



Electronics Testing Center, Taiwan

Information and Communication Technology Service Lab.

No.8, Ln. 29, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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Test Report No : 19-07-CAV-016-01

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Electronics Testing Center, Taiwan

OpenADR Test Report

Product Name : FET auto-demand response module

Date of Issue : 2019/09/04





Electronics Testing Center, Taiwan

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1. Test Report Summary

Test Report No		19-07-CAV-016-01
Test specification		<ul style="list-style-type: none"> • OpenADR 2.0a Certification Test Specification Version 1.1.2 • OpenADR 2.0b Certification Test Specification Version 1.1.2
Client Name		Far EasTone Telecommunications Co., Ltd.
Client Address		No. 468, Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)
DUT Information	Product Name	FET auto-demand response module
	Product Model Number	FET auto-demand response module
	Product Type	<input type="checkbox"/> VTN <input checked="" type="checkbox"/> VEN
	Hardware Version	na
	Firmware Version	FET ADR 1.0
	OpenADR Profile	<input type="checkbox"/> 2.0a <input checked="" type="checkbox"/> 2.0b
	Security	<input checked="" type="checkbox"/> ECC <input checked="" type="checkbox"/> RSA
	Transport Protocol	<input checked="" type="checkbox"/> Simple HTTP <input type="checkbox"/> XMPP
	Pull and Push Mode	<input checked="" type="checkbox"/> Pull Mode <input checked="" type="checkbox"/> Push Mode
Test result		<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> Inconclusive_____
Date of order		2019/07/26
Date of Start		2019/07/26
Date of Issue		2019/09/04
Testing Laboratory		Electronics Testing Center, Taiwan
Note		This test report only relates to the test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.

Test by:	Reviewed by	Approved by :
 Test Engineer	 Technical Certifier	 Laboratory Head

2. Test Environment

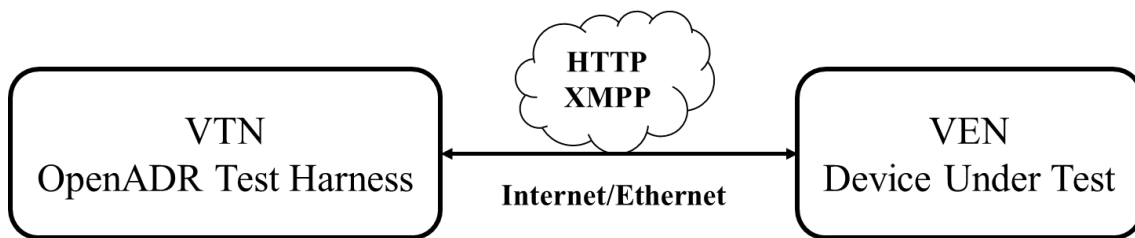
2.1 Testing Laboratory

- Lab name: Electronics Testing Center, Taiwan
Information and Communication Technology Service Lab.
- Address: No.8, Ln. 29, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

2.2 Test Equipment

- OpenADR 2.0 A & B Test Harness
 - QualityLogic OpenADR2.0aCertTest - v1.1.2
 - QualityLogic OpenADR2.0bCertTest - v1.1.2

2.3 Test Setup



3. Test Results Summary

3.1 Summary Test Result

DUT Test Profile:
2.0b VEN Pull Mode Tests: Passed
2.0b VEN Push Mode Tests: Passed

