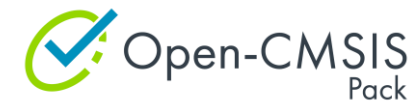


# Open-CMSIS-Pack

Technical Project Meeting 2022-01-11

HAPPY NEW YEAR 2022!

This meeting is recorded !



# Agenda

- Welcome and Happy New Year!
- Activities from past weeks
- CMSIS Project Manager Updates
- Wrap Up

## Activities from past weeks

- Repository renamed:
  - [github.com/Open-CMSIS-Pack/Open-CMSIS-Pack-Spec/](https://github.com/Open-CMSIS-Pack/Open-CMSIS-Pack-Spec/)
  - Online documentation: (not automatically redirecting!)
    - [Open-cmsis-pack.github.io/Open-CMSIS-Pack-Spec/](https://open-cmsis-pack.github.io/Open-CMSIS-Pack-Spec/)
- Proposing system description terminology (Issue [#33](#))
  - No new votes on [PR #63](#) – further discussion in above issue
- Discuss selection of Template engine ... [#32](#)
  - Handlebars port (Fred)  
<https://github.com/fred-r/CMSIS-Zone/tree/main/Examples/STM32L5>
- Digital Signing: (Fred, Charles)
  - Latest: <https://github.com/fred-r/R-CUBE-SBSFU/tree/master/packs/sign>
- Experimenting with use cases: (Fred)
  - <https://github.com/fred-r/R-CUBE-SBSFU/> (restricted)

# CMSIS Project Manager - Specification

<https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md>

Currently consolidated into one document

What's new:

- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#project-structure>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#name-conventions>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#access-sequences>

Proposals: <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#proposals>

- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#plm-of-configuration-file>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#cmsis-zone-integration>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#layer-interface-defintions>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#cmsis-pack-extensions>
- <https://github.com/brondani/devtools/blob/mvp-prototype/tools/projmgr/docs/Manual/Overview.md#layers-in-packs>

# CMSIS Project Manager

## Features implemented according to Design Overview:

- build-types and target-types at csolution level
- for-type/not-for-type handling
- layers handling
- defines/undefines/add-paths/del-paths at solution/project/target level
- compiler misc
- component identifier syntax
- processor 'name' handled as part of the device name (Dvendor::Dname:Pname)
- processor endian: [big|little]

## Features added (not present in Design Overview):

- project output-type: [lib|exe] (default exe)
- temporary 'depends' keyword under a 'solution' item (dependencies description TBD)

## Features to be implemented/extended:

- Dependencies description
- 'default' keyword and csettings.yml file
- 'build-types' and 'target-types' at cproject/clayer level
- device discovering from 'board'
- 'optimize', 'debug', 'warnings' (changes in build manager will be needed)
- 'defines' 'add-paths' at group/files levels (changes in build manager will be needed)
- Pre/post build steps
- Access sequences
- User interface for project/solution creation (partially implemented with list packs, devices, components, dependencies commands)
- Programmatic interface (partially implemented with List\_\* functions and SWIG libraries)
- Possibility to load only subset of package requirements
- Local repository handling
- Generators support
- Schema checker/validator
- Resources handling



Thank you

