OMA LwM2M v1.0 - Test Results - SVE-41 (Raleigh, NC, USA), 10-13 June 2024

Client v1.0 Teams: *AVSystem*

Server v1.0 Teams: *IoTerop*

OMA-ETS-LightweightM2M-V1_0_2-20180815-A.zip	Pass	Fail	Inconclusive	Not Applicable	Out of Time	*Totals*
Bootstrap Interface: [0-99]						
LightweightM2M-1.0-int-0 – Client Initiated Bootstrap	1	0	0	0	0	*1*
LightweightM2M-1.0-int-1 – Client Initiated Bootstrap Full (PSK)	1	0	0	0	0	*1*
LightweightM2M-1.0-int-2 – Client Initiated Bootstrap Full (Cert)	1	0	0	0	0	*1*
LightweightM2M-1.0-int-3 – Simple Bootstrap from Smartcard	0	0	0	1	0	*1*
Registration Interface [100-199]						
LightweightM2M-1.0-int-101 – Initial Registration	1	0	0	0	0	*1*
LightweightM2M-1.0-int-102 – Registration Update	1	0	0	0	0	*1*
LightweightM2M-1.0-int-103 – Deregistration	1	0	0	0	0	*1*
LightweightM2M-1.0-int-104 – Registration Update Trigger	1	0	0	0	0	*1*
Device management & Service Enablement Interface [200-299]						
LightweightM2M-1.0-int-201 – Querying basic information in Plain Text format	1	0	0	0	0	*1*
LightweightM2M-1.0-int-203 – Querying basic information in TLV format	1	0	0	0	0	*1*
LightweightM2M-1.0-int-204 – Querying basic information in JSON format	1	0	0	0	0	*1*
LightweightM2M-1.0-int-205 – Setting basic information in Plain Text format	1	0	0	0	0	*1*
LightweightM2M-1.0-int-215 – Setting basic information in TLV format	1	0	0	0	0	*1*
LightweightM2M-1.0-int-220 – Setting basic information in JSON format	0	0	0	1	0	*1*
LightweightM2M-1.0-int-241 – Executable Resource: Rebooting the device	1	0	0	0	0	*1*
LightweightM2M-1.0-int-260 – Discover Command	1	0	0	0	0	*1*
Information Reporting Interface [300-399]						
LightweightM2M-1.0-int-301 – Observation and Notification of parameter values	1	0	0	0	0	*1*
LightweightM2M-1.0-int-302 – Cancel Observations using Reset Operation	1	0	0	0	0	*1*
LightweightM2M-1.0-int-303 – Cancel Observations using Observe with Cancel parameter	1	0	0	0	0	*1*
Security [400-499]						
LightweightM2M-1.0-int-401 – UDP Channel Security – Pre-shared Key Mode	1	0	0	0	0	*1*
LightweightM2M-1.0-int-402 – UDP Channel Security – Certified Mode	1	0	0	0	0	*1*
LightweightM2M-1.0-int-403 – UDP Channel Security – Certified Mode (Server Identify Verification Failure)	1	0	0	0	0	*1*
LwM2M Device Object (ID 3) [650-699]						
LightweightM2M-1.0-int-651 – Check Access to the Resources	1	0	0	0	0	*1*
LightweightM2M-1.0-int-652 – Querying the firmware version from the client	1	0	0	0	0	*1*
LightweightM2M-1.0-int-680 – Create Object Instance	1	0	0	0	0	*1*
LightweightM2M-1.0-int-685 – Delete Object Instance	1	0	0	0	0	*1*
LwM2M Connectivity Monitoring (ID:4) [700-749].						
LightweightM2M-1.0-int-701 – Querying the readable resources of object	1	0	0	0	0	*1*
LightweightM2M-1.0-int-710 – Basic Observation and notification on Connectivity Monitoring Object Resources	1	0	0	0	0	*1*
Firmware Update Object (ID 5) [750-799]						
LightweightM2M-1.0-int-751 – Querying the readable resources	0	0	0	0	1	*1*
LightweightM2M-1.0-int-755 – Setting the writable Resource Package	0	0	0	0	1	*1*
LightweightM2M-1.0-int-756 – Setting the writable Resource Package URI	0	0	0	0	1	*1*
LightweightM2M-1.0-int-760 –Basic Observation and notification on Firmware Update Object Resources	0	0	0	0	1	*1*
LightweightM2M-1.0-int-770 – Successful Firmware update (via COAP)	0	0	0	0	1	*1*
LightweightM2M-1.0-int-771 – Successful Firmware update (via alternative mechanism)	0	0	0	0	1	*1*
LightweightM2M-1.0-int-772 – Error Case 1: firmware installation without downloaded package	Pass	Fail	0	0	1	*1*
LightweightM2M-1.0-int-773 – Error Case 2: shortage of storage memory	0	0	0	0	1	*1*
LightweightM2M-1.0-int-774 – Error Case 3: out of memory	0	0	0	0	1	*1*
LightweightM2M-1.0-int-775 – Error Case 4: Connection lost during download (package URI)	0	0	0	0	1	*1*
LightweightM2M-1.0-int-776 – Error Case 5: Package Integrity check failure	0	0	0	0	1	*1*
LightweightM2M-1.0-int-777 – Error Case 6: unsupported package type	0	0	0	0	1	*1*
LightweightM2M-1.0-int-778 – Error Case 7: invalid URI (package URI)	0	0	0	0	1	*1*