3.2 Test Result Date Table

Table 1 、 Pull Mode Test Result

No.	Test Case Name	Result	Log
EiRegisterParty Service Test Scenarios			
01	N1_0010_TH_VTN_1	PASS	View Log TraceLog_073019_131651_858.txt
02	N1_0015_TH_VTN_1	PASS	View Log TraceLog_073019_132558_997.txt
03	N1_0020_TH_VTN_1	PASS	View Log TraceLog_073019_135545_417.txt
04	N1_0025_TH_VTN_1	PASS	View Log TraceLog_073019_135911_617.txt
05	N1_0030_TH_VTN_1	PASS	View Log TraceLog_073019_151323_244.txt
06	N1_0040_TH_VTN_1	PASS	View Log TraceLog_073019_152138_310.txt
07	N1_0050_TH_VTN_1	PASS	View Log TraceLog_073019_152648_200.txt
08	N1_0060_TH_VTN_1	PASS	View Log TraceLog_073019_152817_761.txt
09	N1_0065_TH_VTN_1	PASS	View Log TraceLog_073019_153114_056.txt
10	N1_0070_TH_VTN_1	PASS	View Log TraceLog_073019_153458_313.txt
11	N1_0080_TH_VTN_1	NA	
EiOpt Service Test Scenarios			
01	P1_2010_TH_VTN_1	PASS	View Log TraceLog_073019_153947_168.txt
02	P1_2015_TH_VTN_1	PASS	View Log TraceLog_073019_154109_336.txt
03	P1_2020_TH_VTN_1	PASS	View Log TraceLog_073019_154212_361.txt
04	P1_2030_TH_VTN_1	PASS	View Log TraceLog_073019_154425_304.txt
05	P1_2040_TH_VTN_1	PASS	View Log TraceLog_073019_154548_961.txt
06	P1_2050_TH_VTN_1	NA	
EiReport Service Test Scenarios			
01	R1_3010_TH_VTN_1	PASS	View Log TraceLog_073019_154846_109.txt
02	R1_3020_TH_VTN_1	PASS	View Log TraceLog_073019_154959_764.txt
03	R1_3025_TH_VTN_1	PASS	View Log TraceLog_073019_161240_027.txt
04	R1_3027_TH_VTN_1	PASS	View Log TraceLog_073019_161619_950.txt
05	R1_3030_TH_VTN_1	PASS	View Log TraceLog_073019_163003_692.txt
06	R1_3040_TH_VTN_1	PASS	View Log TraceLog_073019_163242_449.txt
07	R1_3045_TH_VTN_1	PASS	View Log TraceLog_073019_163454_916.txt
08	R1_3050_TH_VTN_1	SKIP	
09	R1_3060_TH_VTN_1	SKIP	
10	R1_3070_TH_VTN_1	SKIP	
11	R1_3080_TH_VTN_1	SKIP	
12	R1_3090_TH_VTN_1	SKIP	
13	R1_3100_TH_VTN_1	SKIP	
14	R1_3120_TH_VTN_1	SKIP	
15	R1_3130_TH_VTN_1	SKIP	
16	R1_3140_TH_VTN_1	SKIP	
17	R1_3150_TH_VTN_1	PASS	View Log TraceLog_073019_163644_282.txt

