

OpenADR 2.0b Protocol Implementation Conformance Statement (PICS)

Version 1.1.6 Valid for Certification as of March 2, 2019

Manufacturer:	Epic Charging
Product Type:	Software Gateway
Product Name:	Epic Charging OpenADR VEN
Firmware Revision:	2023.04
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:_Epic Charging_

Representative Name and Title: _Andrey Konchenko_Head of Product

Signature: Andrey Konchenko

Date: 2023 04 24



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
1.0.7	•	Corrections	11/7/2015 JZ
1.1.2	•	Revision incremented	4/25/17 JZ
1.1.3	•	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	•	Changed version to sync with test harness version	9/12/19
1.1.6	•	Align document version with current test harness version	2/5/22



Table of Contents

Revisions:	2
Introduction	4
References	4
Abbreviations and Conventions	4
Instructions for Completing the PICS	5
Documents required for final certification	5
Implementation and Supplier Information	6
Global Statement of Conformance	7
Roles	7
Profile Support	7
Transports /Exchange Pattern Support	7
Service Support	8
Security Support	8
Payload Schema Conformance	9
Operational Sequence Support	10
Standard Event Signal Support	11
Standard Report Support	11
Alliance "B" Profile Detailed Requirements	12
Implementation Capabilities and Configuration	15
Optional Test Case Guidelines	16



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 **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	2023 04 24
Product Name	Software Gateway
Product Model Number	Epic Changing OpenADR VEN
Version Number(s)	1.1
Non-Default Hardware	
Configuration	N/A
Non-Default Software Configuration	N/A
Supplier Name, Address, Phone, Email	Epic Charging, 101 Jefferson Dr, Menlo Park, CA 94025, info@apiccharging.com, +16502506811
Contact name, email, phone for questions	Andrey Konchenko, <u>andrey@epiccharging.com</u> , +16502506811



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	<mark>[X]Yes</mark> []No
3	VEN - Energy Reporting Only	0-1	[]Yes <mark>[X]No</mark>
3	VTN	0-1	[]Yes <mark>[X]No</mark>

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	[]Yes <mark>[X]No</mark>
2	VEN/VTN	"B" Profile	Μ	<mark>[X]Yes</mark> []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	<mark>[X]Yes</mark> []No
2	VEN/VTN	SimpleHTTP - Push	C-1	[]Yes <mark>[</mark> X]No
3	VEN/VTN	XMPP - Push	C-1	[]Yes <mark>[X]No</mark>

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.



Service Support

Item	Role	Service	Status	Support
1	VEN/VTN	EiEvent	C-1	<mark>[X]Yes</mark> []No
2	VEN/VTN	EiOpt	C-1	<mark>[X]Yes</mark> []No
3	VEN/VTN	EiReport	М	<mark>[X]Yes</mark> []No
4	VEN/VTN	RiRegisterParty	Μ	[X]Yes []No
5	VEN/VTN	OadrPoll	C-2	<mark>[X]Yes</mark> []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	М	<mark>[X]Yes</mark> []No
		-TLS 1.2		
		-Client and server x.509 certs with SHA2		
		-Alliance RSA or ECC SHA2 Ciphers		
		-SASL_EXTERNAL (XMPP Only)		
2	VTN	SHA2 Security	М	[]Yes <mark>[X]No</mark>
		-TLS 1.2		
		-Client and server x.509 certs with SHA2		
		-Alliance RSA and ECC SHA2 Ciphers		
		-SASL_EXTERNAL (XMPP Only if supported)		
3	VEN/VTN	XML Signatures	0	[]Yes <mark>[X]No</mark>



