OpenADR 2.0a

Protocol Implementation Conformance Statement (PICS)

Version 1.0.5
Valid for Certification as of February 12, 2014

Manufacturer:	Industrial Technology Research Institute
Product Type:	VTN
Product Name:	ICL-VTN 2.0b Driver
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: Industrial Technology Research Institute

Representative Name and Title: Chun-Shiow Chen, Division Director

Signature: Chun-Shiow Chen

Date: 03-11-2015

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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 provides 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 2.0a implementations should validate against the Energy Interop schemas.

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

References

- OpenADR 2.0a Profile Specification 1.0
- OpenADR 2.0a Test Specification V1.0.5
- OpenADR 2.0a Schema

Abbreviations and Conventions

The PICS information is comprised of 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** – A reference to a specific requirement in the specification
- **Status Column** – Contains notations regarding the requirements
    - M – Mandatory
    - **O** – Optional
    - **n/A** – Not applicable
    - **X** – Prohibited
    - **O-i** – Qualified Optional (mutually exclusive or selectable options from a set identified with the same "I" value)
    - **C-i** –Conditional (status dependent on support of other optional requirements , identified in footnotes at bottom of table with "i" being a reference integer for the footnote(s))
- **Support Column** – Yes or No, or N/A of no answer is required.
- **Values Allowed Column** – Optional column representing set of values allowed
- **Values Supported Column** – Optional column where supplier can indication a set of values supported by the implementation

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 y or n.

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 rational for the exception.

NOTES:

- OpenADR2.0a does NOT have any optional features. However there are payload elements that can be left out of the messages (payloads) -> Optional Payload Elements.
- If an implementation includes a VTN and a VEN interface, EACH interface much be submitted in a separate PICS document.
- All certified products will be posted on the OpenADR Alliance website. A manufacturer can request to delay the web posting for up to 3 months. (see below)

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
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Industrial Technology Research Institute 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: Chun-Shiow Chen

Signature: Chun-Shiow Chen

Implementation and Supplier Information

Date of Statement	2015.
Product Name	ICL-VTN 2.0b Driver
Product Model Number	ICL-VTN 2.0b Driver
Firmware Version	1.0
Non-Default Hardware Configuration (if applicable)	NA
Non-Default Software Configuration (if applicable)	NA
Supplier Name, Address, Phone, Email	Supplier Name: Industrial Technology Research Institute Address: 195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, Taiwan 31040, R.O.C. Phone: 886-3-591-5740 E-Mail: Wenshiang.t@itri.org.tw
Contact name, email, phone for questions	Wenshiang Tang E-Mail: Wenshiang.t@itri.org.tw Phone: 886-3-591-5740

Global Statement of Conformance

Are all mandatory capabilities supported for the indicated roles supported by this implementation? (Must be 'yes' to obtain certification)	[x]Yes [ ]No

Role

Item	Role	Status	Support
1	VEN	O-1	[ ]Yes [x]No
2	VTN	O-1	[x]Yes [ ]No

0-1) Must answer Yes to one Role. A device may be both a VEN and a VTN, however, in this case two PICS documents must be submitted.

Profiles

VTN			VEN		
	Status	**Support**		**Status**	**Support**
"A" Profile	M	[x]Yes [ ]No	"A" Profile	M	[ ]Yes [x]No

Note: Must answer Yes for Roles supported (VEN and/or VTN)

Transports

VTN			VEN		
	Status	**Support**		**Status**	**Support**
Simple HTTP	M	[x]Yes [ ]No	Simple HTTP	M	[ ]Yes [x]No

Note: Must answer Yes for Roles supported (VEN and/or VTN)

Message Exchange Patterns

VTN			VEN		
	Status	**Support**		**Status**	**Support**
Push	M	[x]Yes [ ]No	Push	0-1	[ ]Yes [x]No
Pull	M	[x]Yes [ ]No	Pull	M	[ ]Yes [x]No

0-1) A VEN Implementation must support pull, and can optionally also support push
Note: Must answer Yes for at least one exchange pattern for each Roles supported (VEN and/or VTN)

Core Operation Requirements

Indicate the operation sequences supported.

