

english
private

Warning: This page under construction - no guarantee what soever that content is correct, fit for use.
Use at your own peril

UHSDR development - Import UHSDR into eclipse

Preconditions, Assumptions, Scope

- ...
- <https://www.amateurfunk-sulingen.de/forum/index.php?board=15;action=display;threadid=313;start=0>
- <https://www.amateurfunk-sulingen.de/forum/index.php?board=15;action=display;threadid=263>

Pull UHSDR source from Github, import into eclipse

- Goto <https://github.com/df8oe/UHSDR> and click button „clone or download“
- Unpack the downloaded .zip file on your hard disk. Do not change the name, do not change the internal zip structure
- In Eclipse, choose „File→Import“.
- .. then choose „General→Existing Projects into Workspace“.
- Then choose the folder „mchf-eclipse in the path where you just downloaded the zip file as „root-directory“
- The project is now recognized and can be imported

Build UHSDR using eclipse

- Project → Build Configurations → Set Active → DebugLibOVI40 (OVI49 DSP Library (STM32F7))
- Click on the „hammer“ in the tool bar
- Watch Console window in Eclipse - if all ok console output ends with “ ... Build finished ...,”
- Project → Build Configurations → Set Active → DebugOVI40 (OVI40 Firmware (STM32F7) ...)
- Click on the „hammer“ in the tool bar
- Watch Console window in Eclipse - if all ok console output ends with “ ... Build finished ...,”

Newly built binary fw-ovi40.bin can be found in the eclipse project explorer (left sidebar): mchf-eclipse → DebugOVI40 → fw-ovi40.bin

Download new firmwar .bin to OVI40 UI

- Please refer to
https://www.amateurfunk-sulingen.de/wiki/doku.php?id=en:uhsdr:uhsdrfw#st-link_v2_firmware_upgrade

- UHSDR FW build should run.
- Hit switch „Menu“, then select „System Info“ and „Build“. Check the build date and time corresponds to your compile time in eclipse approximately

Generate .dfu file from .bin file

The ST-Micro UM0412 manual on DfuSe can be found

here

. Original source is [this](#).

Section 4.2.1 of UM0412 describes step-by-step the generation of a .dfu file.

From:

<https://www.amateurfunk-sulingen.de/wiki/> - Afu - Wiki des DARC OV Sulingen I40

Permanent link:

https://www.amateurfunk-sulingen.de/wiki/doku.php?id=en:uhsdr_dev:uhsdrbuild&rev=1517904197

Last update: **06.02.2018 08:03**