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	<mark>[x]Yes</mark>
2	VEN	oadrRequestEvent	C-2	<mark>[x]Yes</mark>
3	VEN	oadrCreatedEvent	C-2	<mark>[x]Yes</mark>
4	VEN	oadrCreateOpt	C-2	<mark>[x]Yes</mark>
5	VEN	oadrCancelOpt	C-2	<mark>[x]Yes</mark>
6	VTN	oadrCanceledOpt	C-2	[]No
7	VEN	oadrQueryRegistration	М	<mark>[x]Yes</mark>
8	VEN	oadrCreatePartyRegistration	М	<mark>[x]Yes</mark>
9	VEN/VTN	oadrResponse	М	<mark>[x]Yes</mark>
10	VEN/VTN	oadrCancelPartyRegistration	М	<mark>[x]Yes</mark>
11	VEN/VTN	oadrCanceledPartyRegistration	М	<mark>[x]Yes</mark>
12	VEN/VTN	oadrRegisterReport	М	<mark>[x]Yes</mark>
13	VEN/VTN	oadrRegisteredReport	М	<mark>[x]Yes</mark>
14	VEN/VTN	oadrCreateReport	C-3	<mark>[x]Yes</mark>
15	VEN/VTN	oadrCreatedReport	М	<mark>[x]Yes</mark>
16	VEN/VTN	oadrUpdateReport	C-4	<mark>[x]Yes</mark>
17	VEN/VTN	oadrUpdatedReport	C-3	<mark>[x]Yes</mark>
18	VEN/VTN	oadrCancelReport	C-3	<mark>[x]Yes</mark>
19	VEN/VTN	oadrCanceledReport	М	<mark>[x]Yes</mark>
20	VTN	oadrCreatedOpt	C-2	[]No
21	VTN	oadrDistributeEvent	C-2	[]No
22	VTN	oadrCreatedPartyRegistration	М	[]No
23	VTN	oadrRequestReregistration	М	[]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 that 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}}	C-1	[]Yes
		VTN: oadrDistributeEvent {Response Required, baseline}		
		{VEN: oadrCreatedEvent {Opt State}		
		VTN: oadrResponse }		
2	EiOpt	VEN: oadrCreateOpt {Availability schedule}	C-1	[]Yes
		VTN: oadrCreatedOpt		
		VEN: oadrCancelOpt		
		VTN: oadrCanceledOpt		
		VEN: oadrCreateOpt - {Event Opt State}		
		VTN: oadrCreatedOpt		
3	EiRegisterParty	VEN: oadrQueryRegistration	M	[]Yes
		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	[]Yes
		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}		
5	OadrPoll	VEN: oadrPoll	C-2	[]Yes
		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	[]Yes
2	VEN/VTN	ELECTRICITY_PRICE	Price	М	[]Yes
3	VEN/VTN	LOAD_DISPATCH	setpoint	М	[]Yes

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	М	[]Yes
2	VEN	TELEMETRY_UASGE	М	[]Yes
3	VEN	TELEMETRY_STATUS	М	[]Yes
4	VEN	HISTORY_USAGE	C-1	[]Yes
5	VTN	METADATA	М	[]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.

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

No	ADR
	ALLIANCE

ltem (Rule)	Role	Status	Support
53	VEN/VTN	C-1	[]Yes
56	VEN	C-1	[]Yes
57	VEN/VTN	C-1	[]Yes
58	VEN	C-1	[]Yes
59	VEN	C-1	[]Yes
60	VEN	C-1	[]Yes
61	VEN	C-1	[]Yes
62	VEN	C-1	[]Yes
63	VTN	C-1	[]No
65	VEN	C-1	[]Yes
66	VEN/VTN	C-1	[]Yes
67	VEN/VTN	C-1	[]Yes
68	VEN/VTN	C-1	[]Yes
70	VTN	C-1	[]No
100	VTN	C-1	[]No
100	VTN	C-1	[]No
101	VTN	C-1	[]No
102	VTN	C-1	[]No
104	VTN	C-1	[]No
105	VTN	C-1	[]No
106	VTN	C-1	[]No
107	VTN	C-1	[]No
108	VTN	C-1	[]No
109	VEN	C-1	[]Yes
110	VTN	C-1	[]No
111	VEN/VTN	C-1	[]Yes
112	VEN	C-1	[]Yes
113	VTN	C-1	[]No
114	VEN	C-1	[]Yes
115	VTN	C-1	[]No
116	VEN/VTN	C-1	[]Yes
200	VEN/VTN	C-1	[]Yes
201	VEN/VTN	C-1	[]Yes
202	VEN	C-1	[]Yes
203	VTN	C-1	[]No
204	VEN	C-1	[]Yes
205	VTN	C-1	[]No
206	VEN/VTN	C-1	[]Yes
207	VEN/VTN	C-1	[]Yes
208	VEN	C-1	[]Yes
209	VEN/VTN	C-1	[]Yes
210	VEN/VTN	C-1	[]Yes
211	VEN/VTN	C-1	<mark>[]Yes</mark>
300	VEN/VTN	М	<mark>[]Yes</mark>
301	VEN/VTN	М	<mark>[]Yes</mark>
302	VEN/VTN	М	<mark>[]Yes</mark>
303	VEN/VTN	М	<mark>[]Yes</mark>
304	VEN/VTN	М	<mark>[]Yes</mark>
305	VEN/VTN	М	<mark>[]Yes</mark>
306	VEN/VTN	М	<mark>[]Yes</mark>
307	VEN/VTN	М	<mark>[]Yes</mark>
308	VEN/VTN	М	<mark>[]Yes</mark>
309	VEN/VTN	М	[]Yes



