

00319707

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Prerequisites about the folders' path in the Eclipse IDE

Eclipse IDE default installation path:

Eclipse IDE **5.0** version toolchain path:

```
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzonec
.plugin.le910cx_25_21_XX0_0.3.0.28\lib\gcc-linaro-arm-linux-gnueabi
```

and an unused copy on:

```
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzonec
.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-gnueabi
```

Remove/rename the current Windows toolchain

Rename the current windows toolchain used from the Eclipse IDE.

In a command dos shell:

For the IDE 5.0

```
cd
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzonec
.plugin.le910cx_25_21_XX0_0.3.0.28\lib\gcc-linaro-arm-linux-gnueabi
```

```
ren sysroot sysroot_orig
```

```
cd
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzonec
.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-gnueabi
```

```
ren sysroot sysroot_orig
```

Copy the new toolchain

The shared folder **LE910_25.21.002_M_AZSDK** contains the Windows toolchain (**sysroot.zip**).

Copy and extract this sysroot folder into your selected directory that will contain the new Windows toolchain, for example:

```
cd C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse
md LE910Cx
```

```
cd LE910Cx
md 25.21.002
cd 25.21.002
```

copy the **sysroot** directory into this **25.21.002** folder

Eclipse LE910-Cx projects configuration

At this point that we have the new windows toolchain, we need to inform the Eclipse IDE to use the new sysroot folder in a project for the LE910Cx product.

In the main folder of the project, modify the **Makefile**
comment the row

```
SYSLIB=$(TOOLCHAIN_PATH)/gcc-linaro-arm-linux-gnueabi/sysroot
```

and add

```
SYSLIB=$(eclipse_home)/LE910Cx/25.21.002/sysroot
```

as below

```
ifeq ($(SYSLIB),)
#SYSLIB=$(TOOLCHAIN_PATH)/gcc-linaro-arm-linux-gnueabi/sysroot
SYSLIB=$(eclipse_home)/LE910Cx/25.21.002/sysroot
endif
```

Eclipse Build output console

```
16:29:18 **** Incremental Build of configuration Config for project
TestPlugin ****
"C:\ProgramData\Telit\IoT_AppZone_IDE_5x\mingw_msys\msys\1.0\bin\make" -j all
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzone
c.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-
gnueabi/bin/arm-linux-gnueabi-gcc --
sysroot=C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse/LE910Cx/25.21.002/
sysroot -std=gnu99 -I hdr -I
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse/LE910Cx/25.21.002/sysroot/
usr/include/m2mb -DLE910CXL -DVERSION="1.1.15" -DAZX_LOG_ENABLE -
DLOG_CHANNEL=AZX_LOG_TO_USB0 -DAZX_LOG_LEVEL=AZX_LOG_LEVEL_DEBUG -
DAZX_LOG_ENABLE_COLOURS=0 -Wall -Werror -Wextra -Wunreachable-code -Wno-
missing-field-initializers -Wno-format -I azx/hdr -fexpensive-
optimizations -frename-registers -fomit-frame-pointer -ftree-vectorize -
Wno-error=maybe-uninitialized -finline-functions -finline-limit=64 -
fstack-protector-strong -pie -fpie -Wa,--noexecstack -Wall -Wundef -
Wstrict-prototypes -g -O0 -c src/M2MB_main.c -o obj/src/M2MB_main.c.o
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzone
c.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-
gnueabi/bin/arm-linux-gnueabi-gcc --
sysroot=C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse/LE910Cx/25.21.002/
```

```

sysroot -std=gnu99 -I hdr -I
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/sysroot/
usr/include/m2mb -DLE910CXL -DVERSION=\"1.1.15\" -DAZX_LOG_ENABLE -
DLOG_CHANNEL=AZX_LOG_TO_USB0 -DAZX_LOG_LEVEL=AZX_LOG_LEVEL_DEBUG -
DAZX_LOG_ENABLE_COLOURS=0 -Wall -Werror -Wextra -Wunreachable-code -Wno-
missing-field-initializers -Wno-format -I azx/hdr -fexpensive-
optimizations -frename-registers -fomit-frame-pointer -ftree-vectorize -
Wno-error=maybe-uninitialized -finline-functions -finline-limit=64 -
fstack-protector-strong -pie -fpie -Wa,--noexecstack -Wall -Wundef -
Wstrict-prototypes -g -O0 -c azx/src/azx_log.c -o obj/azx/src/azx_log.c.o
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzone
c.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-
gnueabi/bin/arm-linux-gnueabi-gcc --
sysroot=C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/
sysroot -std=gnu99 -I hdr -I
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/sysroot/
usr/include/m2mb -DLE910CXL -DVERSION=\"1.1.15\" -DAZX_LOG_ENABLE -
DLOG_CHANNEL=AZX_LOG_TO_USB0 -DAZX_LOG_LEVEL=AZX_LOG_LEVEL_DEBUG -
DAZX_LOG_ENABLE_COLOURS=0 -Wall -Werror -Wextra -Wunreachable-code -Wno-
missing-field-initializers -Wno-format -I azx/hdr -fexpensive-
optimizations -frename-registers -fomit-frame-pointer -ftree-vectorize -
Wno-error=maybe-uninitialized -finline-functions -finline-limit=64 -
fstack-protector-strong -pie -fpie -Wa,--noexecstack -Wall -Wundef -
Wstrict-prototypes -g -O0 -c azx/src/azx_utils.c -o
obj/azx/src/azx_utils.c.o
=====
LINK objects and libraries
=====
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\plugins\com.telit.appzone
c.toolchain.plugin.gccARMv7_493_4.9.3\gcc-linaro-arm-linux-
gnueabi/bin/arm-linux-gnueabi-g++ --
sysroot=C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/
sysroot -o m2mapz.bin --
sysroot=C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/
sysroot obj/src/M2MB_main.c.o obj/azx/src/azx_log.c.o
obj/azx/src/azx_utils.c.o -L
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/sysroot/
lib -L
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/sysroot/
usr/lib -lazc20 -ltm2mbcom -lgm2mbpub -ltm2mbpub -lc -lm

16:29:31 Build Finished. 0 errors, 0 warnings. (took 12s.591ms)

```

we can see the selected toolchai folder:

```
C:\ProgramData\Telit\IoT_AppZone_IDE_5x\eclipse\LE910Cx/25.21.002/sysroot
```