

# SWTCH Energy Inc. TEST REPORT

**SCOPE OF WORK**

OPENADR 2.0B VEN – HTTP PULL - SWTCH ENERGY INC. - SWTCH VEN V1.0 - PASSED

**REPORT NUMBER**

1006507295MP-001

**ISSUE DATE**

30-July-2021

**PAGES**

8

**DOCUMENT CONTROL NUMBER**

GFT-OP-10h (6-July-2017)

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## TEST REPORT

30-July-2021

Intertek Report No. 1006507295MP-001  
Intertek Project No. (GIN #) (G104724695)

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**Subject:** OpenADR 2.0b VEN-HTTP Pull test results of the SWTCH VEN V1.0

Dear Mr. Carter Li,

This test report for the *SWTCH VEN V1.0* represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

### METHODS

#### DESCRIPTION OF TEST METHODS AND STANDARDS

OpenADR 2.0b VEN- HTTP Pull  
Test Harness Version 1.1.5  
Security Level - Standard

### SUBMITTED DEVICE

Product Type	Product Name	Firmware Version	Model Number
Cloud-based VEN	SWTCH VEN	1.0	N/A

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**TEST REPORT****TEST ENVIRONMENT**

Lab Setup	Connection	DUT	Environment Used
Virtual Machine	Remote Desktop Connection	UI	X

**TEST EQUIPMENT**

Test Tool	Manufacturer	Model Number	Version/Errata
Test Harness	Quality Logic	OpenADR2.0bCertTest	1.1.5

**WAIVERS GRANTED BY OPENADR ALLIANCE**

Test Case(s)	Failure	OpenADR Response	OpenADR Approver
None			

## TEST REPORT

### Interpretation of test results:

Results of the tests carried out by Intertek Testing Services NA, Inc. are described as follows: “**Pass**” indicates the device under test (DUT) was verified against a set of defined prerequisites, test scenarios consisting of a sequence of VEN/VTN message exchanges and has conformed to the expected results set forth by the OpenADR Alliance. “**Fail**” indicates the DUT has not met conformance set forth by the OpenADR Alliance due to a test case scenario failing to run to completion, payload schema validation, conformance rule validation failure or other problems. “**NA**” indicates the test case is not applicable to the DUT, is optional or is marked as NA in the test harness tool. Test cases that are not supported by the DUT will not be listed.

TESTED <27-July-2021 to 29-July-2021>

## Test Case Results

Test Case Name	Result	Log
N1_0010_TH_VTN_1	PASS	View Log TraceLog_072721_101912_225.txt
N1_0080_TH_VTN_1	NA	View Log TraceLog_072721_102244_006.txt
N1_0020_TH_VTN_1	PASS	View Log TraceLog_072721_102522_807.txt
N1_0015_TH_VTN_1	PASS	View Log TraceLog_072721_102823_762.txt
N1_0025_TH_VTN_1	PASS	View Log TraceLog_072721_104341_697.txt
N1_0030_TH_VTN_1	PASS	View Log TraceLog_072721_104757_134.txt
N1_0040_TH_VTN_1	PASS	View Log TraceLog_072721_105720_701.txt
N1_0060_TH_VTN_1	PASS	View Log TraceLog_072721_110610_109.txt
N1_0065_TH_VTN_1	PASS	View Log TraceLog_072721_110927_438.txt
N1_0070_TH_VTN_1	PASS	View Log TraceLog_072721_111224_731.txt
R1_3010_TH_VTN_1	PASS	View Log TraceLog_072721_112448_525.txt
R1_3020_TH_VTN_1	PASS	View Log TraceLog_072721_112607_501.txt
R1_3025_TH_VTN_1	PASS	View Log TraceLog_072721_112926_813.txt
R1_3027_TH_VTN_1	PASS	View Log TraceLog_072721_113332_301.txt
R1_3030_TH_VTN_1	PASS	View Log TraceLog_072721_113855_500.txt

