

OpenADR 2.0b

Protocol Implementation Conformance Statement (PICS)

Version 1.1.2 Valid for Certification as of February 22, 2016

Manufacturer:	Braeburn Systems LLC
Product Type:	Smart WiFi Thermostat
Product Name:	BlueLink Smart Connect
Firmware Revision:	1.0
Tested OpenADR 2.0b Profile Spec version:	1.1

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: Braeburn Systems LLC

Representative Name and Title: Daniel Poplawski BlueLink Development Manager

Signature: Daniel Poplaush

Date: 23-APR-19



Revisions:

Version		Changes	Date/Editor
1.0.0	•	Released Version	06/28/13
1.0.1	•	Added additional optional test case conditions	07/28/13
1.0.2		Added test case A_E1_0285 and A_E0_0285 to optional list	08/15/13
1.0.4	0	Added test case A_E3_0680 to optional list	08/20/13
1.0.5	•	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, 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	0	Corrected typo. Removed test case A_E0_0295. Mentioned G0_9005.	2/11/2014 EP, BD
1.0.7	9	Corrections	11/7/2015 JZ
1.1.2	9	Revision incremented	4/25/17 JZ



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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 V1.0.7
- 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
 - o 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)

time (maximum 3 months), please fill out the following section.

- Product picture or logo if applicable
- Web link to product

Name: _____

Signature:

	(Manufacturer) herewith requests that t	he suhmitted product shall not be
posted on the OpenAD submittal).	R Alliance product web page until	(date, max 3 months from

If you would like to postpone posting your product on the OpenADR Alliance website for a period of



Implementation and Supplier Information

Date of Statement	23-APR-19
Product Name	BlueLink Smart Connect
Product Model Number	7205, 7300, 7305, 7320, PRS7325WF, 93257WF
Version Number(s)	System 1.7.0 OpenADR 1.0.1
Non-Default Hardware Configuration	n/a
Non-Default Software Configuration	n/a
Supplier Name, Address, Phone, Email	Braeburn Systems LLC 2215 Cornell Avenue Montgomery Illinois 60538 630.844.1968 info@braeburnonline.com
Contact name, email, phone for questions	Dan Poplawski dpoplawski@braeburnonline.com 630.701.3606



Global Statement of Conformance

Requirement	Support
Are all mandatory capabilities supported for the indicated roles supported by	[x]Yes []No
this implementation?	

Roles

Item	Role	Status	Support
1	VEN - Full Function	0-1	[x]Yes []No
3	VEN - Energy Reporting Only	0-1	[]Yes [x]No
3	VTN	O-1	[]Yes [x]No

⁰⁻¹⁾ 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

ltem	Role	Profile	Status	Support
1	VEN/VTN	"A" Profile	C -1	[]Yes [x]No
2	VEN/VTN	"B" Profile	M	[x]Yes []No

C-1) VTNs must support the A and B Profile

Transports / Exchange Pattern Support

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

Role	Transport	ort Status		
VEN/VTN	SimpleHTTP - Pull	C-1	Support [x]Yes []No	
VEN/VTN	SimpleHTTP - Push	C-1	[]Yes [x]No	
VEN/VTN	XMPP - Push	C-1	[]Yes [x]No	
	VEN/VTN	VEN/VTN SimpleHTTP - Pull VEN/VTN SimpleHTTP - Push	VEN/VTN SimpleHTTP - Pull C-1 VEN/VTN SimpleHTTP - Push C-1	

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

<

C-1) VENs may support ONLY the B profile

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.



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	[x]Yes []No
2	VEN/VTN	EiOpt	C-1	[x]Yes []No
3	VEN/VTN	EiReport	M	[x]Yes []No
4	VEN/VTN	RiRegisterParty	M	[x]Yes []No
5	VEN/VTN	OadrPoll	C-2	[x]Yes []No

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

Security Support

Requirements Reference: Conformance rules 67, 68, and 514

Item	Role	Security	Status	Support
1	VEN	SHA2 Security -TLS 1.2	M	[x]Yes []No
		-Client and server x.509 certs with SHA2 -Alliance RSA or ECC SHA2 Ciphers		
		-SASL_EXTERNAL (XMPP Only)		
2	VTN	SHA2 Security -TLS 1.2	M	[]Yes []No NA
		-Client and server x.509 certs with SHA2 -Alliance RSA and ECC SHA2 Ciphers		
3	VEN/VTN	-SASL_EXTERNAL (XMPP Only if supported) XML Signatures	0	[]Yes [x]No

