



FreeScale i.MX 6Quad SABRE-SD Board
Android 6.0.1 WL18xx GNSS Porting Guide

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This document provides information on integrating GNSS WiLink8 driver on Android 6.0.1 release for i.MX6 SABRE-SD platform + Jorjin WG7871 module.

The GNSS software release has been developed and verified on the following software and hardware environment:

- OS Kernel: Linux 3.14.52
- Android: 6.0.1
- Toolchain: arm-eabi-4.6
- Reference hardware platforms: i.MX6 SABRE-SD board
- Build Host OS: Ubuntu 64 bit 14.04

1. Integration of GNSS driver

1.1. Setting up SW package path & build environment

```
# export GNSS_SRC_PATH=<Complete path to the unzipped release package up to  
GNSS_SW_Release_NL8.5.0.28> (no / at the end)
```

```
# export MYDROID=<Your Android BSP top directory>
```

1.2. Integrating GNSS host software to Android

```
# mkdir $MYDROID/external/location/  
# cp -rvf $GNSS_SRC_PATH/tilcs $MYDROID/external/location/  
# sudo chmod 777 -R $MYDROID/external/location/tilcs
```

1.3. Changes to init.rc to register GNSS services

Edit \$MYDROID/device/fsl/sabresd_6dq/init.rc and make the following changes.

See: `sabresd_6dq_add_wl8_platform_support.patch`

1.4. Change some build variable to build out correct binaries

See: `gnss_sw.patch`"

2. Build Instructions

```
# cd ${MYDROID}
# source build/envsetup.sh
# lunch sabresd_6dq-user
# cd ${MYDROID}/external/location/tilcs
# mm -B
```

Then rebuild Android.

3. Function Test

Please use TI's GNSS app to test.