ProSLIC® API Release Notes

Version 9.2.0

20 April 2018

Confidential & Proprietary Information – Released under NDA

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1. Introduction

1.1 Package Contents

This package contains an installer which will install the following components

Main Documentation
- *ProSLIC® API Version 9.2.0 Release Notes* (this document)
- *ProSLIC® API User Guide Version 5.0.2*
- *ProSLIC® API Documentation (HTML)*
- *Silicon Labs Click-Through Software License Agreement, March 25, 2010*

Source code
- *ProSLIC® API source code, example SPI/Timer drivers, demo software*
- *proslic_api_general_9.2.0.tgz (tarball)*

Applications
- **proslic_api_config_tool.exe (version 4.2.1)**

1.2 Release Highlights

Summary of notable changes in this release (from 9.1.0):

- Added Remote SPI demo code

- Added simulated offhook test function

- Bug fix in config too:l Si3217x LCQC6W, Si3226X LCQC 7.6W, and trapezoidal ring limits.

1.3 Considerations for Upgrading

The user *must* upgrade from v9.1.0 to this release if:

- Si3217x LCQC6W, SI3226X LCQC 7.6W for new configuration tool
- Needing to use the simulated offhook test function.

The user should regenerate their constants files if:

- Using the Si3217x LCQC6W or Si3226x LCQC 7.6W.

Note: Si3217x Buckboost, Si3226x QSS, TSS, & TSS-ISO are no longer actively supported and have been removed from the configuration tool in 9.0.0

The user should always consult with their SiLabs FAE to see if upgrading would benefit their application.

1.4 Updating to a new API release

The following general steps should be done as part of the update process from a prior API release:

1) Review directory structure changes made in the API.

2) Review any changes made in the example proslic_api_config.h and si_voice_datatypes.h. Major changes are documented in section 5 of this document, but minor changes may not always be reflected. Make changes to your version of these files as needed.

3) If the configuration tool changed for your chipset, regenerate the constants files your platform from your saved XML files. While the data structures may not have changed some internal calculations may have in the configuration tool that would impact the contents of the constants file.

4) Examine the depreciated list in the "Proslic API documentation" under "Related Pages". If a function or constant is marked as deprecated, migrate your software to the new alternative.

5) If you are not using the makefile fragment proslic_api_core.mk, review section 2 for the list of the current patches. It is suggested to use the latest patches with the given API since this is how Silicon Labs tests the API releases.

2. ProSLIC® Patches

This release includes the latest general-purpose patches for each ProSLIC® device enumerated below. If your application is currently using a customized patch, please consult your Silicon Labs FAE to determine if an updated custom patch will be required for use with this ProSLIC API release.

Device	Revision	DC/DC Architecture	Recommended Patch
Si3217x	B	Buck-Boost	si3217x_patch_B_BB_2012DEC10.c
		Flyback	*si3217x_patch_B_FB_2017MAY25.c*
		PMOS Buck-Boost (All)	*si3217x_patch_B_FB_2017MAY25.c*
		Low-Cost Quasi-CUK (ALL)	*si3217x_patch_B_FB_2017MAY25.c*
	C	*Buck-Boost*	*si3217x_patch_C_FB_2017MAY25.c*
		Flyback/LCFB/LCUB	*si3217x_patch_C_FB_2017MAY25.c*
		Low-Cost Quasi-CUK (All)	*si3217x_patch_C_FB_2017MAY25.c*
		PMOS Buck-Boost (All)	*si3217x_patch_C_FB_2017MAY25.c*
Si3218x	A	*LCCB (ALL)*	*si3218x_patch_A_2017MAY25.c*
Si3219X	A	LCCB (ALL)	*si3219x_patch_A_2017MAY25.c*
Si3226x	C	*Flyback/LCFB*	*si3226x_patch_C_FB_2017MAY26.c*
		Low-Cost Quasi-CUK (ALL)	*si3226x_patch_C_FB_2017MAY26.c*
		TSS	si3226x_patch_C_TSS_2014JUN18.c
		TSS (Isolated)	si3226x_patch_C_TSS_ISO_2014JUN18.c
		CUK	*si3226x_patch_C_FB_2017MAY26.c*
		QSS	si3226x_patch_C_TSS_2014JUN18.c
		Buck-Boost	*si3226x_patch_C_FB_2017MAY26.c*
		PMOS Buck-Boost (All)	*si3226x_patch_C_FB_2017MAY26.c*
		LCUB	*si3226x_patch_C_FB_2017MAY26.c*
Si3228X	A	*LCCB*	*si3228x_patch_A_2017MAY26.c*

