**[How to execute testcases related to BS, DM credentials]**

Some links & Jiras for reference:

<https://confluence.sierrawireless.com/display/LEGATO/AirVantage+training+-+Technical#AirVantagetraining-Technical-HowtoforceBSonplatform>

<https://confluence.sierrawireless.com/display/LEGATO/AirVantage+training+-+Developers#AirVantagetraining-Developers-HL78>

OEMTP-1780, LE-11224, LE-11292, DIZZY-1916

1. A\_HL\_Common\_AVMS\_LWM2M\_CNT\_0002 **[remove DM credentials]**

How to force BS on platform

On product/platform side, 2 information indicates that the device made a successful connection to the bootstrap server:

DM credentials were provisioned (could be seen by `AT+WDSG` command or le\_avc\_GetCredentialStatus Legato API)

BS information file is stored in the product/platform

To force a direct connection to the bootstrap without updating the device on server side, the BS information file need to be deleted from the product/platform.

On WP/AR:

root@swi-mdm9x15:~# cd /data/le\_fs/avc

root@swi-mdm9x15:/data/le\_fs/avc# ls

cert packageDownloader param2

config param0 param3

fw param1 param4

root@swi-mdm9x15:/data/le\_fs/avc# rm param0

**On HL78 (in CLI port):**

sd d:

cd le\_fs/avc

rm param0

Expected Responses:

09:44:44.557 on 13-Nov-2018> at+wdss=1,1

09:48:09.611 on 13-Nov-2018>

09:48:09.614 on 13-Nov-2018> OK

09:48:09.618 on 13-Nov-2018>

09:48:36.446 on 13-Nov-2018> +WDSI: 4

09:48:36.450 on 13-Nov-2018>

09:48:38.0 on 13-Nov-2018> +WDSI: 6

09:48:38.6 on 13-Nov-2018>

09:48:38.12 on 13-Nov-2018> +WDSI: 23,0

09:48:38.30 on 13-Nov-2018>

09:48:46.466 on 13-Nov-2018> +WDSI: 4

09:48:46.480 on 13-Nov-2018>

09:48:52.895 on 13-Nov-2018> +WDSI: 6

09:48:52.909 on 13-Nov-2018>

09:48:52.921 on 13-Nov-2018> +WDSI: 23,1

09:48:52.937 on 13-Nov-2018>

2. A\_HL\_Common\_AVMS\_LWM2M\_CNT\_0003 **[put wrong DM credentials]**

HL78

For test purpose or validation purpose, updating credentials can be required.

The credentials are stored in a file in d:/config/AVMS

The file structure is:

d:/config>cat AVMS

{

"Cred": {

"Firmware\_PubKey": "",

"Software\_PubKey": "",

"Certif": "",

"BsPskId": "",

"BsServerPskId": "",

"BsPSK": "",

"BsAddr": "",

"DmPskId": "",

"DmServerPskId": "",

"DmPSK": "",

"DmAddr": "",

"FWKeyIndex": "1,0"

}

}

To read one credential, send in AT port: at%getacfg=AVMS.Cred.<key\_name>

To write one credential, send in AT port: at%setacfg=AVMS.Cred.<key\_name>.<new\_value>

To delete one credential, send in AT port: "at%setacfg=AVMS.Cred.<key\_name>, " **(BE CAREFUL: a space is needed after the ',')**

Expected Responses:

09:58:10.536 on 13-Nov-2018> at+wdss=1,1

09:58:34.882 on 13-Nov-2018>

09:58:34.916 on 13-Nov-2018> OK

09:58:34.929 on 13-Nov-2018>

09:58:56.82 on 13-Nov-2018> +WDSI: 4

09:58:56.89 on 13-Nov-2018>

10:00:02.94 on 13-Nov-2018> +WDSI: 5

10:00:02.102 on 13-Nov-2018>

10:00:03.93 on 13-Nov-2018> +WDSI: 4

10:00:03.100 on 13-Nov-2018>

10:00:04.913 on 13-Nov-2018> +WDSI: 6

10:00:04.929 on 13-Nov-2018>

10:00:04.939 on 13-Nov-2018> +WDSI: 23,0

10:00:04.948 on 13-Nov-2018>

10:00:12.893 on 13-Nov-2018> +WDSI: 4

10:00:12.909 on 13-Nov-2018>

10:00:19.323 on 13-Nov-2018> +WDSI: 6

10:00:19.330 on 13-Nov-2018>

10:00:19.338 on 13-Nov-2018> +WDSI: 23,1

10:00:19.354 on 13-Nov-2018>

3. A\_HL\_Common\_AVMS\_LWM2M\_CNT\_0004 **[wrong DM server]**

Cipher is different on each HL78

This means that reading the BS server addr (at%getacfg=AVMS.Cred.BsAddr) on 2 HL78 returns 2 different values even if the deciphered data is the same (coaps://bs.airvantage.net:5684)

My proposal is:

**Step 1:** Choose a wrong server URL (ex: coaps://idontknowwhatiwant.net:5684)

**Step 2:** Change it in hexa format (ex:636F6170733A2F2F69646F6E746B6E6F77776861746977616E742E6E65743A35363834)

**Step 3:** Set it as BS server address. Ex:

AT+WAMS=1,11,35

636F6170733A2F2F69646F6E746B6E6F77776861746977616E742E6E65743A35363834

**Step 4:** Get the enciphered BS server addr using at%getacfg=AVMS.Cred.BsAddr

**Step 5:** Set the default BS server address (same for all devices):

AT+WAMS=1,11,30

636F6170733A2F2F62732E61697276616E746167652E6E65743A35363834

**Step 6:** Set the wrong DM server address using the retrieved ciphered BS server address (get in step 4) using:

at%setacfg=AVMS.Cred.DmAddr,<ciphered\_bs\_server\_data>

Expected Responses:

10:20:31.669 on 13-Nov-2018> at+wdss=1,1

10:20:36.956 on 13-Nov-2018>

10:20:36.986 on 13-Nov-2018> OK

10:20:36.993 on 13-Nov-2018>

10:21:01.790 on 13-Nov-2018> +WDSI: 4

10:21:01.800 on 13-Nov-2018>

10:21:03.508 on 13-Nov-2018> +WDSI: 6

10:21:03.524 on 13-Nov-2018>

10:21:03.534 on 13-Nov-2018> +WDSI: 23,0

10:21:03.550 on 13-Nov-2018>

10:21:11.706 on 13-Nov-2018> +WDSI: 4

10:21:11.713 on 13-Nov-2018>

10:21:18.131 on 13-Nov-2018> +WDSI: 6

10:21:18.139 on 13-Nov-2018>

10:21:18.144 on 13-Nov-2018> +WDSI: 23,1

10:21:18.161 on 13-Nov-2018>

Nov 13th , 2018 Toan Nguyen