

# Content Sync

Magnolia Compatibility	
5.5	✓
5.6	✓
5.7	✓
6.1	✓

The Content Synchronization Module is used to get content from a source instance into a target instance. For example, you can get content from a PRODUCTION environment sync'ed (i.e. pulled) into a TEST environment.

When having a full DTAP environment in place for a customer and developing nice new things and improving existing functionality, often there is the need for 'actual' content to properly test all kinds of changes. This modules will save time to have all content exported and imported manually.

To start synchronization with the app, make sure all needed workspaces and nodes are configured, enter the credentials of a user that has all needed permissions on both source and target, and then click the button 'START SYNCHRONISATION'.

This module has to be installed on both source and target instance to work. Workspaces as well as nodes can both be synchronised in one go. Configuration is stored in JCR and done in node `/modules/content-synchronisation/config/`.

Synchronization first removes configured workspaces/nodes on the target instance, then pulls content from source instance. After synchronization, all imported content is published. Synchronization works in a PULL manner, so it imports content to the instance where user starts it. It does NOT push anything.

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## Installation

This module requires Enterprise Edition of Magnolia. The module can be added as a Maven dependency in the main and webapp POM file:

```
<dependency>
  <groupId>nl.info.magnolia</groupId>
  <artifactId>content-synchronization</artifactId>
  <version>{moduleVersion}</version>
</dependency>
```

Additionally a dependency from your main module descriptor is necessary:

```
<dependency>
  <name>content-synchronization</name>
  <version>{2/* | 3/*}</version>
</dependency>
```

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## Versions and compatibility table

### Compatibility

Module Version	Magnolia Version
3.1.x	6.1.x
3.0.x	5.7.x
2.0.x*	5.6.x
1.0.x*	5.5.x

\*Version no longer supported

### History

- Version 3.1.1: first public release for Magnolia 6.1.x, upgraded do JDK 11, fixed bug with endless recursion
- Version 3.0.2: fixed bug with endless recursion
- Version 3.0.0: first public release for Magnolia 5.7.x
- Version 2.0.22: bugfix - removal of parent pom
- Version 2.0.21: first public release for Magnolia 5.6.x
- Version 1.0.18: bugfix - removal of parent pom
- Version 1.0.17: first public release for Magnolia 5.5.x

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## Configuration

This module has to be installed on both source and target instance to work. Workspaces as well as nodes can both be synchronised in one go. Configuration is stored in JCR and done in node [/modules/content-synchronisation/config/](#). Please remember that rest role (or any other that is going to be used) should be configured correctly and should be allowed for GET /POST in the endpoint [/.rest/content-synchronization/v1\\*](#)

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## Logger configuration

To write all module logs to separate log file, please add Log4j config to your project:

```
<appender name="sync-log-content-synchronization" class="org.apache.log4j.Rollin
  <param name="File" value="${magnolia.logs.dir}/magnolia-content-synchronizat
  <param name="MaxFileSize" value="1MB"/>
  <param name="MaxBackupIndex" value="5"/>
  <param name="Append" value="true"/>
  <layout class="org.apache.log4j.PatternLayout">
    <param name="ConversionPattern" value="%-5p   %d{dd.MM.yyyy HH:mm:ss} %m%
  </layout>
</appender>
<appender name="log-content-synchronization" class="org.apache.log4j.AsyncAppend
  <appender-ref ref="sync-log-content-synchronization"/>
</appender>
```

```
<category name="nl.info.magnolia.sync" additivity="false">
  <appender-ref ref="log-content-synchronization"/>
  <priority value="INFO"/>
</category>
```

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## User credentials

The user that you use needs to have the next permissions:

1. read/write permissions on selected workspaces/nodes of target instance
2. read permission on selected workspaces/nodes of source instance
3. and permission to access REST endpoint on source instance

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## Licensing

Content Synchronization module for Magnolia CMS Copyright (C) 2018 [info.nl](http://info.nl)

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# Contributions, questions or findings

Please share your ideas or questions in the comments area on this page.

If you run into a problem, you can report it here: <https://jira.magnolia-cms.com/projects/CONTSYNC>

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