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3. Overview of Change History

Below is a summary of notable changes contained in the current and previous releases. Please refer to older releases for history prior to ProSLIC API 7.3.0.

Version	Date	Notable functional changes
V9.2.0	2018-04-20	• API: added simulated offhook test • Config Tool: Updated Si3217x LCQC6W general configuration • Config Tool: Updated Si3226x LCQC7.6W ringer configuration • Config Tool: Trapezoidal crest factor limit check expanded • DEMO: Added remote SPI target + server code. • DEMO: Added simulated offhook test code example
V9.1.0	2017-09-15	• API: Added support for LCFB, LCQC 7.6W, & LCUB to the Si3217x Rev C parts. • API: Added support for LCFB to the Si3226x parts. • Config tool: Adjusted iring_lim for the Si3217x Flyback design. • Confg tool: Correct general parameter behavior for Si3217x LCQC converter option. • DEMO: code fix to timespec time source example.
V9.0.1	2017-06-09	• API: Corrected minor issue found in patch files that were updated in v9.0.0.

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V9.0.0	2017-05-05	- API: Added Si3219x family - API: Corrected hookstate change code – it was rearming and reporting hookflash when one was not present. - API: Updated SetLinefeedState code for better support of manual ring cadencing. - API: Changed iring_lim limit for Si3217x, Si3218x, & Si3228x - API: Added Si3228x/Si3218x LCCB110 converter design. - API: Updated MWI functions to work with new patch sets. Ramp function rewritten to be non-blocking. **NOTE**: Si3217x Buckboost, Si3228x, Si3226x TSS, TSS-ISO, & QSS do not support MWI - Config Tool: Added Si3219x family - Config Tool: corrected behavior of default file names when a period was present in the directory path. - Config Tool: Changed iring_lim settings for LCQC6W Si3226x/Si3217x designs. - DEMO: Added uPBX demo - DEMO: Corrected distinctive ringing example to handle various interrupts being enabled. In addition, updated to fully reflect code changes introduced in the API.
V8.2.0	2016-12-20	- API: Added Si3226x: LCUB converter support - API: Corrected Multibom compiler error - API: Corrected INIT_RESET initialization option. - API: Corrected abrupt ringing/fast ring start support for Si3218x - API: Eliminated additional compiler warnings. - Config Tool: Added new converter option (LCUB) for Si3226x - DEMO: Write RAM now supports writes of all 29 bits - DEMO: Mingw now compiles when VMB1=1 is used.

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V8.1.2	2016-10-07	• API: Added Fast ring start support. • API: Added ProSLIC_SoftReset • API: Si3218x patch: added abrupt ringing support • API Si3228x patch: corrected Si32285 smart ringing behavior. • API: Si3228x device id decoding corrected • Config Tool: Corrected XML loader to accept Si32179 • Config Tool: Updated ringer overhead voltages (all ProSLIC chipsets) • DEMO: Added audio cross connect support for VMB2, firmware version 1.7 or newer • DEMO: platform tester now supports multiple channel testing. • DEMO: corrected Linux VMB2 interface
V8.1.1	2016-06-22	• API: New Si3228x patch needed for MLT • API: Corrected a potential issue with ISI communications. • API: Corrected various compiler (GCC) warnings. • Config Tool: Corrected FSK data structure generation to eliminate compiler warnings. • Config Tool: Corrected Si3228x/Ring dialog window. • DEMO: Added Lua script interpreter to the debug menu. • DEMO: Added more functionality in the debug menu. • DEMO: Corrected various compiler warnings. • DEMO: VMB2 Linux bugfix (channel ID was ignored in 1 function).

