	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
37	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
38	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
40	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
41	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
42	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
43	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
45	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
46	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
47	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
48	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
50	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
51	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
52	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item (Rule)	Role	Status	Support
53	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
56	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
57	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
58	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
59	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
60	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
61	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
62	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
63	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
65	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
66	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
67	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
68	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
70	VTN	C-1	<input 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 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 type="checkbox"/> Yes <input type="checkbox"/> No
112	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
113	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
114	VEN	C-1	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No
200	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
201	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
202	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
203	VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
204	VEN	C-1	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No
207	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
208	VEN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
209	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
210	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
211	VEN/VTN	C-1	<input type="checkbox"/> Yes <input type="checkbox"/> No
300	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
301	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
302	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
303	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
304	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
305	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
306	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
307	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
308	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
309	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item (Rule)	Role	Status	Support
311	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
312	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
313	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
314	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
315	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
316	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
317	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
318	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
319	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
321	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
322	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
324	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
325	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
327	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
328	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
329	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
330	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
331	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
333	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
334	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
335	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
336	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
337	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
338	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
339	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
340	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
341	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
342	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
343	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
344	VEN/VTN	O	<input type="checkbox"/> Yes <input type="checkbox"/> No
345	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
346	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
400	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
401	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
402	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
403	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
404	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
405	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
406	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
407	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
500	VEN/VTN	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
501	VEN/VTN	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
502	VEN/VTN	C-2	<input type="checkbox"/> Yes <input type="checkbox"/> No
506	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
507	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
508	VEN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
509	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
510	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
511	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
512	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No
514	VEN/VTN	O	<input type="checkbox"/> Yes <input type="checkbox"/> No
515	VEN/VTN	M	<input type="checkbox"/> Yes <input type="checkbox"/> No

C-1) Required for all but Report Only VENs.

C-2) All VTNs and Simple HTTP VENs must support this requirement.

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 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 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 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 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 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 checked="" 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 checked="" type="checkbox"/> No

Optional Test Case Guidelines

Following test cases may be skipped if the criterion noted is met.

Item	Criteria
1	Implementations will support either a push and/or pull exchange model. XMPP is always push, whereas HTTP may be either push or pull. Test cases are listed within Eclipse in a tree with branches labels Push or Pull. Only test cases appropriate to the exchange models supported should be run on the implementation.
2	If the implementation supports multiple transport and exchange model combinations, the full test suite shall be run across at least one push and one pull configuration. If there is more than one push configuration, then at least 4 non-negative randomly selected test cases shall be run across each service, with execution of the GO_9005_TH_xxx/GO_9010_TH_xxx security test being mandatory as part of the test cases run.
3	<p>The following test cases may be skipped if HISTORY_USAGE reporting is not supported by a full function VEN. However, Report Only VENs must pass these test cases.</p> <p>_R1_3130_TH_VTN _R0_8130_TH_VTN _R1_3140_TH_VTN _R0_8140_TH_VTN</p>
4	If the implementation is a Report Only VEN, then all of the tests under the EiEvent and EiOpt service headings may be skipped as these services are not required.
5	<p>If the answer to question 7 in the Implementation Capabilities and Configuration section is No and the implementation is a VTN, the following test cases may be skipped:</p> <p>R1_3080_TH_VEN R1_3090_TH_VEN R1_3100_TH_VEN R1_3120_TH_VEN RO_8080_TH_VEN RO_8090_TH_VEN RO_8100_TH_VEN RO_8120_TH_VEN</p>
6	If the VTN cannot send an Empty odrDistributeEvent skip test case E0_6010_TH_VEN
7	If the VTN cannot be configured to set odrResponseRequired to never skip test cases A_E2_0468, A_E2_0480, A_E2_0498, A_E3_0468, A_E3_0480, and A_E3_0498

8	If VEN cannot be configure with multiple Market Context, skip test case A_E1_0285 and A_E0_0285
9	If the VTN cannot set a ramp up period skip test cases A_E2_0527 and A_E3_0527
10	If the VTN cannot configure multiple intervals in an event skip test case A_E2_0432 and A_E3_0432
11	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
12	If the VTN does not support configuration of eiTarget subelements, skip test case A_E3_0435 and A_E2_0435.
13	If the VTN does not support configuration of randomization with a startafter element skip test cases A_E2_0685 and A_E3_0685.
14	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.
15	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.
16	Test cases E1_1050_TH_VTN and E1_6050_TH_VTN may be skipped the VEN cannot configured to send an async oadrRequestEvent as required by this test case.