

Lennox International Inc.

TEST REPORT

SCOPE OF WORK

OPENADR 2.0B VEN – HTTP PULL - LENNOX INTERNATIONAL INC. – ICOMFORT S30 V. OPENADR
STACK 1.0.4-0:1/LENNOX APPLICATION 3.60.0635 - PASSED

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Intertek Report No. 1005826736MP-001
Intertek Project No. GIN # (G104149467)

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Subject: OpenADR 2.0b VEN-HTTP Pull test results of the ICOMFORT S30 V. OPENADR STACK 1.0.4-0:1/LENNOX APPLICATION 3.60.0635

Dear Mr. Chandrashekhar Kulkarni,

This test report for the *iComfort S30 V. OpenADR Stack 1.0.4-0:1/Lennox Application 3.60.0635* 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 1.1.4
Security Level - Standard

SUBMITTED DEVICE

Product Type	Product Name	Firmware Version	Model Number
HVAC Thermostat	iComfort S30	OpenADR Stack 1.0.4-0:1 Lennox application 3.60.0635	105081-XX

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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	1.1.4

WAIVERS GRANTED BY OPENADR ALLIANCE

Test Case(s)	Failure	OpenADR Response	OpenADR Approver
None			

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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 <8-November-2017 to 11-November-2017>

Test Case Results

Test Case Name	Result	Log
N1_0010_TH_VTN_1	PASS	View Log TraceLog_110819_083345_232.txt
N1_0025_TH_VTN_1	PASS	View Log TraceLog_110819_083629_034.txt
N1_0080_TH_VTN_1	NA	View Log TraceLog_110819_084004_371.txt
N1_0020_TH_VTN_1	PASS	View Log TraceLog_110819_084036_465.txt
N1_0015_TH_VTN_1	PASS	View Log TraceLog_110819_084246_125.txt
N1_0050_TH_VTN_1	PASS	View Log TraceLog_110819_084450_781.txt
N1_0060_TH_VTN_1	PASS	View Log TraceLog_110819_084555_031.txt
N1_0065_TH_VTN_1	PASS	View Log TraceLog_110819_084713_239.txt
N1_0040_TH_VTN_1	PASS	View Log TraceLog_110819_084857_105.txt
N1_0030_TH_VTN_1	PASS	View Log TraceLog_110819_085450_471.txt
N1_0070_TH_VTN_1	PASS	View Log TraceLog_110819_085728_953.txt
P1_2010_TH_VTN_1	PASS	View Log TraceLog_110819_090058_735.txt
P1_2015_TH_VTN_1	PASS	View Log TraceLog_110819_090200_873.txt
P1_2020_TH_VTN_1	PASS	View Log TraceLog_110819_090305_721.txt
P1_2030_TH_VTN_1	PASS	View Log TraceLog_110819_090416_586.txt

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Test Case Name	Result	Log
P1_2040_TH_VTN_1	PASS	View Log TraceLog_110819_090543_000.txt
P1_2050_TH_VTN_1	NA	View Log TraceLog_110819_090723_053.txt
A_E1_0280_TH_VTN_1	PASS	View Log TraceLog_110819_090900_383.txt
A_E1_0200_TH_VTN_1	PASS	View Log TraceLog_110819_091645_204.txt
E1_1060_TH_VTN_1	PASS	View Log TraceLog_110819_093417_268.txt
G1_4015_TH_VTN_1	PASS	View Log TraceLog_110819_093813_468.txt
G1_4030_TH_VTN_1	PASS	View Log TraceLog_110819_093941_195.txt
G1_4007_TH_VTN_1	PASS	View Log TraceLog_110819_094205_564.txt
A_E1_0020_TH_VTN_1	PASS	View Log TraceLog_110819_110700_786.txt
N1_0020_TH_VTN_1	PASS	View Log TraceLog_110819_111334_604.txt
R1_3010_TH_VTN_1	PASS	View Log TraceLog_110819_111500_593.txt
N1_0020_TH_VTN_1	PASS	View Log TraceLog_110819_112544_068.txt
R1_3020_TH_VTN_1	PASS	View Log TraceLog_110819_112707_695.txt
R1_3025_TH_VTN_1	PASS	View Log TraceLog_110819_113337_261.txt
R1_3027_TH_VTN_1	PASS	View Log TraceLog_110819_113753_971.txt
R1_3030_TH_VTN_1	PASS	View Log TraceLog_110819_114246_626.txt
R1_3040_TH_VTN_1	PASS	View Log TraceLog_110819_114644_630.txt
R1_3045_TH_VTN_1	PASS	View Log TraceLog_110819_114805_832.txt
R1_3050_TH_VTN_1	PASS	View Log TraceLog_110819_115025_770.txt
R1_3150_TH_VTN_1	PASS	View Log TraceLog_110819_115213_611.txt
R1_3160_TH_VTN_1	PASS	View Log TraceLog_110819_115402_672.txt
R1_3170_TH_VTN_1	PASS	View Log TraceLog_110819_115752_840.txt
R1_3180_TH_VTN_1	PASS	View Log TraceLog_110819_115912_207.txt
R1_3190_TH_VTN_1	PASS	View Log TraceLog_110819_120048_076.txt
A_E1_0040_TH_VTN_1	PASS	View Log TraceLog_110819_131748_422.txt

