OMA LwM2M TestFest
Summary and Results
09 – 12 July, 2017
Seoul, S.KOREA

TestFest	Registration Summary
Implementations Tested	
	- 12 Servers - 7 Clients
Engineers Registered	
Companies Attended	**15**

	- Including:
	   o AhnLab
	   o ARM
	   o AVSystem
	   o Ericsson
	   o Gemalto
	   o Hancom
	   o Institute for Information Industry
	   o IOTEROP
	   o Kookmin University
	   o Konas
	   o Nokia

Enabler Test Specifications used: OMA-ETS-LightweightM2M-V1_0_2-20180608-D.zip	
Issues Raised During the TestFest Event: https://github.com/OpenMobileAlliance/OMA_LwM2M_for_Developers/issues	

Session Number	Test Result Submissions
1	7
2	7
3	5
4	6
5	6
6	7
7	6
8	7
9	5
10	7
11	6
12	6
Total	**75**

Test Session Date & Number:

AnswerOptions		Response Count
09-Jul		15
10-Jul		24
11-Jul		27
12-Jul		18
State Session Number (Reference below if needed):		75

Please select the test result for each Test Case Description below:

Answer Options	Pass	Fail	Inconclusive	Not Applicable	Out of Time	Response Count
Bootstrap Interface						
LightweightM2M-1.0-int-0 – Client Initiated Bootstrap	50	2	1	17	5	75
LightweightM2M-1.0-int-1 – Client Initiated Bootstrap Full (PSK)	37	5	1	27	5	75
LightweightM2M-1.0-int-2 – Client Initiated Bootstrap Full (Cert)	0	1	0	68	6	75
LightweightM2M-1.0-int-3 – Simple Bootstrap from Smartcard	13	1	0	55	6	75
Registration Interface						
LightweightM2M-1.0-int-101 – Initial Registration	72	0	0	0	3	75
LightweightM2M-1.0-int-102 – Registration Update	71	1	0	0	3	75
LightweightM2M-1.0-int-103 – Deregistration	70	0	0	0	5	75
LightweightM2M-1.0-int-104 – Registration Update Trigger	70	0	0	0	5	75
Device management & Service Enablement Interface						
LightweightM2M-1.0-int-201 – Querying basic information in Plain Text format	70	0	0	0	5	75
LightweightM2M-1.0-int-203 – Querying basic information in TLV format	70	0	0	0	5	75
LightweightM2M-1.0-int-204 – Querying basic information in JSON format	53	1	0	16	5	75
LightweightM2M-1.0-int-205 – Setting basic information in Plain Text format	70	0	0	0	5	75
LightweightM2M-1.0-int-215 – Setting basic information in TLV format	68	0	1	1	5	75
LightweightM2M-1.0-int-220 – Setting basic information in JSON format	50	3	0	16	6	75
LightweightM2M-1.0-int-241 – Executable Resource: Rebooting the device	69	0	0	0	6	75
LightweightM2M-1.0-int-260 – Discover Command	54	0	0	15	6	75
INFORMATION REPORTING INTERFACE						
LightweightM2M-1.0-int-301 – Observation and Notification of parameter values	61	0	0	7	7	75
LightweightM2M-1.0-int-302 – Cancel Observations using Reset Operation	58	0	0	10	7	75
LightweightM2M-1.0-int-303 – Cancel Observations using Observe with Cancel parameter	34	0	0	32	9	75

Results by Test Case:

SECURITY						
LightweightM2M-1.0-int-401 – UDP Channel Security – Pre-shared Key Mode	59	3	0	5	8	75
LightweightM2M-1.0-int-402 – UDP Channel Security – Certified Mode	1	0	0	63	11	75
LightweightM2M-1.0-int-403 – UDP Channel Security – Certified Mode (Server Identify Verification Failure)	1	0	0	63	11	75
LWM2M SERVER (ID 3)						
LightweightM2M-1.0-int-651 – Check Access to the Resources	58	0	0	9	8	75
LightweightM2M-1.0-int-652 – Querying the firmware version from the client	66	0	0	0	9	75
LightweightM2M-1.0-int-680 – Create Object Instance	51	0	0	15	9	75
LightweightM2M-1.0-int-685 – Delete Object Instance	63	0	0	3	9	75
LWM2M CONNECTIVITY MONITORING (ID 4)						
LightweightM2M-1.0-int-701 – Querying the readable resources of object	52	0	0	14	9	75
LightweightM2M-1.0-int-710 – Basic Observation and notification on Connectivity Monitoring Object Resources	47	0	1	18	9	75
FIRMWARE UPDATE OBJECT (ID 5)						
LightweightM2M-1.0-int-751 – Querying the readable resources	61	0	0	3	9	73
LightweightM2M-1.0-int-755 – Setting the writable Resource Package	40	2	0	18	12	72
LightweightM2M-1.0-int-756 – Setting the writable Resource Package URI	53	0	0	7	13	73
LightweightM2M-1.0-int-760 –Basic Observation and notification on Firmware Update Object Resources	50	0	0	11	12	73
LightweightM2M-1.0-int-770 – Successful Firmware update (via COAP)	46	0	0	14	13	73
LightweightM2M-1.0-int-771 – Successful Firmware update (via alternative mechanism)	50	0	0	8	15	73
LightweightM2M-1.0-int-772 – Error Case 1: firmware installation without downloaded package	49	0	0	9	15	73
LightweightM2M-1.0-int-773 – Error Case 2: shortage of storage memory	44	1	0	11	17	73
LightweightM2M-1.0-int-774 – Error Case 3: out of memory	34	1	0	22	16	73
LightweightM2M-1.0-int-775 – Error Case 4: Connection lost during download (package URI)	41	1	0	15	16	73
LightweightM2M-1.0-int-776 – Error Case 5: Package Integrity check failure	46	1	0	10	16	73
LightweightM2M-1.0-int-777 – Error Case 6: unsupported package type	48	1	0	8	16	73
LightweightM2M-1.0-int-778 – Error Case 7: invalid URI (package URI)	48	1	0	8	16	73
LightweightM2M-1.0-int-779 – Error Case 8: Unsuccessful Firmware Update	43	1	0	12	17	73
LightweightM2M-1.0-int-780 – Error Case 9: Unsupported protocol	40	1	0	14	18	73
LOCATION OBJECT (ID 6)						
LightweightM2M-1.0-int-801 – Querying the readable resources of object	59	0	0	0	14	73
LightweightM2M-1.0-int-810 – Basic Observation and notification on Location Object Instance	58	0	0	1	14	73
CONNECTIVITY STATISTICS (ID 7)						
LightweightM2M-1.0-int-901 – Querying a Data Collection from Connectivity Object Instance	54	0	0	3	16	73
LightweightM2M-1.0-int-905 – Setting the writable resources	52	0	0	5	16	73
LightweightM2M-1.0-int-910 – Basic Observation and notification on Connectivity Monitoring Object Instance	53	0	0	4	16	73
Multi-Servers Context						
LightweightM2M- 1.0 - int-950 - Multi-Servers Registration	36	0	0	18	18	72
LightweightM2M- 1.0 - int-951 - Multi-Servers & Attributes	33	0	0	21	18	72

Results by Test Case:

CELLULAR NETWORK CONNECTIVITY (ID 10)					
LightweightM2M-1.0-int-1200 – Querying the readable resources of Object ID:10	21	0	0	39	13	73
LightweightM2M-1.0-int-1201 – Querying the readable resources of Object ID:10 in version 1.1	11	0	0	49	13	73
LightweightM2M-1.0-int-1202 – Setting the Power Saving Mode Resources of Object ID:10 (version 1.1 only)	11	0	0	49	13	73
LightweightM2M-1.0-int-1203 – Observation and notification on Object ID:0 related to Power Saving Mode Resources (version 1.1 only)	11	0	0	49	13	73
LightweightM2M-1.0-int-1204 – Observation and notification on Object ID: 10 related to timers	18	0	0	42	13	73
APN CONNECTION PROFILE (ID 11)					
LightweightM2M-CONMGMT - 1.0-int - 1250 - APN Configuration	18	0	0	41	14	73
BEARER SELECTION (ID 13)					
LightwightM2M-CONMGMT - 1.0-int-1350 - Bearer Selection	17	0	0	42	14	73
PORTFOLIO OBJECT (ID 16)					
LightweightM2M-1.0-int-1630 – Create Portfolio Object Instance	20	0	0	40	13	73
LightweightM2M-1.0-int-1635 – Delete Portfolio Object Instance	20	0	0	39	14	73
BinaryAppDataContainer Object (ID 19)					
LightweightM2M-1.0-int-1900 – Observation and notification on Object ID 19	15	0	0	44	14	73
LightweightM2M-1.0-int-1901 – Setting the writable Resource Data	12	1	0	45	14	72
Event Log Object (ID 20)					
LightweightM2M-1.0-int-2000 – Control the Log Function	13	0	0	46	14	73
LightweightM2M-1.0-int-2001 – Querying the readable resources	14	0	0	45	14	73
Totals	**2677**	**28**	**4**	**1246**	**696**	**4651**

Explanation of Test Cases Results

Test Case Result	Criteria
Pass	Both teams agree that the Test Case "Pass Criteria" has been met.
Fail	Both teams agreed that the Test Case "Pass Criteria" was not met.
Inconclusive	Teams are not in agreement of the Test result or the Test Case has not been run due to functionality not being tested as a result of an error in the implementation or other functionality that is required to run this Test Case.
Not Applicable	Test Case that has not been run due to one of the implementations does not support the functionality required to run this Test Case.
Out of Time	There was not enough time to test the Test Case.