Test Case	PASS	FAIL	INCONCLUSIVE	NOT APPLICABLE	OUT OF TIME	Total
LightweightM2M-1.0-int-779 – Error Case 8: Unsuccessful Firmware Update	0	0	0	0	1	*1*
LwM2M Location Object (ID:6) [800-849]						
LightweightM2M-1.0-int-801 – Querying the readable resources of object	0	0	0	0	1	*1*
LightweightM2M-1.0-int-810 – Basic Observation and notification on Location Object Instance	0	0	0	0	1	*1*
Connectivity Statistics (ID 7) [900-949]						
LightweightM2M-1.0-int-901 – Querying a Data Collection from Connectivity Object Instance	0	0	0	0	1	*1*
LightweightM2M-1.0-int-905 – Setting the writable resources	0	0	0	0	1	*1*
LightweightM2M-1.0-int-910 – Basic Observation and notification on Connectivity Monitoring Object Instance	0	0	0	0	1	*1*
MULTI-SERVERS CONTEXT [950-999]						
LightweightM2M- 1.0 - int-950 - Multi-Servers Registration	0	0	0	0	1	*1*
LightweightM2M- 1.0 - int-951 - Multi-Servers & Attributes	0	0	0	0	1	*1*
Cellular Network Connectivity ID:10 [1200-1249]						
LightweightM2M-1.0-int-1200 – Querying the readable resources of Object ID:10	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1201 – Querying the readable resources of Object ID:10 in version 1.1	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1202 – Setting the Power Saving Mode Resources of Object ID:10 (version 1.1 only)	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1203 – Observation and notification on Object ID:0 related to Power Saving Mode Resources (version 1.1 only)	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1204 – Observation and notification on Object ID: 10 related to timers	0	0	0	0	1	*1*
APN connection profile ID:11 [1250-1299]						
LightweightM2M-CONMGMT - 1.0-int - 1250 - APN Configuration	0	0	0	0	1	*1*
Bearer Selection ID:13 [1350-1399]						
LightwightM2M-CONMGMT - 1.0-int-1350 - Bearer Selection	0	0	0	0	1	*1*
Portfolio Object (ID 16) [1600-1699]						
LightweightM2M-1.0-int-1630 – Create Portfolio Object Instance	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1635 – Delete Portfolio Object Instance	0	0	0	0	1	*1*
BinaryAppDataContainer Object (ID 19) [1900-1999]						
LightweightM2M-1.0-int-1900 – Observation and notification on Object ID 19	0	0	0	0	1	*1*
LightweightM2M-1.0-int-1901 – Setting the writable Resource Data	0	0	0	0	1	*1*
Event Log Object (ID 20) [2000-2099]						
LightweightM2M-1.0-int-2000 – Control the Log Function	0	0	0	0	1	*1*
LightweightM2M-1.0-int-2001 – Querying the readable resources	0	0	0	0	1	*1*
Totals	*26*	*0*	*0*	*2*	*34*	*62*

Problems Identified

None

Explanation of Test Cases Results

PASS: Both teams agree that they Pass – Criteria has been met

FAIL: Both teams agree that they Fail – Criteria has not been met

INCONCLUSIVE: Teams are not in agreement of the Test result

NOT APPLICABLE: Test cannot be performed due to lack of support by either of the implementations

OUT OF TIME: There was not enough time to test the Test Case