18	R1_3160_TH_VTN_1	PASS	View Log TraceLog_073019_164613_971.txt
19	R1_3170_TH_VTN_1	PASS	View Log TraceLog_073019_165012_998.txt
20	R1_3180_TH_VTN_1	PASS	View Log TraceLog_073019_165408_160.txt
21	R1_3190_TH_VTN_1	PASS	View Log TraceLog_073019_165626_871.txt
EiEvent Service Test Scenarios			
01	E1_1010_TH_VTN_1	PASS	View Log TraceLog_073019_165840_544.txt
02	E1_1020_TH_VTN_1	PASS	View Log TraceLog_073019_165944_546.txt
03	E1_1025_TH_VTN_1	PASS	View Log TraceLog_073019_170044_130.txt
04	E1_1027_TH_VTN_1	PASS	View Log TraceLog_073019_170156_378.txt
05	E1_1030_TH_VTN_1	PASS	View Log TraceLog_073019_170307_741.txt
06	E1_1040_TH_VTN_1	PASS	View Log TraceLog_073019_170455_576.txt
07	E1_1050_TH_VTN_1	PASS	View Log TraceLog_073019_170901_733.txt
08	E1_1055_TH_VTN_1	PASS	View Log TraceLog_073019_171113_103.txt
09	E1_1060_TH_VTN_1	PASS	View Log TraceLog_073019_174953_786.txt
10	E1_1065_TH_VTN_1	NA	View Log TraceLog_073019_175142_244.txt
11	E1_1070_TH_VTN_1	PASS	View Log TraceLog_073019_175211_489.txt
12	E1_1080_TH_VTN_1	PASS	View Log TraceLog_073019_175336_567.txt
13	E1_1090_TH_VTN_1	PASS	View Log TraceLog_073019_175645_128.txt
EiEvent Ported A Profile Test Cases			
01	A_E1_0020_TH_VTN_1	PASS	View Log TraceLog_073119_125856_362.txt
02	A_E1_0040_TH_VTN_1	PASS	View Log TraceLog_073119_130120_000.txt
03	A_E1_0060_TH_VTN_1	PASS	View Log TraceLog_073119_130305_427.txt
04	A_E1_0070_TH_VTN_1	PASS	View Log TraceLog_073119_130414_133.txt
05	A_E1_0082_TH_VTN_1	PASS	View Log TraceLog_073119_130602_131.txt
06	A_E1_0086_TH_VTN_1	PASS	View Log TraceLog_073119_130704_359.txt
07	A_E1_0090_TH_VTN_1	PASS	View Log TraceLog_073119_130858_943.txt
08	A_E1_0092_TH_VTN_1	PASS	View Log TraceLog_073119_131025_969.txt
09	A_E1_0094_TH_VTN_1	PASS	View Log TraceLog_073119_131215_309.txt
10	A_E1_0096_TH_VTN_1	PASS	View Log TraceLog_073119_131326_890.txt
11	A_E1_0098_TH_VTN_1	PASS	View Log TraceLog_073119_131531_647.txt
12	A_E1_0100_TH_VTN_1	PASS	View Log TraceLog_073119_131733_792.txt
13	A_E1_0102_TH_VTN_1	PASS	View Log TraceLog_073119_131843_409.txt
14	A_E1_0104_TH_VTN_1	PASS	View Log TraceLog_073119_131959_719.txt
15	A_E1_0110_TH_VTN_1	PASS	View Log TraceLog_073119_132122_140.txt
16	A_E1_0130_TH_VTN_1	PASS	View Log TraceLog_073119_132226_545.txt
17	A_E1_0180_TH_VTN_1	PASS	View Log TraceLog_073119_132350_076.txt
18	A_E1_0190_TH_VTN_1	PASS	View Log TraceLog_073119_132505_734.txt
19	A_E1_0200_TH_VTN_1	PASS	View Log TraceLog_073119_154954_908.txt
20	A_E1_0210_TH_VTN_1	PASS	View Log TraceLog_073119_132619_835.txt
21	A_E1_0220_TH_VTN_1	PASS	View Log TraceLog_073119_133206_328.txt
22	A_E1_0230_TH_VTN_1	PASS	View Log TraceLog_073119_134531_123.txt
23	A_E1_0240_TH_VTN_1	PASS	View Log TraceLog_073119_135217_406.txt
24	A_E1_0250_TH_VTN_1	PASS	View Log TraceLog_073119_135521_795.txt
25	A_E1_0260_TH_VTN_1	PASS	View Log TraceLog_073119_140839_643.txt
26	A_E1_0262_TH_VTN_1	PASS	View Log TraceLog_073119_142652_394.txt
27	A_E1_0267_TH_VTN_1	PASS	View Log TraceLog_080219_194343_445.txt
28	A_E1_0268_TH_VTN_1	PASS	View Log TraceLog_080219_195022_541.txt
29	A_E1_0270_TH_VTN_1	PASS	View Log TraceLog_073119_151132_129.txt
30	A_E1_0280_TH_VTN_1	PASS	View Log TraceLog_073119_151911_330.txt

31	A_E1_0285_TH_VTN_1	PASS	View Log TraceLog_073119_152134_045.txt
32	A_E1_0300_TH_VTN_1	PASS	View Log TraceLog_073119_152247_665.txt
33	A_E1_0310_TH_VTN_1	PASS	View Log TraceLog_073119_152401_519.txt
34	A_E1_0340_TH_VTN_1	PASS	View Log TraceLog_073119_152550_619.txt
35	A_E1_0345_TH_VTN_1	PASS	View Log TraceLog_073119_152714_938.txt
36	A_E1_0360_TH_VTN_1	PASS	View Log TraceLog_073119_152853_986.txt
37	A_E1_0370_TH_VTN_1	PASS	View Log TraceLog_080219_195704_881.txt
38	A_E1_0390_TH_VTN_1	PASS	View Log TraceLog_073119_153021_401.txt
39	A_E1_0392_TH_VTN_1	PASS	View Log TraceLog_073119_153144_894.txt
General Test Scenarios			
01	G1_4005_TH_VTN_1	PASS	View Log TraceLog_080219_201831_333.txt
02	G1_4007_TH_VTN_1	PASS	View Log TraceLog_080519_181112_657.txt
03	G1_4010_TH_VTN_1	PASS	View Log TraceLog_080219_202016_633.txt
04	G1_4011_TH_VTN_1	NA	
05	G1_4012_TH_VTN_1	NA	
06	G1_4015_TH_VTN_1	PASS	View Log TraceLog_073119_190123_489.txt
07	G1_4030_TH_VTN_1	PASS	View Log TraceLog_073119_190326_554.txt