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



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

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, so these payloads are not mandatory

C-4)VTNs are not required to offer reports, so delivering reports other that metadata is not mandatory



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}}	C-1	[x]Yes []No
		VTN: oadrDistributeEvent {Response Required, baseline}		
		{VEN: oadrCreatedEvent {Opt State}		
		VTN: oadrResponse }		
2	EiOpt	VEN: oadrCreateOpt {Availability schedule}	C-1	[x]Yes []No
		VTN: oadrCreatedOpt		
		VEN: oadrCancelOpt		
		VTN: oadrCanceledOpt		
		VENI codeCrostsOpt (Frant Opt State)		
		VEN: oadrCreateOpt - {Event Opt State} VTN: oadrCreatedOpt		
3	EiRegisterParty	VEN: oadrQueryRegistration	N //	[v]Voc []No
٦	Linegisterrarty	VTN: oadrCreatedPartyRegistration	M	[x]Yes []No
		VEN: oadrCreatePartyRegistration		
		VTN: oadrCreatedPartyRegistration		
		, 0		
		VEN/VTN: oadrCancelPartyRegistration		
		VTN/VEN: oadrCanceledPartyRegistration		
		VTN: oadrRequestReregistration		
		VEN: oadrResponse		
		VEN: oadrCreatePartyRegistration		
		VTN: oadrCreatedPartyRegistration		
4	EiReport	VEN/VTN: oadrRegisterReport	C-3	[x]Yes []No
		VTN/VEN: oadrRegisteredReport (Create Report *)		
		VENIA/TAN and Consta Doublet (Ou on our Doublet)		
		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}		
5	OadrPoll	VEN: oadrPoll	C-2	[x]Yes []No
		VTN: Any payload sent by VTN		

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		М	[x]Yes []No
2	VEN/VTN	ELECTRICITY_PRICE	Price	М	[x]Yes []No
3	VEN/VTN	LOAD_DISPATCH	setpoint	М	[x]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	[x]Yes []No
2	VEN	TELEMETRY_UASGE	М	[x]Yes []No
3	VEN	TELEMETRY_STATUS	М	[x]Yes []No
4	VEN	HISTORY_USAGE	C-1	[]Yes [x]No
5	VTN	METADATA	М	[x]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	[x]Yes []No
2	VTN	C-1	[]Yes []No NA
3	VTN	C-1	[]Yes []No NA
4	VTN	C-1	[]Yes []No NA
5	VTN	C-1	[]Yes []No NA
6	VEN	C-1	[x]Yes []No
8	VTN	C-1	[]Yes []No NA
9	VTN	C-1	[]Yes []No NA
10	VTN	C-1	[]Yes []No NA
12	VEN	C-1	[x]Yes []No
13	VTN	C-1	[]Yes []No NA
14	VTN	C-1	[]Yes []No NA
15	VTN	C-1	[]Yes []No NA
16	VTN	C-1	[]Yes []No NA
17	VTN	C-1	[]Yes []No NA
18	VEN/VTN	C-1	[x]Yes []No
19	VEN	C-1	[x]Yes []No
20	VTN	C-1	[]Yes []No NA
21	VEN/VTN	C-1	[x]Yes []No
22	VEN	C-1	[x]Yes []No
23	VEN/VTN	C-1	[x]Yes []No
25	VTN	C-1	[]Yes []No NA
27	VTN	C-1	[]Yes []No NA
29	VTN	C-1	[]Yes []No NA
30	VEN	C-1	[x]Yes []No
31	VEN	C-1	[x]Yes []No
32	VEN/VTN	C-1	[x]Yes []No
33	VEN/VTN	C-1	[x]Yes []No
35	VEN	C-1	[x]Yes []No
36	VEN	C-1	[x]Yes []No
37	VEN	C-1	[x]Yes []No
38	VTN	C-1	[]Yes []No NA
40	VTN	C-1	[]Yes []No NA
41	VTN	C-1	[]Yes []No NA
42	VEN/VTN	C-1	[x]Yes []No
43	VEN	C-1.	[x]Yes []No
45	VEN/VTN	C-1	[x]Yes []No
46	VEN/VTN	C-1	[x]Yes []No
47	VEN/VTN	C-1	[x]Yes []No
48	VEN/VTN	C-1	[x]Yes []No
50	VTN	C-1	[]Yes []No NA
51	VEN/VTN	C-1	[x]Yes []No
52	VTN	C-1	[]Yes []No NA



