

Bluefield Energy Inc.

TEST REPORT

SCOPE OF WORK

OpenADR 2.0B VEN – HTTP PULL – Bluefield Energy Inc. –
Bluefield Energy Virtual End Node (Firmware v1.0.0)
– PASSED

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TEST REPORT

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Subject: OpenADR 2.0b VEN – HTTP Pull
test results of the Bluefield Energy Virtual End Node (Firmware v1.0.0)

Dear Mr. Takuya Tsuchida,

This test report for the Bluefield Energy Virtual End Node (Firmware v1.0.0) 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 (Specification 1.1)

Test Harness Version 1.1.7

Security Level – Standard

SUBMITTED DEVICE

Product Type	Product Name	Firmware Version	Model Number
VEN	Bluefield Energy Virtual End Node	1.0.0	N/A

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TEST REPORT

TEST ENVIRONMENT

Lab Setup	Connection	DUT	Environment Used
Test Laptop	LAN via Hub	Customer PC	Hub

TEST EQUIPMENT

Test Tool	Manufacturer	Model Number	Version/Errata
Test Harness	Quality Logic	OpenADR2.0bCertTest	1.1.7

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 Japan K.K. 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 <10-Sep-2026 >

2.0B VEN HTTP Pull Results:

EiRegisterParty_Pull

Test Case Name	Start Time	End Time	Result	Log
N1_0025_TH_VTN_1	Thu Sep 10 09:25:33 JST 2026	Thu Sep 10 09:26:18 JST 2026	PASS	View Log TraceLog_091026_092533_162.txt
N1_0030_TH_VTN_1	Thu Sep 10 09:26:44 JST 2026	Thu Sep 10 09:27:22 JST 2026	PASS	View Log TraceLog_091026_092644_949.txt
N1_0010_TH_VTN_1	Thu Sep 10 09:27:38 JST 2026	Thu Sep 10 09:28:09 JST 2026	PASS	View Log TraceLog_091026_092738_073.txt
N1_0020_TH_VTN_1	Thu Sep 10 09:28:23 JST 2026	Thu Sep 10 09:29:13 JST 2026	PASS	View Log TraceLog_091026_092823_507.txt
N1_0015_TH_VTN_1	Thu Sep 10 09:29:26 JST 2026	Thu Sep 10 09:35:18 JST 2026	PASS	View Log TraceLog_091026_092926_183.txt
N1_0040_TH_VTN_1	Thu Sep 10 09:40:10 JST 2026	Thu Sep 10 09:40:51 JST 2026	PASS	View Log TraceLog_091026_094010_204.txt
N1_0080_TH_VTN_1	Thu Sep 10 09:40:59 JST 2026	Thu Sep 10 09:41:03 JST 2026	NA	View Log TraceLog_091026_094059_933.txt
N1_0050_TH_VTN_1	Thu Sep 10 09:50:13 JST 2026	Thu Sep 10 09:51:34 JST 2026	PASS	View Log TraceLog_091026_095013_162.txt
N1_0060_TH_VTN_1	Thu Sep 10 09:51:48 JST 2026	Thu Sep 10 09:52:32 JST 2026	PASS	View Log TraceLog_091026_095148_413.txt
N1_0065_TH_VTN_1	Thu Sep 10 09:52:45 JST 2026	Thu Sep 10 09:53:27 JST 2026	PASS	View Log TraceLog_091026_095245_296.txt
N1_0070_TH_VTN_1	Thu Sep 10 09:53:44 JST 2026	Thu Sep 10 09:54:32 JST 2026	PASS	View Log TraceLog_091026_095344_210.txt

EiOpt_Pull

Test Case Name	Start Time	End Time	Result	Log
P1_2010_TH_VTN_1	Thu Sep 10 09:57:20 JST 2026	Thu Sep 10 09:57:50 JST 2026	PASS	View Log TraceLog_091026_095720_130.txt
P1_2015_TH_VTN_1	Thu Sep 10 09:58:32 JST 2026	Thu Sep 10 09:59:02 JST 2026	PASS	View Log TraceLog_091026_095832_944.txt
P1_2020_TH_VTN_1	Thu Sep 10 09:59:16 JST 2026	Thu Sep 10 09:59:46 JST 2026	PASS	View Log TraceLog_091026_095916_557.txt
P1_2030_TH_VTN_1	Thu Sep 10 09:59:59 JST 2026	Thu Sep 10 10:00:31 JST 2026	PASS	View Log TraceLog_091026_095959_614.txt
P1_2040_TH_VTN_1	Thu Sep 10 10:00:44 JST 2026	Thu Sep 10 10:01:16 JST 2026	PASS	View Log TraceLog_091026_100044_761.txt
P1_2050_TH_VTN_1	Thu Sep 10 10:01:25 JST 2026	Thu Sep 10 10:01:27 JST 2026	NA	View Log TraceLog_091026_100125_486.txt