Table 2 、 Push Mode Test Result

No.	Test Case Name	Result	Log
EiRegisterParty Service Test Scenarios			
01	N0_5010_TH_VTN_1	PASS	View Log TraceLog_080519_182340_930.txt
02	N0_5020_TH_VTN_1	PASS	View Log TraceLog_080519_182932_899.txt
03	N0_5015_TH_VTN_1	PASS	View Log TraceLog_080519_183053_591.txt
04	N0_5030_TH_VTN_1	PASS	View Log TraceLog_080519_183354_402.txt
05	N0_5025_TH_VTN_1	PASS	View Log TraceLog_080519_183548_597.txt
06	N0_5040_TH_VTN	PASS	View Log TraceLog_080519_183736_770.txt
07	N0_5050_TH_VTN	PASS	View Log TraceLog_080519_184134_377.txt
08	N0_5060_TH_VTN_1	PASS	View Log TraceLog_080519_184256_488.txt
09	N0_5065_TH_VTN_1	PASS	View Log TraceLog_080519_184415_616.txt
10	N0_5070_TH_VTN_1	PASS	View Log TraceLog_080519_184546_366.txt
11	N0_5080_TH_VTN_1	PASS	View Log TraceLog_080519_184756_090.txt
EiOpt Service Test Scenarios			
01	P0_7010_TH_VTN_1	PASS	View Log TraceLog_080519_185046_232.txt
02	P0_7015_TH_VTN_1	PASS	View Log TraceLog_080519_185237_732.txt
03	P0_7020_TH_VTN_1	PASS	View Log TraceLog_080519_185350_528.txt
04	P0_7030_TH_VTN_1	PASS	View Log TraceLog_080519_185500_061.txt
05	P0_7040_TH_VTN_1	PASS	View Log TraceLog_080519_185624_634.txt
06	P0_7050_TH_VTN_1	NA	View Log TraceLog_080519_185800_126.txt
EiReport Service Test Scenarios			
01	R0_8010_TH_VTN	PASS	View Log TraceLog_080519_185822_118.txt
02	R0_8020_TH_VTN	PASS	View Log TraceLog_080519_185916_471.txt
03	R0_8025_TH_VTN	PASS	View Log TraceLog_080519_190046_726.txt
04	R0_8027_TH_VTN	PASS	View Log TraceLog_080519_190338_247.txt
05	R0_8030_TH_VTN	PASS	View Log TraceLog_080519_190754_545.txt
06	R0_8040_TH_VTN	PASS	View Log TraceLog_080519_190933_649.txt
07	R0_8045_TH_VTN	PASS	View Log TraceLog_080519_191031_315.txt
08	R0_8050_TH_VTN	SKIP	
09	R0_8060_TH_VTN_1	SKIP	
10	R0_8070_TH_VTN_1	SKIP	
11	R0_8080_TH_VTN_1	SKIP	
12	R0_8090_TH_VTN_1	SKIP	
13	R0_8100_TH_VTN_1	SKIP	
14	R0_8120_TH_VTN	SKIP	
15	R0_8130_TH_VTN	SKIP	
16	R0_8140_TH_VTN	SKIP	
17	R0_8150_TH_VTN	PASS	View Log TraceLog_080519_191321_727.txt
18	R0_8160_TH_VTN	PASS	View Log TraceLog_080519_191443_421.txt
19	R0_8170_TH_VTN	PASS	View Log TraceLog_080519_191721_737.txt
20	R0_8180_TH_VTN	PASS	View Log TraceLog_080519_191827_542.txt
21	R0_8190_TH_VTN	PASS	View Log TraceLog_080519_191934_041.txt
EiEvent Service Test Scenarios			
01	E0_6010_TH_VTN	PASS	View Log TraceLog_080619_165345_161.txt
02	E0_6020_TH_VTN	PASS	View Log TraceLog_080619_165457_924.txt
03	E0_6025_TH_VTN	PASS	View Log TraceLog_080619_165800_621.txt