(Rule)	ltem	Role	Status	Support
S6	(Rule)			
S7	53	VEN/VTN	C-1	[x]Yes []No
S8	56	VEN	C-1	[x]Yes []No
S9	57	VEN/VTN	C-1	[x]Yes []No
GO	58	VEN	C-1	[x]Yes []No
61 VEN C-1 [X]Yes []No 62 VEN C-1 [X]Yes []No 63 VTN C-1 []Yes []No NA 65 VEN C-1 [X]Yes []No 66 VEN/VTN C-1 [X]Yes []No 67 VEN/VTN C-1 [X]Yes []No 68 VEN/VTN C-1 [X]Yes []No 70 VTN C-1 []Yes []No NA 100 VTN C-1 []Yes []No NA 101 VTN C-1 []Yes []No NA 102 VTN C-1 []Yes []No NA 103 VTN C-1 []Yes []No NA 104 VTN C-1 []Yes []No NA 105 VTN C-1 []Yes []No NA 106 VTN C-1 []Yes []No NA 107 VTN C-1 []Yes []No NA 108 VTN C-1 []Yes []No NA 109 VEN C-1 []Yes []No NA 109 VEN C-1 []Yes []No NA 109 VEN C-1 []Yes []No NA 110 VTN C-1 []Yes []No NA 110 VTN C-1 []Yes []No NA 111 VEN/VTN C-1 []Yes []No NA 112 VEN C-1 []Yes []No NA 113 VTN C-1 []Yes []No NA 114 VEN C-1 []Yes []No NA 115 VTN C-1 []Yes []No 116 VEN/VTN C-1 []Yes []No 117 VEN/VTN C-1 []Yes []No 118 VTN C-1 []Yes []No 119 VEN C-1 []Yes []No 110 VTN C-1 []Yes []No 111 VEN/VTN C-1 []Yes []No 112 VEN C-1 []Yes []No 113 VTN C-1 []Yes []No 114 VEN C-1 []Yes []No 115 VTN C-1 []Yes []No 116 VEN/VTN C-1 []Yes []No 117 VEN/VTN C-1 []Yes []No 118 VTN C-1 []Yes []No 119 VEN/VTN C-1 []Yes []No 110 VEN/VTN C-1 []Yes []No 111 VEN/VTN C-1 []Yes []No 112 VEN C-1 []Yes []No 113 VTN C-1 []Yes []No 114 VEN C-1 []Yes []No 115 VTN C-1 []Yes []No 116 VEN/VTN C-1 []Yes []No 117 VEN/VTN C-1 []Yes []No 118 VEN/VTN C-1 []Yes []No 119 VEN/VTN C-1 []Yes []No 110 VEN/VTN C-1 []Yes []No 111 VEN/VTN C-1 []Yes []No 112 VEN/VTN C-1 []Yes []No 113 VTN C-1 []Yes []No 114 VEN C-1 []Yes []No 115 VTN C-1 []Yes []No 116 VEN/VTN C-1 []Yes []No 117 VEN/VTN C-1 []Yes []No 118 VEN/VTN C-1 []Yes []No 119 VEN/VTN C-1 []Yes []No 110 VEN/VTN M []Yes []No 110 VEN/VT	59	VEN	C-1	[x]Yes []No
G1	60	VEN	C-1	
G2	61	VEN	C-1	
65	62	VEN	C-1	[x]Yes []No
G66	63	VTN	C-1	[]Yes []No NA
67	65	VEN	C-1	[x]Yes []No
67	66	VEN/VTN	C-1	
C-1	67			
100	68	VEN/VTN	C-1	
100	70	VTN		
101	100	VTN	C-1	
102	101			
103	102	VTN	C-1	
104	103	VTN	C-1	
105	104	VTN	C-1	
106	105	VTN	C-1	
107		VTN		
108		VTN		
109	108			
110 VTN C-1 []Yes []No NA 111 VEN/VTN C-1 [x]Yes []No 112 VEN C-1 [x]Yes []No 113 VTN C-1 []Yes []No NA 114 VEN C-1 [x]Yes []No 115 VTN C-1 [yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [yes []No NA 203 VTN C-1 [yes []No NA 204 VEN C-1 [yes []No NA 205 VTN C-1 [yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No <	109			
111 VEN/VTN C-1 [x]Yes []No 112 VEN C-1 [x]Yes []No 113 VTN C-1 [Yes []No NA 114 VEN C-1 [X]Yes []No 115 VTN C-1 [Yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [Yes []No NA 203 VTN C-1 [Yes []No NA 204 VEN C-1 [Yes []No NA 205 VTN C-1 [Yes []No NA 206 VEN/VTN C-1 [X]Yes []No 207 VEN/VTN C-1 [X]Yes []No 208 VEN C-1 [X]Yes []No 209 VEN/VTN C-1 [X]Yes []No 210 VEN/VTN C-1 [X]Yes []No 300 VEN/VTN M [X]Yes []No <t< td=""><td></td><td></td><td></td><td></td></t<>				
112 VEN C-1 [x]Yes []No 113 VTN C-1 []Yes []No NA 114 VEN C-1 [x]Yes []No 115 VTN C-1 [x]Yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No NA 203 VTN C-1 [x]Yes []No NA 204 VEN C-1 [x]Yes []No NA 205 VTN C-1 [x]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No				
