

Advanced Configuration with System Properties

Certain advanced aspects of Structure's behavior might not have dedicated configuration pages, being controlled by system properties instead. This page lists Structure-related system properties and describes how to set them.

Setting System Properties on Startup

You can set a system property using the `-D` JIRA startup option, for example:

```
-Dstructure.sync.guard.email.admin.cycles=5
```

Configuring JIRA startup options is described in [this article](#). You will need to restart JIRA for the properties to take effect.

Setting System Properties with Script Runner

If you don't want to restart JIRA, you may use the free [Script Runner](#) add-on to set system properties.

1. Install Script Runner.
2. Go to **Administration | Add-Ons | Script Runner | Script Console**.
3. Select **Groovy** as the Script Engine.
4. Enter the following code into the Script text box, adjust property name and value as needed, and click **Run Now**.

```
System.setProperty("structure.sync.guard.email.admin.cycles", "5")
```

The changes take effect immediately, but the properties will be reset to their default values when you restart JIRA. If you want the changes to be permanent, please use the `-D` startup option as described above.

Synchronizer Cycle Guard

The [cycle guard](#) is a component that detects conflicting synchronizers and prevents them from cycling forever, overriding each other's changes. The table below describes the system properties that control the cycle guard.

| Property | Default | Explanation |
|--|--------------------|---|
| <code>structure.sync.guard.disable</code> | <code>false</code> | Set to <code>true</code> to disable the cycle guard. Conflicting synchronizers will not be prevented from running forever. Not recommended. |
| <code>structure.sync.guard.maxAutosyncsWithoutUserChanges</code> | 10 | The maximum number of times that a synchronizer is allowed to run, processing the changes generated by another synchronizer. If this limit is exceeded, the two synchronizers are considered to be in conflict. |
| <code>structure.sync.guard.stop.disable</code> | <code>false</code> | If <code>true</code> , conflicting synchronizers will not be disabled automatically. The cycling may repeat after a user-generated change. |
| <code>structure.sync.guard.email.owner.disable</code> | <code>false</code> | If <code>true</code> , the cycle guard will never send e-mail notifications to synchronizer owners. |
| <code>structure.sync.guard.email.admin.disable</code> | <code>false</code> | If <code>true</code> , the cycle guard will never send e-mail notifications to JIRA administrators. |
| <code>structure.sync.guard.email.admin.cycles</code> | 10 | <p>The minimum number of times a cycle must be detected for a synchronizer before an e-mail notification about that synchronizer is sent to JIRA administrators.</p> <p>The counter is reset when a synchronizer is automatically disabled, so if this number is greater than 1 and automatic disabling is on, the administrators will not be notified.</p> |