04	E0_6027_TH_VTN	PASS	View Log TraceLog_080619_165859_860.txt
05	E0_6030_TH_VTN	PASS	View Log TraceLog_080619_170031_237.txt
06	E0_6040_TH_VTN	PASS	View Log TraceLog_080619_170145_887.txt
07	E0_6050_TH_VTN_1	PASS	View Log TraceLog_080619_170403_100.txt
08	E0_6055_TH_VTN	PASS	View Log TraceLog_080619_170558_304.txt
09	E0_6060_TH_VTN	PASS	View Log TraceLog_080619_170728_283.txt
10	E0_6065_TH_VTN	NA	View Log TraceLog_080619_170917_105.txt
11	E0_6070_TH_VTN	PASS	View Log TraceLog_080619_170933_274.txt
12	E0_6080_TH_VTN	PASS	View Log TraceLog_080619_171015_357.txt
13	E0_6090_TH_VTN	PASS	View Log TraceLog_080619_171105_197.txt
EiEvent Ported A Profile Test Cases			
01	A_E0_0020_TH_VTN_1	PASS	View Log TraceLog_080619_171240_137.txt
02	A_E0_0040_TH_VTN	PASS	View Log TraceLog_080619_171613_964.txt
03	A_E0_0060_TH_VTN_1	PASS	View Log TraceLog_080619_171722_986.txt
04	A_E0_0070_TH_VTN_1	PASS	View Log TraceLog_080619_171847_765.txt
05	A_E0_0082_TH_VTN_1	PASS	View Log TraceLog_080619_172024_120.txt
06	A_E0_0086_TH_VTN_1	PASS	View Log TraceLog_080619_172308_180.txt
07	A_E0_0090_TH_VTN_1	PASS	View Log TraceLog_080619_172646_259.txt
08	A_E0_0092_TH_VTN_1	PASS	View Log TraceLog_080619_172814_903.txt
09	A_E0_0094_TH_VTN_1	PASS	View Log TraceLog_080619_172923_640.txt
10	A_E0_0096_TH_VTN	PASS	View Log TraceLog_080619_173053_290.txt
11	A_E0_0098_TH_VTN_1	PASS	View Log TraceLog_080619_173210_758.txt
12	A_E0_0102_TH_VTN_1	PASS	View Log TraceLog_080619_174243_509.txt
13	A_E0_0104_TH_VTN_1	PASS	View Log TraceLog_080619_174419_722.txt
14	A_E0_0104_TH_VTN_1	PASS	View Log TraceLog_080619_174535_530.txt
15	A_E0_0100_TH_VTN_1	PASS	View Log TraceLog_080619_174831_839.txt
16	A_E0_0110_TH_VTN_1	PASS	View Log TraceLog_080619_175029_063.txt
17	A_E0_0130_TH_VTN_1	PASS	View Log TraceLog_080619_175126_159.txt
18	A_E0_0180_TH_VTN_1	PASS	View Log TraceLog_080619_175421_953.txt
19	A_E0_0185_TH_VTN_1	PASS	View Log TraceLog_080619_175548_099.txt
20	A_E0_0200_TH_VTN_1	PASS	View Log TraceLog_081219_144316_963.txt
21	A_E0_0210_TH_VTN_1	PASS	View Log TraceLog_080619_181402_766.txt
22	A_E0_0220_TH_VTN_1	PASS	View Log TraceLog_080619_180410_702.txt
23	A_E0_0230_TH_VTN	PASS	View Log TraceLog_080619_182900_612.txt
24	A_E0_0240_TH_VTN	PASS	View Log TraceLog_080619_183558_553.txt
25	A_E0_0250_TH_VTN_1	PASS	View Log TraceLog_080619_183747_794.txt
26	A_E0_0260_TH_VTN_1	PASS	View Log TraceLog_081219_133616_706.txt
27	A_E0_0262_TH_VTN_1	PASS	View Log TraceLog_081219_135358_263.txt
28	A_E0_0267_TH_VTN_1	PASS	View Log TraceLog_081219_141623_139.txt
29	A_E0_0268_TH_VTN_1	PASS	View Log TraceLog_081219_142113_134.txt
30	A_E0_0270_TH_VTN_1	PASS	View Log TraceLog_081219_125932_816.txt
31	A_E0_0280_TH_VTN_1	PASS	View Log TraceLog_081219_130817_445.txt
32	A_E0_0285_TH_VTN_1	PASS	View Log TraceLog_081219_131023_191.txt
33	A_E0_0300_TH_VTN_1	PASS	View Log TraceLog_081219_131130_358.txt
34	A_E0_0310_TH_VTN_1	PASS	View Log TraceLog_081219_131235_486.txt
35	A_E0_0340_TH_VTN_1	PASS	View Log TraceLog_081219_131508_774.txt
36	A_E0_0345_TH_VTN_1	PASS	View Log TraceLog_081219_131615_514.txt
37	A_E0_0360_TH_VTN_1	PASS	View Log TraceLog_081219_131719_778.txt
38	A_E0_0370_TH_VTN_1	PASS	View Log TraceLog_081219_131942_627.txt

