

# SCM API Plugin

## Plugin Information

View SCM API [on the plugin site](#) for more information.

## SCM API Plugin

This plugin provides a new enhanced API for interacting with SCM systems.

## Version History

### Version 2.4.0 (Mar 21, 2019)

- Java 8 and Jenkins 2.60.3 are the new required minimum versions.
  - [PR-63](#) Internal changes for better Java 11 compatibility

### Version 2.3.2 (Mar 21, 2019)

-  Restore workaround for Jenkins Core Util.isOverridden until

 [JENKINS-56660](#) - If the child class overrides a method and marks the override as final Util.isOverridden should return true OPEN is fixed

### Version 2.3.1 (Mar 21, 2019)

- [JENKINS-56656](#) Enhance mock test harness to allow for testing change request trustability
- Various code tidy-ups [PR#60](#) [PR#59](#)
-  Code tidy up identified bug in Jenkins Core. Do not use this release. Fix is in 2.3.2

### Version 2.3.0 (Oct 17, 2018)

- [JENKINS-52964](#) - add `SCMFileSystem.Builder#supports(SCMSourceDescriptor)` and `#supports(SCMDescriptor)` methods.

### Version 2.2.8 (Sept 28, 2018)

- Add traits-related methods to `SCMNavigator` and `SCMSource` base classes.
- Minor improvement to `WildcardSCMHeadFilterTrait` help documentation.

### Version 2.2.7 (Apr 20, 2018)

-  [JENKINS-50777](#) - Exported API for `SCMRevisionAction` & `SCMSource` RESOLVED

### Version 2.2.6 (Dec 13, 2017)

- Enhanced the mock implementation test harness to allow testing `SCMSource.afterSave()` and `SCMNavigator.afterSave()` (no changes to user code)

### Version 2.2.5 (Nov 3, 2017)

- Add a utility API to allow implementation plugins to use a standard mechanism for normalizing SCM URIs in order to assist comparisons (no user visible changes)

### Version 2.2.4 (Nov 2, 2017)

- Clarify the help text for the built in filters. The built in filters treat the `SCMHead` name as a name, no special processing. A lot of people were wondering why when they set a filter like `master feature/*` why none of the PRs were building... the reason being that `PR-123` does not match the filter. When using the filters built in to SCM-API you probably want something like `master feature/* PR-*` to get PRs to build. An alternative filter implementation that probably does what you actually want is [SCM Filter Branch PR Plugin](#) as that will filter non-change requests like the built in filters but has a special case for PRs where instead it filters those based on the PR target head rather than the name of the PR (which will always be PR-... unless the `SCMSource` uses a different prefix for its change request concept 🤔)

### Version 2.2.3 (Oct 6, 2017)

- [JENKINS-47295](#) Update to parent pom 2.36

## Version 2.2.2 (Sep 14, 2017)

Changes to test framework; no user-visible change.

## Version 2.2.1 (Aug 22, 2017)

Changes to test framework; no user-visible change.

## Version 2.2.0 (Jul 17, 2017)

- [JENKINS-45436](#) API to generate (mostly) human readable names of SCM server URLs
- [JENKINS-45434](#) Add an avatar cache so that SCMs that providing fixed size avatars can convert to Jenkins native sizes
- [JENKINS-45331](#) Prevent log-spam when instantiating trait based SCMNavigator / SCMSource implementations
- [JENKINS-43507](#) Allow SCMSource and SCMNavigator subtypes to share common traits
- [JENKINS-44891](#) Migrate SCMSource's id field to a @DataBoundSetter
- [JENKINS-44884](#) Add @Symbol annotations
- [JENKINS-44648](#) SCMRevisionAction should record corresponding source
- [JENKINS-43433](#) Allow SCMSource implementations to expose merge and origin of change request heads

## Version 2.1.1 (Mar 16, 2017)

- [JENKINS-41736](#) Add ability for SCMEvents to be contextually self-describing

## Version 2.1.0 (Mar 08, 2017)

- [JENKINS-42542](#) `SCMHeadObserver.observe(SCMHead, SCMRevision)` should be allowed to throw IO and Interrupted exceptions

## Version 2.0.8 (Mar 01, 2017)

- **No user facing changes. The plugin is effectively identical to the 2.0.4 release.**
- Added `AbstractSampleRepoRule` & `AbstractSampleDVCSRepoRule` to the test harness.