TEST REPORT

EiReport_Pull

Test Case Name	Start Time	End Time	Result	Log
R1_3010_TH_VTN_1	Thu Sep 10 10:02:22 JST 2026	Thu Sep 10 10:02:53 JST 2026	PASS	View Log TraceLog_091026_100222_177.txt
R1_3020_TH_VTN_1	Thu Sep 10 10:03:06 JST 2026	Thu Sep 10 10:04:22 JST 2026	PASS	View Log TraceLog_091026_100306_641.txt
R1_3025_TH_VTN_1	Thu Sep 10 10:04:36 JST 2026	Thu Sep 10 10:07:58 JST 2026	PASS	View Log TraceLog_091026_100436_305.txt
R1_3027_TH_VTN_1	Thu Sep 10 10:08:14 JST 2026	Thu Sep 10 10:12:49 JST 2026	PASS	View Log TraceLog_091026_100814_918.txt
R1_3030_TH_VTN_1	Thu Sep 10 10:13:04 JST 2026	Thu Sep 10 10:14:45 JST 2026	PASS	View Log TraceLog_091026_101304_595.txt
R1_3040_TH_VTN_1	Thu Sep 10 10:15:01 JST 2026	Thu Sep 10 10:15:42 JST 2026	PASS	View Log TraceLog_091026_101501_534.txt
R1_3045_TH_VTN_1	Thu Sep 10 10:15:57 JST 2026	Thu Sep 10 10:16:39 JST 2026	PASS	View Log TraceLog_091026_101557_284.txt
R1_3050_TH_VTN_1	Thu Sep 10 10:16:53 JST 2026	Thu Sep 10 10:17:23 JST 2026	PASS	View Log TraceLog_091026_101653_875.txt
R1_3060_TH_VTN_1	Thu Sep 10 10:17:44 JST 2026	Thu Sep 10 10:18:16 JST 2026	PASS	View Log TraceLog_091026_101744_309.txt
R1_3150_TH_VTN_1	Thu Sep 10 10:18:35 JST 2026	Thu Sep 10 10:19:48 JST 2026	PASS	View Log TraceLog_091026_101835_556.txt
R1_3160_TH_VTN_1	Thu Sep 10 10:20:01 JST 2026	Thu Sep 10 10:24:08 JST 2026	PASS	View Log TraceLog_091026_102001_961.txt
R1_3170_TH_VTN_1	Thu Sep 10 10:24:21 JST 2026	Thu Sep 10 10:25:04 JST 2026	PASS	View Log TraceLog_091026_102421_661.txt
R1_3180_TH_VTN_1	Thu Sep 10 10:25:17 JST 2026	Thu Sep 10 10:26:00 JST 2026	PASS	View Log TraceLog_091026_102517_851.txt
R1_3190_TH_VTN_1	Thu Sep 10 10:26:14 JST 2026	Thu Sep 10 10:26:44 JST 2026	PASS	View Log TraceLog_091026_102614_879.txt