**TEST REPORT**

Test Case Name	Result	Log
R1_3040_TH_VTN_1	PASS	View Log TraceLog_072721_114300_439.txt
R1_3045_TH_VTN_1	PASS	View Log TraceLog_072721_114446_845.txt
R1_3130_TH_VTN_1	PASS	View Log TraceLog_072721_115154_463.txt
R1_3150_TH_VTN_1	PASS	View Log TraceLog_072721_130736_687.txt
R1_3160_TH_VTN_1	PASS	View Log TraceLog_072721_131001_868.txt
R1_3170_TH_VTN_1	PASS	View Log TraceLog_072721_131920_043.txt
R1_3180_TH_VTN_1	PASS	View Log TraceLog_072721_132225_296.txt
R1_3190_TH_VTN_1	PASS	View Log TraceLog_072721_132336_385.txt
P1_2010_TH_VTN_1	PASS	View Log TraceLog_072721_133013_190.txt
P1_2015_TH_VTN_1	PASS	View Log TraceLog_072721_133220_129.txt
P1_2020_TH_VTN_1	PASS	View Log TraceLog_072721_133445_804.txt
P1_2030_TH_VTN_1	PASS	View Log TraceLog_072721_133715_235.txt
P1_2040_TH_VTN_1	PASS	View Log TraceLog_072721_134025_717.txt
P1_2050_TH_VTN_1	NA	View Log TraceLog_072721_134154_071.txt
A_E1_0020_TH_VTN_1	PASS	View Log TraceLog_072721_135341_393.txt
A_E1_0040_TH_VTN_1	PASS	View Log TraceLog_072721_135547_352.txt
A_E1_0060_TH_VTN_1	PASS	View Log TraceLog_072721_135905_084.txt
A_E1_0070_TH_VTN_1	PASS	View Log TraceLog_072721_140233_863.txt
A_E1_0082_TH_VTN_1	PASS	View Log TraceLog_072721_140559_576.txt
A_E1_0086_TH_VTN_1	PASS	View Log TraceLog_072721_140930_961.txt
A_E1_0090_TH_VTN_1	PASS	View Log TraceLog_072721_141155_209.txt
A_E1_0092_TH_VTN_1	PASS	View Log TraceLog_072721_141328_365.txt
A_E1_0094_TH_VTN_1	PASS	View Log TraceLog_072721_141528_793.txt
A_E1_0096_TH_VTN_1	PASS	View Log TraceLog_072721_141834_810.txt
A_E1_0098_TH_VTN_1	PASS	View Log TraceLog_072721_150501_757.txt

