

Small Cell Multicore Software Development Kit

Release Notes

Applies to Product Release: 02.02.01.03
Publication Date: February 26, 2014

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SC-MCSDK Release 2.2.1

1 Overview

This document is the Release Notes for **Release 2.2.1** of the Small Cell Multicore Software Development Kit (SC-MCSDK) for Linux and BIOS operating systems. This software release gives developers the ability to develop software for the TMS320TCI6614 device.

2 Licensing

Please refer to the software manifest which outlines the licensing status for all packages included in this release.

3 Documentation

- **SC-MCSDK 2.x Users Guide:** Provides information on features, functions, delivery package and, compile tools for the SC-MCSDK release. This also provides detailed information regarding software elements and software infrastructure to allow developers to start creating applications.
- **SC MCSDK 2.x Getting Started Guide:** Provides information on executing the SC-MCSDK Software on the supported platforms.

4 Platform and Device Support

The device and platforms supported with this release include:

- **TCI6614 EVM:** This release supports TCI6614 EVM platform
- **TCI6614 Simulator:** This release supports TCI6614 Simulator

5 Technical Support and Product Updates

For technical discussions, issues, and product updates, please contact TI Applications Support. The SC-MCSDK release download will also have pointers to applicable CCS and compiler release versions as well. Please review the software manifest before downloading and/or installing the software.

6 IS NOT

- Support for BIOS5 or older releases
- Support for CCS 4.x or older releases
- Support for platforms not listed in Section 4
- DSP image format other than ELF (e.g., COFF)

7 Installation

Please refer to the *Getting Started Guide* on how to install the SC-MCSDK packages.

8 Release

8.1 Build 02.02.01.03

This is the **Production** release of the SC-MCSDK 2.2.1 release.

Component	Description	Version	Installer
ARM Target Software			
Linux Kernel	ARM high-level operating system, network stack	3.4.40	SC-MCSDK
U-boot	ARM boot loader	2011_06	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (ARM portion)	1.1.0.0	SC-MCSDK
DSP Target Software			
SYS/BIOS	DSP real-time operating system	6.34.04.22	SC-MCSDK
NDK	DSP network stack	2.21.02.43	SC-MCSDK
IPC	DSP inter-process communication	1.25.03.15	SC-MCSDK
cToolsLib	Trace debug library	1.0.0.3	SC-MCSDK
UIA	Unified instrumentation architecture	1.1.4.27	SC-MCSDK
CUIA LIB	C-UIA library	1.0.0.12	SC-MCSDK
DSP Optimized Libraries			
DSPLIB	Generic DSP functions	3.1.1.1	SC-MCSDK
MATHLIB	Math functions	3.0.2.0	SC-MCSDK
IMGLIB	Image functions	3.1.1.0	SC-MCSDK
SYSLIB	Small cell functions	2.0.8.5	SC-MCSDK
Platform Development Kit			
CSL	Chip support library	1.0.0.7	SC-MCSDK
AIF2 LLD	Antenna Interface LLD	1.1.0.1	SC-MCSDK
BCP LLD	Bit Rate Coprocessor LLD	1.0.1.0	SC-MCSDK
CPPI LLD	Packet DMA LLD	1.0.2.5	SC-MCSDK