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V8.1.0	2016-03-10	• API: Corrected interrupt decode handling. • API: Updated Si3228x patch file for Si32284-Si32287 chipsets. • API: Updated 32x8x part decoding • API: Updated ProSLIC_Init_with_Options() for Si3226x and Si3228x so that we only load/verify patch operations once per device. • Config tool: minor fixes in Si3218x – does not impact XML or constants files. Some usability enhancements. • DOCS: Added three quick start guides. • DEMO: Corrected user input handling. • DEMO: API Demo interrupt menu enhanced. • DEMO: CID demo code updated. • DEMO: Fixed id_evb for desktop Linux. • DEMO: Added new tone & FSK example settings. Updated protection settings for most ProSLIC XML files. • DEMO: Added MinGW support. **NOTE**: This environment went through a very limited test cycle.

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V8.0.0	2016-01-21	• API: Added Si3218x & Si3218x support. • API: Removed deprecated features: Si321x, Si322x, & Si324x support. • API: Code consolidation/depreciation – see section 4 for list of functions changed/removed. • API: Added TRACEPRINT, TRACEPRINT_NOCHAN for use with ENABLE_TRACES. Added SiVoice_setTraceMode() to support this. • API: Created DEBUG_PRINT macro for use with ENABLE_DEBUG. Replaced conditional LOGPRINTs with DEBUG_PRINT macro. • API: Added to 17x Rev B, a new VCM Hysteresis default setting to be consistent with Rev C. • API: Added ProSLIC_SetMWIState_ramp() function. • API: migrated config_inc and config_src to custom directory. • API: Corrected VDAA lineside information. • Config tool: Updated to 4.0.3 • Config tool: Added Si3050, Si3218x, & Si3228x support • Config tool: Removed Si322x support • Config tool: Corrected 17x LCQC VDC input string. This does not impact the behavior of the device from the API. • DEMO: API demo will display preset names in the menu if PERL is installed on host/development system. • DEMO: API demo now uses ProSLIC_HookChangeDetect() for pulse dial and hook detection code. • DEMO: API demo now supports SI3050. • DEMO: Continuous interrupt option will decode DTMFs when detected. • DEMO: added rdwr test program. • DEMO added id_evb utility for VMB1 & VMB2.
V7.6.0	2015-10-16	• Added LCQC3W support for Si3217x RevB chipset. • Minor code cleanup in the API demo – external PCM support restored. • Configuration tool updated to 3.5.0 for Si3217x LCQC maximum VBATR limits. Tool was using 110V for all parts. Instead for the higher voltage variants, 125V should have been used. This parameter is in the general configuration window.

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V7.5.0	2015-10-02	• Reverted a register setting change made in 7.4.0 that impacted SetPowersaveMode() for the Si3217x Rev B chipset. • Corrected Si3226x DCFeed setting for TSS/Fixed for multi-bom configuration. • Updated drivers to perform additional error checking – out of memory + SPI device communications fault. • Updated memory allocation code to allow users to allocate multiple interfaces, devices, and channels with 1 call. Old mechanism supported by macros. • Updated VDAA driver – removed deprecated functions & added checks for channelType. • Added a Linux® SPIDEV userspace drivers support to the demo and platform validation program. • Included an example Linux® kernel driver w/ a simple demo (Si3226x only for this release). • Si321x, Si324x, & Si322x marked as deprecated for next major release. • Added more test cases to the platform validation program. **NOTE**: Linux is a registered trademark of Linus Torvalds.
V7.4.1	2015-02-18	• Si3217x: LCQC6W converter added. • Si3226x: QCUK renamed to LCQC7P6W. • Si3226x BJT Buck-Boost settings updated. • Si3217x part number decoding corrected. • SI3217x & Si3226x: Updated IRING_LIM maximum setting based on correct scaling factor. • SI3217x: Added 3-6V range for PMOS Buck Boost (was removed in 7.3.0) for Rev B in the API. This is for legacy support and not recommended for new designs. • Consolidated code to reduce duplication. • Interrupt decoding optimization option added in the API. • Configuration tool updated to prompt to save XML when exiting if changes were made. • Demo code now works with Linux Desktop (VMB2 only) • Demo code now works with ISI (VMB2 only) • New platform system services validation tool

