



Migration document SLQS 1.x to SLQS 3.x

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Revision History

Doc Rev	CR#	Date	Name	Comment
1.0		30 th Nov 2012	V. Singh	Initial Release
1.1		13 th Dec 2012	V. Singh	Review comments addressed
1.2		18 th Dec 2012	M. Thomas	Minor corrections
1.3		5 th July 2013	Willis Lau	Add new APIs
1.4		19 th Sep 2013	Calvin Fong	Add new APIs for SLQS 3.2 release

Table of Contents

REVISION HISTORY 2

1 GENERAL INFORMATION 4

1.1 PURPOSE 4

1.2 SCOPE 4

1.3 GLOSSARY OF TERMS 4

1.4 REFERENCES 4

2 API, CALLBACK TO SUPPORT MULTI PDN..... 5

2.1 UPDATED API'S/CALLBACKS 5

2.2 ADDED API'S/CALLBACK 6

2.3 DEPRECATED API'S/CALLBACK 6

3 API UPDATED 7

PDS SERVICE..... 7

4 ADDITIONAL SERVICES 7

4.1 VOICE SERVICE..... 7

4.2 UIM SERVICES..... 10

4.3 AUDIO SERVICE 12

4.4 QOS SERVICE 12

5 ADDITIONAL API'S IN EXISTING SERVICES 14

5.1 NAS SERVICE 14

5.2 CALLBACK SERVICE 14

5.3 SMS SERVICE 16

5.4 DCS SERVICE 17

1 General Information

1.1 Purpose

This document provides API's, callback's which are added, updated, deprecated while migrating from SLQS 1.x to SLQS 3.x.

1.2 Scope

APIs, Callback for supporting Multi PDN, additional services and API's.

1.3 Glossary of terms

1.4 References

Ref. #	Doc. #	Document title
[R-1]	N/A	
[R-2]		
[R-3]		
[R-4]		

2 API, Callback to support multi PDN

2.1 Updated API's/Callbacks

2.1.1 SLQSStartStopDataSession

Description:

The existing API will be used to start or stop a data session. An additional parameter, ipfamily, has been added to the structure passed in by the caller and this replaces the API SLQSSetIPFamilyPreference.

2.1.2 SLQSGetRuntimeSettings

Description:

The API will be used to retrieve the run time settings including IP address. The new prototype requires that the user specify v4 and/or v6 session handles corresponding to the connection for which the IP address(es) should be retrieved.

2.1.3 GetDormancyState

Description:

The API will be used to retrieve Dormancy state of data session for particular instance. A new parameter to pass instanceid has been added.

2.1.4 GetByteTotals

Description:

The API will be used to get Rx/Tx byte counts since the start of the last packet data session for particular instance. A new parameter to pass the instanceid has been added.

2.1.5 GetDataBearerTechnology

Description:

The API will be used to retrieve current data bearer technology (only valid when connected). A new parameter to pass the instanceid has been added.

2.1.6 SLQSGetDataBearerTechnology

Description:

API will be used to get data bearer technology values for current and/or last data calls. The device must be in a data call for this function to execute successfully. A new parameter to pass the instanceid has been added.

2.1.7 GetSessionDuration

Description:

API will be used to get duration of the current packet data session. A new parameter to pass the instanceid has been added.

2.1.8 GetConnectionRate

Description:

API will be used to get connection rate information for the packet data connection. A new parameter to pass the instanceid has been added.

2.1.9 **GetSessionState**

Description:

API will be used to get state of the current packet data session. A new parameter to pass the instanceid has been added.

2.2 **Added API's/callback**

2.2.1 **SLQSSetSessionStateCallback** - Callback

Description:

This callback is added to support multi PDN notification. This contains additional information about the PDP instance, service, and associated session IDs.

2.2.2 **SLQSSetWdsEventCallback** - Callback

Description:

This callback added to support multi PDN notification. This contains additional information about the PDP instance, service, and associated session IDs.

