

**OMA LwM2M v1.0 - Test Results - Virtual SVE-40, 15-21 Nov 2023**

Client v1.0 Teams: IoTerop, Aethoros

Server v1.0 Teams: Aethoros, IoTerop and two (2) Servers

[OMA-ETS-LightweightM2M-V1\\_0\\_2-20180815-A.zip](#)

	Pass	Fail	Inconclusive	Not Applicable	Out of Time	Totals
<b>Bootstrap Interface: [0-99]</b>						
LightweightM2M-1.0-int-0 – Client Initiated Bootstrap	3	0	0	3	0	6
LightweightM2M-1.0-int-1 – Client Initiated Bootstrap Full (PSK)	3	0	0	3	0	6
LightweightM2M-1.0-int-2 – Client Initiated Bootstrap Full (Cert)	1	1	0	4	0	6
LightweightM2M-1.0-int-3 – Simple Bootstrap from Smartcard	0	0	0	6	0	6
<b>Registration Interface [100-199]</b>						
LightweightM2M-1.0-int-101 – Initial Registration	6	0	0	0	0	6
LightweightM2M-1.0-int-102 – Registration Update	6	0	0	0	0	6
LightweightM2M-1.0-int-103 – Deregistration	3	0	0	3	0	6
LightweightM2M-1.0-int-104 – Registration Update Trigger	6	0	0	0	0	6
<b>Device management &amp; Service Enablement Interface [200-299]</b>						
LightweightM2M-1.0-int-201 – Querying basic information in Plain Text format	6	0	0	0	0	6
LightweightM2M-1.0-int-203 – Querying basic information in TLV format	6	0	0	0	0	6
LightweightM2M-1.0-int-204 – Querying basic information in JSON format	1	0	0	5	0	6
LightweightM2M-1.0-int-205 – Setting basic information in Plain Text format	6	0	0	0	0	6
LightweightM2M-1.0-int-215 – Setting basic information in TLV format	5	1	0	0	0	6
LightweightM2M-1.0-int-220 – Setting basic information in JSON format	1	0	0	5	0	6
LightweightM2M-1.0-int-241 – Executable Resource: Rebooting the device	6	0	0	0	0	6
LightweightM2M-1.0-int-260 – Discover Command	2	0	0	4	0	6
<b>Information Reporting Interface [300-399]</b>						
LightweightM2M-1.0-int-301 – Observation and Notification of parameter values	4	0	0	1	0	5
LightweightM2M-1.0-int-302 – Cancel Observations using Reset Operation	2	0	0	3	0	5
LightweightM2M-1.0-int-303 – Cancel Observations using Observe with Cancel parameter	4	0	0	1	0	5
<b>Security [400-499]</b>						
LightweightM2M-1.0-int-401 – UDP Channel Security – Pre-shared Key Mode	5	1	0	0	0	6
LightweightM2M-1.0-int-402 – UDP Channel Security – Certified Mode	1	1	0	4	0	6
LightweightM2M-1.0-int-403 – UDP Channel Security – Certified Mode (Server Identify Verification Failure)	1	1	0	4	0	6
<b>LwM2M Device Object (ID 3) [650-699]</b>						
LightweightM2M-1.0-int-651 – Check Access to the Resources	6	0	0	0	0	6
LightweightM2M-1.0-int-652 – Querying the firmware version from the client	6	0	0	0	0	6
LightweightM2M-1.0-int-680 – Create Object Instance	5	0	0	1	0	6
LightweightM2M-1.0-int-685 – Delete Object Instance	5	0	0	1	0	6
<b>LwM2M Connectivity Monitoring (ID:4) [700-749].</b>						
LightweightM2M-1.0-int-701 – Querying the readable resources of object	5	0	1	0	0	6
LightweightM2M-1.0-int-710 – Basic Observation and notification on Connectivity Monitoring Object Resource	5	0	1	0	0	6
<b>Firmware Update Object (ID 5) [750-799]</b>						
LightweightM2M-1.0-int-751 – Querying the readable resources	5	0	0	1	0	6
LightweightM2M-1.0-int-755 – Setting the writable Resource Package	2	0	0	4	0	6
LightweightM2M-1.0-int-756 – Setting the writable Resource Package URI	2	0	0	4	0	6