113 VTN C-1 []Yes []No NA 114 VEN C-1 [x]Yes []No 115 VTN C-1 []Yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No NA 203 VTN C-1 [x]Yes []No NA 204 VEN C-1 [x]Yes []No NA 205 VTN C-1 [x]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No NA 207 VEN/VTN C-1 [x]Yes []No NA 208 VEN/VTN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN M [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No </td <td></td> <td></td> <td></td> <td> </td>				
114 VEN C-1 [x]Yes []No 115 VTN C-1 []Yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No NA 203 VTN C-1 [x]Yes []No NA 204 VEN C-1 [x]Yes []No NA 205 VTN C-1 [x]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No NA 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No	113			
115 VTN C-1 []Yes []No NA 116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No NA 203 VTN C-1 [y]Yes []No NA 204 VEN C-1 [y]Yes []No NA 205 VTN C-1 [y]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN M [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No	114	·		
116 VEN/VTN C-1 [x]Yes []No 200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No 203 VTN C-1 [y]Yes []No NA 204 VEN C-1 [x]Yes []No 205 VTN C-1 [y]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN M [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No	115	VTN		
200 VEN/VTN C-1 [x]Yes []No 201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No 203 VTN C-1 []Yes []No NA 204 VEN C-1 [x]Yes []No 205 VTN C-1 [y]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No <	116	VEN/VTN		
201 VEN/VTN C-1 [x]Yes []No 202 VEN C-1 [x]Yes []No 203 VTN C-1 []Yes []No NA 204 VEN C-1 [x]Yes []No 205 VTN C-1 [y]Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No	200		C-1	
202 VEN C-1 [x]Yes []No 203 VTN C-1 []Yes []No NA 204 VEN C-1 [x]Yes []No 205 VTN C-1 [yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No				
203 VTN C-1 []Yes []No NA 204 VEN C-1 [x]Yes []No 205 VTN C-1 []Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No	202			
204 VEN C-1 [x]Yes []No 205 VTN C-1 []Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	203	VTN	C-1	
205 VTN C-1 []Yes []No NA 206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No		VEN	C-1	
206 VEN/VTN C-1 [x]Yes []No 207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	205	VTN		
207 VEN/VTN C-1 [x]Yes []No 208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	206	VEN/VTN	C-1	
208 VEN C-1 [x]Yes []No 209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	207			
209 VEN/VTN C-1 [x]Yes []No 210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No				
210 VEN/VTN C-1 [x]Yes []No 211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No				
211 VEN/VTN C-1 [x]Yes []No 300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No				
300 VEN/VTN M [x]Yes []No 301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	211		·····	
301 VEN/VTN M [x]Yes []No 302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	300			
302 VEN/VTN M [x]Yes []No 303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No				
303 VEN/VTN M [x]Yes []No 304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No			M	
304 VEN/VTN M [x]Yes []No 305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No	303	·	M	
305 VEN/VTN M [x]Yes []No 306 VEN/VTN M [x]Yes []No			M	
306 VEN/VTN M [x]Yes []No		VEN/VTN	M	
	306			
SOV VENYVIN IVI IXITES INO	307	VEN/VTN	M	[x]Yes []No
308 VEN/VTN M [x]Yes []No			M	
309 VEN/VTN M [x]Yes []No				