2.3 **Deprecated API's/Callback**

2.3.1 **SLQSSetIPFamilyPreference**

Description:

An additional parameter ipfamily, has been added to the structure passed in by the caller to API SLQSStartStopDataSession replaces the API SLQSSetIPFamilyPreference

2.3.2 **StartDataSession**

Description:

The API SLQSStartStopDataSession replaces this API.

2.3.3 **StartDataSession2**

Description:

The API SLQSStartStopDataSession replaces this API.

2.3.4 **StartDataSessionLTE**

Description:

The API SLQSStartStopDataSession replaces this API.

2.3.5 **StopDataSession**

Description:

The API SLQSStartStopDataSession replaces this API.

2.3.6 **GetIPAddress**

Description:

The API SLQSGetRuntimeSettings replaces this API.

2.3.7 **GetIPAddressLTE**

Description:

The API SLQSGetRuntimeSettings replaces this API.

2.3.8 **SetSessionStateCallback** – Callback

Description:

This call back has been replaced by SLQSSetSessionStateCallback.

2.3.9 **SetDataBearerCallback** - Callback

Description:

This call back has been replaced by SLQSSetSessionStateCallback.

2.3.10 **SetDormancyStatusCallback** – Callback

Description:

This callback replaced by a new callback SLQSSetWdsEventCallback

2.3.11 **SetByteTotalsCallback** – Callback

Description:

This callback replaced by a new callback SLQSSetWdsEventCallback

3 **API updated**

PDS Service

3.1.1 **SLQSSetAGPSConfig**

Description:

This API gets the PDS AGPS (MS-based) configuration. Adding one more parameter NETWORK_MODE in this API

3.1.1 **SLQSGetAGPSConfig**

Description:

This API sets the PDS AGPS (MS-based) configuration. Adding one more parameter NETWORK_MODE in this API

4 **Additional Services**

4.1 **Voice Service**

4.1.1 **SLQSVoiceDialCall**

Description:

Originates a voice call (MO call).

4.1.2 **SLQSVoiceEndCall**

Description:

This message ends a voice call.

4.1.3 **SLQSVoiceSetSUPSService**

Description:

This API manages call-independent supplementary services, e.g., activation of call forwarding (to forward incoming calls to a third party), activation of call barring (to request the network to block some of the call attempts), and activation of call waiting (to be notified of an incoming call even when the user is engaged in an active or held call).

4.1.4 SLQSVoiceSetConfig

Description:

This message sets various configuration parameters that control the modem Behavior related to circuit-switched services

4.1.5 SLQSVoiceAnswerCall

Description:

Answers an incoming voice call.

4.1.6 SLQSVoiceGetCLIR

Description:

Queries the status of the Calling Line Identification Restriction (CLIR) Supplementary service (applicable only for 3GPP).

4.1.7 SLQSVoiceGetCLIP

Description:

Queries the status of the Calling Line Identification Presentation (CLIP) Supplementary service (applicable only for 3GPP).

4.1.8 SLQSVoiceGetCallWaiting

Description:

Queries the status of Call Waiting Supplementary Service (applicable only for 3GPP).

4.1.9 SLQSVoiceGetCallBarring

Description:

Queries the status of Call Barring Supplementary Service (applicable only for 3GPP).

4.1.10 SLQSVoiceGetCallForwardingStatus

Description:

Queries the status of Call Forwarding Supplementary Service.

4.1.11 SLQSVoiceSetCallBarringPassword

Description:

Sets a Call Barring Password (applicable only for 3GPP).

4.1.12 SLQSVoiceGetCallInfo

Description:

This API queries the information associated with a call and gives

Information about a particular call whose call Id is sent in as request.