LightweightM2M-1.0-int-760 –Basic Observation and notification on Firmware Update Object Resources	4	0	0	2	0	6
LightweightM2M-1.0-int-770 – Successful Firmware update (via COAP)	2	0	0	4	0	6
LightweightM2M-1.0-int-771 – Successful Firmware update (via alternative mechanism)	1	0	0	4	1	6
LightweightM2M-1.0-int-772 – Error Case 1: firmware installation without downloaded package	1	0	0	4	1	6
LightweightM2M-1.0-int-773 – Error Case 2: shortage of storage memory	0	0	0	5	1	6
LightweightM2M-1.0-int-774 – Error Case 3: out of memory	0	0	0	5	1	6
LightweightM2M-1.0-int-775 – Error Case 4: Connection lost during download (package URI)	0	0	0	5	1	6
LightweightM2M-1.0-int-776 – Error Case 5: Package Integrity check failure	0	0	0	5	1	6
LightweightM2M-1.0-int-777 – Error Case 6: unsupported package type	0	0	0	5	1	6
LightweightM2M-1.0-int-778 – Error Case 7: invalid URI (package URI)	0	0	0	5	1	6
LightweightM2M-1.0-int-779 – Error Case 8: Unsuccessful Firmware Update	0	0	0	5	1	6
<b>LwM2M Location Object (ID:6) [800-849]</b>						
LightweightM2M-1.0-int-801 – Querying the readable resources of object	6	0	0	0	0	6
LightweightM2M-1.0-int-810 – Basic Observation and notification on Location Object Instance	6	0	0	0	0	6
<b>Connectivity Statistics (ID 7) [900-949]</b>						
LightweightM2M-1.0-int-901 – Querying a Data Collection from Connectivity Object Instance	6	0	0	0	0	6
LightweightM2M-1.0-int-905 – Setting the writable resources	6	0	0	0	0	6
LightweightM2M-1.0-int-910 – Basic Observation and notification on Connectivity Monitoring Object Instance	6	0	0	0	0	6
<b>MULTI-SERVERS CONTEXT [950-999]</b>						
LightweightM2M- 1.0 - int-950 - Multi-Servers Registration	1	0	0	3	2	6
LightweightM2M- 1.0 - int-951 - Multi-Servers & Attributes	1	0	0	3	2	6
<b>Cellular Network Connectivity ID:10 [1200-1249]</b>						
LightweightM2M-1.0-int-1200 – Querying the readable resources of Object ID:10	3	0	0	3	0	6
LightweightM2M-1.0-int-1201 – Querying the readable resources of Object ID:10 in version 1.1	3	0	0	3	0	6
LightweightM2M-1.0-int-1202 – Setting the Power Saving Mode Resources of Object ID:10 (version 1.1 only)	2	0	0	4	0	6
LightweightM2M-1.0-int-1203 – Observation and notification on Object ID:0 related to Power Saving Mode Re	2	0	0	4	0	6
LightweightM2M-1.0-int-1204 – Observation and notification on Object ID: 10 related to timers	3	0	0	3	0	6
<b>APN connection profile ID:11 [1250-1299]</b>						
LightweightM2M-CONMGMT - 1.0-int - 1250 - APN Configuration	2	0	0	4	0	6
<b>Bearer Selection ID:13 [1350-1399]</b>						
LightweightM2M-CONMGMT - 1.0-int-1350 - Bearer Selection	2	0	0	4	0	6
<b>Portfolio Object (ID 16) [1600-1699]</b>						
LightweightM2M-1.0-int-1630 – Create Portfolio Object Instance	2	1	0	3	0	6
LightweightM2M-1.0-int-1635 – Delete Portfolio Object Instance	2	1	0	3	0	6
<b>BinaryAppDataContainer Object (ID 19) [1900-1999]</b>						
LightweightM2M-1.0-int-1900 – Observation and notification on Object ID 19	0	0	0	6	0	6
LightweightM2M-1.0-int-1901 – Setting the writable Resource Data	0	0	0	6	0	6
<b>Event Log Object (ID 20) [2000-2099]</b>						
LightweightM2M-1.0-int-2000 – Control the Log Function	0	0	0	6	0	6
LightweightM2M-1.0-int-2001 – Querying the readable resources	0	0	0	6	0	6
<b>Totals</b>	<b>180</b>	<b>7</b>	<b>2</b>	<b>167</b>	<b>13</b>	<b>369</b>
<b>Problems Identified</b>						
APN test : unable to retrieve resource 10/0/11 with content format specified Bearer Test : not object 12/ bad request to create and delete instance portfolio						

- object didnt provide with resource 13 14  
Not testing full firmware upgrade today.  
smnc issue - device reports as string for complete representation of smnc space  
incompatible dtls cipher suites  
215: device POST tlv parse issue

#### 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