

# Jenkins Job Builder - Improve Jenkins Plugins Support

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## Overview

Jenkins Job Builder (JJB) is a YAML to XML parser that takes YAML job configurations from user input and convert them to XML. It will then push them to Jenkins to configure Jenkins jobs.

## Problem Statement

OpenDayLight uses Jenkins Job Builder (JJB) to configure and manage Jenkins jobs. Plugins used by OpenDayLight for Jenkins jobs are not all up-to-date or supported. The purpose of the project proposed is to add and improve plugin support used by OpenDayLight for JJB.

## Objectives

What has to be done as a part of the project are:

- improve support for Jenkins plugins used by OpenDayLight
- improve JJB with new features needed by OpenDayLight and upstream community
- code review for JJB
  - Review [JJB 2.0.0 API work](#).
- actively participate with the community in IRC and mailing lists
- Interact with the community for ideas and opinions on new features

## Technical Details

To improve support for Jenkins plugins, I will look for plugins that are currently being used by OpenDayLight and update them. The plugins will be documented about their intended purpose and what each parameter does provided by the plugin. By actively participating with the OpenDayLight and its associated communities, I can improve JJB with new features. I will be involved in code review for JJB to not only help the reviewee's code, but to help build upon my understandings from code reviewers feedback.

## Expected Problems

I have basic Python programming knowledge and limited Git, GitHub, and Gerrit usage. I expect that I will need to watch tutorials and documentations on how to use Git, GitHub and Gerrit more proficiently.

## Schedule

### Week -3 (May 2 - 6)

- evaluate plugins used by OpenDayLight
- familiarize myself with python
- familiarize myself with Git, Github, Gerrit

### Week -2 (May 9 - 13)

- work on 3 plugins
- respond to Code reviews

### Week -1 (May 16 - 20)

- work on 3 plugins
- respond to Code reviews

### Week 0 (May 23 - 27)

- work on 3 plugins
- respond to Code reviews

### Week 1 (May 30 - June 3)

- work on 3 plugins
- respond to Code reviews
- Midterm exam this week, little to no work

### Week 2 (June 6 - 10)

- work on 3 plugins
- respond to Code reviews

### Week 3 (June 13 - 17)

- work on 3 plugins
- respond to Code reviews

### Week 4 (June 20 - 24)

- Exam week, likely to complete little to no work

### Week 5 (June 27 - July 1)

- Midterm evaluations
- Respond to feedback

### Week 6 (July 4 - 8)

- Reach out to OpenDayLight community for new features that are needed

#### Week 7 (July 11 - 15)

- evaluate on how to approach new feature plugins

#### Week 8 (July 18 - 22)

- work on 3 plugins

#### Week 9 (July 25 - 29)

- work on 3 plugins
- respond to Code reviews

#### Week 10 (August 1 - 5)

- work on 3 plugins
- respond to Code reviews

#### Week 11 (August 8 - 12)

- work on 3 plugins
- respond to Code reviews

#### Week 12 (Aug 15 - 19)

- respond to Code reviews
- wrap up project
- respond to feedback

#### Week 13 (Aug 22 - 26)

- Exam week, likely to complete little to no work
- respond to feedbacks

#### Week 14 (August 29)

- Final evaluation date
- respond to final incoming feedbacks

#### Functions Table

| Function               | Status                                                       | Work log                                                                                       | URL                                                                                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| convert_mapping_to_xml | 1) Merged<br>2) Merged<br>3) Merged<br>4) Waiting for review | 1) Add helper function to convert xml<br>2) Add valid set of options parameters to convert xml | 1) <a href="https://review.openstack.org/261620/">https://review.openstack.org/261620/</a><br>2) <a href="https://review.openstack.org/337381/">https://review.openstack.org/337381/</a><br>3) <a href="https://review.openstack.org/337381/">https://review.openstack.org/337381/</a> |

|  |  |                                                                                                  |                                                                                                                                                                        |
|--|--|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 3) Add valid_dict parameter to convert xml<br>4) Remove fail_required parameter from convert xml | <a href="https://review.openstack.org/345144/">openstack.org/345144/</a><br>4) <a href="https://review.openstack.org/346140/">https://review.openstack.org/346140/</a> |
|--|--|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Plugins Table

