

OpenADR 2.0b

Protocol Implementation Conformance Statement (PICS)

Version 1.0.6 Valid for Certification as of September 10, 2013

Manufacturer:	Olivine, Inc.
Product Type:	VTN
Product Name:	Olivine DER OpenADR Module
Firmware Revision:	1.0
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: Olivine, Inc.
Representative Name and Title: Pandelis Tiritas, Director of Platform Services
Signature:
Date:February 23, 2015



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	 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_1and R0_8120_TH_VTN. 	09/09/13
1.0.6	 Corrected typo. Removed test case A_E0_0295. Mentioned G0_9005. 	2/11/2014 EP, BD



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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 1.0
- OpenADR 2.0b Test Spec V1.0.6
- 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
 - o 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 1.0.



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 posted on the OpenADR Alliance product web page until	•
submittal).	
Name:	
Signature:	



Implementation and Supplier Information

Date of Statement	2/11/2015
Product Name	Olivine DER OpenADR Module
Product Model Number	N/A
Version Number(s)	1.0
Non-Default Hardware Configuration	N/A
Non-Default Software Configuration	N/A
Supplier Name,	Olivine, Inc.
Address, Phone, Email	2010 Crow Canyon Place Suite 100
	San Ramon CA 94583
	Phone: 1-888-717-3331
Contact name, email,	Pandelis Tiritas
phone for questions	ptiritas@olivineinc.com
	510-200-8855



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	[]Yes [x]No
3	VEN - Energy Reporting Only	0-1	[]Yes [x]No
3	VTN	0-1	[x]Yes []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

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

C-1) VTNs must support the A

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	[x]Yes []No	
2	VEN/VTN	SimpleHTTP - Push	C-1	[x]Yes []No	
3	VEN/VTN	XMPP - Push	C-1	[x]Yes []No	

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 Services. Not supported by Report Only VENs.

Security Support

Requirements Reference: Conformance rules 67, 68, and 514

Item	Role	Security	Status	Support	
1	VEN	SHA1 Security -TLS 1.0, 1.1 -Client and server x.509 certs with SHA1 -Alliance RSA or ECC SHA1 Ciphers -SASL_EXTERNAL (XMPP Only)	C-1	[]Yes	[x]No
2	VTN	SHA1 Security -TLS 1.0, 1.1 -Client and server x.509 certs with SHA1 -Alliance RSA and ECC SHA1 Ciphers -SASL_EXTERNAL (XMPP Only)	C-1	[]Yes	[x]No
3	VEN	SHA2 Security -TLS 1.2 -Client and server x.509 certs with SHA2 -Alliance RSA or ECC SHA2 Ciphers -SASL_EXTERNAL (XMPP Only)	C-2	[]Yes	[x]No
4	VTN	SHA2 Security -TLS 1.2 -Client and server x.509 certs with SHA2 -Alliance RSA and ECC SHA2 Ciphers -SASL_EXTERNAL (XMPP Only)	C-2	[x]Yes	[]No
5	VEN/VTN	XML Signatures	0	[]Yes	[x]No

C-1) Support for these options is prohibited past an Alliance-defined grace period.

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

C-2) Support for these options is mandatory past an Alliance-defined grace period. Select option appropriate to role, mark other as N/A.



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



Operational Sequence Support

The table below demonstrates the operational sequences and the conditional behavior for each of the services. The VEN oadrPoll interaction pattern and push HTTP acknowledgement (empty payload) of oadrDistributeEvent are 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	Supp	ort
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			
		VEN: oadrCreateOpt - {Event Opt State}			
		VTN: oadrCreatedOpt		5.75	
3	EiRegisterParty	VEN: oadrQueryRegistration	M	[x]Yes	[]No
		VTN: oadrCreatedPartyRegistration			
		VEN: oadrCreatePartyRegistration			
		VTN: oadrCreatedPartyRegistration			
		VEN A/This codyConcelDoytyDogistration			
		VEN/VTN: oadrCancelPartyRegistration VTN/VEN: oadrCanceledPartyRegistration			
		VIN/VEN. Oddi Caliceled Party Registration			
		VTN: oadrRequestReregistration			
		VEN: oadrResponse			
		VEN: oadrNcsponse VEN: oadrCreatePartyRegistration			
		VTN: oadrCreatedPartyRegistration			
4	EiReport	VEN/VTN: oadrRegisterReport	C-3	[x]Yes	[]No
-	Lineport	VTN/VEN: oadrRegisteredReport (Create Report *)	0 3	[X]TCS	[]110
		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. All other payload interactions shown are mandatory.



