SYSLIB

Release Notes

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SYSLIB 4.00.05.00

1 INTRODUCTION

1.1 Overview

This document provides the release information for the SYSLIB software package. The SYSLIB package includes the following:-

- SYSLIB Release Notes
- SYSLIB User's Guide
- Source code of all SYSLIB components
- Pre-built libraries (Little Endian) of all SYSLIB components
- API reference guide
- Software Manifest

This is an engineering tested alpha release package. Release notes from previous releases are also available in the release notes archive directory

2 RELEASE OVERVIEW

2.1 Hardware Device Support

The device and platforms tested for this release include:

- K2H
- K2K
- K2L

Please review the Device section for more details.

2.2 Components and Tools

The SYSLIB package is verified/tested using the **MCSDK 3.01.04.07** package. Please refer to the MCSDK Release notes for a list of all the component information. The following is the list of additional packages which were used to test the release:



- 1. SNOW3G 1.0.0.2
- 2. CUIA 1.01.00.06 Custom
- 3. UIA 2_00_03_43
- 4. SA3GPP Enabler 3.0.0.0

The SYSLIB supports <u>only the RT kernel</u> from the MCSDK release. Please use the RT DEVKIT for the development of user space applications.

2.3 Licensing

Please refer to the software manifest

2.4 MCSDK Patches

The section documents the MCSDK Patches which need to be added to the base MCSDK release.

2.4.1 Memory Reserve Size

Please ensure that the following environment variable is defined and saved in the UBOOT environment:-

setenv mem reserve 1536M

This will ensure that the kernel reserved the higher order 1.5GB of memory for the DSP. Failure to do so will result in the kernel overwriting DSP memory. Application developers can modify and customize the DSP & ARM memory map. The default DSP SYSLIB memory map which is released in the SYSLIB INSTALL PATH/ti/platforms assumes the above reservation.

2.4.2 Installing the SA 3GPP Enabler to Linux devkit

As mentioned above the SA3GPP enabler is a prerequisite. While installing the SA3GPP; the installer will request for the PDK Path. This will ensure that the SA3GPP Installer will be correctly found and the DSP applications will be built properly. However the installer does not update the RT Linux development kit and so the following manual steps need to be done:

- Create directory sa3gppEnabler under the ARAGODIR/include/ti/drv/sa
- Copy the sa3gpp.h from the PDK_INSTALL_PATH/ti/drv/sa/sa3gppEnabler to the ARAGODIR/include/ti/drv/sa/sa3gppEnabler
- Copy the sa3gppver.h from the PDK_INSTALL_PATH/ti/drv/sa/sa3gppEnabler to the ARAGODIR/include/ti/drv/sa/sa3gppEnabler



Copy the library libsa3gpp.a from the
 PDK_INSTALL_PATH/ti/drv/sa/sa3gppEnabler/lib/armv7 to the ARAGODIR/lib folder

NOTE: Due to licensing the SA3GPP enabler is <u>not</u> enabled in the default NETFP Server executable. For customers to have signed the 3GPP license the NETFP Server (ti/apps/netfp server/netfp server.c) needs to be patched as described below:-

```
gNetfpServerMCB.netfpServerHandle = Netfp_initServer (&serverConfig, &errCode);
if (gNetfpServerMCB.netfpServerHandle == NULL)
...
/* Enable the SA 3GPP Enabler: */
Sa_3gppEnabler();
```

This patch will allow customers to use the EEA1 and EIA1 services. Failure to apply the patch will cause the LTE channel creation to fail.

2.4.3 Installing the BCP header files to Linux devkit

The SOC Initialization application is now capable of initializing and configuring the BCP. This requires the BCP header files. The BCP header files are not located in the RT Linux development kit. It is thus required to copy all the header files from the PDK_INSTALL_PATH/ti/drv/bcp directory to the ARAGO directory.

- Create directory bcp under the ARAGODIR/include/ti/drv
- Copy all the header files from the PDK_INSTALL_PATH/ti/drv/bcp to the ARAGODIR/usr/include/ti/drv/bcp

This is **only** required if the SOC Initialization application is being built.