Item	Service	App Level Exchange Sequence	Reference	Status	Support
1	EiEvent Push	VTN: oadrDistributeEvent VEN: oadrCreatedEvent (2) VTN: oadrResponse		C-1	[x]Yes [ ]No [ ]N/A
2	EiEvent Pull	VEN :oadrRequestEvent VTN: oadrDistributeEvent VEN: oadrCreatedEvent (2) VTN:oadrResponse		C-1	[x]Yes [ ]No [ ]N/A

1) Push implementations must support items 1. Pull implementations must support item 2.
2)The oadrCreatedEvent application layer response is conditional based upon the state of the oadrResponseRequired element in each event contained in the OadrDistributeEvent payload.

Core Operation Payload Schema Conformance

For each payload generated by an implementation, indicate if it conforms to the indicated schema.

Item	Requirement	Reference	Support
1	oadrDistributeEvent validates against the Alliance “A” profile schema	Alliance Schema	[x]Yes [ ]No [ ]N/A
2	oadriCreatedEvent validates against the Alliance “A” profile schema	Alliance Schema	[x]Yes [ ]No [ ]N/A
3	oadrRequestEvent validates against the Alliance “A” profile schema	Alliance Schema	[x]Yes [ ]No [ ]N/A
4	oardResponse validates against the Alliance “A” profile schema	Alliance Schema	[x]Yes [ ]No [ ]N/A

Note: VTNs generate items 1 and 4, Push VENs item 2, and Pull VENs items 2 and 3.

Alliance Core Optional Element/Attribute Support

Indicate which of the following optional elements that are part of the Alliance “A” profile schema are included in your payloads.

Item	Element/Attribute	Support
1	oadrDisributeEvent:eiResponse:responseDescription	[x]Yes [ ]No
2	oadrDisributeEvent:eiEvent:eventDesciptor:priority	[x]Yes [ ]No
3	oadrDisributeEvent:eiEvent:eventDesciptor:testEvent	[x]Yes [ ]No
4	oadrDisributeEvent:eiEvent:eventDesciptor:vtnComment	[x]Yes [ ]No
5	oadrDisributeEvent:eiEvent:eiActivePeriod:properties:tolerance	[ ]Yes [x]No
6	oadrDisributeEvent:eiEvent:eiActivePeriod:properties:tolerance:tolerate:startafter	[ ]Yes [x]No
7	oadrDisributeEvent:eiEvent:eiActivePeriod:properties:x-eiRampUp	[ ]Yes [x]No
8	oadrDisributeEvent:eiEvent:eiActivePeriod:properties:x-eiRecovery	[ ]Yes [x]No
9	oadrDisributeEvent:eiEvent:eiTarget:groupID	[x]Yes [ ]No
10	oadrDisributeEvent:eiEvent:eiTarget:resourceID	[x]Yes [ ]No
11	oadrDisributeEvent:eiEvent:eiTarget:venID	[x]Yes [ ]No
12	oadrDisributeEvent:eiEvent:eiTarget:partyID	[x]Yes [ ]No
13	oadrCreatedEvent :eiCreatedEvent:eiResponse:responseDescription	[ ]Yes [x]No
14	oadrCreatedEvent :eiCreatedEvent:eventResponses:eventResponse:responseDescription	[ ]Yes [x]No
15	oadrRequestEvent :eiRequestEvent:replyLimit	[ ]Yes [x]No
16	oadrResponse:eiResponse:responseDescription	[x]Yes [ ]No

1)Elements that are conditionally optional based upon the operational state where not included in this list.
Note: Items 13, 14, and 15 apply to a device playing the VEN Role, all others apply to a VTN.

