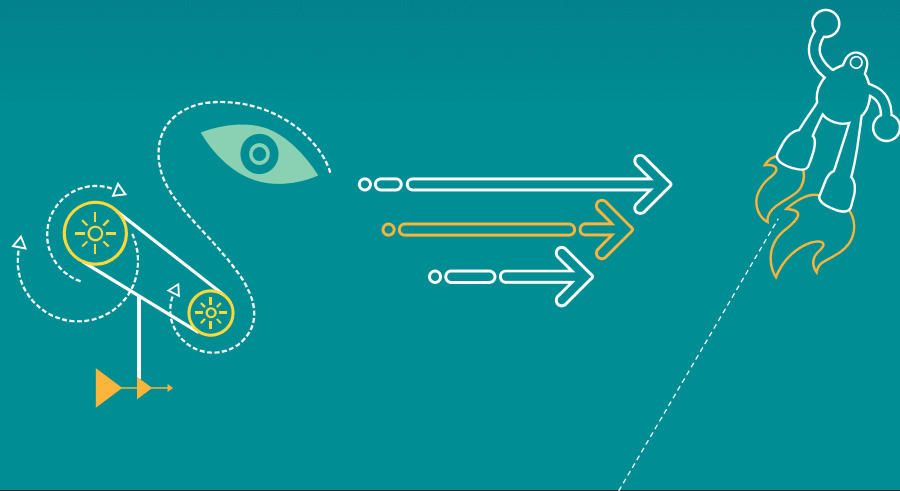

高通协议技术期刊 – 2015/11/17



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Revision History

Revision	Date	Description
A	Nov 2015	Initial release

Note: There is no Rev. I, O, Q, S, X, or Z per Mil. standards.

Contents

- ❑ New Case Problem Area for carrier RFI/SOC.
- ❑ MSM8996 2 Sub RAT combination.
- ❑ 89x7 Modem Document.
- ❑ IMSI Lock feature and implementation.

New Case Problem Area for carrier RFI/SOC

- We already created new PA dedicated for carrier RFI/SOC, and it has come into being for more than 1 week. When you file RFI/SoC cases, please make sure to select the Problem areas correctly.
- PA 1: Modem Software
- PA 2: Operator/Private Brand - RFI/SoC
- This PA is for carrier inquiry on UE features, compliance and so on, and as some Private Brand (like BLU/cherry mobile) also have similar inquiry to ODM, we combined both together.
- SOC- Statement of Compliance
- RFI – Request for information
- Please provide full carrier requirement document when you file such cases. And this kind cases are not used for detail/specific issue debugging.

MSM8996 2 Sub RAT combination

Sub1	Sub2(GSM)	Sub2(WCDMA)	Sub2(1X)
CSFB LTE	YES	YES.	YES. LTE + 1x, supported
SRLTE	YES	Not supported	NO. SRLTE + 1x not supported
WCDMA	YES	YES.	YES. 1x (non-DDS) + LWG (DDS)
TDSCDMA	YES	T(CS)+W(PS) not supported T(DDS)+W is supported	YES. 1x (non-DDS) + LTG (DDS)
GSM	YES	YES.	YES. GSM + 1x Supported
1X	YES	1x(DDS)+W is not supported 1x+W(DDS) is supported	NO. 1x + 1x NOT supported
EVDO	YES	Not supported	NO. DO + 1x NOT supported

89x7 Modem Document

80-P2485-12_MSM89X7 MODEM SOFTWARE OVERVIEW.

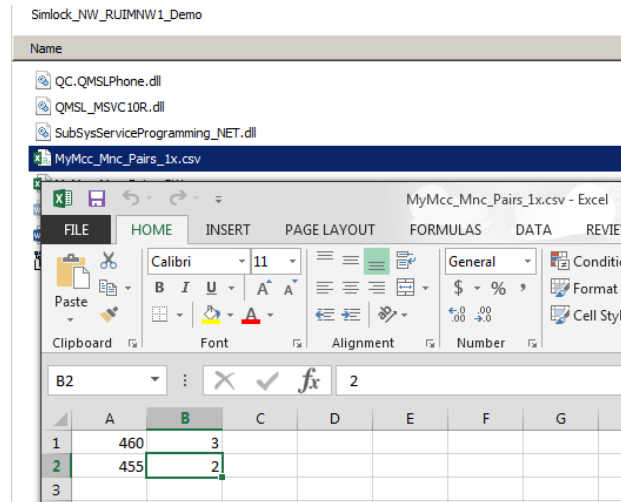
80-P2485-3_MSM89x7 RF SOFTWARE OVERVIEW.

IMSI Lock feature and implementation

Please refer to 80-NF136-8EC_B_Service_Programming_User_Guide chapter 7.2.2, which provide guidance for locking imsi.