EiEvent_Pull: 1/3

Test Case Name	Start Time	End Time	Result	Log
E1_1010_TH_VTN_1	Thu Sep 10 10:28:06 JST 2026	Thu Sep 10 10:28:35 JST 2026	PASS	View Log TraceLog_091026_102806_158.txt
E1_1020_TH_VTN_1	Thu Sep 10 10:28:50 JST 2026	Thu Sep 10 10:29:18 JST 2026	PASS	View Log TraceLog_091026_102850_058.txt
E1_1025_TH_VTN_1	Thu Sep 10 10:29:34 JST 2026	Thu Sep 10 10:30:01 JST 2026	PASS	View Log TraceLog_091026_102934_446.txt
E1_1027_TH_VTN_1	Thu Sep 10 10:30:15 JST 2026	Thu Sep 10 10:30:43 JST 2026	PASS	View Log TraceLog_091026_103015_400.txt
E1_1030_TH_VTN_1	Thu Sep 10 10:30:57 JST 2026	Thu Sep 10 10:31:36 JST 2026	PASS	View Log TraceLog_091026_103057_934.txt
E1_1040_TH_VTN_1	Thu Sep 10 10:31:50 JST 2026	Thu Sep 10 10:32:38 JST 2026	PASS	View Log TraceLog_091026_103150_189.txt
E1_1055_TH_VTN_1	Thu Sep 10 10:32:58 JST 2026	Thu Sep 10 10:33:42 JST 2026	PASS	View Log TraceLog_091026_103258_389.txt
E1_1060_TH_VTN_1	Thu Sep 10 10:33:59 JST 2026	Thu Sep 10 10:34:34 JST 2026	PASS	View Log TraceLog_091026_103359_051.txt
E1_1065_TH_VTN_1	Thu Sep 10 10:34:46 JST 2026	Thu Sep 10 10:34:47 JST 2026	NA	View Log TraceLog_091026_103446_093.txt
E1_1070_TH_VTN_1	Thu Sep 10 10:34:57 JST 2026	Thu Sep 10 10:35:19 JST 2026	PASS	View Log TraceLog_091026_103457_503.txt
E1_1080_TH_VTN_1	Thu Sep 10 10:35:36 JST 2026	Thu Sep 10 10:35:58 JST 2026	PASS	View Log TraceLog_091026_103536_297.txt
E1_1090_TH_VTN_1	Thu Sep 10 10:36:15 JST 2026	Thu Sep 10 10:37:11 JST 2026	PASS	View Log TraceLog_091026_103615_019.txt