2.4.4 Installing the Custom UIA files

The cUIA package was modified to support 8 instances of logger streamer. It is now present in SYSLIB_INSTALL_PATH/mcsdk_patches directory. Untar the cuia_1_01_00_06Custom.tar file to CUIA INSTALL PATH.

2.4.5 Linux kernel update

If new IPSEC authentication or encryption features are to be used, a kernel update is required to enable appropriate Security Accelerator Linux support. Integrator would need to update kernel. Patch is not included with Syslib release.



2.4.6 ARM Cache Coherency (QMSS Bouncing Queue)

ARM Cache Coherency issue workaround is requiring PDSP accumulator firmware upgrades;

- QMSS PDSP Firmware
 - O Copy QMSS firmware patch from mcsdk_patches/qmss/firmware/to LINUX_KERNEL_INSTALL PATH/firmware/keystone/
 - acc48_le.bib -> qmss_pdsp_acc48_k2_le_1_0_0_9.fw
- PA PDSP Firmware
 - O Copy PA firmware patches from mcsdk_patches/pa.zip (see chapter 2.4.7
 for more information) to
 LINUX KERNEL INSTALL PATH/firmware/keystone/
 - Hawking
 - fw/v0/classify1 0.bib \rightarrow pa pdsp0 classify1.fw
 - fw/v0/classify1 1.bib \rightarrow pa pdsp1 classify1.fw
 - fw/v0/classify1 2.bib → pa pdsp2 classify1.fw
 - fw/v0/classify2.bib \rightarrow pa pdsp3 classify2.fw
 - fw/v0/pam.bib > pa_pdsp45_pam.fw
 - Lamarr
 - Bouncing queue feature is valid only for K2H at the moment!

See chapter 3.1.1 for more information.

2.4.7 PDK library patches

Please use the table below and apply the PDK patches as described below. All the patches described below are present in the SYSLIB INSTALL PATH/mcsdk patches/ directory