EDMA3 LLD	Enhanced Direct Memory LLD	2.11.05.02	SC-MCSDK
FFTC LLD	FFT Accelerator Coprocessor LLD	1.0.0.17	SC-MCSDK
HYPLNK LLD	HyperLink LLD	1.0.1.5	SC-MCSDK
PA LLD	Packet Accelerator LLD.	1.3.1.0	SC-MCSDK
PCIe LLD	Peripheral Component Interconnect Express	1.0.0.3	SC-MCSDK
QMSS LLD	Queue Manager LLD	1.0.3.21	SC-MCSDK
RM LLD	Resource Manager LLD	1.0.0.17	SC-MCSDK
SA LLD	Security Accelerator LLD	1.0.5.4	http://software-dl.ti.com/sdoemb/sdoemb_public_sw/salld/latest/index_FDS.html
SRIO LLD	Serial Rapid IO LLD	1.0.1.11	SC-MCSDK
TCP3D LLD	Turbo Coprocessor Decoder LLD	1.0.0.18	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (DSP portion)	1.1.0.0	SC-MCSDK
NIMU Transport	NDK interface module	1.0.0.10	SC-MCSDK
BMET_Eth	Bare-metal Ethernet transport used by Trace Framework	1.0.0.2	SC-MCSDK
Host Development Tools			
Yocto-Arago	ARM software distribution	1.3	Link
Linux devkit	Development kit that is independent of Arago	N/A	SC-MCSDK
CCS	Code Composer Studio integrated development environment	5.4	Link
Linaro Toolchain	ARM toolchain	2013.03	Link
CodeGen	DSP compiler	7.3.1	CCS
CG_XML	Package of Perl scripts used to process the XML files that come from the TI code generation tools. Use it to do things like build a spreadsheet that details the size of all the sections, or figure out how much of the memory map is taken up by specific libraries	2.30	SC-MCSDK
XDCTools	DSP RTSC packaging and build tools	3.24.05.48	CCS
Simulator	Simulator for TCI6614	0.9.1	CCS
MCSDK Apps	MCSDK applications (Trace framework, udma, DSP core parser, etc.)	2.2.0.2	MCSDK
Emupack	Emulation Software Package contains TI XDS class debug drivers for TI devices and other host tools including "ctprof"	Unavailable at the time of release	Link

New Features

Trace framework enhancement to support UIA trace streaming
Trace framework enhancement to support snapshot feature
Software validation on secure devices

Bug Fixes

ID	Headline
SDOCM00105500	Kernel build warning
SDOCM00106636	(Child) Netfp: MACI generation API should return an error code for unsupported algos.
SDOCM00106637	(Child) Netfp: Modify the Netfp security APIs to return error codes reported by underlying PA, SA LLDs
SDOCM00106371	Output from QoS queues is not rate-limited per dtb configuration
SDOCM00106207	(Child) Add field support for FAPI tracing module - FAPI tracing capture for ARM
SDOCM00106208	(Child) Add field debugability support in DAT
SDOCM00106206	(Child) DAT update with new common based TF
SDOCM00104874	DPM: Incorrect error check when calling Qmss_queueOpen()
SDOCM00106234	PA timestamping on tx packets is inaccurate
SDOCM00106232	TraceFramework: Buffer with wrong Data length is sent to consumer application
SDOCM00106385	Syslib: re-establishment is failing for the Netfp FP Source Handover unit test
SDOCM00106384	Syslib: re-establishment is failing for the FP Encode unit test
SDOCM00106275	netfpproxy is not working correctly for IPV6
SDOCM00105898	(Child) Bare Metal Eth Transport: Does not free up all the descriptors taken from the system during destroy
SDOCM00104873	Netfp: Incorrect pointer dereference when calling stats writeback
SDOCM00106659	Fault Management API writing to NULL pointer
SDOCM00106530	DAT ARM side unit test projects need fixes to be able to handle graceful shutdown
SDOCM00106459	syslib: syslib_setupenv_tci6614.bat has incorrect version number of xdc tools
SDOCM00106233	Adding support to set producer initial state when contract is created

Additional Notes

- The following table shows the status of patches for past releases at the time of this release:

Release	Last Patch	Release Date
2.0.1.15 (Production)	P9	10-Jun-2013
2.0.2.16 (Production)	P8	17-Feb-2014
2.1.0.01 (Production)	P6	13-Jan-2014
2.2.0.02 (Production)	P6	17-Feb-2014

- For development on secure devices, use **MCSDK-SECDEV 1.0.7**.

9 Previous Releases

9.1 Build 02.02.00.02

This is the **Production** release of the SC-MCSDK 2.2.0 release.

