

OMA LwM2M v1.2 - Test Results - SVE-41 (Raleigh, NC, USA), 10-13 June 2024Client v1.2 Team: *AVSystem*Server v1.2 Team: *IoTerop*[OMA-ETS-LightweightM2M_INT-V1_2-20231003-A.pdf](#)**Bootstrap Interface: [0-99]**

	Pass	Fail	Inconclusive	Not Applicable	Out of Time	Totals
LightweightM2M-1.1-int-0 – Client Initiated Bootstrap	1	0	0	0	0	1
LightweightM2M-1.1-int-1 – Client Initiated Bootstrap Full (PSK)	1	0	0	0	0	1
LightweightM2M-1.1-int-2 – Client Initiated Bootstrap Full (Cert)	0	0	0	1	0	1
LightweightM2M-1.1-int-3 – Simple Bootstrap from Smartcard	0	0	0	1	0	1
LightweightM2M-1.1-int-4 - Bootstrap Delete	1	0	0	0	0	1
LightweightM2M-1.1-int-5 - Server Initiated Bootstrap	1	0	0	0	0	1
LightweightM2M-1.1-int-6 - Bootstrap Sequence	0	0	0	1	0	1
LightweightM2M-1.1-int-7 - Fallback to bootstrap	1	0	0	0	0	1
LightweightM2M-1.1-int-8 - Bootstrap Read	0	0	0	1	0	1
LightweightM2M-1.1-int-9 - Bootstrap and Configuration Consistency	1	0	0	0	0	1
LightweightM2M-1.1-int-10 -- Client Initiated Bootstrap Full (EST)	0	0	0	1	0	1
LightweightM2M-1.2-int-11 -- Client Initiated Bootstrap (OSCORE Security)	1	0	0	0	0	1
LightweightM2M-1.2-int-12 -- Client bootstrap through use of Bootstrap-Pack Request to the BS	1	0	0	0	0	1
LightweightM2M-1.2-int-19 -- Client Initiated Bootstrap over MQTT	0	0	0	1	0	1

Registration Interface [100-199]

LightweightM2M-1.1-int-101 – Initial Registration	1	0	0	0	0	1
LightweightM2M-1.1-int-102 – Registration Update	1	0	0	0	0	1
LightweightM2M-1.1-int-103 – Deregistration	1	0	0	0	0	1
LightweightM2M-1.1-int-104 – Registration Update Trigger	1	0	0	0	0	1
LightweightM2M-1.1-int-105 - Discarded Register Update	1	0	0	0	0	1
LightweightM2M-1.1-int-106 – TCP Binding	1	0	0	0	0	1
LightweightM2M-1.1-int-107 – Extending the lifetime of a registration	1	0	0	0	0	1
LightweightM2M-1.1-int-108 – Turn on Queue Mode	1	0	0	0	0	1
LightweightM2M-1.1-int-109 – Behavior in Queue Mode	0	0	1	0	0	1
LightweightM2M-1.2-int-110 -- Initial Registration using Profile ID	0	0	0	1	0	1
LightweightM2M-1.2-int-111 -- Initial Registration Using Mix of Profile ID and Object List	0	0	0	1	0	1

Device management & Service Enablement Interface [200-299]

LightweightM2M-1.1-int-201 – Querying basic information in Plain Text format	1	0	0	0	0	1
LightweightM2M-1.1-int-203 – Querying basic information in TLV format	1	0	0	0	0	1
LightweightM2M-1.1-int-204 – Querying basic information in JSON format	1	0	0	0	0	1
LightweightM2M-1.1-int-205 – Setting basic information in Plain Text format	1	0	0	0	0	1
LightweightM2M-1.1-int-211 – Querying basic information in CBOR format	1	0	0	0	0	1
LightweightM2M-1.1-int-212 – Setting basic information in CBOR format	1	0	0	0	0	1
LightweightM2M-1.1-int-215 – Setting basic information in TLV format	1	0	0	0	0	1
LightweightM2M-1.1-int-220 – Setting basic information in JSON format	0	0	0	1	0	1
LightweightM2M-1.1-int-221 – Attempt to perform operations on Security Object (ID: 0)	0	0	0	1	0	1
LightweightM2M-1.1-int-222 – Read on Object	1	0	0	0	0	1
LightweightM2M-1.1-int-223 – Read on Object Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-224 – Read on Resource	1	0	0	0	0	1
LightweightM2M-1.1-int-225 – Read on Resource Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-226 – Write (Partial Update) on Object Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-227 – Write (replace) on Resource	1	0	0	0	0	1
LightweightM2M-1.1-int-228 – Write on Resource Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-229 – Read-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-230 – Write-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-231 – Querying basic information in SenML JSON format	1	0	0	0	0	1
LightweightM2M-1.1-int-232 – Querying basic information in SenML CBOR format	1	0	0	0	0	1