| Support the qmss/libqmss_k2h.so.1.0.0 insertion of qmss/libqmss_k2h.a descriptors into the qmss/libqmss_k2l.so.1.0.0 into the appropriate location in the linking RAM (Internal or External) | File Name | Issue | How to patch |
|--|---|---|--|
| | qmss/libqmss_k2h.a qmss/libqmss_k2l.so.1.0.0 | insertion of descriptors into the appropriate location in the linking RAM (Internal or | the /usr/lib directory. And copy files also to |



```
QMSS
                               barrier
                               queue
                               support.
                               This is for
                               ARM build.
qmss/firmware/acc48_le_bin.h
                                            Copy file to
                              Accumulator
                                            PDK INSTALL PATH/ti/drv/qmss/firmware/
                               firmware.
                                            and
                               Support the
                                            ARAGO INSTALL PATH/
                               QMSS
                                                   usr/include/ti/drv/qmss/firmware/
                               barrier
                               queue.
                               ARM and
                               DSP builds
qmss/qmss acc.h
                               Adds the
                                            Copy file to
                                            PDK INSTALL PATH/ti/drv/qmss/
                               QMSS
                                            and
                               barrier
                                            ARAGO INSTALL PATH/
                               queue
                                                   usr/include/ti/drv/qmss/
                               support.
                               ARM and
                               DSP builds
                                            Copy the files and overwrite the default library
qmss/k2h/ti.drv.qmss.ae66
                               Support the
qmss/k2h/ti.drv.qmss.ae66e
                              insertion of
                                            files which are present in the:
qmss/k21/ti.drv.qmss.ae66
                               descriptors
                                            PDK INSTALL PATH/ti/drv/qmss/lib/k2h/c66
qmss/k21/ti.drv.qmss.ae66e
                              into the
                                            PDK INSTALL PATH/ti/drv/qmss/lib/k21/c66
qmss/k2k/ti.drv.qmss.ae66
                               appropriate
                                            PDK INSTALL PATH/ti/drv/qmss/lib/k2k/c66
qmss/k2k/ti.drv.qmss.ae66e
                               location in
                               the linking
                                            This is also provided in the QMSS LLD GIT
                               RAM
                                            Repository [Click here].
                               (Internal or
                                            Commit Id:
                               External)
                                            3a14ab3db213c69b13a19a8af08531e58e16ef32
                               This is for
                                            [NOTE]: Pick up just this one commit.
                               DSP build.
                                             else {
                                             for (i = 0; i < QMSS_MAX_MEM_REGIONS; i++)</pre>
                                              (gObjPtr->memRegInfo[qGroup][i].descNum
                                             == 0)
```



```
index = i;
                                                    break;
                                               }
                                              }
                                             if (lObjPtr->qmRmServiceHandle) {
                                               startIndex = memRegCfg->startIndex;
                                               if (startIndex >= 0) {
                                                /* Let RM override user specified
                                             (memset(0)) region */
                                               startIndex = QMSS_PARAM_NOT_SPECIFIED;
                                             else {
                                               if (index == 0)
                                                  startIndex = 0;
                                               else
                                                  startIndex =
                                             gObjPtr->memRegInfo[qGroup][index -
                                             1].descNum +
                                             gObjPtr->memRegInfo[qGroup][index -
                                             1].startIndex;
qmss/device/k2[hkl]/
                                            Copy file to
                              Adds the
src/qmss device.c
                                            PDK INSTALL PATH/ti/drv/qmss/device/
                              QMSS
                                            k2[hkl]/src/
                              barrier
                                            and
                              queue
                                            ARAGO INSTALL PATH/
                              support.
                                            usr/include/ti/drv/gmss/ device/
                                            k2[hkl]/src/
                              ARM and
                              DSP builds
libpa.so.1.0.0
                              PA Bouncing
libpa2.so.1.0.0
                                           TFTP the shared library object onto the EVM into
                              queue
                                            the /usr/lib directory.
                              support.
                              This is for
                              the ARM
                              Builds.
ti.drv.pa.ae66
                                           Copy the files and overwrite the default library
                              PA Bouncing
ti.drv.pa.ae66e
                                            files which are present in the:-
                              queue
ti.drv.pa2.ae66
                              support.
ti.drv.pa2.ae66e
                                            PDK INSTALL PATH/ti/drv/pa/lib/c66
                              This is for
                                            This is also provided in the PA LLD GIT Repository
                              the DSP
                                            [Click here].
                              Builds.
                                            GIT Tag:
                                            EA.PA LLD.03.00.01.06
                                            Commit Id:
                                            d26b38c3a43e4d5c979b3f547291e730832768fc
```



| sa/fw/v0/*.c sa/fw/v1/*.c | SA firmware files which enable usage of GMAC algorithm | It is required to rebuild SA LLD to enable firmware version of 03.00.00.16. For rebuild, please use SA LLD GIT Repository [Click here]. GIT Tag: DEV.SA_LLD.03.00.00.16 Commit Id: 8104974d908496bc9f7aca1bfa0f965de902bbcb For convenience, precompiled libs are made available: On ARM; the firmware files are located in the DEVKIT and so these files need to be updated in the following directory:- ARAGO_INSTALL_PATH/usr/include/ti/drv/sa The NETFP Master is responsible for downloading the SA Firmware. The NETFP Master displays the SA Firmware version. This can be used to verify if the patch is applied or not. The patched firmware version should be as follows:- Debug: SA PDSP0 Version: 3000010 Debug: SA PDSP1 Version: 3000010 |
|---|--|---|
| sa/*.h | SA LLD header files | SA firmware update requires also header files to be updated to the following directory: ARAGO_INSTALL_PATH/usr/include/ti/drv/sa and PDK_INSTALL_PATH/ti/drv/sa |
| sa/libsa.so.1.0.0 | SA LLD ARM library files | TFTP the shared library object onto the EVM into the /usr/lib directory. Make sure that the NETFP Master reports correct LLD version:- Debug: SA Version : 3000010 |
| sa/ti.drv.sa.ae66 sa/ti.drv.sa.ae66e | SA LLD DSP library files | Copy to PDK_INSTALL_PATH/ti/drv/sa/lib/c66 Make sure that the DSP application reports correct LLD version:- Debug: SA Version : 3000010 |
| pa.zip | PA Bouncing queue support. | Replaces the existing PA driver folder PDK_INSTALL_PATH/ti/drv/pa Copy PA header and firmware files also into ARAGO_INSTALL_PATH/usr/include/ti/drv/pa/ |