Alliance "a" Profile Detailed Requirements

In addition to the requirements defined by the schema, the OpenADR 2.0a 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 2.0a Profile Specification while reviewing the following conformance rules

Conformance Rule	Roles	Reference	Status	Support
1	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
2	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
3	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
4	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
5	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
6	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
7	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
8	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
9	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
10	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
12	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
13	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
14	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
15	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
16	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
17	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
18	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
19	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
20	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
21	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No

22	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
23	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
25	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
27	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
29	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
30	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
31	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
32	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
33	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
35	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
36	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
37	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
38	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
40	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
41	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
42	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
43	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
44	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
45	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
46	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
47	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
48	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
49	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	O	[ ]Yes [x]No
50	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
51	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No

52	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
53	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
54	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
55	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
56	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
57	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
58	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
59	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
60	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
61	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
62	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
63	VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
64	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
65	VEN	OpenADR 2.0a Profile Spec, Section 11.2	M	[ ]Yes [x]No
66	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
67	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No
68	VEN VTN	OpenADR 2.0a Profile Spec, Section 11.2	M	[x]Yes [ ]No

Note: Items 54, 55, and 64 apply to a pull VEN only. Item 66 applies to a push VTN Only.

Simple HTTP Transport Implementation Detailed Requirements

Item	Requirement	Reference	Status	Support
1	Are endpoint names formatted as follows: *https://<hostname>(:port)/(prefix/)OpenADR2/Simple/<service>*	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
2	Are all messages sent using the HTTP POST method?	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
3	When a request fails for any reason (either due to physical or network-level failure or a timeout) does the requestor institute 'back-off' or quiesce logic to avoid flooding the network or receiver with requests?	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
4	Does the Device under test include the following mandatory http headers in Requests: • Host • Content-Length	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
5	If the device under test includes an Accept or Content-Type http header, is it "application/XML"?	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
6	If the device under test includes a Content-Type header with a character encoding, is it "application/XML;charset=utf-8"?	OpenADR Profile Spec, Section 9.1		[x]Yes [ ]No
7	Unique base path for VTN and VEN if in the same device	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No
8	In a push scenario, are application level requests acknowledged with a transport layer ack, followed by an async application level response in the form of a http request	OpenADR Profile Spec, Section 9.1	M	[x]Yes [ ]No

Note that behavior intrinsic to http, such as dealing with content encoding and response to 401 was not included in the PICS statements

Security Features

Item	Requirement	Reference	Status	Support
1	Does the implementation support both client and server X.509v3 certificates with key lengths as follows: • *ECC 256 bits or longer* • *RSA 2048 Bits or longer*	OpenADR Profile Spec, Section 10.2	M	[x]Yes [ ]No
2	Does the implementation support TLS version 1.0	OpenADR Profile Spec, Section 10.5	M	[x]Yes [ ]No
3	Does the implementation support TLS 1.2?	OpenADR Profile Spec, Section 10.5	O	[x]Yes [ ]No
4	Does the implementation support an ECC certificate and ECC ciphers for TLS 1.0 and TLS 1.2 (if supported)	OpenADR Profile Spec, Section 10.2 and 10.5	C-1	[x]Yes [ ]No
5	Does the implementation support an RSA certificate and RSA ciphers for TLS 1.0 and TLS 1.2 (if supported)	OpenADR Profile Spec, Section 10.2 and 10.5	C-1	[x]Yes [ ]No

C-1 VEN implementations must support either RSA or ECC, and may support both. VTN must support both ECC and RSA.

Implementation Capabilities and Configuration

Does the implementation being submitted for certification support the following minimum capabilities necessary for successful execution of the certification test suite. Note that these limits do not imply minimum market needs for an "a" profile implementations. -responseDescription, vtnComment – 250 characters -venID, vtnID, requestID, uid, groupID, partyID, resourceID, eventID – 50 characters -SignalName, MarketContext – 100 characters - Maximum size of oadrDistributeEvent: A payload with 4 events each with 3 intervals and a payload with 1 event containing 24 intervals -Number of instances of groupID, resourceID, partyID in eiTarget – 4 -Number of eventResponses in oadrResponse - 4	[x]Yes [ ]No
Does the implementation, if a VEN, provide some visual means for a test engineer to determine that an event is currently active ? Attached documentation to this PICS statement regarding how this is accomplished.	[ ]Yes [x]No [ ]N/A
Does the implementation, if a VTN, include the VTN Test Interface described in the OpenADR Test Specification?	[x]Yes [ ]No [ ]N/A
Have you attached documentation to this PICS statement regarding how to configure the implementation regarding the items noted below? **VTN and VENs** • How to configure the marketContext URI so that the so that the implementation and test harness can interact with respect to the same marketContext. • How to initialize the implementation such that all events are cleared from the data store. • How to configure or determine the assigned VEN or VTN ID. • If supported, how to configure additional identification values used by the VEN including groupID, resourceID, or partyID. • How to install x.509 certificates in the implemantions trust store. **VENs** • How to trigger oadrRequestEvent requests • How to opt out of an event. • How to set the polling frequency.	[x]Yes [ ]No