Following is detailed step.

- Step1.
- Install the latest QDART-MFG MCN: 72-NM017-5, it can be downloaded from DnD Center
- Step2.
- Setup MCC MNC pairs in the csv file and the file path in test item UIM_SimLock_Session_Perso_SetData



IMSI Lock feature and implementation

The screenshot displays the QSPR software interface, showing a test tree structure and a parameters table.

Test Tree Structure:

- ROOT
 - StartUp - Demo
 - ConnectToPhone
 - QSPR - C:\Users\shigong\Documents\MyDocs\ServiceProgramming\Simlock\Simlock_NW_RUIMNW1_Demo\Network_SimLock_NW_RUIMNW1_Demo.xtt Tree ID: -1
 - Simlock_nw
 - UIM_SimLock_Session_Open
 - Set_Network_Perso ----- Simlock level 0
 - UIM_SimLock_GetKey
 - Get_Data_Indicators
 - UIM_SimLock_DeActivate
 - UIM_SimLock_Session_Perso_SetData
 - UIM_SimLock_Activate
 - Get_Data_Cmd
 - Set_SimLock_Perso ----- Simlock level 4
 - UIM_SimLock_DeActivate -- for turn off Simlock

Parameters Table:

Parameter Name	Value
feature_type	0 MMGSDI_PERSO_NW
mcc	
mnc	
mcc_mnc_csv_file	C:\Users\shigong\Documents\MyDocs\ServiceProgramming\Simlock\MyMcc_Mnc_Pairs_GW.csv
useCsvFile	True

IMSI Lock feature and implementation

- Step3.
- We can also get MCC/MNC/MSIN from Global variables, since these parameters are used in more than one test items.

The screenshot displays a test automation software interface. The main window title is "SPR - C:\Users\shigong\Documents\MyDocs\ServiceProgramming\Simlock\Simlock_NW_RUIMNW1_Demo\SimLock_NW_RUIMNW1_Demo - Level 4 supported.txt * Tr...". The menu bar includes "File", "View", "Tests", "Debug", "Options", "Windows", and "Help". The toolbar contains icons for file operations, execution, and configuration.

The "Test Tree" pane on the left shows a hierarchical structure of test items. The "Go/NoGo" tab is selected. The tree includes:

- UIM_SimLock_Session_Open
- Set_Network_Perso ----- Simlock level 0
 - UIM_SimLock_GetKey
 - Get_Data_Indicators
 - UIM_SimLock_DeActivate
 - UIM_SimLock_Session_Perso_SetData
 - UIM_SimLock_Activate
 - Get_Data_Cmd
- Set_SimLock_Perso ----- Simlock level 4
 - UIM_SimLock_GetKey
 - Get_Data_Indicators
 - UIM_SimLock_DeActivate
 - UIM_SimLock_Session_Perso_SetData
 - UIM_SimLock_SetData_NetworkSubSystem_Perso
 - UIM_SimLock_SetData_SimLock_Perso
 - UIM_SimLock_Activate
 - Get_Data_Cmd

The "Parameters" pane on the right shows the "Parameters" tab. It contains two tables:

Input Parameters

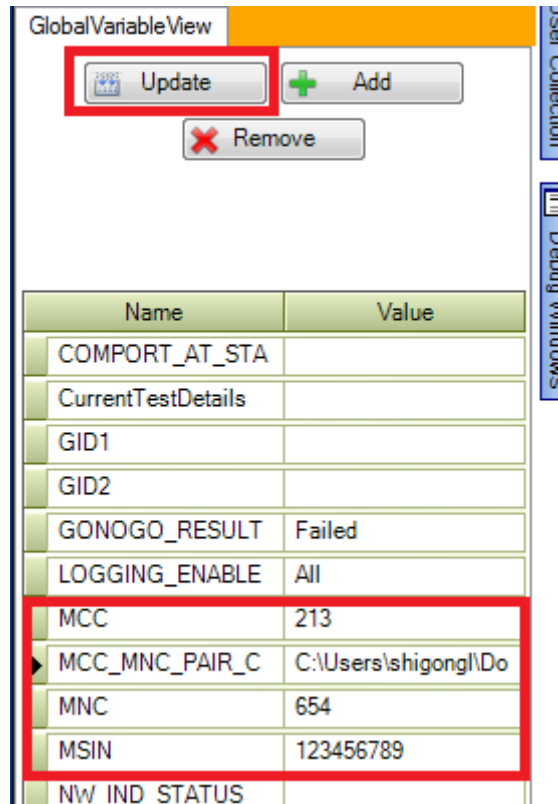
Unit	Description	GV Set	GV Get
			MCC
			MNC
			MCC_MNC_PAIR

