SDK Add-on for ConnectCore 6

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The Android SDK provides the API libraries and developer tools necessary to build, test and debug apps for Android.

The SDK Add-on for ConnectCore 6 provides Javadocs, code examples, and the Dig APIX libraries necessary to build, test and debug apps for ConnectCore 6.

Follow the instructions below to build and install the SDK Add-on for ConnectCore 6:

Build the SDK Add-on for ConnectCore 6

Follow these steps to build the Android SDK Add-on for ConnectCore 6 based on Digi's source code:

1. Set up your environment and install the sources. If you have not already done so, see System development > Build the Android firmware > Set up your development computer in the *Digi Embedded for Android* documentation.
2. Change to the directory where the source code is installed.

   ```
   $ cd dea-<version>
   ```

3. Initialize the build environment:

   ```
   $ source build/envsetup.sh
   ```

4. Select the Digi SDK addon target to build: `digi_sdk_addon-eng`.

   You will see information about the selected target:

   ```
   $ lunch digi_sdk_addon-eng
   ============================================
   PLATFORM_VERSION_CODENAME=REL
   PLATFORM_VERSION=5.1.1
   TARGET_PRODUCT=digi_sdk_addon
   TARGET_BUILD_VARIANT=eng
   TARGET_BUILD_TYPE=release
   TARGET_BUILD_APPS=
   TARGET_ARCH=arm
   TARGET_ARCH_VARIANT=armv7-a
   TARGET_CPU_VARIANT=generic
   TARGET_2ND_ARCH=
   TARGET_2ND_ARCH_VARIANT=
   TARGET_2ND_CPU_VARIANT=
   HOST_ARCH=x86_64
   HOST_OS=linux
   HOST_OS_EXTRA=Linux-3.16.0-55-generic-x86_64-with-Ubuntu-14.04-trus
   ty
   HOST_BUILD_TYPE=release
   BUILD_ID=LMY47V
   OUT_DIR=out
   ============================================

   $
   ```

5. Use `make` with target `sdk_addon` to build the SDK Add-on.

   ```
   $ make -j<Number_Of_Jobs> sdk_addon
   ```

   The command `make` can handle parallel tasks with a `-jN` argument, and it's common to use a number of tasks `N` that's between 1 and 2 times the number of hardware threads on the

computer used for the build.

Building the SDK Add-on can take several hours, depending mainly on the number of CPUs of the development machine and the parallelization level used in the `make` command.

6. Once the build process finishes, check that the resulting artifacts are inside the `dea-<version>` sources directory at `out/host/linux-x86/sdk_addon`:
   - `addon.xml`
   - `digi_sdk_addon-eng.<user>-linux-x86.zip`

   List them with the following command:

```
$ ls -lh out/host/linux-x86/sdk_addon/
total 185M
-rw-rw-r-- 1 <user> <user> 5,1K ago 18 19:44 addon.xml
-rw-rw-r-- 1 <user> <user> 184M ago 18 19:45
digi_sdk_addon-eng.<user>-linux-x86-img.zip
-rw-rw-r-- 1 <user> <user> 421K ago 18 19:44
digi_sdk_addon-eng.<user>-linux-x86.zip
```

Install the SDK Add-on for ConnectCore 6

To install the SDK Add-on for ConnectCore 6 using Android SDK Manager, follow the steps described at Get started > 4.1. Install the software > 4. SDK Add-on for ConnectCore 6 in the *Digi Embedded for Android* documentation, but entering the path where the `addon.xml` and the `digi_sdk_addon-eng.<user>-linux-x86.zip` are located, `file:///<sources_directory>/dea-<version>/out/host/linux-x86/sdk_addon`.