| Plugin             | Status                             | Work log                                                                    | URL                                                                                                                                                                                      |
|--------------------|------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Archive            | Merged                             | Add support for default-excludes in archives                                | <a href="https://review.openstack.org/259666/">https://review.openstack.org/259666/</a>                                                                                                  |
| Artifactory        | 1) Merged<br>2) Waiting for review | 1) Update maven-builder to use convert xml<br>2) Update helpers.artifactory | 1) <a href="https://review.openstack.org/352671/">https://review.openstack.org/352671/</a><br>2) <a href="https://review.openstack.org/353208/">https://review.openstack.org/353208/</a> |
| Bazaar             | Merged                             | Update bazaar plugin                                                        | <a href="https://review.openstack.org/335646/">https://review.openstack.org/335646/</a>                                                                                                  |
| build_discarder    | Waiting for review                 | Update build-discarder to use convert xml                                   | <a href="https://review.openstack.org/339228/">https://review.openstack.org/339228/</a>                                                                                                  |
| Build Name Setter  | Merged                             | Update Build Name Setter plugin to use convert xml                          | <a href="https://review.openstack.org/351899/">https://review.openstack.org/351899/</a>                                                                                                  |
| Build-timeout      | Merged                             | Add deadline option for build-timeout plugin                                | <a href="https://review.openstack.org/312271/">https://review.openstack.org/312271/</a>                                                                                                  |
| BuildResultTrigger | Waiting for review                 | Update support for BuildResultTrigger plugin                                | <a href="https://review.openstack.org/321619/">https://review.openstack.org/321619/</a>                                                                                                  |
| ClamAV             | Merged                             | Update clamav plugin to use convert xml                                     | <a href="https://review.openstack.org/341249/">https://review.openstack.org/341249/</a>                                                                                                  |

|                      |                        |                                                                                                         |                                                                                                                                                                                          |
|----------------------|------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clang Scan-Build     | Merged                 | Update clang scan build                                                                                 | <a href="https://review.openstack.org/340440/">https://review.openstack.org/340440/</a>                                                                                                  |
| Cloud Foundry        | Waiting for review     | Add support for Cloud Foundry plugin                                                                    | <a href="https://review.openstack.org/350940/">https://review.openstack.org/350940/</a>                                                                                                  |
| Cobertura            | 1) Merged<br>2) Merged | 1) Update Cobertura docs to be 4 space indent syntax<br>2) Update cobertura to use covert xml           | 1) <a href="https://review.openstack.org/348736/">https://review.openstack.org/348736/</a><br>2) <a href="https://review.openstack.org/351891/">https://review.openstack.org/351891/</a> |
| CodeCover            | Merged                 | Add support for CodeCover plugin                                                                        | <a href="https://review.openstack.org/346974/">https://review.openstack.org/346974/</a>                                                                                                  |
| Config File Provider | 1) Merged<br>2) Merged | 1) Update Config File Provider docs to have default options<br>2) Update cfp builder to use convert xml | 1) <a href="https://review.openstack.org/333393/">https://review.openstack.org/333393/</a><br>2) <a href="https://review.openstack.org/353198/">https://review.openstack.org/353198/</a> |
| Copy Artifact        | Merged                 | Update Copy Artifact plugin to use convert xml                                                          | <a href="https://review.openstack.org/334580/">https://review.openstack.org/334580/</a>                                                                                                  |
| Cucumber Reports     | Merged                 | Update Cucumber Reports plugin                                                                          | <a href="https://review.openstack.org/321309/">https://review.openstack.org/321309/</a>                                                                                                  |
| CVS                  | Waiting for review     | Update CVS Plugin to use convert_mapping_to_xml                                                         | <a href="https://review.openstack.org/318706/">https://review.openstack.org/318706/</a>                                                                                                  |
| Delivery Pipeline    | Merged                 | Update Delivery Pipeline plugin to use convert xml                                                      | <a href="https://review.openstack.org/346988/">https://review.openstack.org/346988/</a>                                                                                                  |