TEST REPORT

EiEvent_Pull: 2/3

A_E1_0020_TH_VTN_1	Thu Sep 10 10:37:37 JST 2026	Thu Sep 10 10:38:27 JST 2026	PASS	View Log TraceLog_091026_103737_058.txt
A_E1_0040_TH_VTN_1	Thu Sep 10 10:38:41 JST 2026	Thu Sep 10 10:39:11 JST 2026	PASS	View Log TraceLog_091026_103841_793.txt
A_E1_0060_TH_VTN_1	Thu Sep 10 10:39:25 JST 2026	Thu Sep 10 10:39:54 JST 2026	PASS	View Log TraceLog_091026_103925_850.txt
A_E1_0070_TH_VTN_1	Thu Sep 10 10:40:05 JST 2026	Thu Sep 10 10:40:36 JST 2026	PASS	View Log TraceLog_091026_104005_814.txt
A_E1_0082_TH_VTN_1	Thu Sep 10 10:40:48 JST 2026	Thu Sep 10 10:41:19 JST 2026	PASS	View Log TraceLog_091026_104048_825.txt
A_E1_0086_TH_VTN_1	Thu Sep 10 10:41:30 JST 2026	Thu Sep 10 10:42:08 JST 2026	PASS	View Log TraceLog_091026_104130_763.txt
A_E1_0090_TH_VTN_1	Thu Sep 10 10:42:20 JST 2026	Thu Sep 10 10:43:02 JST 2026	PASS	View Log TraceLog_091026_104220_498.txt
A_E1_0092_TH_VTN_1	Thu Sep 10 10:43:13 JST 2026	Thu Sep 10 10:44:14 JST 2026	PASS	View Log TraceLog_091026_104313_626.txt
A_E1_0094_TH_VTN_1	Thu Sep 10 10:44:25 JST 2026	Thu Sep 10 10:44:54 JST 2026	PASS	View Log TraceLog_091026_104425_819.txt
A_E1_0096_TH_VTN_1	Thu Sep 10 10:45:08 JST 2026	Thu Sep 10 10:45:56 JST 2026	PASS	View Log TraceLog_091026_104508_218.txt
A_E1_0098_TH_VTN_1	Thu Sep 10 10:46:07 JST 2026	Thu Sep 10 10:46:49 JST 2026	PASS	View Log TraceLog_091026_104607_860.txt
A_E1_0100_TH_VTN_1	Thu Sep 10 10:47:02 JST 2026	Thu Sep 10 10:47:43 JST 2026	PASS	View Log TraceLog_091026_104702_187.txt
A_E1_0102_TH_VTN_1	Thu Sep 10 10:47:55 JST 2026	Thu Sep 10 10:48:36 JST 2026	PASS	View Log TraceLog_091026_104755_998.txt
A_E1_0104_TH_VTN_1	Thu Sep 10 10:48:47 JST 2026	Thu Sep 10 10:49:27 JST 2026	PASS	View Log TraceLog_091026_104847_862.txt
A_E1_0110_TH_VTN_1	Thu Sep 10 10:49:41 JST 2026	Thu Sep 10 10:50:13 JST 2026	PASS	View Log TraceLog_091026_104941_597.txt
A_E1_0130_TH_VTN_1	Thu Sep 10 10:50:26 JST 2026	Thu Sep 10 10:50:57 JST 2026	PASS	View Log TraceLog_091026_105026_424.txt
A_E1_0180_TH_VTN_1	Thu Sep 10 10:51:09 JST 2026	Thu Sep 10 10:51:52 JST 2026	PASS	View Log TraceLog_091026_105109_633.txt
A_E1_0190_TH_VTN_1	Thu Sep 10 10:52:03 JST 2026	Thu Sep 10 10:52:45 JST 2026	PASS	View Log TraceLog_091026_105203_937.txt
A_E1_0200_TH_VTN_1	Thu Sep 10 10:53:19 JST 2026	Thu Sep 10 10:53:57 JST 2026	PASS	View Log TraceLog_091026_105319_706.txt
A_E1_0210_TH_VTN_1	Thu Sep 10 10:54:33 JST 2026	Thu Sep 10 11:00:10 JST 2026	PASS	View Log TraceLog_091026_105433_440.txt
A_E1_0220_TH_VTN_1	Thu Sep 10 11:00:24 JST 2026	Thu Sep 10 11:05:17 JST 2026	PASS	View Log TraceLog_091026_110024_161.txt
A_E1_0230_TH_VTN_1	Thu Sep 10 11:05:33 JST 2026	Thu Sep 10 11:12:28 JST 2026	PASS	View Log TraceLog_091026_110533_816.txt
A_E1_0240_TH_VTN_1	Thu Sep 10 11:12:46 JST 2026	Thu Sep 10 11:14:43 JST 2026	PASS	View Log TraceLog_091026_111246_284.txt
A_E1_0250_TH_VTN_1	Thu Sep 10 11:14:59 JST 2026	Thu Sep 10 11:17:57 JST 2026	PASS	View Log TraceLog_091026_111459_672.txt
A_E1_0260_TH_VTN_1	Thu Sep 10 11:18:17 JST 2026	Thu Sep 10 11:24:58 JST 2026	PASS	View Log TraceLog_091026_111817_568.txt
A_E1_0260_TH_VTN_1	Thu Sep 10 11:25:11 JST 2026	Thu Sep 10 11:30:37 JST 2026	PASS	View Log TraceLog_091026_112511_784.txt
A_E1_0260_TH_VTN_1	Thu Sep 10 11:30:50 JST 2026	Thu Sep 10 11:36:39 JST 2026	PASS	View Log TraceLog_091026_113050_639.txt
A_E1_0262_TH_VTN_1	Thu Sep 10 11:36:53 JST 2026	Thu Sep 10 11:43:43 JST 2026	PASS	View Log TraceLog_091026_113653_929.txt
A_E1_0262_TH_VTN_1	Thu Sep 10 11:43:56 JST 2026	Thu Sep 10 11:51:41 JST 2026	PASS	View Log TraceLog_091026_114356_314.txt
A_E1_0262_TH_VTN_1	Thu Sep 10 11:51:57 JST 2026	Thu Sep 10 11:57:13 JST 2026	PASS	View Log TraceLog_091026_115157_017.txt

