

## OpenADR 2.0b

# Protocol Implementation Conformance Statement (PICS)

## Version 1.0.5 Valid for Certification as of September 10, 2013

Manufacturer:	Plimoth Bay Controls
Product Type:	Firmware Pack
Product Name:	PBC OpenADR Operating Engine
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: Plimoth Bay Controls, LLC
Representative Name and Title: <u>James J. Killion, Director of Product Integration</u>
Signature:

Date: June 9, 2014



## **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.	09/09/13
		A_E2_0435, A_E3_0435, A_E2_0685, A_E3_0685, R1_3070_TH_VTN_1,	
		RO_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,	
		RO_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,	
		RO_8060_TH_VEN, R1_3120_TH_VTN_1and R0_8120_TH_VTN.	



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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 V1.0.0
- 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.

<u>Plimoth Bay Controls, LLC</u> (Manufacturer) herewith requests that the submitted product shall not be posted on the OpenADR Alliance product web page until <u>July 7, 2014</u> (date, max 3 months from submittal).

Name: James J. Killion

Signature:



## **Implementation and Supplier Information**

Date of Statement	06/01/2014	
Product Name	PBC OpenADR Operating Engine	
Product Model Number	(Controller Model Number)-VEN	
Version Number(s)	1.0	
Non-Default Hardware Configuration	None	
Non-Default Software Configuration	<ul> <li>A. Assignment of an device IP Address, NETMASK, Gateway and DNS Address</li> <li>B. URL or IP Address assignment for applicable VTN</li> <li>C. Security Type Assignment <ol> <li>HTML BASIC Unsecured</li> <li>HTML SHA1</li> <li>HTML SHA256</li> </ol> </li> </ul>	
Supplier Name, Address, Phone, Email	Plimoth Bay Controls 130 Camelot Drive, Unit #8 Plymouth, MA 02360  Phone: (508) 728-2583 (508) 559-3117	
Contact name, email, phone for questions	Jim Dellamorte jim@delresearch.com (508) 737-5100	



#### **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	0-1	[ ]Yes [X]No

<sup>0-1)</sup> 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	[ ]Yes [X]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	[ ]Yes [X]No
3	VEN/VTN	XMPP - Push	C-1	[ ]Yes [X]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	М	[X]Yes [ ]No
4	VEN/VTN	RiRegisterParty	М	[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	Sup	port
1	VEN	SHA1 Security -TLS 1.0, 1.1 -Client and server x.509 certs with SHA1 -Alliance RSA <b>or</b> ECC SHA1 Ciphers -SASL EXTERNAL (XMPP Only)	C-1	[X]Yes	[ ]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	[X]Yes	[]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	[]Yes	[X]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	[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	[X]Yes [ ]No
7	VEN	oadrQueryRegistration	М	[X]Yes [ ]No
8	VEN	oadrCreatePartyRegistration	М	[X]Yes [ ]No
9	VEN/VTN	oadrResponse	М	[X]Yes [ ]No
10	VEN/VTN	oadrCancelPartyRegistration	М	[X]Yes [ ]No
11	VEN/VTN	oadrCanceledPartyRegistration	М	[X]Yes [ ]No
12	VEN/VTN	oadrRegisterReport	М	[X]Yes [ ]No
13	VEN/VTN	oadrRegisteredReport	М	[X]Yes [ ]No
14	VEN/VTN	oadrCreateReport	М	[X]Yes [ ]No
15	VEN/VTN	oadrCreatedReport	М	[X]Yes [ ]No
16	VEN/VTN	oadrUpdateReport	М	[X]Yes [ ]No
17	VEN/VTN	oadrUpdatedReport	М	[X]Yes [ ]No
18	VEN/VTN	oadrCancelReport	М	[X]Yes [ ]No
19	VEN/VTN	oadrCanceledReport	М	[X]Yes [ ]No
20	VTN	oadrCreatedOpt	C-2	[X]Yes [ ]No
21	VTN	oadrDistributeEvent	C-2	[X]Yes [ ]No
22	VTN	oadrCreatedPartyRegistration	М	[X]Yes [ ]No
23	VTN	oadrRequestReregistration	М	[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: oadrOrsetadEvent {Response Required, baseline}			
		{VEN: oadrCreatedEvent {Opt State}			
2	FiOnt	VTN: oadrResponse }	C 1	[V]Vos	[ ]NI o
2	EiOpt	VEN: oadrCreateOpt {Availability schedule} VTN: oadrCreatedOpt	C-1	[X]Yes	[ ]No
		viv. dau cleatedopt			
		VEN: oadrCancelOpt			
		VTN: oadrCanceledOpt			
		VEN: oadrCreateOpt - {Event Opt State}			
		VTN: oadrCreatedOpt			
3	EiRegisterParty	VEN: oadrQueryRegistration	М	[X]Yes	[]No
		VTN: oadrCreatedPartyRegistration			
		VEN: oadrCreatePartyRegistration			
		VTN: oadrCreatedPartyRegistration			
		VEN/VTN: oadrCancelPartyRegistration			
		VTN/VEN: oadrCanceledPartyRegistration			
		VTN: oadrRequestReregistration			
		VEN: oadrResponse			
		VEN: oadrCreatePartyRegistration VTN: oadrCreatedPartyRegistration			
4	EiReport	VEN/VTN: oadrRegisterReport	C-3	[X]Yes	[]No
-	Lineport	VTN/VEN: oadrRegisteredReport (Create Report *)	C-5	[A]Tes	[][[0]
		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	Suppo	rt
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