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V7.3.3	2014-10-01	• Fix for "Load from file" option for impedances in the configuration tool. • Corrected build issues related to Si3226x for MULTI-BOM. • Fixed example Si3217x MULTI-BOM configuration file • Minor bug fix for Si3217x when patch verification is disabled.
V7.3.2	2014-07-21	• Updated Si3217x Rev C and Low-Cost-Quasi-CUK driver • Added more Si3217x chip types to configuration tool • Fixed demo software to be compatible with the VMB1
V7.3.1	2014-06-27	• Increased audio gain level maximum from 6 dB to 9 dB for Si3226, Si3217x, Si3226x • Removed PMOS Buck-Boost support in the configuration tool. • FSKSetup now clears FIFO during initialization • Corrected Si3217x ring settings when using LPR ringing • Si3226x MWI maximum voltage fix • Efficiency improvement for Si3217x Rev C Buck-Boost DC-DC converter design • Enhanced demo code
V7.3.0	2014-01-17	• Increase supported VBAT range for LCQCUK converter types • Deprecated 3-6V range for Si3217x PMOS Buck Boost • Minor enhancement to PLL Freerun • Included demo code

4. Details of ProSLIC® API Changes per Release

This section discusses the various API changes at the ProSLIC/VDAA level, the datatypes used by the main interface level and the major driver level code changes. This is not a comprehensive list, but points out any major changes that the customer should be aware of. Customers needing revision history prior to 7.3.0 should consult their prior API release notes.

NOTE: Macros for chipset to general will be removed in a future release and customers **MUST** migrate to the general case. For example if your software was calling Si3217x_LBCal), you **MUST** migrate to ProSLIC_LBCal().

4.1 Interface Level Changes

4.1.1 The following interface function was added/behavior modified in v9.0.0

API Prototype	Description
Si32xxx_SetLinefeedStatus	All chipset specific versions have been merged into ProSLIC_SetLinefeedStatus().
ProSLIC_MWI	Removed (was deprecated). Use ProSLIC_SetMWIState() instead.
ProSLIC_MWISetup	Replaced with ProSLIC_MWISetV
Si32xxx MWI functions…	Migrated <u>ALL</u> MWI functions to proslic.c
ProSLIC_Init_xxx	Will stop on 1st patch verify failure , if the option is enabled.
ProSLIC_PowerDownConverter	Correctly sets the error element in channel structure.

4.1.2 The following interface function was added in v8.1.2:

API Prototype	Description
ProSLIC_EnableFastRingStart	Enables or disables fast ring start. If enabled, smooth transition ringing is disabled. Used for cases where ring start timing is critical.
ProSLIC_SoftReset	Implements soft reset of the SLIC, checks if the conditions are OK to actually reset the chipset.

4.1.3 The following interface functions were modified or removed in v8.0.0:

API Prototype	Description
Si3217x_LBCal Si3218x_LBCal Si3226x_LBCal Si3228x_LBCal	Code merged into ProSLIC_LBCal.
Si3217x_SetLinefeedStatusBroadcast Si3218x_SetLinefeedStatusBroadcast Si3226x_SetLinefeedStatusBroadcast	Merged into ProSLIC_SetLinefeedStatusBroadcast. Old functions are macro substituted.

