# ICD/ICM Open source management – Manual process

## Pre-requisite

* Product backlog access (only to contributors? or to all within enterprise?)
* Requirement documents – who should detail out?
* SVN repository management
* Development environment
* Create a separate branch of module/component/library
* Developer guide to setup project/ work environment
* Issue tracking system (assuming we will continue to use Redmine)

## Development Process

* Contributor should
  + Discuss high level approach Toolkit Architects about enhancement or a defect being taken up
  + Understand coding standards and templates before start any development.
  + Coding and develop JUnit test cases for changed/newly developed components
  + Run FindBugs code review tool on changed code
  + Fix code review issues found if any. If any issues reported by FindBugs in existing components.
  + Perform unit testing using JUnit test cases
  + Commit the code into branch and unit test results
  + Rework in case, issues found during mock release.
* Toolkit Code review Team performs code review of committed code
* CIC to merge code into main repository.
* Mock release
  + Contributor to perform integrated testing of changed components with the help of Toolkit Enhancement team (if required).
* Final release
  + CIC to make final release