## Version 2.0.7 (Feb 20, 2017)

- **No user facing changes. The plugin is effectively identical to the 2.0.4 release.**
- Test harness updates

## Version 2.0.6 (Feb 20, 2017)

- **No user facing changes. The plugin is effectively identical to the 2.0.4 release.**
- Test harness updates

## Version 2.0.5 (Feb 17, 2017)

- **No user facing changes. The plugin is effectively identical to the 2.0.4 release.**
- [JENKINS-42150](#) update the test harness to allow the mock implementation to have fake latency
- [PR#28](#) update the documentation for implementers of the SCM API
- [PR#31](#) update the test dependencies to make running the plugin compatibility test suite against newer Jenkins versions easier

## Version 2.0.4 (Feb 14, 2017)

- [JENKINS-42000](#) API change to enable fix of JENKINS-42000

## Version 2.0.3 (Feb 7, 2017)

- [JENKINS-41795](#) Add a way to track the origin of SCM Events

## Version 2.0.2 (Feb 2, 2017)

- [JENKINS-41453](#)
- [JENKINS-41121](#)
- Scare admins away from doing partial updates
- Need to be able to recover a controller with a specific ID for LocalData tests
- Make MockSCM usable from Pipeline's checkout step
- [JENKINS-40828](#) Fix some NPEs found when using downstream
- Tags need a timestamp
- [JENKINS-38718](#)
- [JENKINS-40829](#)

- [JENKINS-40828](#)
- [JENKINS-40827](#)
- Javadoc errors to zero
- Merge pull request #19 from jenkinsci/navigator-ids
- Merge pull request #18 from jenkinsci/important-doc-on-ids
- Noting correct issue
- Fix namespace
- Add utilities to assist with event related testing
- Simplify the child creation
- NPE from findbugs
- towards 2.0.1
- Signature should be `of(Item,SCM)` not `of(SCM)`
- SPI should not call back to API
- EventListeners expect to be ACL.SYSTEM when notified

## Version 2.0.1 (Jan 16, 2016)

 This release caused [JENKINS-41121](#).

-  Please read [this Blog Post](#) before upgrading
- (I will be updating the rest of the changes and removing this line after the chain of releases is done - SC)

## Version 2.0.1-beta-1 (Dec 16, 2016)

- Released to experimental update center to allow testing the downstream changes in github-branch-source and bitbucket-branch-source (both of which need upgrading to at least 2.0.0-beta-1 if you have them installed on your master)

## Version 2.0 (Dec 7, 2016)

- [JENKINS-38987](#) Added pronouns to assist consuming plugins to name concepts like: SCMHead; SCMSource; and SCMNavigator with SCM specific idiomatic names, e.g. GitHub can respectively provide pronouns "Branch"/"Tag"/"Pull request"; "Repository"; "Server", whereas something like Accurev could provide pronouns "Stream"/"Snapshot"; "Depot"; "Repository". The pronouns are more relevant for SCMHead as typically each SCM implementation is likely to have more than one type of head: mainlines, branches, tags, change requests, etc
- [JENKINS-39355](#) Various API improvements that make it easier to implement/consume SCM API including the addition of an event system to allow SCM implementations to consolidate push event handling from their backing SCM server.
- [JENKINS-40138](#) SCMHead.getActions() should never have been introduced into the SCM API. JENKINS-33309 was a mistake. The API is now marked as DoNotUse and is non-functional. Replacement API for the correct way to access the corresponding information have been documented.
- Added documentation for [plugin authors who are implementing the SCM API for their SCM system](#) and [consumers of the SCM API that want to access different SCM implementations through a single generic API](#)
- Added a [mock SCM implementation](#) in the tests-jar so that consumers can write unit tests of their implementation without needing to create SCM servers and manipulate SCM repositories to generate events or test conditions.

## Version 1.3 (Sep 7, 2016)

- Infrastructure for [JENKINS-31155](#).
- [JENKINS-32768](#) SingleSCMSource configuration was not properly round-tripped.
- More emphatically discourage use of SingleSCMSource.

## Version 1.2 (Apr 11, 2016)

- [JENKINS-33808](#) Support for Item categorization. More information about this new feature in core here [JENKINS-31162](#)

## Version 1.1 (Mar 10, 2016)

- [JENKINS-33256](#) SCMSource.getTrustedRevision API.
- [JENKINS-33309](#) SCMHead may have actions, such as ChangeRequestAction.

## Version 1.0 (Nov 12, 2015)

- [JENKINS-30595](#) HeadByItem API.

## Version 0.3-beta-1

- Introduced SCMNavigator API.
- [JENKINS-21007](#) Add a mechanism to get parent revision.

## Version 0.2

Changelog not recorded.

**Version 0.1**

Initial release.