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Si3228x_SetLinefeedStatusBroadcast	
Si3217x_FSKSetup Si3218x_FSKSetup Si3226x_FSKSetup Si3228x_FSKSetup	Code merged to call a new API function: ProSLIC_FSKSetupPtr() that takes in a FSK configuration pointer.
Si3217x_ToneGenSetup Si3218x_ToneGenSetup Si3226x_ToneGenSetup Si3228x_ToneGenSetup	Code merged to call a new API function: ProSLIC_ToneGenSetupPtr() that takes in a tone configuration pointer.
Si3217x_Calibrate Si3218x_Calibrate Si3226x_Calibrate Si3228x_Calibrate	The ProSLIC Init function now calls ProSLIC_Calibrate. **NOTE**: this is not to be confused with LB Cal.
Si3217x_PowerDownConverter Si3218x_PowerDownConverter Si3226x_PowerDownConverter Si3228x_PowerDownConverter	Now calls ProSLIC_PowerDownConverter. Old functions are macro substituted.
Si3217x_ShutdownChannel Si3218x_ShutdownChannel Si3226x_ShutdownChannel Si3228x_ShutdownChannel	Now calls ProSLIC_ShutdownChannel since ProSLIC_ShutdownChannel is redundant. Old functions are macro substituted.
Si3217x_VerifyControlInterface Si3218x_VerifyControlInterface Si3226x_VerifyControlInterface Si3228x_VerifyControlInterface	Now calls ProSLIC_VerifyControlInterface. Old functions are macro substituted.
ProSLIC_CreatePSTNCheckObj ProSLIC_CreateDiffPSTNCheckObj ProSLIC_DestroyPSTNCheckObj ProSLIC_DestroyDiffPSTNCheckObj	Returns RC_UNSUPPORTED_FEATURE instead of -1 if DISABLE_MALLOC is set. This change was done to make it consistent with other create/destroy functions.
ProSLIC_DTMFDecodeSetup	Removed since the config tool does not generate the needed presets. Chipset specific versions have also been removed.
ProSLIC_ToneGenSetupPtr	Similar to ProSLIC_ToneGenSetup, except does not reference global variable names.
ProSLIC_FSKSetupPtr	Similar to ProSLIC_FSKSetupPtr, except does not reference global variable names
SiVoice_setTraceMode	New function to control dynamically code traces that rely upon channel pointers. Functions that do not use channel pointers have their traces controlled at compile time. See ENABLE_TRACES in proslic_api_config.h.
ProSLIC_SetMWIState_ramp	This function provides control over the upward and downward slope of the MWI signal. Will block up to step count * step delay mSec.

4.1.4 The following interface functions were modified in v7.6.0:

API Prototype	**Description**

ProSLIC_InitBroadcast	Been marked deprecated for several releases, removed.
ProSLIC_ModemDetSetup	Been marked deprecated for several releases, removed.
ProSLIC_ReadReg & ProSLIC_WriteReg	Moved to SiVoice_ReadReg & SiVoice_WriteReg, old functions are now macro substituted for backward compatibility.

4.1.5 The following interface functions were added in v7.5.0:

API Prototype	Description
SiVoice_createControlInterfaces SiVoice_destroyControlInterfaces SiVoice_createDevices SiVoice_destroyDevices SiVoice_createChannels SiVoice_destroyChannels ProSLIC_createTestInObjs ProSLIC_destroyTestInObjs ProSLIC_CreatePSTNCheckObjs ProSLIC_CreateDiffPSTNCheckObjs ProSLIC_DestroyPSTNCheckObjs ProSLIC_DestroyDiffPSTNCheckObjs	Memory allocation functions take in one additional parameter: number of elements. The singular versions (SiVoice_createControlInterface for example) are macro substituted to call the plural versions of the API calls to allow for backward compatibility.