Optional Test Case Guidelines

Can the push VTN send an empty oadrDisributeEvent? If no, skip test case E0_0020	[ ]Yes [ ]No [x]N/A
Can the push VEN be configured to do concurrent push and pull? If no, skip test case E0_0290	[ ]Yes [ ]No [x]N/A
Can the VTN implementation set oadrResponseRequired to never? If no, skip test cases E2_0468, E2_0480, E2_0498, E3_0468, E3_0480, and E3_0498	[x]Yes [ ]No
Can the VTN set a ramp up period? If no, skip test cases E2_0527 and E3_0527	[ ]Yes [x]No
Can the VTN send an event with multiple intervals in an event? If no, skip test case E2_0432 and E3_0432	[x]Yes [ ]No
Can the VTN set an event's priority? If no, skip test case E2_0510, E3_0510, E2_ 0520, and E3_0520	[x]Yes [ ]No
Can the VTN be configured to set at least one eiTarget sub elements including partyID, resourceID, venID, or groupID? If no, skip test cases E2_0435 and E3_0435	[x]Yes [ ]No
Does the device support configuration of the VTN to randomize events using the startafter element? If no, skip test cases E2_0685, E3_0685	[ ]Yes [x]No

--- End of Document ---

OpenADR 2.0b

Protocol Implementation Conformance Statement (PICS)

Version 1.0.6
Valid for Certification as of September 10, 2013

Manufacturer:	Industrial Technology Research Institute
Product Type:	VTN
Product Name:	ICL-VTN 2.0b Driver
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: Industrial Technology Research Institute

Representative Name and Title: Chun-Shiow Chen, Division Director

Signature: Chun-Shiow Chen

Date: 03-11-2015

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

Table of Contents

Introduction

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References

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- OpenADR 2.0b Test Spec V1.0.6
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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

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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.

Industrial Technology Research Institute (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: Chun-Shiow Chen

Signature: Chun-shiow Chen

Implementation and Supplier Information

Date of Statement	2015.
Product Name	ICL-VTN 2.0b Driver
Product Model Number	ICL-VTN 2.0b Driver
Version Number(s)	1.0
Non-Default Hardware Configuration	NA
Non-Default Software Configuration	NA
Supplier Name, Address, Phone, Email	Supplier Name: Industrial Technology Research Institute Address: 195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, Taiwan 31040, R.O.C. Phone: 886-3-591-5740 E-Mail: Wenshiang.t@itri.org.tw
Contact name, email, phone for questions	Wenshiang Tang E-Mail: Wenshiang.t@itri.org.tw Phone: 886-3-591-5740

Global Statement of Conformance

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

Roles

Item	Role	Status	Support
1	VEN - Full Function	O-1	[ ]Yes [x]No
3	VEN - Energy Reporting Only	O-1	[ ]Yes [x]No
3	VTN	O-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
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	[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 must support at least one item from the list. If SimpleHTTP items are selected this must include the "SimpleHTTP-Pull" option from the list.

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Service Support

Requirements Reference: Section 7.2.2 and conformance rules 501 and 507

Item	Role	Service	Status	Support
1	VEN/VTN	EiEvent	C-1	[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.
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	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	O	[ ]Yes [x]No