4.1.13 **SLQSVoiceGetAllCallInfo**

Description:

This API queries the information associated with all the calls originating or terminating from a particular device

4.1.14 **SLQSVoiceManageCalls**

Description:

Manages the calls by using the supplementary service applicable during the call. In cases of successful API completion if the state of any call is Changed, it is indicated using CallBack SLQSVoiceSetAllCallStatusCallBack. If there are other calls while an incoming voice call (waiting call) Is received, this API is used to Answer the call. This API is applicable Only in "3GPP devices".

4.1.15 **SLQSVoiceBurstDTMF**

Description:

Sends a burst Dual-Tone Multifrequency (DTMF) (applicable only for 3GPP2)

4.1.16 **SLQSVoiceStartContDTMF**

Description:

Starts a continuous DTMF.

4.1.17 **SLQSVoiceStopContDTMF**

Description:

Stops a continuous DTMF.

4.1.18 **SLQSVoiceSendFlash**

Description:

This API sends a simple flash message. Applicable only for 3GPP2 devices.

4.1.19 **SLQSVoiceSetPreferredPrivacy**

Description:

This API sets the voice privacy preference. Applicable only for 3GPP2 devices.

4.1.20 **SLQSVoiceIndicationRegister**

Description:

Sets the registration state for different QMI_VOICE indications for the requesting control point.

4.1.21 **SLQSVoiceGetConfig**

Description:

This API retrieves various configuration parameters that control the modem Behavior related to circuit switched services.

4.1.22 **SLQSVoiceOrigUSSDNoWait**

Description:

This API initiates a USSD operation such that the response for this request is returned immediately and the data is returned via an indication.

4.1.23 **SLQSVoiceBindSubscription**

Description:

This API binds a subscription type to a specific voice client ID.

4.1.24 **SLQSVoiceALSSetLineSwitching**

Description:

This API sets the line switch setting on the card

4.1.25 **SLQSVoiceALSSelectLine**

Description:

This API allows the user to select the preferred line.

4.1.26 **SLQSVoiceGetCOLP**

Description:

Queries the status of the Connected Line Identification Presentation (COLP) Supplementary service (applicable only for 3GPP).

4.1.27 **SLQSVoiceGetCOLR**

Description:

Queries the status of the Connected Line Identification Restriction (COLR) Supplementary service (applicable only for 3GPP).

4.1.28 **SLQSVoiceGetCNAP**

Description:

Queries the status of the Calling Name Presentation (CNAP) Supplementary service (applicable only for 3GPP).

4.2 **UIM Services**

4.2.1 **SLQSUIMReset**

Description:

This API resets the issuing control points state kept by the service

4.2.2 **SLQSUIMPowerDown**

Description:

This API power downs the SIM card.

4.2.3 **SLQSUIMGetCardStatus**

Description:

This API retrieves the current status of the card.

4.2.4 **SLQSUIMSetPinProtection**

Description:

This API enables or disables the protection of the UIM contents by a Specific PIN

4.2.5 **SLQSUIMVerifyPin**

Description:

This API verifies the PIN before the card content is accessed

4.2.6 **SLQSUIMChangePin**

Description:

This API changes the value of the specified PIN.

4.2.7 **SLQSUIMUnblockPin**

Description:

This API unblocks a blocked PIN using the PUK code.

4.2.8 **SLQSUIMEventRegister**

Description:

This API registers for event notifications from the card

4.2.9 **SLQSUIMRefreshOK**

Description:

This API Enables the client to indicate whether it is OK to start the Refresh procedure

4.2.10 **SLQSUIMRefreshRegister**

Description:

This API Registers for file change notifications triggered by the card.

4.2.11 **SLQSUIMRefreshComplete**

Description:

This API invoked when the client has finished the Refresh procedure.

4.2.12 **SLQSUIMRefreshGetLastEvent**

Description:

This API provides the ability to retrieve the last refresh event.

4.2.13 **SLQSUIMGetFileAttributes**

Description:

This API retrieves the file attributes for any Elementary File(EF) or Dedicated File(DF) in the card and provides access by the path.