4.1.6 The following interface functions were added or modified or removed in v7.4.0:

API Prototype	Description
ProSLIC_InitializeDialPulseDetect ProSLIC_DialPulseDetect ProSLIC_DialPulseDetectTimeout	Removed deprecated function – please use ProSLIC_HookChangeDetect and ProSLIC_InitializeHookChangeDetect functions.
Si3217x_SetProfile Si3226x_SetProfile ProSLIC_SetProfile	Removed. Function was never fully implemented.

Several functions were consolidated/refactored. Macro substitution was introduced to allow for backward compatibility for functions impacted.

ProSLIC general level functions:

API	Macro substitution
ProSLIC_clearErrorFlag ProSLIC_createChannel ProSLIC_createControlInterface	SiVoice_clearErrorFlag SiVoice_createChannel SiVoice_createControlInterface

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ProSLIC_createDevice	SiVoice_createDevice
ProSLIC_destroyChannel	SiVoice_destroyChannel
ProSLIC_destroyControlInterface	SiVoice_destroyControlInterface
ProSLIC_destroyDevice	SiVoice_destroyDevice
ProSLIC_getChannelEnable	SiVoice_getChannelEnable
ProSLIC_getErrorFlag	SiVoice_getErrorFlag
ProSLIC_Reset	SiVoice_Reset
ProSLIC_setChannelEnable	SiVoice_setChannelEnable
ProSLIC_setControlInterfaceCtrlObj	SiVoice_setControlInterfaceCtrlObj
ProSLIC_setControlInterfaceDelay	SiVoice_setControlInterfaceDelay
ProSLIC_setControlInterfaceGetTime	SiVoice_setControlInterfaceGetTime
ProSLIC_setControlInterfaceReadRAM	SiVoice_setControlInterfaceReadRAM
ProSLIC_setControlInterfaceReadRegister	SiVoice_setControlInterfaceReadRegister
ProSLIC_setControlInterfaceReset	SiVoice_setControlInterfaceReset
ProSLIC_setControlInterfaceSemaphore	SiVoice_setControlInterfaceSemaphore
ProSLIC_setControlInterfaceTimeElapsed	SiVoice_setControlInterfaceTimeElapsed
ProSLIC_setControlInterfaceTimerObj	SiVoice_setControlInterfaceTimerObj
ProSLIC_setControlInterfaceWriteRAM	SiVoice_setControlInterfaceWriteRAM
ProSLIC_setControlInterfaceWriteRegister	SiVoice_setControlInterfaceWriteRegister
ProSLIC_SetProfile	#error
ProSLIC_setSWDebugMode	SiVoice_setSWDebugMode
ProSLIC_SWInitChan	SiVoice_SWInitChan

The following chipset specific functions were consolidated (Si3217x):

API	Macro substitution
Si3217x_CheckCIDBuffer	ProSLIC_CheckCIDBuffer
Si3217x_DCFeedSetup	Si3217x_DCFeedSetupCfg
Si3217x_DisableCID	ProSLIC_DisableCID
Si3217x_DisableInterrupts	ProSLIC_DisableInterrupts
Si3217x_DTMFReadDigit	ProSLIC_DTMFReadDigit
Si3217x_EnableCID	ProSLIC_EnableCID
Si3217x_GetLBCalResult	ProSLIC_GetLBCalResult
Si3217x_GetLBCalResultPacked	ProSLIC_GetLBCalResultPacked
Si3217x_GetPLLFreeRunStatus	ProSLIC_GetPLLFreeRunStatus
Si3217x_GPIOControl	ProSLIC_GPIOControl
Si3217x_Init	Si3217x_Init_with_Options
Si3217x_LoadPatch	ProSLIC_LoadPatch
Si3217x_LoadPreviousLBCal	ProSLIC_LoadPreviousLBCal
Si3217x_LoadPreviousLBCalPacked	ProSLIC_LoadPreviousLBCalPacked
Si3217x_LoadRegTables	ProSLIC_LoadRegTables
Si3217x_ModemDetSetup	Unsupported
Si3217x_ModifyCIDStartBits	ProSLIC_ModifyCIDStartBits
Si3217x_PCMStart	ProSLIC_PCMStart
Si3217x_PCMStop	ProSLIC_PCMStop
Si3217x_PCMTimeSlotSetup	ProSLIC_PCMTimeSlotSetup
Si3217x_PLLFreeRunStart	ProSLIC_PLLFreeRunStart
Si3217x_PLLFreeRunStop	ProSLIC_PLLFreeRunStop
Si3217x_PolRev	ProSLIC_PolRev
Si3217x_PringDebugRAM	ProSLIC_PrintDebugRAM
Si3217x_PrintDebugData	ProSLIC_PrintDebugData