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	t
1	VEN/VTN	SIMPLE		M	[x]Yes]No
2	VEN/VTN	ELECTRICITY_PRICE	Price	М	[x]Yes]No
3	VEN/VTN	LOAD_DISPATCH	setpoint	М	[x]Yes]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	[]Yes [x]No
2	VEN	TELEMETRY_UASGE	M	[]Yes [x]No
3	VEN	TELEMETRY_STATUS	М	[]Yes [x]No
4	VEN	HISTORY_USAGE	C-1	[]Yes [x]No
5	VTN	METADATA	M	[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 Role Status	Support
1 V/TN C 1	
I T I VIN I C-I	[x]Yes []No
2 VTN C-1	[x]Yes []No
3 VTN C-1	[x]Yes []No
4 VTN C-1	[x]Yes []No
5 VTN C-1	[x]Yes []No
6 VEN C-1	[]Yes [x]No
8 VTN C-1	[x]Yes []No
9 VTN C-1	[x]Yes []No
10 VTN C-1	[x]Yes []No
12 VEN C-1	[]Yes [x]No
13 VTN C-1	[x]Yes []No
14 VTN C-1	[x]Yes []No
15 VTN C-1	[x]Yes []No
16 VTN C-1	[x]Yes []No
17 VTN C-1	[x]Yes []No
18 VEN/VTN C-1	[x]Yes []No
19 VEN C-1	[]Yes [x]No
20 VTN C-1	[x]Yes []No
21 VEN/VTN C-1	[x]Yes []No
22 VEN C-1	[]Yes [x]No
23 VEN/VTN C-1	[x]Yes []No
25 VTN C-1	[x]Yes []No
27 VTN C-1	[x]Yes []No
29 VTN C-1	[x]Yes []No
30 VEN C-1	[]Yes [x]No
31 VEN C-1	[]Yes [x]No
32 VEN/VTN C-1	[x]Yes []No
33 VEN/VTN C-1	[x]Yes []No
35 VEN C-1	[]Yes [x]No
36 VEN C-1	[]Yes [x]No
37 VEN C-1	[]Yes [x]No
38 VTN C-1	[x]Yes []No
40 VTN C-1	[x]Yes []No
41 VTN C-1	[x]Yes []No
42 VEN/VTN C-1	[x]Yes []No
43 VEN C-1	[]Yes [x]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	[x]Yes []No
51 VEN/VTN C-1	[x]Yes []No
52 VTN C-1	[x]Yes []No



Item (Rule)	Role	Status	Support
53	VEN/VTN	C-1	[x]Yes []No
56	VEN	C-1	[]Yes [x]No
57	VEN/VTN	C-1	[x]Yes []No
58	VEN	C-1	[]Yes [x]No
59	VEN	C-1	[]Yes [x]No
60	VEN	C-1	[]Yes [x]No
61	VEN	C-1	[]Yes [x]No
62	VEN	C-1	[]Yes [x]No
63	VTN	C-1	[x]Yes []No
65	VEN	C-1	[]Yes [x]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
100	VTN	C-1	[x]Yes []No
101	VTN	C-1	[x]Yes []No
102	VTN	C-1	[x]Yes []No
103	VTN	C-1	[x]Yes []No
104	VTN	C-1	[x]Yes []No
105	VTN	C-1	[x]Yes []No
106	VTN	C-1	[x]Yes []No
107	VTN	C-1	[x]Yes []No
108	VTN	C-1	[x]Yes []No
109	VEN	C-1	[]Yes [x]No
110	VTN	C-1	[x]Yes []No
111	VEN/VTN	C-1	[x]Yes []No
112	VEN	C-1	[]Yes [x]No
113	VTN	C-1	[x]Yes []No
114	VEN	C-1	[]Yes [x]No
115	VTN	C-1	[x]Yes []No
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 [x]No
203	VTN	C-1	[x]Yes []No
204	VEN	C-1	[]Yes [x]No
205	VTN	C-1	[x]Yes []No
206	VEN/VTN	C-1	[x]Yes []No
207	VEN/VTN	C-1	[x]Yes []No
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	C-1	[x]Yes []No
300	VEN/VTN	М	[x]Yes []No
301	VEN/VTN	М	[x]Yes []No
302	VEN/VTN	М	[x]Yes []No
303	VEN/VTN	М	[x]Yes []No
304	VEN/VTN	М	[x]Yes []No
305	VEN/VTN	М	[x]Yes []No
306	VEN/VTN	М	[x]Yes []No
307	VEN/VTN	M	[x]Yes []No
308	VEN/VTN	М	[x]Yes []No
309	VEN/VTN	М	[x]Yes []No



