

User Manual

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Welcome to the sonar-icode-cnes-plugin wiki! build passing quality gate not found

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About

Sonar-icode-cnes-plugin is a SonarQube plugin integrating i-Code CNES results into SonarQube dashboard. i-Code CNES is a free open source code checker for Fortran and Shell, available here : <https://github.com/lequal/i-CodeCNES>

Build

Required : git, Java 8 and maven 3.5.0 (or latest)

- Clone github repository : `git clone https://github.com/lequal/sonar-icode-cnes-plugin.git`
- Build using maven from the project directory : `mvn clean install`
- The generated plugin can be found into the target directory (`<sonar-icode-cnes-plugin_dir>/target`)

Install

- Copy the generated jar into `<SonarQube_installation_directory>/extensions/plugins`.
- Restart SonarQube : `sonar restart` or `service sonar restart`
- Check SonarQube logs : `tail -f <SonarQube_installation_directory>/logs/web.log`

Configure

- Open SonarQube web interfaces `http://<SonarQube_installation_host_ip>:9000` or `http://localhost:9000` if your are on the host machine
- Select "Icode Quality Profile" and add selected i-Code CNES rules to the Profile.

Run

Prepare i-Code CNES project

For all project source files, run: `icode <source_file> > ./<report_dir>/source_file.res.out`

Where:

- The source file `<source_file.c>` shall have for extension `.f`, `.f77`, `.f90` or `.sh`
- The sub-directory `<report_dir>` is used to store ICode CNES stdout stream

- The ICode CNES standard output stream shall be stored into a report file with the same name as the source file and a specific extension
name `res.out`

Configure sonar-scanner

In your project directory, create sonar-project.properties file, containing the following items :

```
sonar.projectKey=<your project key>
sonar.projectName=<your project name>
sonar.projectVersion= <your project version>
# Comma-separated paths to directories with sources (required)
sonar.sources=.
# Tells SonarQube where the i-Code CNES analysis reports are
sonar.icode.reportsPath=<report_dir>
# Encoding of the source files
sonar.sourceEncoding=UTF-8
```

Run sonar-scanner

Once you got i-Code CNES results and sonar-project.properties configured, you can launch sonar scanner from you project directory : `sonar-scanner`

i-Code CNES plugin rules definition

sonar-icode-cnes-plugin integrates all i-Code CNES Rules. For more information on rules definition, please look directly on i-Code CNES github page : <https://github.com/lequal/i-CodeCNES>

Contribute

You can contribute to sonar-icode-cnes-plugin :

- following the defined [CODE_OF_CONDUCT](#)
- using the [PULL_REQUEST_TEMPLATE](#)
- using the [ISSUE_TEMPLATE](#)

Support

Contact : L-lequal@cnes.fr

Bugs and Feature requests : <https://github.com/lequal/sonar-icode-cnes-plugin/issues>

Licensing

sonar-frama-c-plugin is under [GNU GPL v3](#).

Documentation

Documentation

User manual

[manual.pdf](#)

The User Manuel is generated from this wiki by [Wikito Converter](#) [GitHub](#)

Plugin Overwiev

[presentation.pdf](#)

Architecture

Overview of Sonar Plug-in ICode CNES architecture

Packages

fr.cnes.sonarqube.plugins.icode

Defined all plug-in elements. These elements extends Sonar and add to it:

- languages: Specific Plug-in language
- measures: Metrics and computed measures definitions
- report: Parse a ICode CNES output report
- rules: ICode CNES rules definition
- sensor: Sensor executed by sonar-scanner into ICode CNES projects
- settings: Plug-in preferences

fr.cnes.sonarqube.plugins.icode.languages

Define a new specific language used to:

- Aggregate ICode CNES Metrics and Rules
- Allow Sonar administrator to edit the plug-in preferences Define a default Quality Profile.

fr.cnes.sonarqube.plugins.icode.measures

Define Metrics and computed measures.

fr.cnes.sonarqube.plugins.icode.report

ICode CNES output report parser and ICode CNES sensor interfaces.

fr.cnes.sonarqube.plugins.icode.rules

Define all ICode CNES rules.

fr.cnes.sonarqube.plugins.icode.sensor

Define how to read ICode CNES output report and produce measures and issues.

fr.cnes.sonarqube.plugins.icode.settings

Define plugin preferences.