Component	Description	Version	Installer
ARM Target Software			
Linux Kernel	ARM high-level operating system, network stack	3.4.40	SC-MCSDK
U-boot	ARM boot loader	2011_06	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (ARM portion)	1.0.3.1	SC-MCSDK
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SYS/BIOS	DSP real-time operating system	6.34.04.22	SC-MCSDK
NDK	DSP network stack	2.21.02.43	SC-MCSDK
IPC	DSP inter-process communication	1.25.03.15	SC-MCSDK
cToolsLib	Trace debug library	1.0.0.3	SC-MCSDK
UIA	Unified instrumentation architecture	1.1.3.25	SC-MCSDK
CUIA LIB	C-UIA library	1.0.0.12	SC-MCSDK
DSP Optimized Libraries			
DSPLIB	Generic DSP functions	3.1.1.1	SC-MCSDK
MATHLIB	Math functions	3.0.2.0	SC-MCSDK
IMGLIB	Image functions	3.1.1.0	SC-MCSDK
SYSLIB	Small cell functions	2.0.8.0	SC-MCSDK

Platform Development Kit			
CSL	Chip support library	1.0.0.7	SC-MCSDK
AIF2 LLD	Antenna Interface LLD	1.0.0.17	SC-MCSDK
BCP LLD	Bit Rate Coprocessor LLD	1.0.1.0	SC-MCSDK
CPPI LLD	Packet DMA LLD	1.0.2.5	SC-MCSDK
EDMA3 LLD	Enhanced Direct Memory LLD	2.11.05.02	SC-MCSDK
FFTC LLD	FFT Accelerator Coprocessor LLD	1.0.0.17	SC-MCSDK
HYPLNK LLD	HyperLink LLD	1.0.1.5	SC-MCSDK
PA LLD	Packet Accelerator LLD.	1.3.0.9	SC-MCSDK
PCIe LLD	Peripheral Component Interconnect Express	1.0.0.3	SC-MCSDK
QMSS LLD	Queue Manager LLD	1.0.3.21	SC-MCSDK
RM LLD	Resource Manager LLD	1.0.0.17	SC-MCSDK
SA LLD	Security Accelerator LLD	1.0.5.4	http://software-dl.ti.com/sdoemb/sdoemb_public_sw/salld/latest/index_FDS.html
SRIO LLD	Serial Rapid IO LLD	1.0.1.11	SC-MCSDK
TCP3D LLD	Turbo Coprocessor Decoder LLD	1.0.0.18	SC-MCSDK
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BMET_Eth	Bare-metal Ethernet transport used by Trace Framework	1.0.0.2	SC-MCSDK
Host Development Tools			
Yocto-Arago	ARM software distribution	1.3	Link
Linux devkit	Development kit that is independent of Arago	N/A	SC-MCSDK
CCS	Code Composer Studio integrated development environment	5.4	Link
Linaro Toolchain	ARM toolchain	2013.03	Link
CodeGen	DSP compiler	7.3.1	CCS
CG_XML	Package of Perl scripts used to process the XML files that come from the TI code generation tools. Use it to do things like build a spreadsheet that details the size of all the sections, or figure out how much of the memory map is taken up by specific libraries	2.30	SC-MCSDK
XDCTools	DSP RTSC packaging and build tools	3.24.05.48	CCS
Simulator	Simulator for TCI6614	0.9.1	CCS
MCSDK Apps	MCSDK applications (Trace framework, udma, DSP core parser, etc.)	2.2.0.2	MCSDK

Emupack	Emulation Software Package contains TI XDS class debug drivers for TI devices and other host tools including "ctprof"	Unavailable at the time of release	Link
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New Features

Changed ARM software from Arago to Linaro based filesystem
CCS updated to version 5.4
Fault management update to halt IP blocks at the time a crash is detected
SYS/BIOS update to support DSP run-time security on secure device
ARM ability to force an exception across all DSP cores
sysapps prints are syslogged instead of stdout/stderr
Trace framework generic producer (non-UIA) example
ARM Embedded Trace Buffer (ETB) support: ctoolsprof extration of ETB (ctoolsprof) ¹
File system partition resizing to increase filesystem space

1: Please see <http://processors.wiki.ti.com/index.php/Ctprof#Installation> for information on installing dependent packages.