**TEST REPORT**

Test Case Name	Result	Log
A_E1_0100_TH_VTN_1	PASS	View Log TraceLog_072721_150600_893.txt
A_E1_0102_TH_VTN_1	PASS	View Log TraceLog_072721_151014_744.txt
A_E1_0104_TH_VTN_1	PASS	View Log TraceLog_072721_151112_781.txt
A_E1_0110_TH_VTN_1	PASS	View Log TraceLog_072721_151217_627.txt
A_E1_0130_TH_VTN_1	PASS	View Log TraceLog_072721_152212_283.txt
A_E1_0180_TH_VTN_1	PASS	View Log TraceLog_072721_152936_583.txt
A_E1_0190_TH_VTN_1	PASS	View Log TraceLog_072721_153046_809.txt
N1_0050_TH_VTN_1	PASS	View Log TraceLog_072721_153635_900.txt
A_E1_0200_TH_VTN_1	PASS	View Log TraceLog_072721_154617_322.txt
A_E1_0210_TH_VTN_1	PASS	View Log TraceLog_072721_155111_469.txt
A_E1_0210_TH_VTN_1	PASS	View Log TraceLog_072721_160021_647.txt
A_E1_0220_TH_VTN_1	PASS	View Log TraceLog_072821_081919_369.txt
A_E1_0230_TH_VTN_1	PASS	View Log TraceLog_072821_082613_822.txt
A_E1_0240_TH_VTN_1	PASS	View Log TraceLog_072821_084113_912.txt
A_E1_0250_TH_VTN_1	PASS	View Log TraceLog_072821_084459_264.txt
A_E1_0270_TH_VTN_1	PASS	View Log TraceLog_072821_094859_447.txt
A_E1_0285_TH_VTN_1	PASS	View Log TraceLog_072821_102518_256.txt
A_E1_0300_TH_VTN_1	PASS	View Log TraceLog_072821_102825_575.txt
A_E1_0310_TH_VTN_1	PASS	View Log TraceLog_072821_103146_425.txt
A_E1_0340_TH_VTN_1	PASS	View Log TraceLog_072821_103550_252.txt
A_E1_0345_TH_VTN_1	PASS	View Log TraceLog_072821_103932_104.txt
A_E1_0360_TH_VTN_1	PASS	View Log TraceLog_072821_104521_338.txt
A_E1_0370_TH_VTN_1	PASS	View Log TraceLog_072821_105206_787.txt
A_E1_0390_TH_VTN_1	PASS	View Log TraceLog_072821_105947_933.txt
A_E1_0392_TH_VTN_1	PASS	View Log TraceLog_072821_110318_612.txt

**TEST REPORT**

Test Case Name	Result	Log
E1_1010_TH_VTN_1	PASS	View Log TraceLog_072821_110656_909.txt
E1_1020_TH_VTN_1	PASS	View Log TraceLog_072821_110805_191.txt
E1_1025_TH_VTN_1	PASS	View Log TraceLog_072821_110857_522.txt
E1_1027_TH_VTN_1	PASS	View Log TraceLog_072821_110945_554.txt
E1_1030_TH_VTN_1	PASS	View Log TraceLog_072821_111116_411.txt
E1_1040_TH_VTN_1	PASS	View Log TraceLog_072821_111221_807.txt
E1_1050_TH_VTN_1	PASS	View Log TraceLog_072821_111404_140.txt
E1_1055_TH_VTN_1	PASS	View Log TraceLog_072821_111612_045.txt
E1_1065_TH_VTN_1	NA	View Log TraceLog_072821_113907_967.txt
E1_1070_TH_VTN_1	PASS	View Log TraceLog_072821_113930_719.txt
E1_1080_TH_VTN_1	PASS	View Log TraceLog_072821_114023_098.txt
E1_1090_TH_VTN_1	PASS	View Log TraceLog_072821_114058_472.txt
A_E1_0280_TH_VTN_1	PASS	View Log TraceLog_072921_084107_076.txt
E1_1060_TH_VTN_1	PASS	View Log TraceLog_072921_084811_895.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_072921_092601_494.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_072921_093315_684.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_072921_093840_616.txt
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_072921_095028_911.txt
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_072921_095807_280.txt
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_072921_100742_739.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_072921_102159_352.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_072921_102849_659.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_072921_103423_099.txt
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_072921_104648_183.txt
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_072921_105133_712.txt

## TEST REPORT

Test Case Name	Result	Log
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_072921_105647_885.txt
G1_4005_TH_VTN_1	PASS	View Log TraceLog_072921_115610_955.txt
G1_4010_TH_VTN_1	PASS	View Log TraceLog_072921_115757_570.txt
G1_4012_TH_VTN_1	PASS	View Log TraceLog_072921_115938_737.txt
G1_4015_TH_VTN_1	PASS	View Log TraceLog_072921_120103_640.txt
G1_4030_TH_VTN_1	PASS	View Log TraceLog_072921_120537_055.txt
G1_4007_TH_VTN_1	PASS	View Log TraceLog_072921_120846_628.txt

## REPORT AUTHORIZED



Florencio Ponce

Engineer



Vincent Brooks

Reviewer