<sup>1)</sup> 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	[X]Yes [ ]No
2	VEN	TELEMETRY_UASGE	M	[X]Yes [ ]No
3	VEN	TELEMETRY_STATUS	M	[X]Yes [ ]No
4	VEN	HISTORY_USAGE	C-1	[]Yes [X]No
5	VTN	METADATA	M	[]Yes [X]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	VTN	C-1	[]Yes [X]No
2	VTN	C-1	[]Yes [X]No
3	VTN	C-1	[]Yes [X]No
4	VTN	C-1	[]Yes [X]No
5	VTN	C-1	[]Yes [X]No
6	VEN	C-1	[X]Yes [ ]No
8	VTN	C-1	[]Yes [X]No
9	VTN	C-1	[]Yes [X]No
10	VTN	C-1	[]Yes [X]No
12	VEN	C-1	[X]Yes [ ]No
13	VTN	C-1	[]Yes [X]No
14	VTN	C-1	[]Yes [X]No
15	VTN	C-1	[]Yes [X]No
16	VTN	C-1	[]Yes [X]No
17	VTN	C-1	[]Yes [X]No
18	VEN/VTN	C-1	[X]Yes [ ]No
19	VEN	C-1	[X]Yes [ ]No
20	VTN	C-1	[]Yes [X]No
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 [X]No
27	VTN	C-1	[]Yes [X]No
29	VTN	C-1	[]Yes [X]No
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 [X]No
40	VTN	C-1	[]Yes [X]No
41	VTN	C-1	[]Yes [X]No
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 [X]No
51	VEN/VTN	C-1	[X]Yes [ ]No
52	VTN	C-1	[]Yes [X]No



Item (Rule)	Role	Status	Support
53	VEN/VTN	C-1	[X]Yes [ ]No
56	VEN	C-1	[X]Yes []No
57	VEN/VTN	C-1	[X]Yes []No
58	VEN	C-1	[X]Yes []No
59	VEN	C-1	[X]Yes []No
60	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 [X]No
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
100	VTN	C-1	[]Yes [X]No
101	VTN	C-1	[]Yes [X]No
102	VTN	C-1	[]Yes [X]No
103	VTN	C-1	[]Yes [X]No
103	VTN	C-1	
104	VTN	C-1	[ ]Yes [X]No [ ]Yes [X]No
106	VTN	C-1	
		C-1	
107	VTN		[]Yes [X]No
108	VTN	C-1	[]Yes [X]No
109	VEN	C-1	[X]Yes []No
110	VTN	C-1	[]Yes [X]No
111	VEN/VTN	C-1	[X]Yes []No
112	VEN	C-1	[X]Yes [ ]No
113	VTN	C-1	[]Yes [X]No
114	VEN	C-1	[X]Yes [ ]No
115	VTN	C-1	[]Yes [X]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	[X]Yes [ ]No
203	VTN	C-1	[]Yes [X]No
204	VEN	C-1	[X]Yes []No
205	VTN	C-1	[]Yes [X]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	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	М	[X]Yes [ ]No
307	VEN/VTN	М	[X]Yes [ ]No
308	VEN/VTN	М	[X]Yes [ ]No
309	VEN/VTN	М	[X]Yes [ ]No



Item (Rule)	Role	Status	Support
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	M	[X]Yes []No
321	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	
329		M	
330	VEN/VTN VEN/VTN	M	[X]Yes [ ]No [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
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
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	VENIATA	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	[]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	[]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 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.
	PULL MODE 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_xx_xxx/G0_9010_xx_xxx security test being
	mandatory as part of the test cases run.
	THE IMPLEMENTATION SUPPORTS ONLY PULL CONFIGURATION
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	THESE TESTS ARE SKIPPED-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
	supported.  THE VEN IS NOT A REPORT-ONLY VEN. THESE TESTS ARE NOT SKIPPED-
	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_8080_TH_VEN
	R1_3090_TH_VEN
	R1 8090 TH VEN
	R1_3100_TH_VEN
	R1_8100_TH_VEN
	R1_3120_TH_VEN
	R1_8120_TH_VEN
	N/A THIS IS A VEN IMPLEMENTATION-NOT SUPPORTED
6	If the VEN cannot send an Empty oadrDisributeEvent skip test case A_E0_0020
	THE VEN CAN SEND THIS IF INITIATED BY USER THROUGH WEB UI



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
	NOT APPLICABLE-NOT SUPPORTED
8	If VEN cannot be configure with multiple Market Context, skip test case
	A_E1_0285 and A_E0_0285
	NOT SKIPPED-SUPPORTED
9	If the implementation cannot resend an unchanged payload, the test case
	A_E3_0680 can be skipped.
	NOT APPLICABLE-NOT SUPPORTED

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