C-1) Support for these options is prohibited past an Alliance-defined grace period.
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	[x]Yes [ ]No
7	VEN	oadrQueryRegistration	M	[ ]Yes [x]No
8	VEN	oadrCreatePartyRegistration	M	[ ]Yes [x]No
9	VEN/VTN	oadrResponse	M	[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	Support
1	EiEvent	{VEN: RequestEvent {Reply Limit}} VTN: oadrDistributeEvent {Response Required, baseline} {VEN: oadrCreatedEvent {Opt State} VTN: oadrResponse }	C-1	[x]Yes [ ]No
2	EiOpt	VEN: oadrCreateOpt {Availability schedule} VTN: oadrCreatedOpt ---- VEN: oadrCancelOpt VTN: oadrCanceledOpt --- VEN: oadrCreateOpt - {Event Opt State} VTN: oadrCreatedOpt	C-1	[x]Yes [ ]No
3	EiRegisterParty	VEN: oadrQueryRegistration VTN: oadrCreatedPartyRegistration ---- VEN: oadrCreatePartyRegistration VTN: oadrCreatedPartyRegistration ---- VEN/VTN: oadrCancelPartyRegistration VTN/VEN: oadrCanceledPartyRegistration --- VTN: oadrRequestReregistration VEN: oadrResponse VEN: oadrCreatePartyRegistration VTN: oadrCreatedPartyRegistration	M	[x]Yes [ ]No
4	EiReport	VEN/VTN: oadrRegisterReport VTN/VEN: oadrRegisteredReport (Create Report *} ---- VEN/VTN: oadrCreateReport (Once or Periodic) VTN/VEN: oadrCreatedReport ---- VEN/VTN: oadrUpdateReport VTN/VEN: oadrUpdatedReport {Cancel Report *} ---- VEN/VTN: oadrCancelReport VTN/VEN: oadrCanceledReport {Report to Follow}	C-3	[x]Yes [ ]No
5	OadrPoll	VEN: oadrPoll VTN: Any payload sent by VTN	C-2	[ ]Yes [x]No

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

C-2) Required for SimpleHTTP Pull VENs only.

C-3)VENs and VTNs are not required to demonstrate initiating piggyback report requests and report cancellations (*), but must understand them and act upon them if received from the other party. 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
1	VEN/VTN	SIMPLE		M	[x]Yes [ ]No
2	VEN/VTN	ELECTRICITY_PRICE	Price	M	[x]Yes [ ]No
3	VEN/VTN	LOAD_DISPATCH	setpoint	M	[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	M	[ ]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 (Rule)	Role	Status	Support
1	VTN	C-1	[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	[x]Yes [ ]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	[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	[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	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
307	VEN/VTN	M	[x]Yes [ ]No
308	VEN/VTN	M	[x]Yes [ ]No
309	VEN/VTN	M	[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	[x]Yes [ ]No
329	VEN/VTN	M	[x]Yes [ ]No
330	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
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	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
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	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.	[ ]Yes [x]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 111111111111 which the test harness uses to connect to the implementation's VTN XMPP server. Answer No if not testing a VTN or XMPP is not supported	[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.

Item	Criteria	Support
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.	[x]Yes [ ]No
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.	[x]Yes [ ]No
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.	[x]Yes [ ]No
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.	[x]Yes [ ]No
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	[ ]Yes [x]No
6	If the VEN cannot send an Empty oadrDisributeEvent skip test case A_E0_0020	[x]Yes [ ]No
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	[x]Yes [ ]No
8	If VEN cannot be configure with multiple Market Context, skip test case A_E1_0285 and A_E0_0285	[x]Yes [ ]No
9	If the implementation cannot resend an unchanged payload, the test case A_E3_0680 can be skipped.	[x]Yes [ ]No
10	If the VTN cannot set a ramp up period skip test cases A_E2_0527 and A_E3_0527	[x]Yes [ ]No
11	If the VTN cannot configure multiple intervals in an event skip test case A_E2_0432 and A_E3_0432	[x]Yes [ ]No
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	[x]Yes [ ]No

13	If the VTN does not support configuration of eiTarget subelements, skip test case A_E3_0435 and A_E2_0435.	[x]Yes [ ]No
14	If the VTN does not support configuration of randomization with a startafter element skip test cases A_E2_0685 and A_E3_0685.	[ ]Yes [x]No
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.	[x]Yes [ ]No
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, R0_8050_TH_VEN_1, R1_3060_TH_VEN, R0_8060_TH_VEN, R1_3120_TH_VTN_1 and R0_8120_TH_VTN.	[ ]Yes [x]No