

API Changes in Structure 1.6

1. Major API Release

We have to make a number of incompatible changes in API when working on Structure 1.6. If you're using the API, please check these change notes and see if you need recompile your code.

JIRA Version	New API Version
4.3.x	6.0.0
4.4.x	6.0.1
5.0.x and later	7.0.0

See [Structure API Versions](#) for full version information and downloads.

2. Incompatible Changes

2.1. `IncrementalSyncData` changed

It is now an interface, so you cannot instantiate it. The old methods are remaining the same, but there's a new method `getSyncEvents`, which allows you to get a list of events (not issues) that should be synchronized. This allows for a more fine-grained synchronization algorithms.

The class representing the event - `SyncEvent` - is part of this change.

2.2. `IssueListener` changed

`IssueListener.onIssueChanged()` now accepts `JiraChangeEvent` and not `long` as before. If you've used our `IssueEventBridge` to listen for events, you need to update your listener. On the same note, `IssueEventBridge` methods for reporting the events changed as well - see the API.

The new classes `JiraChangeEvent`, `IssueChangeEvent` and `LinkChangeEvent` are part of this change.

2.3. `StructureListener.StructureChanges` is now an interface

You can no longer instantiate this class. We hope you didn't need to, before.

2.4. `ModuleStopListener` utility class removed

It wasn't working well as it could miss component destruction in some events. If you were using it, consider switching to `DisposableBean`.

2.5. `AbstractSynchronizer.issueDebug()` is not a static method

It used to be an instance method, but we had to convert it to a static one. If you had used it, recompilation is required.

3. Compatible Changes

3.1. Support for plugin defaults in `StructureConfiguration` interface

A number of methods have been added to `StructureConfiguration` to support persistence of the new settings – default structures and UI settings such as auto-switch.

Documentation for the features: [Changing Structure Defaults](#), [Structure Options for the Issue Page](#)

3.2. `StructureManager` new method: `getSingleViewableStructureId(User)`

The new `getSingleViewableStructureId(User)` in `StructureManager` allows to detect that the user can only see a single structure, and this can be used to simplify the user interface (for example, hide the structure selector).

3.3. Forest new methods

- Method `getPathForIndex(int)` to get the path to an issue, similar to `getPath(long)`
- Method `foldUpwards(ForestParentChildrenClosure)` for efficient traversal and folding of the forest from bottom to top, comes with auxiliary classes `ForestParentChildrenClosure` and others.

3.4. StructureListener.StructureChanges.getForestOps()

Class `StructureListener.StructureChanges` now contains method `getForestOps()` that allows you to inspect the events that have happened in detail. This is especially useful in synchronizers.

3.5. SyncController additional methods

`SyncController` now has another variant of `incrementalSyncRequired` method that accepts a `JiraChangeEvent`.

3.6. Safer Structure methods

Methods `getName()` and `getDescription()` now return non-null values always.