311	Item (Rule)	Role	Status	Support
312 VEN/VTN		VEN/VTN	M	[x]Yes []No
313 VEN/VTN M K Yes INO	312	·	М	
314	313	•	М	
315	314		М	
316	315	VEN/VTN	М	
317 VEN/VTN M X Yes No 318 VEN/VTN M X Yes No 319 VEN/VTN M X Yes No 321 VEN/VTN M X Yes No 322 VEN/VTN M X Yes No 322 VEN/VTN M X Yes No 324 VEN/VTN M X Yes No 325 VEN/VTN M X Yes No 327 VEN/VTN M X Yes No 328 VEN/VTN M X Yes No 329 VEN/VTN M X Yes No 330 VEN/VTN M X Yes No 331 VEN/VTN M X Yes No 331 VEN/VTN M 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 339 VEN/VTN M X Yes No 340 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 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 M X Yes No 345 VEN/VTN M X Yes No 346 VEN/VTN M X Yes No 347 VEN/VTN M X Yes No 348 VEN/VTN M X Yes No 349 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 M X Yes No 345 VEN/VTN M X Yes No 400 VEN/VTN M X Yes No 401 VEN/VTN M X Yes No 402 VEN/VTN M X Yes No 403 VEN/VTN M X Yes No 404 VEN/VTN M X Yes No 505 VEN/VTN M X Yes No 506 VEN/VTN M X Yes No 507 VEN/VTN M X Yes No 508 VEN 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 513 VEN/VTN M X Yes No 514 VEN/VTN O XEN/VTN No 515 VEN/VTN		1.	M	
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339				
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 400 VEN/VTN M [x]Yes []No 401 VEN/VTN M [x]Yes []No 402 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 500 VEN/VTN C-2 [x]Yes []No 501 VEN/VTN C-2 [x]Yes []No 502 VEN/VTN C-2 [x]Yes []No 506 VEN/VTN M [x]Yes []No 509 VEN/VTN M [x				
341 VEN/VTN M [x]Yes []No 342 VEN/VTN M [x]Yes []No 343 VEN/VTN M [x]Yes []No 400 VEN/VTN M [x]Yes []No 401 VEN/VTN M [x]Yes []No 402 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 500 VEN/VTN M [x]Yes []No 501 VEN/VTN 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 VEN M [x]Yes </td <td></td> <td></td> <td></td> <td></td>				
342 VEN/VTN M [x]Yes []No 343 VEN/VTN M [x]Yes []No 400 VEN/VTN M [x]Yes []No 401 VEN/VTN M [x]Yes []No 402 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 500 VEN/VTN C-2 [x]Yes []No 501 VEN/VTN 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 VEN M [x]Yes		· ·		
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508 VEN M []Yes [x]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 O []Yes [x]No		-		
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514 VEN/VTN O []Yes [x]No		T.		
		· ·		
	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	[]Yes	[x]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	[x]Yes	[]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.

	t cases may be skipped if the criterion noted is met.
Item	Criteria
1	Implementations will support either a push 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 model should be run on the implementation.
	Supported If the involve antition appropriate moultiple transport and evaluations model.
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_xx_xxx/G0_9010_xx_xxx security test being
	mandatory as part of the test cases run.
2	Supported Test cases P2, 2120, TH, VTN, and P2, 2140, TH, VTN, may be skinned if
3	Test cases R?_?130_TH_VTN and R?_?140_TH_VTN may be skipped if
	HISTORY_USAGE reporting is not supported by a full function VEN. However, Report Only VENs must pass these test cases.
	·
4	N/A (VTN) If the implementation is a Benert Only VEN, then all of the tests under the
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
	supported.
	• •
5	N/A (VTN) 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:
	cases may be skipped.
	R1_3080_TH_VEN: Not supported
	R1_8080_TH_VEN: Not supported
	R1_3090_TH_VEN: Not supported
	R1_8090_TH_VEN: Not supported
	R1_3100_TH_VEN: Not supported
	R1_8100_TH_VEN: Not supported
	R1_3120_TH_VEN: Not supported
	R1_8120_TH_VEN: Not supported
6	If the VEN cannot send an Empty oadrDisributeEvent skip test case A_E0_0020
	N/A (VTN)
7	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
	Supported
8	If VEN cannot be configure with multiple Market Context, skip test case
	A_E1_0285 and A_E0_0285
	N/A (VTN)
9	If the implementation cannot resend an unchanged payload, the test case
	A_E3_0680 can be skipped.



Supported

10	If the VTN cannot set a ramp up period skip test cases A_E2_0527 and
	A_E3_0527
	Not supported
11	If the VTN cannot configure multiple intervals in an event skip test case
	A_E2_0432 and A_E3_0432
	Supported
12	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
	Supported
13	If the VTN does not support configuration of eiTarget subelements, skip test
	case A_E3_0435 and A_E2_0435.
	Supported
14	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
15	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.
	N/A (VTN)
16	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,
	RO_8050_TH_VEN_1, R1_3060_TH_VEN, R0_8060_TH_VEN,
	R1_3120_TH_VTN_1 and R0_8120_TH_VTN.
	Not supported