LightweightM2M-1.1-int-233 – Setting basic information in SenML CBOR format	1	0	0	0	0	1
LightweightM2M-1.1-int-234 – Setting basic information in SenML JSON format	1	0	0	0	0	1
LightweightM2M-1.1-int-235 – Read-Composite Operation on root path	1	0	0	0	0	1
LightweightM2M-1.1-int-236 – Read-Composite - Partial Presence	1	0	0	0	0	1
LightweightM2M-1.1-int-237 – Read on Object without specifying Content-Type	1	0	0	0	0	1
LightweightM2M-1.1-int-241 – Executable Resource: Rebooting the device	1	0	0	0	0	1
LightweightM2M-1.1-int-256 – Write Operation Failure	1	0	0	0	0	1
LightweightM2M-1.1-int-257 – Write-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-260 – Discover Command	1	0	0	0	0	1
LightweightM2M-1.1-int-261 – Write-Attribute Operation on a multiple resource	1	0	0	0	0	1
LightweightM2M-1.2-int-264 -- Discover Command on Object ID with Depth 1	0	0	0	1	0	1
LightweightM2M-1.2-int-266 -- Discover Command Object ID with Depth 3	0	0	0	1	0	1
LightweightM2M-1.1-int-280 – Successful Read-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-281 – Partially Successful Read-Composite Operation	1	0	0	0	0	1
Information Reporting Interface [300-399]						
LightweightM2M-1.1-int-301 – Observation and Notification of parameter values	1	0	0	0	0	1
LightweightM2M-1.1-int-302 – Cancel Observations using Reset Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-303 – Cancel observations using Observe with Cancel parameter	1	0	0	0	0	1
LightweightM2M-1.1-int-304 – Observe-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-305 – Cancel Observation-Composite Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-306 – Send Operation	1	0	0	0	0	1
LightweightM2M-1.1-int-307 – Muting Send	1	0	0	0	0	1
LightweightM2M-1.1-int-308 – Observe-Composite and Creating Object Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-309 – Observe-Composite and Deleting Object Instance	1	0	0	0	0	1
LightweightM2M-1.1-int-310 – Observe-Composite and modification of parameter values	1	0	0	0	0	1
LightweightM2M-1.1-int-311 – Send command	1	0	0	0	0	1
LightweightM2M-1.2-int-312 -- Observe operation carrying observe attributes as parameters	0	0	0	1	0	1
LightweightM2M-1.2-int-313 -- Observation with Notification parameter values overriding existing attributes	0	0	0	1	0	1
Information Reporting Interface [400-499]						
LightweightM2M-1.1-int-401 – UDP Channel Security – Pre-shared Key Mode	1	0	0	0	0	1
LightweightM2M-1.1-int-402 – UDP Channel Security – Certificate Mode	1	0	0	0	0	1
LightweightM2M-1.1-int-403 – UDP Channel Security – Certified Mode (Server Identify Verification Failure)	0	0	0	0	1	1
LightweightM2M-1.1-int-404 – TCP Channel Security – Certificate Mode	0	0	0	0	1	1
LightweightM2M-1.1-int-405 – OSCORE Security	1	0	0	0	0	1
LightweightM2M-1.1-int-406 -- TCP Channel Security -- Pre-shared Key Mode	1	0	0	0	0	1
LwM2M Device Object (ID 3) [650-699]						
LightweightM2M-1.1-int-651 – Check Access to the Resources	1	0	0	0	0	1
LightweightM2M-1.1-int-652 – Querying the firmware version from the client	1	0	0	0	0	1
LightweightM2M-1.1-int-680 – Create Object Instance	0	0	0	1	0	1
LightweightM2M-1.1-int-685 – Delete Object Instance	0	0	0	1	0	1
LwM2M Connectivity Monitoring (ID:4) [700-749].						
LightweightM2M-1.1-int-701 – Querying the readable resources of object	1	0	0	0	0	1
LightweightM2M-1.1-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-1.1-int-751 – Querying the readable resources	0	0	0	0	1	1
LightweightM2M-1.1-int-755 – Setting the writable Resource Package	0	0	0	0	1	1
LightweightM2M-1.1-int-756 – Setting the writable Resource Package URI	0	0	0	0	1	1
LightweightM2M-1.1-int-760 –Basic Observation and notification on Firmware Update Object Resources	0	0	0	0	1	1
LightweightM2M-1.1-int-770 – Successful Firmware update (via COAP)	0	0	0	0	1	1
LightweightM2M-1.1-int-771 – Successful Firmware update (via alternative mechanism)	0	0	0	0	1	1
LightweightM2M-1.1-int-772 – Error Case 1: firmware installation without downloaded package	0	0	0	0	1	1
LightweightM2M-1.1-int-773 – Error Case 2: shortage of storage memory	0	0	0	0	1	1
LightweightM2M-1.1-int-774 – Error Case 3: out of memory	0	0	0	0	1	1

