

# Lockfile

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<https://github.com/Open-CMSIS-Pack/devtools/issues/119>

<https://github.com/Open-CMSIS-Pack/devtools/issues/371>

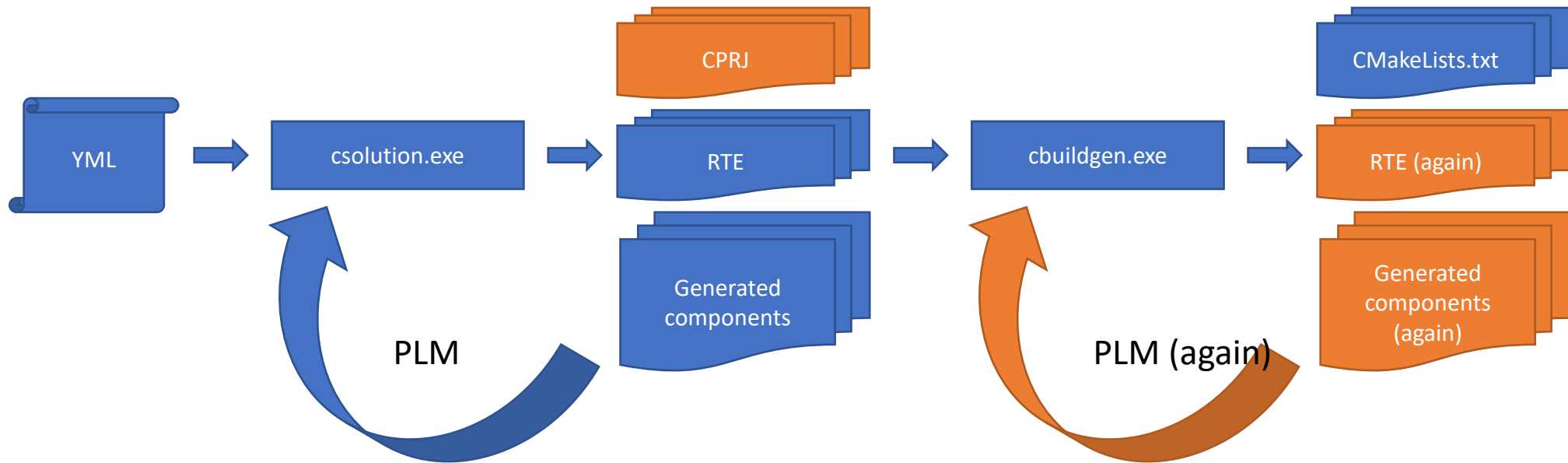
# Why

- Allow loose but still **reproducible/stable/shareable** projects
- Provide **visibility** of changes (e.g. git diff)
- Simple total **upgrade** flow (remove Lockfile and recreate)
- Simplifies **file management** in opencmsis tooling (RTE, Generated components)

# Minimum requirements of Lockfile

- **ComponentID** for each component used. **Exactly identified**  
(component attributes + condition + pack id [+ relative pack path for local packs])
  - With **back-reference** to make link with user-input in YML
- **File set** for each component used
  - **path\_in\_project** The resulting location in the project, relative to project dir (e.g. for RTE)
  - **path\_in\_pack** The origin of the file relative to the pack location

# Today



# With Lockfile