2.4.8 DTS File Updates

NOTE: Please integrate the SYSLIB released DTS files for the specific device with your application and always update the kernel DTB files and SYSLIB RMv2 DTB files. Failure to do so will result in out of the box failures.

2.4.8.1 K2H/K2K

The kernel DTS files have been modified for the following features:-

- GIC Queues 8722 to 8735 were originally reserved for the Linux kernel. These queues are not used by the Linux kernel so these have been marked as unreserved and could now be used by the ARM applications
- Wiring of the GIC Queue and INTC SET2 interrupt queues from using the UIO module.
- QMSS barrier queue support

Along with the kernel DTS file; the SYSLIB RMv2 files have also been modified for the following features:-

- GIC Queues 8722 onwards have been marked as usable
- INTC SET2 queues have been allocated to ARM
- Wildcarding support
- Simplified L2 and L3 QoS shapers. This is for illustration only. Customers are recommended to modify the shapers as per their requirements.

2.4.8.2 K2L

The kernel DTS files have been modified for the following features:-

- GIC Queues 546 to 559 were originally reserved for the Linux kernel. These queues are not used by the Linux kernel so these have been marked as unreserved and could not be used by the ARM applications
- Wiring of the GIC Queue and SOC SET 1 interrupt queues from using the UIO module.
- QMSS barrier queue support

Along with the kernel DTS file; the SYSLIB RMv2 files have also been modified for the following features:-

GIC Queues 546 onwards have been marked as usable



- SOC-SET1 queues have been allocated to ARM
- Wildcarding support
- Simplified L2 and L3 QoS shapers. This is for illustration only. Customers are recommended to modify the shapers as per their requirements.

3 What's new

3.1 New Features

3.1.1 QMSS Barrier Queue

Fix to K2 ARM cache coherency issue.

This adds support to configure QMSS barrier queues (MSMC or DDR). Syslib ResMgr DTS files are used to define which general purpose queue is used for each barrier. DTS is also used to defining a PDSP ID which will be running the modified QMSS barrier accumulator firmware.

global-resource-list.dts:

```
qmssBarrier {
    msmc_barrier_Q {
        resource-range = <896 1>;
    };
    msmc_barrier_PDSPID {
        resource-range = <0 1>;
    };
    //ddr_barrier_Q {
        // resource-range = <897 1>;
        //};
        ddr_barrier_PDSPID {
            resource-range = <0 1>;
        };
    }; /* qmssBarrier */
```

policy arm dsp syslib.dts:

```
qmssBarrier {
    msmc_barrier_Q {
        assignments = <896 1>, "iu = (Rm_System)";
    };
    msmc_barrier_PDSPID {
        assignments = <0 1>, "iu = (Rm_System)";
    };
    ddr_barrier_Q {
        assignments = <897 1>, "iu = (Rm_System)";
    };
    ddr_barrier_PDSPID {
        assignments = <0 1>, "iu = (Rm_System)";
    };
}; /* qmssBarrier */
```



[NOTE] Remember to remove barrier queues from available general purpose queues list!

Accumulator PDSP firmware upgrades (PA and QMSS) are required to support this feature. [NOTE] Linux kernel needs to be recompiled and upgraded.

3.1.2 TCP MSS Clamping

The handling of IPSEC ESP packet header and trailer allocation is changed to accommodate the true size better, instead of hard coded margins. Now only the padding is calculated to be the maximum needed and is per the algorithm needs. Other variable sizes are true sizes.