|                      |                                                                                                                      |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disable-failed-job   | Waiting for review                                                                                                   | Update disable-failed-job to use convert xml                                                                                                                                                                                                                              | <a href="https://review.openstack.org/353821/">https://review.openstack.org/353821/</a>                                                                                                                                                                                                                                                                                                                                                                  |
| Docker Build Publish | Merged                                                                                                               | Update docker build publish to use convert xml                                                                                                                                                                                                                            | <a href="https://review.openstack.org/352647/">https://review.openstack.org/352647/</a>                                                                                                                                                                                                                                                                                                                                                                  |
| Doxygen              | Merged                                                                                                               | Update doxygen plugin to use convert xml                                                                                                                                                                                                                                  | <a href="https://review.openstack.org/334583/">https://review.openstack.org/334583/</a>                                                                                                                                                                                                                                                                                                                                                                  |
| DRY                  | Merged                                                                                                               | Update DRY plugin to use convert xml function                                                                                                                                                                                                                             | <a href="https://review.openstack.org/341240/">https://review.openstack.org/341240/</a>                                                                                                                                                                                                                                                                                                                                                                  |
| EnvInject            | Abandon                                                                                                              | Update EnvInject to use convert xml                                                                                                                                                                                                                                       | <a href="https://review.openstack.org/324140/">https://review.openstack.org/324140/</a>                                                                                                                                                                                                                                                                                                                                                                  |
| FindBugs             | <ul style="list-style-type: none"> <li>1) Merged</li> <li>2) Merged</li> <li>3) Merged</li> <li>4) Merged</li> </ul> | <ul style="list-style-type: none"> <li>1) Update FindBugs doc options to have default value</li> <li>2) Fix link to findbugs minimal example</li> <li>3) Update FindBugs docs to 4 space indent syntax</li> <li>4) Update findbugs_settings to use convert xml</li> </ul> | <ul style="list-style-type: none"> <li>1) <a href="https://review.openstack.org/331711/">https://review.openstack.org/331711/</a></li> <li>2) <a href="https://review.openstack.org/347602/">https://review.openstack.org/347602/</a></li> <li>3) <a href="https://review.openstack.org/348740/">https://review.openstack.org/348740/</a></li> <li>4) <a href="https://review.openstack.org/353204/">https://review.openstack.org/353204/</a></li> </ul> |

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|-----------------------------|--------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|
| Fingerprint                 | Merged             | Add support for Fingerprint plugin            | <a href="https://review.openstack.org/345726/">https://review.openstack.org/345726/</a> |
| FSTrigger                   | Waiting for review | Update FSTrigger plugin                       | <a href="https://review.openstack.org/328456/">https://review.openstack.org/328456/</a> |
| FTP-Publisher               | Waiting for review | Add support for FTP-Publisher plugin          | <a href="https://review.openstack.org/347589/">https://review.openstack.org/347589/</a> |
| Gerrit Trigger              | Merged             | Update Gerrit Trigger to use convert xml      | <a href="https://review.openstack.org/332893/">https://review.openstack.org/332893/</a> |
| Git                         | Merged             | Remove handle_entity_children for convert xml | <a href="https://review.openstack.org/349045/">https://review.openstack.org/349045/</a> |
| GitBucket                   | Waiting for review | Add GitBucket plugin support                  | <a href="https://review.openstack.org/348702/">https://review.openstack.org/348702/</a> |
| GitHub                      | Waiting for review | Add display-name option to github plugin      | <a href="https://review.openstack.org/348726/">https://review.openstack.org/348726/</a> |
| GitHub pull request builder | Merged             | Update GitHub pull request builder plugin     | <a href="https://review.openstack.org/335632/">https://review.openstack.org/335632/</a> |

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|-------------------------|------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grails                  | Waiting for review     | Update Grails plugin to use convert xml                                                         | <a href="https://review.openstack.org/338583/">https://review.openstack.org/338583/</a>                                                                                                  |
| Growl                   | Merged                 | Add support for Growl plugin                                                                    | <a href="https://review.openstack.org/350838/">https://review.openstack.org/350838/</a>                                                                                                  |
| Groovy Label Assignment | Waiting for review     | Add support for Groovy Label Assignment plugin                                                  | <a href="https://review.openstack.org/355247/">https://review.openstack.org/355247/</a>                                                                                                  |
| HipChat                 | Waiting for review     | Update hipchat plugin to use convert xml                                                        | <a href="https://review.openstack.org/353830/">https://review.openstack.org/353830/</a>                                                                                                  |
| Hue-light               | 1) Merged<br>2) Merged | 1) Add hue-light plugin support<br>2) Update hue light plugin to use convert xml                | 1) <a href="https://review.openstack.org/268814/">https://review.openstack.org/268814/</a><br>2) <a href="https://review.openstack.org/345715/">https://review.openstack.org/345715/</a> |
| HTML Publisher          | Merged                 | Update HTML Publisher plugin to use convert xml                                                 | <a href="https://review.openstack.org/347605/">https://review.openstack.org/347605/</a>                                                                                                  |
| HTTP Request            | 1) Merged<br>2) Merged | 1) Add support for http request plugin<br>2) Update check for valid attributes for HTTP Request | 1) <a href="https://review.openstack.org/314862/">https://review.openstack.org/314862/</a><br>2) <a href="https://review.openstack.org/344559/">https://review.openstack.org/344559/</a> |
| JCloud                  | Merged                 | Fix issue that cause JCloud instance to be set                                                  | <a href="https://review.openstack.org/353211/">https://review.openstack.org/353211/</a>                                                                                                  |
| JaCoCo                  | Waiting for review     | Update JaCoCo plugin                                                                            | <a href="https://review.openstack.org/320758/">https://review.openstack.org/320758/</a>                                                                                                  |
| Jdepend                 | Waiting for review     | Update jdepend to use convert xml                                                               | <a href="https://review.openstack.org/353805/">https://review.openstack.org/353805/</a>                                                                                                  |

