1. **Coding-Conventions:**

|  |  |
| --- | --- |
| **Naming Conventions** | |
| projectname | edu.nd.dronology.\* |
| packagename | rootpackage = plug-in name |
| classname | Upper CamelCase |
| methods,parameters, fields… | Lower CamelCase |
| constants | Upper Case |

|  |  |
| --- | --- |
| **Package Naming** | |
| internal | \*.internal |
| API | \*.api |
|  |  |

1. **Coding Standards:**

**Classes:**

* Interfaces start with an I – IFileReader, IDrone,
* All fields are private by default, protected if necessary, never public
* Getter/setter for all non final fields
* Fields used for calculating the hashcode must be **immutable**.
* Api methods always have interfaces as return types, never implementations (e.g., List<> or Collection<> vs. ArrayList<>)
* avoid the Java clone() concept. Even it's author mentioned, that it is broken.
* Getters returning collections **always** return an immutable version of the collection!

1. **Code Formatting:**

via eclipse template

1. **Compiler Settings:**

via eclipse template

1. **Architecture:**

|  |  |  |
| --- | --- | --- |
| **Deployment** | | |
| **Component** | **Type** | **Plug-in / Java Package** |
| UI | Eclipse | edu.nd.dronology.ui.\* |
| Vehicle Control | Java | edu.nd.dronology.core(.\*) |
| … |  |  |
|  |  |  |

1. **Git-Commits:**

Jira Issues worked on, comma separated (e.g., UAV-123, UAV-345)

Capitalized, short (50 chars or less) summary

Optional: More detailed explanatory text, (the first line is treated as the subject of an email and the rest of the text as the body). The blank line separating the summary from the body is critical

Write your commit message in the imperative: "Fix bug" and not "Fixed bug"

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, followed by a

single space, with blank lines in between

1. **Unit-Tests:**

?

1. **Java-Doc:**

add for all api classes/methods

1. **Build-Server:**

* continuous build + unit tests
* lib build
* ui build