3.2 API Changes

None

3.3 SYSLIB 4.0.5.0 Bug/Feature update list from JIRA:

| Issue Type | Key | Summary |
|---------------|------------|---|
| New | | Workaround for K2 ARM cache coherency issue |
| feature | SCLTE-2875 | |
| New | | Unnecessary IPv6 fragmentation header added for UE packets of certain |
| feature | SCLTE-2834 | size |
| Bug | SCLTE-2864 | Msgcom_SDS missing from SYSLIB4.0.3.0 release |
| Bug | SCLTE-2867 | Incoming UL LTE traffic with incorrect UDP checksum is passed to UE |
| Bug | SCLTE-2870 | IPv6 Path MTU Discovery for UP does not work |
| Bug | SCLTE-2873 | Deleted inbound parent FP is activated during rekey |
| Bug | SCLTE-2874 | PMTUD for UP can set MTU below IPv6 minimum |
| Bug | SCLTE-2856 | Leaked security context ID in Netfp_secContextAlloc on error branch |

3.4 Known Issues:

| Key | Summary |
|------------|---|
| SCLTE-2019 | Fixed 1GHz clock used in DAT_TIME_ELAPSED |
| SCLTE-1612 | while(1) loop in msgcom code needs to be removed. |
| | Software Frame Protocol CRC computations are not |
| SCLTE-2506 | supported on ARM |



RELEASE BUILDING

SYSLIB release build & environment configuration scripts which are located in the SYSLIB Install directory scripts folder. Please setup the following environment variables:-

```
export
ARMTOOLS INSTALL PATH=/home/share/tools/qcc-linaro-arm-linux-qnueabihf-4.7-201
3.03-20130313 linux
export
ARAGO INSTALL PATH=/home/share/ti/mcsdk linux 3 01 04 07 devkit rt/sysroots/co
rtexa15t2hf-vfp-neon-linux-gnueabi
export CGT INSTALL PATH=/home/share/ti/cgt 7.4.12
export XDC INSTALL PATH=/home/share/ti/xdctools 3 31 02 38 core
export PDK INSTALL PATH=/home/share/ti/pdk keystone2 3 01 04 07/packages
export SNOW3G INSTALL PATH=/home/share/ti/snow3g 1 0 0 2/packages
export UIA INSTALL PATH=/home/share/ti/uia 2 00 03 40 eng/packages
export INSTALL JAMMER INSTALL PATH=/home/share/tools/installjammer-1.2.15
export BIOS INSTALL PATH=/home/share/ti/bios 6 41 04 54/packages
export IPC INSTALL PATH=/home/share/ti/ipc 3 36 02 13/packages
export CUIA INSTALL PATH=/home/share/tools/cuia 1 01 00 06Custom
export SYSLIB INSTALL PATH=/home/share/work/k2 dev/syslib
export SYSLIB DEVICE=k2h
```

The environment variables are illustrative and should be modified by the customer as per their install paths. Once configured please setup the build environment by executing the following script:-

```
cd scripts
source setupenv.sh
```

This will setup the build environment and will also sanity check to make sure that all the required environment variables are configured.

3.5 Building the ARM Libraries, Servers & Unit Tests



Once the build environment is configured; please execute the following script to build the libraries for a specific device:-

```
cd scripts
source dev.sh <DEV_NAME> <ARM_BUILD> <DSP_BUILD> <DEMO_BUILD> <ARM_UNIT_TEST>
<DSP_UNIT_TEST>
```

| Argument | Description |
|---------------|--|
| DEV_NAME | Name of the device for which the builds need to be done. Valid values are k2h, k2k and k2l |
| ARM_BUILD | Set to 1 to build the ARM libraries and standard SYSLIB Servers |
| DSP_BUILD | Always set to 0. To build the DSP Libraries please refer below |
| DEMO_BUILD | Set to 1 to build the DEMO for the specific device |
| ARM_UNIT_TEST | Set to 1 to build the ARM Unit Test for all the SYSLIB modules |
| DSP_UNIT_TEST | Set to 1 to build the DSP Unit Test for all the SYSLIB modules |

