

Test Case Report

Test case: IP_UDP_RPC_I&M_EPM

Result: **Pass**

Test case description:

The behaviour regarding RPC, IP, UDP is checked.
This includes the reading of the EndPointMapper of the device
and the consistency to the values read with I&M

General Information

Date

Date 13.10.2016

Time 16:37

Automated RT Tester

Version 2.33.2.10

Project Name NXLOM_51_V2_33

Test case

Version 1.0.0

Device

Vendor ID 0x011E

Device ID 0xFFF1

Mac Address 00:02:A2:26:BE:59

Test Execution

Number of Errors 0

Test Execution Log

1	16:36:27: IP_UDP_RPC_I&M_EPM-Test: First Scenario: Checking of RPC, IP and UDP Part1 started.
2	16:36:27: The ip adress and the name are checked and if needed set.
3	16:36:30: Retrieving I&M0FilterData
4	16:36:30: Successfully retrieved I&M0FilterData and successfully validated them.
5	16:36:30: Establish an AR with RPC representation 'little endian'.
6	16:36:31: Validate IOPS state!
7	16:36:31: IOPS was validated sucessfully!
8	16:36:31: Established an AR with RPC representation 'little endian' successfully.
9	16:36:31: Read I&M0 data with RPC representation 'little endian'.
10	16:36:31: Successfully read and validated I&M0 data with RPC representation 'little endian'.
11	16:36:31: Successfully released an AR with RPC representation 'little endian'.
12	16:36:31: Establish an AR with RPC representation 'big endian'.
13	16:36:31: Validate IOPS state!
14	16:36:31: IOPS was validated sucessfully!
15	16:36:31: Established an AR with RPC representation 'big endian' successfully.
16	16:36:31: Read I&M0 data with RPC representation 'big endian'.
17	16:36:31: Successfully read I&M0 data with RPC representation 'big endian'.
18	16:36:31: The I&M0 data received with little and big endianess byte representation in the RPC - Layer are the same.
19	16:36:31: Successfully released an AR with RPC representation 'big endian'.
20	16:36:31: Establish an AR with a fragmented connect request.
21	16:36:32: IOPS was validated sucessfully!
22	16:36:32: Successfully established an AR with a fragmented connect request.
23	16:36:32: Successfully released an AR established with a fragmented connect request.
24	16:36:32: IP_UDP_RPC_I&M_EPM-Test: First Scenario: Checking of RPC, IP and UDP Part2 started.
25	16:36:32: Retrieving I&M0FilterData
26	16:36:32: Successfully retrieved I&M0FilterData and successfully validated them.
27	16:36:32: Validate IOPS state!
28	16:36:32: IOPS was validated sucessfully!
29	16:36:32: Start the sending of manipulated packages.
30	16:36:32: Sending a manipulated read response. (IP Checksum is wrong).