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|--------------------|------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JUnit              | Merged                 | Add plugin="junit" attribute for JUnit plugin                        | <a href="https://review.openstack.org/332238/">https://review.openstack.org/332238/</a>                                                                                                  |
| Keivox KMAP        | Merged                 | Add support for Keivox KMAP                                          | <a href="https://review.openstack.org/351771/">https://review.openstack.org/351771/</a>                                                                                                  |
| live-screenshot    | Merged                 | Update live-screenshot plugin to use convert xml                     | <a href="https://review.openstack.org/#/c/342446/">https://review.openstack.org/#/c/342446/</a>                                                                                          |
| Logfilesizechecker | Merged                 | Update Logfilesizechecker to use convert xml                         | <a href="https://review.openstack.org/#/c/342452/">https://review.openstack.org/#/c/342452/</a>                                                                                          |
| LogStash           | Merged                 | Update LogStash plugin to use convert xml                            | <a href="https://review.openstack.org/348599/">https://review.openstack.org/348599/</a>                                                                                                  |
| M2 Release         | Merged                 | Update M2 Release plugin to use convert xml                          | <a href="https://review.openstack.org/346072/">https://review.openstack.org/346072/</a>                                                                                                  |
| Mailer             | Merged                 | Add test and update documentation for mailer plugin                  | <a href="https://review.openstack.org/312810/">https://review.openstack.org/312810/</a>                                                                                                  |
| maven-targets      | Merged                 | Add missing docs for maven-targets                                   | <a href="https://review.openstack.org/353844/">https://review.openstack.org/353844/</a>                                                                                                  |
| MongoDB            | Merged                 | Update MongoDB plugin                                                | <a href="https://review.openstack.org/#/c/342460/">https://review.openstack.org/#/c/342460/</a>                                                                                          |
| MSBuild            | Merged                 | Add unstable-if-warnings option for msbuild                          | <a href="https://review.openstack.org/345729/">https://review.openstack.org/345729/</a>                                                                                                  |
| OpenShift Pipeline | Merged                 | Update OpenShift Pipeline plugin                                     | <a href="https://review.openstack.org/334632/">https://review.openstack.org/334632/</a>                                                                                                  |
| Plot               | 1) Merged<br>2) Merged | 1) Update Plot plugin<br>2) Update plot doc to 4 space indent syntax | 1) <a href="https://review.openstack.org/315647/">https://review.openstack.org/315647/</a><br>2) <a href="https://review.openstack.org/345712/">https://review.openstack.org/345712/</a> |