Si3217x_PrintDebugReg	ProSLIC_PrintDebugReg
Si3217x_PulseMeterDisable	ProSLIC_PulseMeterDisable
Si3217x_PulseMeterEnable	ProSLIC_PulseMeterEnable
Si3217x_PulseMeterStart	ProSLIC_PulseMeterStart
Si3217x_PulseMeterStop	ProSLIC_PulseMeterStop
Si3217x_ReadHookStatus	ProSLIC_ReadHookStatus
Si3217x_ReadRAM	ProSLIC_ReadRAM
Si3217x_ReadReg	ProSLIC_ReadReg
Si3217x_Reset	SiVoice_Reset
Si3217x_RingStart	ProSLIC_RingStart
Si3217x_RingStop	ProSLIC_RingStop
Si3217x_SendCID	ProSLIC_SendCID
Si3217x_SetLoopbackMode	ProSLIC_SetLoopbackMode
Si3217x_SetMuteStatus	ProSLIC_SetMuteStatus
Si3217x_SetPowersaveMode	ProSLIC_SetPowersaveMode
Si3217x_SetProfile	#error
Si3217x_ToneGenStart	ProSLIC_ToneGenStart
Si3217x_ToneGenStop	ProSLIC_ToneGenStop
Si3217x_VerifyPatch	ProSLIC_VerifyPatch
Si3217x_WriteRAM	ProSLIC_WriteRAM
Si3217x_WriteReg	ProSLIC_WriteReg

The following chipset specific functions were consolidated (Si3226x):

API	**Macro substitution**
Si3226x_Cal	Unsupported
Si3226x_CheckCIDBuffer	ProSLIC_CheckCIDBuffer
Si3226x_DCFeedSetup	Si3226x_DCFeedSetupCfg
Si3226x_DisableCID	ProSLIC_DisableCID
Si3226x_DisableInterrupts	ProSLIC_DisableInterrupts
Si3226x_DTMFReadDigit	ProSLIC_DTMFReadDigit
Si3226x_EnableCID	ProSLIC_EnableCID
Si3226x_GetLBCalResult	ProSLIC_GetLBCalResult
Si3226x_GetPLLFreeRunStatus	ProSLIC_GetPLLFreeRunStatus
Si3226x_GPIOControl	ProSLIC_GPIOControl
Si3226x_Init	Si3226x_Init_with_Options
Si3226x_LoadPatch	ProSLIC_LoadPatch
Si3226x_LoadPreviousLBCal	ProSLIC_LoadPreviousLBCal
Si3226x_LoadPreviousLBCalPacked	ProSLIC_LoadPreviousLBCalPacked
Si3226x_LoadRegTables	ProSLIC_LoadRegTables
Si3226x_ModemDetSetup	Unsupported
Si3226x_ModifyCIDStartBits	ProSLIC_ModifyCIDStartBits
Si3226x_PCMStart	ProSLIC_PCMStart
Si3226x_PCMStop	ProSLIC_PCMStop
Si3226x_PCMTimeSlotSetup	ProSLIC_PCMTimeSlotSetup
Si3226x_PLLFreeRunStart	ProSLIC_PLLFreeRunStart
Si3226x_PLLFreeRunStop	ProSLIC_PLLFreeRunStop
Si3226x_PolRev	ProSLIC_PolRev
Si3226x_PringDebugRAM	ProSLIC_PrintDebugRAM
Si3226x_PrintDebugData	ProSLIC_PrintDebugData
Si3226x_PrintDebugReg	ProSLIC_PrintDebugReg
Si3226x_PulseMeterDisable	ProSLIC_PulseMeterDisable
Si3226x_PulseMeterEnable	ProSLIC_PulseMeterEnable

