# **Update Guide**

Version 1.0.0

## **Display Audio**

Solution Team



#### Release information

The following changes have been make to this document.

**Change History** 

Date	Change
07 Dec 2017	First release for v1.0.0

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# Chap 1. Information

### 1.1 Overview

This document describes how to update firmware image.

• Tool's name : nx\_update

• Sub tools: nx\_reboot, psplash, psplash-write, blkid, sfdisk

• Operation script : update.sh, mount.sh

• Operational Prerequisites: systemd service (nxupdate.service)

• Supported devices : USB storage, SDcard



## Chap 2. **NX update**

### 2.1 Make disk for updates

Files needed for the update as below.

- partmap\_update.txt
- update\_cmd.txt
- Target images
- boot.img (option)
- rootfs.img (option)

Description of the partmap\_update.txt (It is necessary to write)

flash=mmc,0:boot:ext4:0x400000,0x2000000:boot.img;

flash=mmc,0:modules:ext4:0x2400000,0x2000000:;

flash=mmc,0:rootfs:ext4:0x4400000,0:rootfs.img;

If you do not want to update boot.img or rootfs.img, leave the name field blank.

Description of the update cmd.txt (It is necessary to write)

fdisk

erase boot

flash boot

erase rootfs

flash rootfs

If you do not want to update boot.img or rootfs.img, remove erase (boot or rootfs) and flash (boot or rootfs) commands.

## 2.2 How to update

#### 2.2.1 Step 1

Make disk (USB storage or SDcard) for updates



#### 2.2.2 Step 2

Insert disk (USB storage or SDcard)

#### 2.2.3 Step 3

run nx\_reboot command

### 2.3 Update disk priority

USB storage > Sdcard

#### 2.4 How to disable the update feature

From the Yocto top directory.

\$ vi yocto/meta-nexell/recipes-core/images/nexell-ramdisk.bb

Remove nexell-nxupdate and rebuild.

LICENSE = "MIT"

LIC FILES CHKSUM

"file://\${COREBASE}/meta/COPYING.MIT;md5=3da9cfbcb788c80a0384361b4de20420"

IMAGE FEATURES = ""

IMAGE\_ROOTFS\_SIZE = "16384"

IMAGE\_ROOTFS\_EXTRA\_SPACE = "0"

export IMAGE\_BASENAME = "core-image-minimal-initramfs"

IMAGE LINGUAS = ""

# NOTE we must use cpio.gz here as this is what mkbootimg requires

IMAGE FSTYPES forcevariable = "cpio.gz"

# We don't need depmod data here

KERNELDEPMODDEPEND = ""

USE\_DEPMOD = "0"

PACKAGE\_INSTALL += "systemd busybox nexell-nxupdate android-tools e2fsprogs bash psplash-nexell"

inherit core-image



## 2.5 How to change the psplash logo

From the YOCTO top directory.

vi yocto/meta-nexell/recipes-core/images/psplash/psplash\_git.bbappend

Copy the PNG file you want to change to the following location.

yocto/meta-nexell/recipes-core/images/psplash/files/

And change it to the name of the PNG file copied as follows.

SPLASH\_IMAGES += "file://psplash-nexell-img.png;outsuffix=nexell"