Item	Role	Status	Support
(Rule)	1 1 30 4 4	gallig og grad et e	. '
311	VEN/VTN	M	[x]Yes []No
312	VEN/VTN	M	[x]Yes []No
313	VEN/VTN	M	[x]Yes []No
314	VEN/VTN	M	[x]Yes []No
315	VEN/VTN	M	[x]Yes []No
316	VEN/VTN	M	[x]Yes []No
317	VEN/VTN	M	[x]Yes []No
318	VEN/VTN	M	[x]Yes []No
319	VEN/VTN	М	[x]Yes []No
321	VEN/VTN	M	[x]Yes []No
322	VEN/VTN	М	[x]Yes []No
324	VEN/VTN	М	[x]Yes []No
325	VEN/VTN	М	[x]Yes []No
327	VEN/VTN	М	[x]Yes []No
328	VEN/VTN	М	[x]Yes []No
329	VEN/VTN	М	[x]Yes []No
330	VEN/VTN	М	[x]Yes []No
331	VEN/VTN	М	[x]Yes []No
333	VEN/VTN	M	[x]Yes []No
334	VEN/VTN	M	[x]Yes []No
335	VEN/VTN	M	[x]Yes []No
336	VEN/VTN	M	[x]Yes []No
337	VEN/VTN	M	[x]Yes []No
338	VEN/VTN	M	[x]Yes []No
339	VEN/VTN	M	[x]Yes []No
340	VEN/VTN	M	[x]Yes []No
341	VEN/VTN	M	[x]Yes []No
342	VEN/VTN	M	[x]Yes []No
343	VEN/VTN	M	[x]Yes []No
344	VEN/VTN	0	[]Yes [x]No
345	VEN/VTN	M	[x]Yes []No
346	VEN/VTN	M	[x]Yes []No
400	VEN/VTN	M	[x]Yes []No
401	VEN/VTN	M	[x]Yes []No
401	VEN/VTN	M	[x]Yes []No
403	VEN/VTN	M	[x]Yes []No
404	VEN/VTN	M	[x]Yes []No
405	VEN/VTN	M	[x]Yes []No
406	VEN/VTN	M	[x]Yes []No
407	VEN/VTN	M	[x]Yes []No
		C-2	
500	VEN/VTN VEN/VTN	·	[x]Yes []No
501		C-2	[x]Yes []No
502	VEN/VTN	C-2	[x]Yes []No
506	VEN/VTN	M	[x]Yes []No
507	VEN/VTN	M	[x]Yes []No
508	VENACEN	M	[x]Yes []No
509	VEN/VTN	M	[x]Yes []No
510	VEN/VTN	M	[x]Yes []No
511	VEN/VTN	M	[x]Yes []No
512	VEN/VTN	M	[x]Yes []No
514	VEN/VTN	0	[]Yes [x]No
515	VEN/VTN	M	[x]Yes []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	Supp	
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.	[x]Yes	[]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?	[x]Yes	[]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?	[x]Yes	[]No
4	Does the implementation being submitted for certification have pre-installed x.509 certificates from the OpenADR/NetworkFX portal?	[x]Yes	[]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	[x]Yes	[]No
6	Does the VTN being submitted for certification have the XMPP Server per-configured for the user name of 11111111111 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	[]Yes	[x]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	[]Yes	[x]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.	Http pull is supported
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 G0_9005_TH_xxx/G0_9010_TH_xxx security test being mandatory as part of the test cases run.	Not supported
3	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. _R1_3130_TH_VTN _R0_8130_TH_VTN _R1_3140_TH_VTN _R0_8140_TH_VTN	Not supported
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.	Not supported
5	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: R1_3080_TH_VEN R1_3090_TH_VEN R1_3100_TH_VEN R1_3120_TH_VEN R1_8080_TH_VEN R1_8090_TH_VEN R1_8090_TH_VEN R1_8120_TH_VEN	Not supported
6	If the VTN cannot send an Empty oadrDisributeEvent skip test case EO 6010 TH VEN	Not supported
7	If the VTN cannot be configured to set oadrResponseRequired to never skip test cases A_E2_0468, A_E2_0480, A_E2_0498,	Not supported



	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	Suported
	15th VTN A F2 0F27	Not compared
9	If the VTN cannot set a ramp up period skip test cases A_E2_0527 and A_E3_0527	Not supported
10	If the VTN cannot configure multiple intervals in an event skip test case A_E2_0432 and A_E3_0432	Not supported
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	Not supported
12	If the VTN does not support configuration of eiTarget subelements, skip test case A_E3_0435 and A_E2_0435.	Not supported
13	If the VTN does not support configuration of randomization with a startafter element skip test cases A_E2_0685 and A_E3_0685.	Not supported
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.	Not supported
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.	Not supported
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.	Not supported