Si3226x_PulseMeterStart	ProSLIC_PulseMeterStart
Si3226x_PulseMeterStop	ProSLIC_PulseMeterDisable
Si3226x_ReadHookStatus	ProSLIC_ReadHookStatus
Si3226x_ReadRAM	ProSLIC_ReadRAM
Si3226x_ReadReg	ProSLIC_ReadReg
Si3226x_Reset	SiVoice_Reset
Si3226x_RingStart	ProSLIC_RingStart
Si3226x_RingStop	ProSLIC_RingStop
Si3226x_SendCID	ProSLIC_SendCID
Si3226x_SetLoopbackMode	ProSLIC_SetLoopbackMode
Si3226x_SetMuteStatus	ProSLIC_SetMuteStatus
Si3226x_SetPowersaveMode	ProSLIC_SetPowersaveMode
Si3226x_SetProfile	#error
Si3226x_ToneGenStart	ProSLIC_ToneGenStart
Si3226x_ToneGenStop	ProSLIC_ToneGenStop
Si3226x_VerifyPatch	ProSLIC_VerifyPatch
Si3226x_WriteRAM	ProSLIC_WriteRAM
Si3226x_WriteReg	ProSLIC_WriteReg

As a reminder, customers should not be calling chipset specific functions, instead customers should be using the ProSLIC generic functions or SiVoice generic functions.

For "Unsupported" functions, a function placeholder was created to print a message if ENABLE_DEBUG is set when the given function is called to alert customers.

References to older chipsets have been removed. Please refer to a 7.x.x for history on these chipsets.

4.2 New/Modified ProSLIC API Data Types

4.2.1 Changes made in v8.0.0:

Datatype	Description
SiVoiceDeviceType	Removed usermodeStatus since we will be in UAM after initialization and therefore, this variable is no longer needed.
SiVoiceChanType	Added a second scratch variable for internal API use. debugMode now is used as a bitfield to contain both debug (bit 0) enable and the new trace enable functionality (bit 1).

5. Changes to Example Files

Changes or additions may have been made to the example presets and configuration files in the custom directory. Please refer to the XML files for example configurations. Customers needing revision history prior to 7.3.0 should consult their earlier API release notes.

5.1 proslic_api_config.h

Release	Change
V9.0.0	• Added patch definitions for Si3219x • Added ability to compile out RevB or RevC for Si3217x specific code. A makefile change would also be needed to remove the version specific C file.
V8.0.0	• Added patch definitions for Si32218x and Si3228x • Added ENABLE_TRACE configuration option. When set, will print entry into major ProSLIC API function (with parameters in some cases) by use of TRACEPRINT & TRACEPRINT_NOCHAN. • Added log option for traces and debug print messages. Please see the api_demo program on how this is used.
V7.6.0	• Added LCQC patch settings for Rev B Si3217x.
V7.5.0	• Made chipset #defines protected by a new PROSLIC_DOXYGEN macro. • Added example implementation for Linux kernel. Customers must define PROSLIC_LINUX_KERNEL to use this.

5.2 proslic_api_datatypes.h

Release	Change
V7.5.0	• Added example implementation for Linux kernel. Customers must define PROSLIC_LINUX_KERNEL to use this.