\mathbf{O}	pen						F		R
		A	L	L	۱	A	N	С	E

Item	Role	Status	Support
(Rule)	VEN/VTN	N4	
311 312		M	[]Yes []Yes
312	VEN/VTN VEN/VTN	M M	
313			[]Yes
		M	[]Yes
315		M	[]Yes
316 317		M	[]Yes
317	VEN/VTN VEN/VTN	M M	[]Yes []Yes
318	•	M	
319	VEN/VTN VEN/VTN	M	[]Yes
321	VEN/VTN	M	[]Yes
322		M	[]Yes
324		M	[]Yes
325	VEN/VTN VEN/VTN	M	[]Yes
327			[]Yes
328	VEN/VTN VEN/VTN	M	[]Yes
329		M	[]Yes
330	VEN/VTN VEN/VTN	M	[]Yes []Yes
333			
334	VEN/VTN VEN/VTN	M	[]Yes
335			[]Yes []Yes
335	VEN/VTN VEN/VTN	M	
337		M M	[]Yes
338			[]Yes []Yes
338	VEN/VTN VEN/VTN	M M	[]Yes
340		M	
340		M	[]Yes []Yes
341		M	[]Yes
342	VEN/VTN VEN/VTN	M	[]Yes
343	VEN/VTN	0	[]Yes
344	VEN/VTN	M	[]Yes
345	VEN/VTN	M	[]Yes
400	VEN/VTN	M	[]Yes
400	VEN/VTN	M	[]Yes
401	VEN/VTN	M	[]Yes
402	VEN/VTN	M	[]Yes
403	VEN/VTN	M	[]Yes
404	VEN/VTN	M	[]Yes
405	VEN/VTN	M	[]Yes
400	VEN/VTN	M	[]Yes
500	VEN/VTN	C-2	[]Yes
500	VEN/VTN	C-2	[]Yes
501	VEN/VTN	C-2	[]Yes
502	VEN/VTN	M	[] <u>Yes</u>
507	VEN/VTN	M	[]Yes
508	VEN	M	[]Yes
509	VEN/VTN	M	[]Yes
510	VEN/VTN	M	[]Yes
510	VEN/VTN	M	[]Yes
512	VEN/VTN	M	[]Yes
514	VEN/VTN	0	[]Yes
515	VEN/VTN	M	[]Yes
	uirod for all but Pr		

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.

ltem	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. Supported	[]Yes
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? Supported	[]Yes
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? Not supported	[]No
4	Does the implementation being submitted for certification have pre-installed x.509 certificates from the OpenADR/NetworkFX portal? Supported	[]Yes
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 Supported	[]Yes
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 N/A	[]No
7)	Does the VTN being offered 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 N/A	[]No



Optional Test Case Guidelines Following test cases may be skipped if the criterion noted is met.

Item	est cases may be skipped if the criterion noted is met. 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.
	N/A
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.
	N/A
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.
	N/A
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
	R0_8080_TH_VEN
	R0_8090_TH_VEN
	R0_8100_TH_VEN
	R0_8120_TH_VEN
	N/A
6	If the VTN cannot send an Empty oadrDisributeEvent skip test case
	E0_6010_TH_VEN
	N/A



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
	N/A
8	If VEN cannot be configure with multiple Market Context, skip test case
	A_E1_0285 and A_E0_0285
	Supported

-	
9	If the VTN cannot set a ramp up period skip test cases A_E2_0527 and A_E3_0527 N/A
10	If the VTN cannot configure multiple intervals in an event skip test case A_E2_0432 and A_E3_0432 N/A
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 N/A
12	If the VTN does not support configuration of eiTarget subelements, skip test case A_E3_0435 and A_E2_0435. N/A
13	If the VTN does not support configuration of randomization with a start after 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. 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. 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. Supported