Bug Fixes

id	Headline
SDOCM00103488	Directed host route handling wrong in Proxy
SDOCM00103732	Core dumped, /usr/libexec/ipsec/scepclient: double free or corruption
SDOCM00098271	MCSDK instrumentation: CPT examples not working without using EVM GEL files
SDOCM00103773	Deadlock condition found for Traceframework consumers
SDOCM00103404	Generating the key in openssl securestorage causes the softhsm-daemon to crash
SDOCM00103398	For secure storage securedb is missing from FS.
SDOCM00103473	Error encountered while using kexec utility to load evm recovery dtb file for use on panic
SDOCM00103181	Netfp: Remove interface statistics
SDOCM00102916	Netfp_encodeSrb1 and Netfp_decodeSrb1: Missing PKTLIB writeback in NULL and SNOW3G
SDOCM00103179	Sysapps: Add logging capability in Msgcom module.
SDOCM00103306	Unable to view registers of DSP core crash dump using CCS
SDOCM00100714	Trace Framework Producer Destroy API does not free up non General Producer types
SDOCM00102113	TraceFramework: Need flag to determine if the logging information starts with the first buffer or with the next buffer
SDOCM00103323	dspcoreparse only supports linux build
SDOCM00102774	arago-2013.04-armv7a-linux-gnueabi-sc-mcsdk-sdk-i686.sh does not have execute rights after 2.2.0.0. installation.
SDOCM00102772	devkit lib points to TI specific locations /home/gtbdadm/mynightly/work/linux/oe-layersetup-mcsdk
SDOCM00102975	Warning message: INIT: Id "1" respawning too fast: disabled for 5 minutes keeps popping up

SDOCM00103286	FAPI: Update to FAPI tracing library to version 1.6
SDOCM00103180	Sysapps: Remove debug prints from sysapps modules
SDOCM00097109	Provide OSAL callout for getting the producer handle instead of deriving it via DNUM in TraceFramework
SDOCM00099679	trace framework producer test apps clean up
SDOCM00102192	Trace Framework: producer enhancement to have least buffer drops before consumer is created
SDOCM00095655	Traceframework: DSP: General Producer example needs to be enhanced to put UIA header/Footer on top of the raw msgs

Additional Notes

- The following table shows the status of patches for past releases at the time of this release:

Release	Last Patch	Release Date
2.0.1.15 (Production)	P9	10-Jun-2013
2.0.2.16 (Production)	P2	27-Aug-2013
2.1.0.1 (Production)	P4	05-Sep-2013

- For development on secure devices, use **MCSDK-SECDEV 1.0.6**.

9.2 Build 02.02.00.01

This is the **Alpha-2** release of the SC-MCSDK 2.2.0 release.

Component	Description	Version	Installer
ARM Target Software			
Linux Kernel	ARM high-level operating system, network stack	3.4.40	SC-MCSDK
U-boot	ARM boot loader	2011_06	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (ARM portion)	1.0.2.0	SC-MCSDK
DSP Target Software			
SYS/BIOS	DSP real-time operating system	6.33.05.46	CCS
NDK	DSP network stack	2.21.01.38	SC-MCSDK
IPC	DSP inter-process communication	1.24.03.32	CCS
cToolsLib	Trace debug library	1.0.0.3	SC-MCSDK
UIA	Unified instrumentation architecture	1.1.3.25	SC-MCSDK