LightweightM2M-1.1-int-775 – Error Case 4: Connection lost during download (package URI)	0	0	0	0	1	1
LightweightM2M-1.1-int-776 – Error Case 5: Package Integrity check failure	0	0	0	0	1	1
LightweightM2M-1.1-int-777 – Error Case 6: unsupported package type	0	0	0	0	1	1
LightweightM2M-1.1-int-778 – Error Case 7: invalid URI (package URI)	0	0	0	0	1	1
LightweightM2M-1.1-int-779 – Error Case 8: Unsuccessful Firmware Update	0	0	0	0	1	1
LwM2M Location Object (ID:6) [800-849]						
LightweightM2M-1.1-int-801 – Querying the readable resources of object	0	0	0	0	1	1
LightweightM2M-1.1-int-810 – Basic Observation and notification on Location Object Instance	0	0	0	0	1	1
Connectivity Statistics (ID 7) [900-949]						
LightweightM2M-1.1-int-901 – Querying a Data Collection from Connectivity Object Instance	0	0	0	0	1	1
LightweightM2M-1.1-int-905 – Setting the writable resources	0	0	0	0	1	1
LightweightM2M-1.1-int-910 – Basic Observation and notification on Connectivity Monitoring Object Instance	0	0	0	0	1	1
MULTI-SERVERS CONTEXT [950-999]						
LightweightM2M-1.1-int-950 – Multi-Servers Registration	0	0	0	0	1	1
LightweightM2M-1.1-int-951 – Multi-Servers & Attributes	0	0	0	0	1	1
Cellular Network Connectivity ID:10 [1200-1249]						
LightweightM2M-1.1-int-1200 – Querying the readable resources of Object ID:10	0	0	0	0	1	1
LightweightM2M-1.1-int-1201 – Querying the readable resources of Object ID:10 in version 1.1	0	0	0	0	1	1
LightweightM2M-1.1-int-1202 – Setting the Power Saving Mode Resources of Object ID:10	0	0	0	0	1	1
LightweightM2M-1.1-int-1203 – Observation and notification on Object ID:10 related to Power Saving Mode Resources (version 1.1 only)	0	0	0	0	1	1
LightweightM2M-1.1-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-1.1-int-1250 – APN configuration	0	0	0	0	1	1
Bearer Selection ID:13 [1350-1399]						
LightweightM2M-CONMGMT-1.1-int-1350 – Bearer Selection	0	0	0	0	1	1
Portfolio Object (ID 16) [1600-1699]						
LightweightM2M-1.1-int-1630 – Create Portfolio Object Instance	0	0	0	0	1	1
LightweightM2M-1.1-int-1635 – Delete Portfolio Object Instance	0	0	0	0	1	1
BinaryAppDataContainer Object (ID 19) [1900-1999]						
LightweightM2M-1.1-int-1900 – Observation and notification on Object ID: 19	0	0	0	0	1	1
LightweightM2M-1.1-int-1901 – Setting the writable Resource Data	0	0	0	0	1	1
Event Log Object (ID 20) [2000-2099]						
LightweightM2M-1.1-int-2000 – Control the Log Function	0	0	0	0	1	1
LightweightM2M-1.1-int-2001 – Querying the readable resources	0	0	0	0	1	1
Totals	65	0	1	16	36	118
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						