4.2.14 **SLQSUIMDepersonalization**

Description:

This API de-activates or unblocks the personalization on the phone.

4.2.15 **SLQSUIAuthenticate**

Description:

This API executes the authentication algorithm on the card.

4.3 **Audio Service**

4.3.1 **SLQSGetAudioProfile**

Description:

This API retrieves the Audio profile based on the specified generator.

4.3.2 **SLQSSetAudioProfile**

Description:

This API sets the various settings of an audio profile based on the specified input parameters.

4.3.3 **SLQSGetAudioPathConfig**

Description:

This API retrieves the various configuration parameters of an audio path.

4.3.4 **SLQSSetAudioPathConfig**

Description:

This API sets the various configuration parameters of an audio path.

4.3.5 **SLQSGetAudioVoITLBConfig**

Description:

This API retrieves the various audio volume TLB configuration parameters.

4.3.6 **SLQSSetAudioVoITLBConfig**

Description:

This API sets the various configuration parameters related to audio volume TLB.

4.4 **QOS Service**

4.4.1 **SLQSQosGetNetworkStatus**

Description:

This API is to check if network supports QoS or not. This API is applicable for CDMA only. For 3GPP, QoS is supported by default

4.4.2 **SLQSQosReq**

Description:

This API is to request a QoS service by providing the parameters such as QoS spec such as Tx QoS flow request, Rx QoS flow request, Tx QoS filter request, Rx QoS filter request

4.4.3 SLQSQosRel

Description:

This API is to release one or more existing QoS flow

4.4.4 SLQSQosGetFlowStatus

Description:

This API is to get the QoS flow status such as if the flow is activated or suspended

4.4.5 SLQSQosGetGranted

Description:

This API is to request to retrieve the QoS parameters that are in effect for the specified QoS flow as a result of network negotiation

4.4.6 SLQSQosSuspend

Description:

This API is to suspend one or more existing QoS flows

4.4.7 SLQSQosResume

Description:

This API is to resume one or more existing QoS flows

4.4.8 SLQSQosReset

Description:

This API is to reset the QoS service state variables of the requesting control point

4.4.9 SLQSQosGetNWProf

Description:

This API is to get network supported QoS profile information

4.5 IMS Service

4.5.1 SLQSSetSIPConfig

4.5.2 SLQSSetRegMgrConfig

4.5.3 SLQSSetIMSSMSCConfig

4.5.4 SLQSSetIMSUserConfig

4.5.5 SLQSSetIMSVoIPConfig

4.5.6 SLQSGetSIPConfig

4.5.7 SLQSGetRegMgrConfig

4.5.8 **SLQSGetIMSSSMSConfig**

4.5.9 **SLQSGetIMSUserConfig**

4.5.10 **SLQSGetIMSVoIPConfig**

4.5.11 **SLQSImsConfigIndicationRegister**

5 Additional API's in existing services

5.1 NAS Service

5.1.1 **SLQSNasIndicationRegisterExt**

Description:

This API Registers/De-registers for different NAS (Network access service) indications.

5.1.2 **SLQSInitiateNetworkRegistration**

Description:

Initiates the network registration process.

5.1.3 **SLQSGetPLMNName**

Description:

Get the PLMN name data from the network.

5.1.4 **SLQSGetOperatorNameData**

Description:

Get the operator name data from the network

5.1.5 **SLQSNasGet3GPP2Subscription**

Description:

This API retrieves 3GPP2 subscription-related information

5.2 Callback Service

5.2.1 **SLQSNasSysInfoCallBack**

Description:

Enables/disables the Sys Info callback function.

5.2.2 **SLQSNasNetworkTimeCallBack**

Description:

Enables/disables the Network Time callback function.

5.2.3 **SLQSUIMSetRefreshCallBack**

Description:

Enables/disables the UIM refresh callback function.