CUIA LIB	C-UIA library	1.0.0.12	SC-MCSDK
DSP Optimized Libraries			
DSPLIB	Generic DSP functions	3.1.1.1	SC-MCSDK
MATHLIB	Math functions	3.0.2.0	SC-MCSDK
IMGLIB	Image functions	3.1.1.0	SC-MCSDK
SYSLIB	Small cell functions	2.0.7.3	SC-MCSDK
Platform Development Kit			
CSL	Chip support library	1.0.0.7	SC-MCSDK
AIF2 LLD	Antenna Interface LLD	1.0.0.8	SC-MCSDK
BCP LLD	Bit Rate Coprocessor LLD	1.0.1.0	SC-MCSDK
CPPI LLD	Packet DMA LLD	1.0.2.4	SC-MCSDK
EDMA3 LLD	Enhanced Direct Memory LLD	2.11.05.02	SC-MCSDK
FFTC LLD	FFT Accelerator Coprocessor LLD	1.0.0.17	SC-MCSDK
HYPLNK LLD	HyperLink LLD	1.0.1.5	SC-MCSDK
PA LLD	Packet Accelerator LLD.	1.3.0.9	SC-MCSDK
PCIe LLD	Peripheral Component Interconnect Express	1.0.0.3	SC-MCSDK
QMSS LLD	Queue Manager LLD	1.0.3.20	SC-MCSDK
RM LLD	Resource Manager LLD	1.0.0.15	SC-MCSDK
SA LLD	Security Accelerator LLD	1.0.5.4	http://software-dl.ti.com/sdoemb/sdoemb_public_sw/salld/latest/index_FDS.html
SRIO LLD	Serial Rapid IO LLD	1.0.1.11	SC-MCSDK
TCP3D LLD	Turbo Coprocessor Decoder LLD	1.0.0.18	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (DSP portion)	1.0.2.0	SC-MCSDK
NIMU Transport	NDK interface module	1.0.0.10	SC-MCSDK
BMET_Eth	Bare-metal Ethernet transport used by Trace Framework	1.0.0.2	SC-MCSDK
Host Development Tools			
Yocto-Arago	ARM software distribution	1.3	Link
Linux devkit	Development kit that is independent of Arago	N/A	SC-MCSDK
CCS	Code Composer Studio integrated development environment	5.1.1	Link
Linaro Toolchain	ARM toolchain	2013.03	Link
CodeGen	DSP compiler	7.3.1	CCS
CG_XML	Package of Perl scripts used to process the XML files that come from the TI code generation tools. Use it to do things like	2.30	SC-MCSDK

	build a spreadsheet that details the size of all the sections, or figure out how much of the memory map is taken up by specific libraries.		
XDCTools	DSP RTSC packaging and build tools	3.23.03.53	CCS
Simulator	Simulator for TCI6614	0.9.1	CCS
MCSDK Apps	MCSDK applications (Trace framework, udma, DSP core parser, etc.)	2.1.0.1	MCSDK

New Features

System should have ability to force an exception across all DSP cores

Bug Fixes

id	Headline
SDOCM00102650	Migration Guide is pointing to older release
SDOCM00102734	CCS does not detect PDK component
SDOCM00102695	Version of cToolsLib does not match the latest on SC 2.0.x/2.1.x
SDOCM00102799	LogSnapshot and LoggerStreamer libs from linux devkit
SDOCM00102797	dat_verbosity_levels.h missing from devkit
SDOCM00098729	Linux kernel exported header files missing from Linux devkit

Additional Notes

- The following table shows the status of patches for past releases at the time of this release:

Release	Last Patch	Release Date
2.0.0.5	P3	06-Mar-2012
2.0.0.6	None	16-Mar-2012
2.0.0.7	P3	07-Sep-2012
2.0.0.8	P6	17-Aug-2012
2.0.0.9	P7	19-Nov-2012
2.0.0.10	P7	18-Jan-2013
2.0.0.11	P4	21-Dec-2012
2.0.0.12 (Beta)	P3	24-Jan-2013
2.0.0.13 (Production)	None	21-Dec-2012
2.0.1.14	None	09-Jan-2013
2.0.1.15 (Production)	P9	10-Jun-2013
2.0.2.16 (Production)	P1	20-Jun-2013
2.1.0.1 (Production)	P3	12-Jul-2013

- For development on secure devices, use **MCSDK-SECDEV 1.0.6**.