|                 |                                     |                                                  |                                                                                                 |
|-----------------|-------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Repo            | Merged                              | Update Repo plugin to use convert_mapping_to_xml | <a href="https://review.openstack.org/341311/">https://review.openstack.org/341311/</a>         |
| reporters       | Merged                              | Fix typo for reporters doc                       | <a href="https://review.openstack.org/353858/">https://review.openstack.org/353858/</a>         |
| Robot Framework | Waiting for review                  | Update Robot Framework plugin                    | <a href="https://review.openstack.org/331814/">https://review.openstack.org/331814/</a>         |
| Rebuild         | Waiting for review                  | Update rebuild plugin to use convert xml         | <a href="https://review.openstack.org/346999/">https://review.openstack.org/346999/</a>         |
| RunDeck         | Merged                              | Update RunDeck plugin to use convert xml         | <a href="https://review.openstack.org/340565/">https://review.openstack.org/340565/</a>         |
| Runscope        | Merged                              | Update runscope plugin to use convert xml        | <a href="https://review.openstack.org/352652/">https://review.openstack.org/352652/</a>         |
| sbt             | Waiting for review                  | Update sbt plugin to use convert_mapping_to_xml  | <a href="https://review.openstack.org/#/c/339220/">https://review.openstack.org/#/c/339220/</a> |
| Scoverage       | Merged                              | Update scoverage plugin to use convert xml       | <a href="https://review.openstack.org/340576/">https://review.openstack.org/340576/</a>         |
| ScriptTrigger   | Merged                              | Update ScriptTrigger plugin                      | <a href="https://review.openstack.org/331866/">https://review.openstack.org/331866/</a>         |
| Slack           | Waiting for review                  | Update properties.slack to use convert xml       | <a href="https://review.openstack.org/351841/">https://review.openstack.org/351841/</a>         |
| Sonar           | Merged                              | Update sonar plugin                              | <a href="https://review.openstack.org/333482/">https://review.openstack.org/333482/</a>         |
| Sonatype CLM    | 1) Merged<br>2) Merged<br>3) Merged | 1) Update Sonatype CLM for CI plugin             | 1) <a href="https://review.openstack.org/326090/">https://review.openstack.org/326090/</a>      |

|                 |                                    |                                                                                                               |                                                                                                                                                                                          |
|-----------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                    | 2) Update check for valid attributes for SonaType CLM<br>3) Update SonaType to test 'stage' non default value | 2) <a href="https://review.openstack.org/340530/">https://review.openstack.org/340530/</a><br>3) <a href="https://review.openstack.org/344553/">https://review.openstack.org/344553/</a> |
| Summary Display | Waiting for review                 | Update Summary Display plugin to use convert xml                                                              | <a href="https://review.openstack.org/353816/">https://review.openstack.org/353816/</a>                                                                                                  |
| TAP             | Merged                             | Update TAP plugin                                                                                             | <a href="https://review.openstack.org/339282/">https://review.openstack.org/339282/</a>                                                                                                  |
| TestFairy       | 1) Merged<br>2) Waiting for review | 1) Add support for testfairy plugin<br>2) Update TestFairy plugin                                             | 1) <a href="https://review.openstack.org/261587/">https://review.openstack.org/261587/</a><br>2) <a href="https://review.openstack.org/337945/">https://review.openstack.org/337945/</a> |
| TestNG          | 1) Merged<br>2) Waiting for review | 1) Update TestNG plugin<br>2) Update TestNG to use valid_dict property of convert xml                         | 1) <a href="https://review.openstack.org/339635/">https://review.openstack.org/339635/</a><br>2) <a href="https://review.openstack.org/361396/">https://review.openstack.org/361396/</a> |
| WhiteSource     | Merged                             | Update WhiteSource plugin                                                                                     | <a href="https://review.openstack.org/341256/">https://review.openstack.org/341256/</a>                                                                                                  |
| xvfb            | Waiting for review                 | Update xvfb to use convert xml                                                                                | <a href="https://review.openstack.org/346084/">https://review.openstack.org/346084/</a>                                                                                                  |
| xvnc            | Merged                             | Update xvnc to use convert xml                                                                                | <a href="https://review.openstack.org/346120/">https://review.openstack.org/346120/</a>                                                                                                  |

## Work log

### Week 13 (August 22 - 26)

- Switch to import module instead of function in properties
- Update TestNG to use valid\_dict property of convert xml

#### Week 12 (August 15 - 19)

- Exam week
- Add support for Groovy Label Assignment plugin

#### Week 11 (August 8 - 12)

- Update docker build publish to use convert xml
- Update runscope plugin to use convert xml
- Update maven-builder to use convert xml
- Update cfp builder to use convert xml
- Update findbugs\_settings to use convert xml
- Update helpers.artifactory
- Fix issue that cause JCloud instance to be set
- Update jdepend to use convert xml
- Update Summary Display plugin to use convert xml
- Update disable-failed-job to use convert xml
- Update hipchat plugin to use convert xml
- Add missing docs for maven-targets
- Fix typo for reporters doc

#### Week 10 (August 1 - 5)

- Add support for Grawl plugin
- Add support for Cloud Foundry plugin
- Add support for Keivox KMAP plugin
- Update properties.slack to use convert xml
- Update cobertura to use convert xml
- Update Build Name Setter plugin to use convert xml