TEST REPORT

EiEvent_Pull: 3/3

A_E1_0267_TH_VTN_1	Thu Sep 10 11:57:27 JST 2026	Thu Sep 10 12:02:52 JST 2026	PASS	View Log TraceLog_091026_115727_651.txt
A_E1_0267_TH_VTN_1	Thu Sep 10 12:03:06 JST 2026	Thu Sep 10 12:07:59 JST 2026	PASS	View Log TraceLog_091026_120306_910.txt
A_E1_0267_TH_VTN_1	Thu Sep 10 12:08:13 JST 2026	Thu Sep 10 12:12:35 JST 2026	PASS	View Log TraceLog_091026_120813_221.txt
A_E1_0268_TH_VTN_1	Thu Sep 10 12:12:50 JST 2026	Thu Sep 10 12:17:57 JST 2026	PASS	View Log TraceLog_091026_121250_975.txt
A_E1_0268_TH_VTN_1	Thu Sep 10 12:18:11 JST 2026	Thu Sep 10 12:24:12 JST 2026	PASS	View Log TraceLog_091026_121811_462.txt
A_E1_0268_TH_VTN_1	Thu Sep 10 12:24:28 JST 2026	Thu Sep 10 12:30:22 JST 2026	PASS	View Log TraceLog_091026_122428_156.txt
A_E1_0270_TH_VTN_1	Thu Sep 10 13:25:10 JST 2026	Thu Sep 10 13:31:55 JST 2026	PASS	View Log TraceLog_091026_132510_051.txt
A_E1_0280_TH_VTN_1	Thu Sep 10 13:32:20 JST 2026	Thu Sep 10 13:34:29 JST 2026	PASS	View Log TraceLog_091026_133220_583.txt
A_E1_0285_TH_VTN_1	Thu Sep 10 13:34:52 JST 2026	Thu Sep 10 13:35:22 JST 2026	PASS	View Log TraceLog_091026_133452_504.txt
A_E1_0300_TH_VTN_1	Thu Sep 10 13:35:36 JST 2026	Thu Sep 10 13:36:05 JST 2026	PASS	View Log TraceLog_091026_133536_090.txt
A_E1_0310_TH_VTN_1	Thu Sep 10 13:36:18 JST 2026	Thu Sep 10 13:37:17 JST 2026	PASS	View Log TraceLog_091026_133618_442.txt
A_E1_0340_TH_VTN_1	Thu Sep 10 13:37:32 JST 2026	Thu Sep 10 13:38:02 JST 2026	PASS	View Log TraceLog_091026_133732_934.txt
A_E1_0345_TH_VTN_1	Thu Sep 10 13:38:19 JST 2026	Thu Sep 10 13:38:47 JST 2026	PASS	View Log TraceLog_091026_133819_075.txt
A_E1_0360_TH_VTN_1	Thu Sep 10 13:39:00 JST 2026	Thu Sep 10 13:39:30 JST 2026	PASS	View Log TraceLog_091026_133900_528.txt
A_E1_0370_TH_VTN_1	Thu Sep 10 13:39:42 JST 2026	Thu Sep 10 13:42:40 JST 2026	PASS	View Log TraceLog_091026_133942_548.txt
A_E1_0390_TH_VTN_1	Thu Sep 10 13:42:50 JST 2026	Thu Sep 10 13:43:34 JST 2026	PASS	View Log TraceLog_091026_134250_700.txt
A_E1_0392_TH_VTN_1	Thu Sep 10 13:43:47 JST 2026	Thu Sep 10 13:46:32 JST 2026	PASS	View Log TraceLog_091026_134347_693.txt

General_Pull

Test Case Name	Start Time	End Time	Result	Log
G1_4005_TH_VTN_1	Thu Sep 10 13:49:28 JST 2026	Thu Sep 10 13:50:00 JST 2026	PASS	View Log TraceLog_091026_134928_454.txt
G1_4010_TH_VTN_1	Thu Sep 10 13:50:35 JST 2026	Thu Sep 10 13:51:09 JST 2026	PASS	View Log TraceLog_091026_135035_159.txt
G1_4007_TH_VTN_1	Thu Sep 10 13:51:53 JST 2026	Thu Sep 10 13:54:58 JST 2026	PASS	View Log TraceLog_091026_135153_566.txt
G1_4012_TH_VTN_1	Thu Sep 10 14:04:24 JST 2026	Thu Sep 10 14:04:59 JST 2026	PASS	View Log TraceLog_091026_140424_474.txt
G1_4015_TH_VTN_1	Thu Sep 10 14:05:13 JST 2026	Thu Sep 10 14:05:57 JST 2026	PASS	View Log TraceLog_091026_140513_918.txt
G1_4030_TH_VTN_1	Thu Sep 10 14:06:11 JST 2026	Thu Sep 10 14:06:50 JST 2026	PASS	View Log TraceLog_091026_140611_447.txt

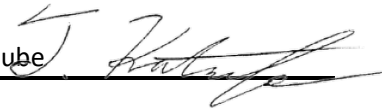
TEST REPORT

REPORT AUTHORIZED

Kenji Kitta
Engineer



Tadashi Katsube
Reviewer



*** End of Report ***