9.3 Build 02.02.00.00

This is the [Alpha](#) release of the SC-MCSDK 2.2.0 release. This release is baselined from **SC-MCSDK 02.01.00.01 Patch 3**.

Component	Description	Version	Installer
ARM Target Software			
Linux Kernel	ARM high-level operating system, network stack	3.4.40	SC-MCSDK

U-boot	ARM boot loader	2011_06	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (ARM portion)	1.0.2.0	SC-MCSDK
DSP Target Software			
SYS/BIOS	DSP real-time operating system	6.33.05.46	CCS
NDK	DSP network stack	2.21.01.38	SC-MCSDK
IPC	DSP inter-process communication	1.24.03.32	CCS
cToolsLib	Trace debug library	1.0.0.2	SC-MCSDK
UIA	Unified instrumentation architecture	1.1.2.23	SC-MCSDK
CUIA LIB	C-UIA library	1.0.0.12	SC-MCSDK
DSP Optimized Libraries			
DSPLIB	Generic DSP functions	3.1.1.1	SC-MCSDK
MATHLIB	Math functions	3.0.2.0 (fixed typo)	SC-MCSDK
IMGLIB	Image functions	3.1.1.0	SC-MCSDK
SYSLIB	Small cell functions	2.0.7.3 (fixed typo)	SC-MCSDK
Platform Development Kit			
CSL	Chip support library	1.0.0.7	SC-MCSDK
AIF2 LLD	Antenna Interface LLD	1.0.0.8	SC-MCSDK
BCP LLD	Bit Rate Coprocessor LLD	1.0.1.0	SC-MCSDK
CPPI LLD	Packet DMA LLD	1.0.2.4	SC-MCSDK
EDMA3 LLD	Enhanced Direct Memory LLD	2.11.05.02	SC-MCSDK
FFTC LLD	FFT Accelerator Coprocessor LLD	1.0.0.17	SC-MCSDK
HYPLNK LLD	HyperLink LLD	1.0.1.5	SC-MCSDK
PA LLD	Packet Accelerator LLD.	1.3.0.9	SC-MCSDK
PCIe LLD	Peripheral Component Interconnect Express	1.0.0.3	SC-MCSDK
QMSS LLD	Queue Manager LLD	1.0.3.20	SC-MCSDK
RM LLD	Resource Manager LLD	1.0.0.15	SC-MCSDK
SA LLD	Security Accelerator LLD	1.0.5.4	http://software-dl.ti.com/sdoemb/sdoemb_public_sw/salld/latest/index_FDS.html
SRIO LLD	Serial Rapid IO LLD	1.0.1.11	SC-MCSDK
TCP3D LLD	Turbo Coprocessor Decoder LLD	1.0.0.18	SC-MCSDK
Trace Framework	Trace framework for collecting and distributing log/event messages (DSP portion)	1.0.2.0	SC-MCSDK
NIMU Transport	NDK interface module	1.0.0.10	SC-MCSDK
BMET_Eth	Bare-metal Ethernet transport used by Trace Framework	1.0.0.2	SC-MCSDK

Host Development Tools			
Yocto-Arago	ARM software distribution	1.3	Link
Linux devkit	Development kit that is independent of Arago	N/A	SC-MCSDK
CCS	Code Composer Studio integrated development environment	5.1.1	Link
Linaro Toolchain	ARM toolchain	2013.03	Link
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XDCTools	DSP RTSC packaging and build tools	3.23.03.53	CCS
Simulator	Simulator for TCI6614	0.9.1	CCS
MCSDK Apps	MCSDK applications (Trace framework, udma, DSP core parser, etc.)	2.1.0.1	MCSDK

New Features

ARM build with Yocto environment
ARM toolchain is updated to linaro-arm-linux-gnueabi

Bug Fixes

id	Headline
SDOCM00102611	Update sc-mcsdk builds to use yocto infrastructure
SDOCM00102081	sc-mcsdk: eclipse plugins are to be fixed for CCS 5.4 on Linux