5.2.4 SLQSUIMSetStatusChangeCallback

Description:

Enables/disables the UIM Status Change Callback function

5.2.5 SLQSVoiceSetOTASPStatusCallback

Description:

Enables/disables OTASP(Over-The-Air Service Provisioning) or OTAPA(Over-The-Air Parameter Administration) event Callback function (applicable only for 3GPP2).

5.2.6 SLQSVoiceInfoRecCallback

Description:

Enables/disables the Voice information Record callback function

5.2.7 SLQSVoiceSetAllCallStatusCallback

Description:

Enables/disables Voice Call Status Callback function.

5.2.8 SLQSVoiceSetSUPSNotificationCallback

Description:

Enables/disables the supplementary service notification callback function.

5.2.9 SLQSVoiceSetSUPSCallback

Description:

Enables/disables the SUPS callback function.

5.2.10 SLQSVoiceSetDTMFEventCallback

Description:

Enables/disables the DTMF Event callback function

5.2.11 SLQSVoiceSetPrivacyChangeCallback

Description:

Enables/disables the voice privacy change callback function

5.2.12 SLQSWmsMemoryFullCallback

Description:

Enables/disables the event related to memory full status callback function

5.2.13 SLQSWmsMessageWaitingCallback

Description:

Enable/Disable indication which indicates a new incoming voice mail

5.2.14 SLQSSetQosNWStatusCallback

Description:

Enable/Disable indication which indicates the network supports QoS or not. This API is applicable for CDMA only. For 3GPP, QoS is supported by default

5.2.15 SetNetChangeCbk

Description:

Enable/Disable indication which indicates the queue length of the driver as well as setting the threshold value for water mark

5.2.16 SLQSNasSigInfoCallback

Description:

Enable/Disable indication which indicates the network information such as system selection, serving system and signal strength etc

5.2.17 SLQSSetQosEventCallback

Description:

Enable/Disable indication which indicates the QoS global flow reporting for both 3GPP and 3GPP2 and Network supported QoS profile change on 3GPP2

5.2.18 SLQSSetModemTempCallback

Description:

Enable/Disable indication which indicates the modem state and temperature of the modem

5.2.19 SLQSSetPacketSrvStatusCallback

5.2.20 SLQSSetSwiHDRPersCallback

5.2.21 SLQSSetSIPConfigCallback

5.2.22 SLQSSetRegMgrConfigCallback

5.2.23 SLQSSetSMSConfigCallback

5.2.24 SLQSSetUserConfigCallback

5.2.25 SLQSSetVoIPConfigCallback

5.2.26 SLQSSetQosStatusCallback

5.2.27 SLQSSetPriEventCallback

5.3 SMS Service

5.3.1 SLQSGetMessageWaiting

Description:

This API is to get voice mail record if any

5.4 DCS Service

5.4.1 SLQSQosMap

Description:

This is not a QMI message from the SDK to the modem, instead, This API is for the application to set the Differential Service Code Point (DSCP) to the driver for specific index so that the driver is able to associate the DSCP with QoS identifier.

5.4.2 SLQSQosUnmap

Description:

This is not a QMI message from the SDK to the modem, instead, this API is for the application to remove the Differential Service Code Point (DSCP) and QoS identifier association for a specific index.

5.4.3 SLQSQosClearmap

Description:

This is not a QMI message from the SDK to the modem, instead, this API is for the application to remove the Differential Service Code Point (DSCP) and QoS identifier association for the whole table (all index).

5.4.4 SLQSQosEditMap

Description:

This is not a QMI message from the SDK to the modem, instead, this API is for the application to edit association of Differential Service Code Point(DSCP) with QoS identifier

5.4.5 SLQSQosReadMap

Description:

This is not a QMI message from the SDK to the modem, instead, this API is for the application to read association of Differential Service Code Point(DSCP) with QoS identifier

5.5 DMS Service

5.5.1 SLQSSwiGetFSN

5.6 NAS Service

5.6.1 SLQSSwiGetHDRPersonality

5.6.2 SLQSSwiGetHDRProtSubtype