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Test Case Name	Result	Log
A_E1_0060_TH_VTN_1	PASS	View Log TraceLog_110819_131944_425.txt
A_E1_0070_TH_VTN_1	PASS	View Log TraceLog_110819_132251_404.txt
A_E1_0082_TH_VTN_1	PASS	View Log TraceLog_110819_132439_035.txt
A_E1_0086_TH_VTN_1	PASS	View Log TraceLog_110819_132547_198.txt
A_E1_0090_TH_VTN_1	PASS	View Log TraceLog_110819_132755_425.txt
A_E1_0092_TH_VTN_1	PASS	View Log TraceLog_110819_132943_758.txt
A_E1_0094_TH_VTN_1	PASS	View Log TraceLog_110819_133205_596.txt
A_E1_0096_TH_VTN_1	PASS	View Log TraceLog_110819_133328_438.txt
A_E1_0098_TH_VTN_1	PASS	View Log TraceLog_110819_133534_589.txt
A_E1_0100_TH_VTN_1	PASS	View Log TraceLog_110819_133809_299.txt
A_E1_0102_TH_VTN_1	PASS	View Log TraceLog_110819_134027_629.txt
A_E1_0104_TH_VTN_1	PASS	View Log TraceLog_110819_134143_010.txt
A_E1_0110_TH_VTN_1	PASS	View Log TraceLog_110819_134345_630.txt
A_E1_0130_TH_VTN_1	PASS	View Log TraceLog_110819_134454_167.txt
A_E1_0130_TH_VTN_1	PASS	View Log TraceLog_110819_134749_769.txt
A_E1_0180_TH_VTN_1	PASS	View Log TraceLog_110819_134931_781.txt
A_E1_0190_TH_VTN_1	PASS	View Log TraceLog_110819_135114_229.txt
A_E1_0210_TH_VTN_1	PASS	View Log TraceLog_110819_135403_617.txt
A_E1_0220_TH_VTN_1	PASS	View Log TraceLog_110819_140554_320.txt
A_E1_0230_TH_VTN_1	PASS	View Log TraceLog_110819_141155_657.txt
A_E1_0240_TH_VTN_1	PASS	View Log TraceLog_110819_142019_363.txt
A_E1_0250_TH_VTN_1	PASS	View Log TraceLog_110819_142316_566.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_110819_142807_715.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_110819_143420_574.txt
A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_110819_144535_177.txt

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Test Case Name	Result	Log
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_110819_145138_127.txt
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_110819_150003_913.txt
A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_110819_150954_086.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_110819_151838_385.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_110819_152428_734.txt
A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_110819_153156_945.txt
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_110819_154300_221.txt
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_110819_154740_399.txt
A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_110819_155234_145.txt
A_E1_0190_TH_VTN_1	PASS	View Log TraceLog_111119_081606_480.txt
A_E1_0270_TH_VTN_1	PASS	View Log TraceLog_111119_081744_240.txt
A_E1_0285_TH_VTN_1	PASS	View Log TraceLog_111119_082211_040.txt
A_E1_0300_TH_VTN_1	PASS	View Log TraceLog_111119_082553_872.txt
A_E1_0310_TH_VTN_1	PASS	View Log TraceLog_111119_082704_349.txt
A_E1_0340_TH_VTN_1	PASS	View Log TraceLog_111119_082917_609.txt
A_E1_0345_TH_VTN_1	PASS	View Log TraceLog_111119_083149_956.txt
A_E1_0360_TH_VTN_1	PASS	View Log TraceLog_111119_083440_704.txt
A_E1_0370_TH_VTN_1	PASS	View Log TraceLog_111119_083915_428.txt
A_E1_0390_TH_VTN_1	PASS	View Log TraceLog_111119_084251_038.txt
A_E1_0190_TH_VTN_1	PASS	View Log TraceLog_111119_085749_783.txt
E1_1020_TH_VTN_1	PASS	View Log TraceLog_111119_091319_026.txt
E1_1025_TH_VTN_1	PASS	View Log TraceLog_111119_092055_432.txt
E1_1027_TH_VTN_1	PASS	View Log TraceLog_111119_092250_776.txt
E1_1030_TH_VTN_1	PASS	View Log TraceLog_111119_094034_422.txt
E1_1040_TH_VTN_1	PASS	View Log TraceLog_111119_094155_694.txt

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Test Case Name	Result	Log
E1_1055_TH_VTN_1	PASS	View Log TraceLog_111119_094510_062.txt
E1_1065_TH_VTN_1	NA	View Log TraceLog_111119_094831_812.txt
E1_1070_TH_VTN_1	PASS	View Log TraceLog_111119_094853_913.txt
E1_1080_TH_VTN_1	PASS	View Log TraceLog_111119_095011_322.txt
E1_1090_TH_VTN_1	PASS	View Log TraceLog_111119_095135_883.txt
E1_1010_TH_VTN_1	PASS	View Log TraceLog_111119_100040_825.txt
G1_4005_TH_VTN_1	PASS	View Log TraceLog_111119_100703_713.txt
G1_4010_TH_VTN_1	PASS	View Log TraceLog_111119_101609_386.txt
A_E1_0392_TH_VTN_1	PASS	View Log TraceLog_111119_101830_540.txt

REPORT AUTHORIZED



Florencio Ponce

Engineer



Vincent Brooks

Reviewer