
NWAL

Release Notes

Applies to Product Release: 02.00.00.14
Publication Date: Nov 15 2013

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NWAL version 02.00.00.14

Overview

This document provides the release information for the latest Network Adaptation Layer (NWAL) Driver which could be used by applications interfacing with NetCP module in Keystone devices.

NWAL module release includes:

- Compiled library (Big and Little) Endian with and with out Security Accelerator (SA) LLD support.
- Source code.
- API reference guide

Dependent Components

- PDK components released in MCSDK package
- Code Generation Tool Chain 7.4.2 or higher for C66x
- SA LLD 2.0.1 for KeyStone-2
- SA LLD 1.0.5 for KeyStone-1
- Linaro: GCC 4.7 tool chain version 2013.03

LLD Dependencies

LLD is dependent on following external components delivered in MCSDK package:

- PDK
- SA LLLD

New/Updated Features and Quality

Release 2.0.0.14

- Support for Interface based and priority based routing. This allows setting of routes based on Ethernet port, DSCP/TOS and VLAN priority bits.
- Support to allow configuration of MAC and IP level routes based on source and/or destination addresses.

Release 2.0.0.13

- Updates to ARM makefiles to enable delivery of NWAL shared object libraries.
- NWAL integration with latest version of HPLIB (ARM only)
- NWAL package modifications to support KeyStone-1 devices

Release 2.0.0.12

- NWAL integration with HPLIB (ARM only)
- Added new API to retrieve local channel context information (nwal_getChanCtxInfo)
- NWAL changes to support multi-process PA/SA sub-systems
- Updates to ARM makefiles to enable optimization

Release 2.0.0.11

- Updated to build process for yocto build environment
- Updates to nwalTest application for multi-thread/multi-core ARM use case.

Release 2.0.0.10

- Updated the nwall-lld build infrastructure to align for yocto
- Updates for nwal unit test application for multi-thread/core.

Release 2.0.0.9

- Verified on K2H platform. First release of NWAL in MCSDK release

Resolved Incident Reports (IR)

Table 1 provides information on IR resolutions incorporated into this release.

Table 1 Resolved IRs for this Release

IR Parent/ Child Number	Severity Level	IR Description
SDOC00104327	S2-MAJOR	netapi/nwal need to expose pa v2 apis to application
SDOC00103852	S3-MINOR	nwalUnitTestK2HTestProject fails when run using the simulator for LE and BE

Known Issues/Limitations

IR Parent/ Child Number	Severity Level	IR Description

Licensing

Please refer to the software Manifest document for the details.

Delivery Package

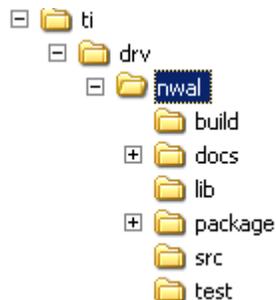
Package is delivered as tar ball.

Installation Instructions

Extract the tarball package to a destination directory

Directory structure

Following is the directory structure after NWAL package has been installed:



The following table explains each individual directory:

Directory Name	Description
ti/drv/nwal	The top level directory contains the following:- <ol style="list-style-type: none"> <u>Environment configuration batch file</u> The file “setupenv.bat” is used to configure the build environment for NWAL driver. <u>makefile</u> Top level makefile to support rebuilding NWAL library <u>XDC Packaging meta files</u> Files to retrieve NWAL library from a RTSC based application <u>Exported Driver header file</u> Header files which are provided by NWAL driver and should be used by the application developers for driver customization and usage.
ti/drv/nwal/build	The directory contains internal XDC build related files which was used to create NWAL driver package.
ti/drv/nwal/docs	The directory contains the NWAL API doxygen documentation.
ti/drv/nwal/lib	Pre-built Big and Little Endian libraries for the driver along with their <u>code/data size information</u> .
ti/drv/nwal/package	Internal driver package files.
ti/drv/nwal/src	Source code for the driver.

Customer Documentation List

Table 2 lists the documents that are accessible through the /docs folder on the product installation CD or in the delivery package.

Table 2 Product Documentation included with this Release

Document #	Document Title	File Name
1	API documentation (generated by Doxygen)	docs/ nwal_docs.chm
2	NWAL Module User Guide	docs/UserGuide_NWAL.pdf
3	Software Manifest	docs/NWAL_SoftwareManifest.pdf
4	Release Note	docs/ ReleaseNotes_NWAL.pdf