Output Parameters

Parameter Name	LL	Value
command_status		0

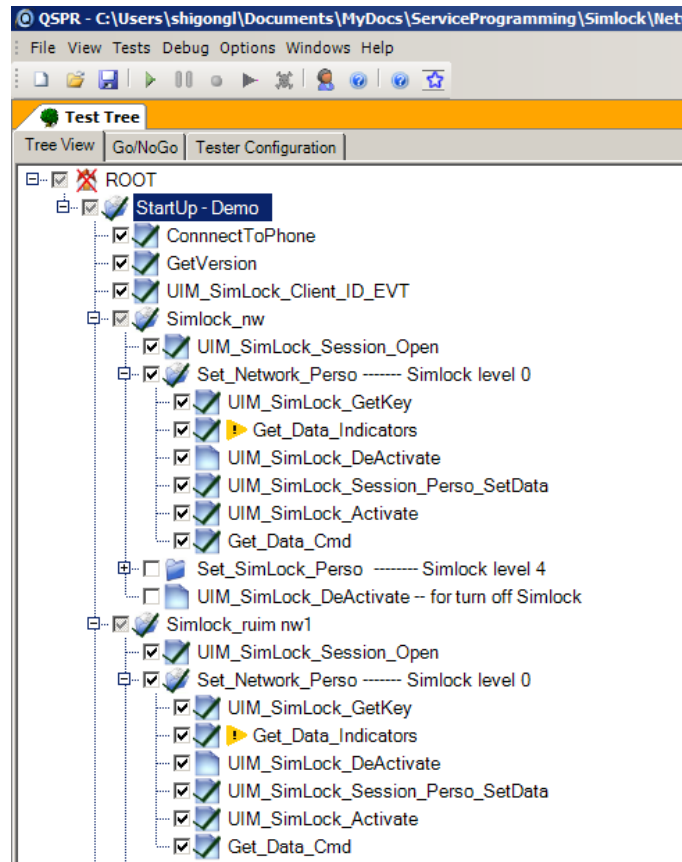
IMSI Lock feature and implementation

- If using Global variable, it needs to setup the global variables before running the test tree.



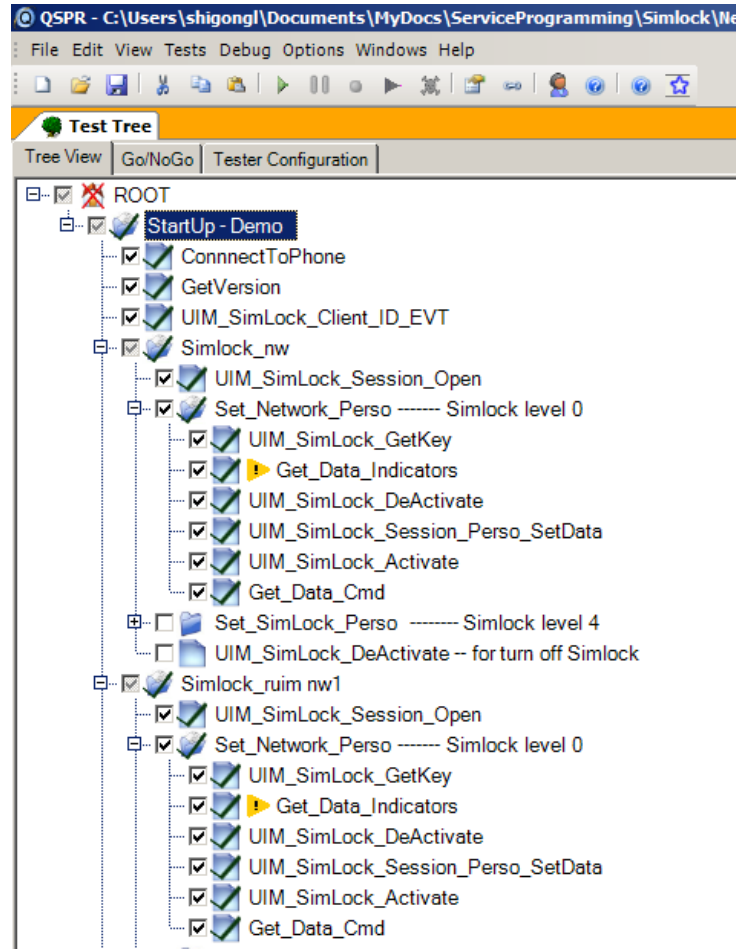
IMSI Lock feature and implementation

- Step4.
- Connect a phone and run the xtt file
- If the device is in the unlock status, then the tool will skip the test item UIM_SimLock_DeActive.



IMSI Lock feature and implementation

- If the device is in the locked stats, then our tool will unlock the device first, and then lock the device.



- Step5.
- Reset the phone, confirm the lock status.

Questions?

<https://support.cdmatech.com>