#### Week 9 (July 25 - 29)

- Add support for Fingerprint plugin
- Add support for CodeCover plugin
- Update Delivery Pipeline plugin to use convert xml
- Update rebuild plugin to use convert xml
- Add support for FTP-Publisher plugin
- Fix link to findbugs minimal example
- Update HTML Publisher plugin to use convert xml
- Update EnvInject plugin
- Update LogStash plugin to use convert xml
- Add GitBucket plugin support
- Add display-name option to github plugin
- Update Cobertura docs to be 4 space indent syntax
- Update FindBugs docs to 4 space indent syntax
- Remove handle\_entity\_children for convert xml

#### Week 8 (July 18 - 22)

- Update Cucumber Reports plugin

- Update Repo plugin to use convert\_mapping\_to\_xml
- Update SonaType to test 'stage' non default value
- Update check for valid attributes for HTTP Request
- Update Grails plugin to use convert xml
- Add valid\_dict parameter to convert xml
- Update clamav plugin to use convert xml
- Update plot doc to 4 space indent syntax
- Update hue light plugin to use convert xml
- Add support for Fingerprint plugin
- Add unstable-if-warnings option for msbuild
- Update M2 Release plugin to use convert xml
- Update xvfb to use convert xml
- Update xvnc to use convert xml
- Remove fail\_required parameter from convert xml

#### Week 7 (July 11 - 15)

- Update TestFairy plugin
- Update clang scan build
- Update check for valid attributes for SonaType CLM
- Update RunDeck plugin to use convert xml
- Update scoverage plugin to use convert xml
- Update DRY plugin to use convert xml function
- Update clamav plugin to use convert xml
- Update WhiteSource plugin
- Update Repo plugin to use convert\_mapping\_to\_xml
- Update live-screenshot plugin to use convert xml
- Update Logfilesizechecker to use convert xml
- Update MongoDB plugin

#### Week 6 (July 4 - 8)

- Add valid set of options parameters to convert xml
- Update TestFairy plugin
- Update support for BuildResultTrigger plugin
- Update FSTrigger plugin
- Update JaCoCo plugin
- Clean up import helpers in publishers
- Update grails plugin
- Update sbt plugin to use convert\_mapping\_to\_xml
- Update build-discarder to use convert xml
- Update TAP plugin
- Update TestNG plugin

#### Week 5 (June 27 - July 1) Note: fail\_required=True update --- Noted = <<<

- Update Copy Artifact plugin to use convert xml
- Update doxygen plugin to use convert xml
- Update OpenShift Pipeline plugin <<<

- Update GitHub pull request builder plugin <<<
- Update bazaar plugin <<<

#### Week 4 (June 20 - 24)

- Update FindBugs doc to have default value
- Update Robot Framework plugin
- Update ScriptTrigger plugin
- Add plugin="junit" attribute for JUnit plugin
- Update Gerrit Trigger to use convert xml
- Update Config File Provider docs to have default options

#### Week 3 (June 13 - 17)

- Update JaCoCo plugin
- Update Cucumber Reports plugin
- Update EnvInject plugin
- Update FSTrigger plugin

#### Week 2 (June 6 - June 10)

- Update Cucumber Reports plugin
- Update EnvInject plugin
- Update FSTrigger plugin
- Update JaCoCo plugin
- Update support for BuildResultTrigger plugin
- Update Sonatype CLM for CI plugin
- External Monitor Job Type is up-to-date
- Investigate HTTP Request

#### Week 1 (May 30 - June 3)

- Update EnvInject plugin to use convert xml

#### Week 0 (May 23 - 27)

- Ant plugin up-to-date
- Update JaCoCo plugin
- Update Cucumber Reports plugin
- Update support for BuildResultTrigger plugin
- Javadocs plugin up-to-date
- JClouds plugin up-to-date
- Git plugin up-to-date
- Git client plugin up-to-date

#### Week -1 (May 16 - 20)

- URLTrigger plugin up-to-date
- Update CVS Plugin to use convert\_mapping\_to\_xml

#### Week -2 (May 9 - 13)

- Add support for http request plugin

- Add test and update documentation for mailer plugin
- Add support for testfairy plugin
- Update Plot plugin

Week -3 (May 2 - 6)

- evaluate plugins used by OpenDayLight
- familiarize myself with python
- familiarize myself with Git, Github, Gerrit
- Add deadline option for build-timeout plugin
- Add test and update documentation for mailer plugin
- Add support for testfairy plugin