Example: To rebuild the ARM Libraries/applications for K2H

source dev.sh k2h 1 0 0 0 0

Example: To build the ARM Libraries & Unit Tests for K2L

source dev.sh k21 1 0 0 1 0

3.6 Building the DSP Libraries



Ensure that the SYSLIB_DEVICE is correctly configured in the environment variable. The example below selects the device as K2L

```
export SYSLIB_DEVICE=k21
```

Modify the environment variable

```
export SYSLIB_INSTALL_PATH=~/ti/syslib_4_00_04_00
```

NOTE: There is no /packages at the end of the SYSLIB_INSTALL_PATH

Once configured please setup the build environment again by executing the following script:-

```
cd scripts
source setupenv.sh
```

To rebuild SYSLIB DSP Libraries; please do the following from the top level directory:-

```
xdc clean -PR .
xdc -PR .
```

3.7 Building the DSP Unit Tests

DSP Unit Tests are built using the script described above. **Example:** To build all the DSP Unit Tests for K2L

```
source dev.sh k21 0 0 0 1
```

4 Device Support

Please read the following section which documents details about each SYSLIB supported device:



4.1 K2H

| Kernel DTS Files | ti/runtime/resmgr/dts/k2h |
|---------------------------------|---|
| RMv2 DTS Files | ti/runtime/resmgr/dts/k2h |
| DSP Memory Map | ti/runtime/platforms/tmdxevm66381xe |
| ARM Compilation Flags | -D_LITTLE_ENDIAN -D_ARMv7 -DDEVICE_K2 -DDEVICE_K2H -D_GNU_SOURCE -D_VIRTUAL_ADDR_SUPPORT |
| DSP Compilation Flags | define=DEVICE_K2define=DEVICE_K2H |
| PA Library on DSP | <pre>var Pa = xdc.useModule('ti.drv.pa.Settings'); Pa.deviceType = "k2h"</pre> |
| PA Library on ARM | -lpa |
| SOC Sample configuration file | ti/apps/soc_init/soc_k2h.conf |
| NETFP Master configuration file | ti/apps/netfp_master/netfp.conf |
| Library & Executable Suffix | _k2h |

4.2 K2K

| Kernel DTS Files | ti/runtime/resmgr/dts/k2h |
|---------------------------------|---|
| RMv2 DTS Files | ti/runtime/resmgr/dts/k2h |
| DSP Memory Map | ti/runtime/platforms/tmdxevm66381xe |
| ARM Compilation Flags | -D_LITTLE_ENDIAN -D_ARMv7 -DDEVICE_K2 -DDEVICE_K2K -D_GNU_SOURCE -D_VIRTUAL_ADDR_SUPPORT |
| DSP Compilation Flags | define=DEVICE_K2define=DEVICE_K2K |
| PA Library on DSP | <pre>var Pa = xdc.useModule('ti.drv.pa.Settings'); Pa.deviceType = "k2k"</pre> |
| PA Library on ARM | -lpa |
| SOC Sample configuration file | ti/apps/soc_init/soc_k2k.conf |
| NETFP Master configuration file | ti/apps/netfp_master/netfp.conf |
| Library & Executable Suffix | _k2k |



4.3 K2L

| Kernel DTS Files | ti/runtime/resmgr/dts/k21 |
|---------------------------------|---|
| RMv2 DTS Files | ti/runtime/resmgr/dts/k2l |
| DSP Memory Map | ti/runtime/platforms/k2l |
| ARM Compilation Flags | -D_LITTLE_ENDIAN -D_ARMv7 -DDEVICE_K2 -DDEVICE_K2L -D_GNU_SOURCE -D_VIRTUAL_ADDR_SUPPORT |
| DSP Compilation Flags | define=DEVICE_K2define=DEVICE_K2L |
| PA Library on DSP | <pre>var Pa = xdc.useModule('ti.drv.pa.Settings'); Pa.deviceType = "k21"</pre> |
| PA Library on ARM | -1pa2 |
| SOC Sample configuration file | ti/apps/soc_init/soc_k2l.conf |
| NETFP Master configuration file | ti/apps/netfp_master/netfp_k2l.conf |
| Library & Executable Suffix | _k21 |

NOTE: The PA library on K2L is different. Including the wrong library will result in run time failures.