31	16:36:33: The package was successfully dropped (IP Checksum is wrong).
32	16:36:33: Sending a manipulated read response. (UDP Checksum is wrong).
33	16:36:34: The package was successfully dropped (UDP Checksum is wrong).
34	16:36:34: Sending a manipulated read response. (IP and UDP Checksum are wrong).
35	16:36:35: The package was successfully dropped (IP and UDP Checksum are wrong).
36	16:36:35: Sending a manipulated read response. (IP Length too big).
37	16:36:36: The package was successfully dropped (IP Length too big).
38	16:36:36: Sending a manipulated read response. (IP Length is as big as UDP Length).
39	16:36:37: The package was successfully dropped (IP Length is as big as UDP Length).
40	16:36:37: Sending a manipulated read response. (IP Length too small).
41	16:36:38: The package was successfully dropped (IP Length too small).
42	16:36:38: Sending a manipulated read response. (UDP Length too small).
43	16:36:39: The package was successfully dropped (UDP Length too small).
44	16:36:39: Successfully released an AR .
45	16:36:39: IP_UDP_RPC_I&M_EPM-Test: Second scenario: Check consistency EPM vs I&M and Dcp started.
46	16:36:39: Performing an EPM lookup request.
47	16:36:39: Performing an EPM lookup request.
48	16:36:39: Successfully retrieved the pni0 data from the EPM.
49	16:36:39: Performing an EPM lookup request.
50	16:36:39: A nil handle was returned and the epm handle was closed successfully.
51	16:36:39: Retrieving I&M0FilterData
52	16:36:39: Successfully retrieved I&M0FilterData and successfully validated them.
53	16:36:39: Reading I&M0 Data entry.
54	16:36:39: Successfully read and validated the I&M0 data.
55	16:36:40: Successfully performed a dcp identify request and validated them.
56	16:36:40: The values retrieved from EPM, I&M and DCP are compared.
57	16:36:40: The device vendor value retrieved from DCP and the I&M0 data are compared.
58	16:36:40: The device vendor value retrieved from DCP and the I&M0 data are the same.
59	16:36:40: The device order id value retrieved from EPM and the I&M0 data are compared.
60	16:36:40: The device order id value retrieved from EPM and the I&M0 data are the same.
61	16:36:40: The HardwareRevision value retrieved from EPM and the I&M0 data are checked.
62	16:36:40: The HardwareRevision value retrieved from EPM and the I&M0 data are the same.
63	16:36:40: The SwRevisionPrefix value retrieved from EPM and the I&M0 data are checked.
64	16:36:40: The SwRevisionPrefix value retrieved from EPM and the I&M0 data are the same.
65	16:36:40: The SoftwareRevisionBugfix values retrieved from EPM and I&M0 data are checked.
66	16:36:40: The SoftwareRevisionBugfix values retrieved from EPM and I&M0 data are the same.
67	16:36:40: The SoftwareRevisionFunctionalEnhancement values retrieved from EPM and I&M0 are checked.
68	16:36:40: The SoftwareRevisionFunctionalEnhancement values retrieved from EPM and I&M0 are the same.

69	16:36:40: The SoftwareRevisionInternalChange values retrieved from EPM and I&M0 are checked.
70	16:36:40: The SoftwareRevisionInternalChange values retrieved from EPM and I&M0 are the same.
71	16:36:40: IP_UDP_RPC_I&M_EPM-Test: Third Scenario: I&M Write started.
72	16:36:41: Successfully established an AR.
73	16:36:41: Validate IOPS state!
74	16:36:41: IOPS was validated sucessfully!
75	16:36:41: Retrieving I&M0 Filter Data
76	16:36:41: Retrieving I&M0FilterData
77	16:36:41: Successfully retrieved I&M0FilterData and successfully validated them.
78	16:36:41: Reading I&M0 Data from the device representative.
79	16:36:41: Writing I&M0 Data to the device representative.
80	16:36:41: The device successfully rejected the writing of I&M0 data to the device representative.
81	16:36:41: Reading and comparing the I&M0 data before and after the write request.
82	16:36:41: The I&M0 data are the same.
83	16:36:41: Starting the writing of the I&M1
84	16:36:41: Finished writing of the I&M1.
85	16:36:41: Finished writing of the I&M2.
86	16:36:41: Finished writing of the I&M3.
87	16:36:41: Finished writing of the I&M4.
88	16:36:41: Reading I&M5 data.
89	16:36:41: Writing I&M5 data.
90	16:36:41: Releasing AR.
91	16:36:41: A power cycle is performed.
92	16:37:00: Successfully established an AR.
93	16:37:00: Validate IOPS state!
94	16:37:00: IOPS was validated sucessfully!
95	16:37:00: Reading I&M0 Data entry.
96	16:37:00: The in substep 3a) received I&M0 data are the same as the now received data.
97	16:37:00: Successfully did a read operation for I&M1 data with the expected result.
98	16:37:00: The I&M1 data previously written are the same as the now read data after the power cycle.
99	16:37:00: Successfully did a read operation for I&M2 data with the expected result.
100	16:37:00: The I&M2 data previously written are the same as the now read data after the power cycle.
101	16:37:00: Successfully did a read operation for I&M3 data with the expected result.
102	16:37:00: The I&M3 data previously written are the same as the now read data after the power cycle.
103	16:37:00: Successfully did a read operation for I&M4 data with the expected result.
104	16:37:00: The I&M4 data previously written are the same as the now read data after the power cycle.
105	16:37:00: Successfully did a read operation for I&M5 data with the expected result.

106	16:37:00: The I&M5 data are the same as before the write attempt.
107	16:37:00: Release AR.
108	16:37:00: The dut does not support one of the needed ResetToFactory modes so the test case is finished here.