

# Open-CMSIS-Pack

Technical Project Meeting 2022-02-08

This meeting is recorded !



# Agenda

- Welcome
- Updates
- Prioritized ToDo
- Generator Support/Extensions
- Wrap Up

# Updates

- ‘cpackget’ development – no new release version yet
  - Command added `cpackget pack list`
  - Verbose is default, debugging `-v`, quiet `-q`
  - Aborting pack download/installation using `ctrl + c`
  - Usage explained in more detail in [README.md](#)

Note: Charles will be back online on March 2nd 2022
- CMSIS-Build - support IAR C/C++ Compiler for ARM
  - Contribution from Tarek: [PR116](#)
- ‘packchk’ feedback received – Arm is reviewing right now
- ‘packgen’ CMSIS-Pack Generator [0.9.1](#) available from github releases
- ‘csolution’ added [access sequence](#) handling



# CMSIS Project Manager – prioritized ToDo list

1. Review of CMSIS-Toolbox by partners with feedback on potential issues (ongoing)
  - Discuss - Get rid of project name usage as much as possible [issue #81](#)
2. PLM of config files (proposal is included in specification)
  - Specify a preferred 3-way merge utility? E.g. <https://git-scm.com/docs/git-merge-file> (issues #104)
3. Multiple Component Instances ([issues #76](#))
4. RTE directory structure finalize (proposal is included in specification) ([issues #77](#))
5. Local copy of packs (ST requirement) – duplicate of #6?
6. Handling of packs (CMSIS-Pack-Root, Repositories, Local packs, etc.) ([issues #85](#))
  - Finalize definition cdefault.yml
7. CMSIS-Zone integration (resource management)
  - support templating languages and use it with generators ([issue #78](#))
8. Execution Groups (or perhaps better execution phases)
9. Generator support / extensions
10. Layer interface definitions
11. Board conditions
12. Layers distributed in packs
13. Vendor specific additions (ST requirement) [devtools #83](#)
14. Multiple devices defined by a board

## 9. Generator Support/Extensions

- A component associated with a <generator> requires to run the generator tool to resolve the dependencies (gpdsc file)
- Problem: ‘csolution’ fails when selecting a “generator component”.
- Requirements:
  - run in component selection and configuration phase
  - automatically trigger when component selection committed
  - re-run upon ‘change’
  - generator runs in all development flows (cli, IDE, cloud) on ‘all’ hosts

## 9. Generator Support/Extensions (cont'd)

- Open actions:
  - Specify information/format to pass to generators
  - How do we handle dependencies
    - any update to component selection triggers generator re-run
    - unresolved component dependencies take precedence  
=> cycle through generators until no further gpdsc updates
  - Distribution of 'tools' / registration of service
    - pre-requisites and dependencies
    - security concerns

# Wrap Up

- Action all:
  - Provide review feedback
  - Suggest topics for next week's agenda
- Review of currently open issues in repository:
  - [Issues](#): Still relevant? Open Actions? Next Steps? Refinements?
- Next Open-CMSIS-Pack meeting: 15th Feb. 2022 @ 16:00 CET (15:00 UK)



Thank you