39	A_E0_0390_TH_VTN_1	PASS	View Log TraceLog_081219_132728_390.txt
40	A_E0_0392_TH_VTN_1	PASS	View Log TraceLog_081219_132836_317.txt
General Test Scenarios			
01	G0_9005_TH_VTN	PASS	View Log TraceLog_081219_144956_170.txt
02	G0_9010_TH_VTN	PASS	View Log TraceLog_081219_145253_189.txt
03	G0_9030_TH_VTN	PASS	View Log TraceLog_081219_145527_715.txt

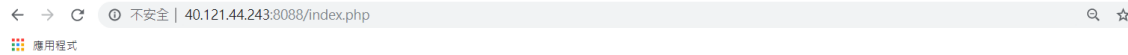
※The test result indicates “NA” that means the test cases are optional or not applicable to the tested device.

※The test result indicates “SKIP” that means the PICS test case guidelines allowed test case to be skipped.

※Log files for the executed test cases are provided in the electronic format.

4. Photos

Photo 1: DUT Setup GUI



VEN-Cert-Pull-App config:

HTTP_VTN_BaseURL:
 SECURITY: (0: NO_SECURITY; 1: SECURITY_RSA; 2: SECURITY_ECC)
 VTN_ID:
 VEN_ID:
 DR_MarketContext_Name:
 ResourceIDs:
 prompts:

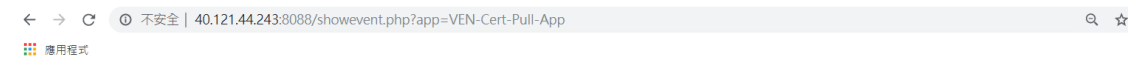
<http://40.121.44.243:8088/showlog.php?app=VEN-Cert-Pull-App>
<http://40.121.44.243:8088/showevent.php?app=VEN-Cert-Pull-App>

VEN-Cert-Push-App config:

HTTP_VEN_BaseURL:
 HTTP_VTN_BaseURL:
 SECURITY: (0: NO_SECURITY; 1: SECURITY_RSA; 2: SECURITY_ECC)
 VTN_ID:
 VEN_ID:
 DR_MarketContext_Name:
 ResourceIDs:
 prompts:

<http://40.121.44.243:8088/showlog.php?app=VEN-Cert-Push-App>
<http://40.121.44.243:8088/showevent.php?app=VEN-Cert-Push-App>

Photo 2: DUT Event GUI



```
EVENT_LIST:
**** event list ****
EVENT
id: Event073019_170516_635_0
status: active
dtstart: 2019-07-30T09:06:16Z
duration: 300s
-SIGNAL id: String
--INTERVAL uid: 0 duration: 300s value: 2.0

EVENT
id: Event073019_170517_135_1
status: far
dtstart: 2019-07-30T09:13:16Z
duration: 300s
-SIGNAL id: SIG_02
--INTERVAL uid: 0 duration: 300s value: 3.14
```

```
vendb.xml:
<?xml version="1.0" encoding="UTF-8"?>
<db>
  <VEN>
    <ID>VEN073019_153821_495</ID>
    <REGISTRATION_ID>REG073019_153821_995</REGISTRATION_ID>
    <POLL_S>18</POLL_S>
  </VEN>
  <VTN>
    <ID>TH_VTN</ID>
  </VTN>
</db>
```