



Version 6.0
Import/Export Guide

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1 Introduction

The hyper Content Management Server allows the import and export of objects (pages, components, multimedia assets) via a defined interface. Content from external systems can be automatically imported in the system and exported from the system.

2 Import

2.1 General

The import of content requires the storage of XML files in the directory /data/import. The import is performed by the script "connector/import", which is located in hyperCMS root. The import can be triggered by a job (cron job) at regular intervals or on demand. The names of the imported files are irrelevant since all the files in the folder "data/import" will be analyzed and imported. However, it is important that the file names are different and have the file extension .xml.

Automatic creation of folders:

Sollen nicht existierende Unterverzeichnisse automatisch beim Import angelegt werden, kann hierfür ein Parameter genutzt werden. Bei der Aktivierung des Parameters ist darauf zu achten, dass die Anlage der Subfolder bei einem Import nicht mehr erfolgen kann und somit Informationen dieser Folder daher nachträglich nur über die Bereitstellung des Container Namens im Zielsystem erfolgen kann.
contentcreatefolders ... true/false, Folders automatisch erzeugen, Standardwert = false

A parameter can be used to force that non-existent subdirectories will be created automatically during the import. If the parameter will be activated you need to be careful since the import of a subfolder and it's metadata cannot take place if the folder exists already. This missing information of a folder can only be imported later on by providing the container name for the target system.
createcontentfolders ... true/false, create folders automatically, default value = false

Ignore missing components:

If links to non-existing components will be imported, the system can prevent the import of these relationships. Since the missing object might be imported later on during the import process, ignoring this error and importing the broken relations might be useful.
contentlinkignore ... true/false, ignore links, default value = false

Password protection:

If a password has been set in the configuration file of the system config.inc.php to protect the execution of the import and export, a parameter need to provide this password.
contentpasscode ... password for access to the import service

Example: connector/import?contentpasscode=myservicecode

2.2 Structure of an XML file

The stored xml files for the import need to fulfill the following definition:

```
<?xml version="1.0" encoding="UTF-8" ?>

<object>

<hyperCMS>
<contentcontainer></contentcontainer>
<contentuser>username</contentuser>
<contentlocation>%comp%/Publication/folder/</contentlocation>
<contentobject>objectname</contentobject>
<contenttemplate>templatename.comp.tpl</contenttemplate>
<contentpublished>true</contentpublished>
<contentworkflow>Publikation.Workflowname.xml</contentworkflow>
</hyperCMS>

<head>
<pagetitle>title</pagetitle>
<pageauthor>name of the author</pageauthor>
<pagedescription>description</pagedescription>
<pagekeywords>keyword list</pagekeywords>
<pagecontenttype>text/html; charset=iso-8859-1</pagecontenttype>
<pagelanguage>language shortcut (e.g. en)</pagelanguage>
<pagerevisit>20 days</pagerevisit>
<pagetracking>private.track.dat</pagetracking>
</head>

<textcollection>
<text>
<text_id>summary</text_id>
<textuser>username</textuser>
<textcontent>This is the summary!</textcontent>
</text>
<text>
<text_id>detailed</text_id>
<textuser>username</textuser>
<textcontent><![CDATA[<font size="2">This is the detailed content!]]></textcontent>
</text>
</textcollection>

<mediacollection>
<media>
<media_id>image</media_id>
<mediauser>username</mediauser>
<mediafile>Publication/Manual_hcm0325418.pdf</mediafile>
<mediaobject>%comp%/Publication/Docs/Manual.pdf</mediaobject>
<mediaalttext>User Manual</mediaalttext>
<mediaalign></mediaalign>
<mediawidth></mediawidth>
<mediaheight></mediaheight>
</media>
</mediacollection>

<linkcollection>
<link>
<link_id>link</link_id>
<linkuser>username</linkuser>
<linkhref>http://www.hypercms.net</linkhref>
<linktarget>_blank</linktarget>
<linktext>www.hypercms.net</linktext>
</link>
```

```

</linkcollection>

<componentcollection>
<component>
<component_id>component</component_id>
<componentuser>username</componentuser>
<componentcond>profilename</componentcond>
<componentfiles>%comp%/Publication/folder/component1.jsp|%comp%/Publication/folder/compo
nent2.jsp</componentfiles>
</component>
</componentcollection>

<articlecollection>
<article>
<article_id>article</article_id>
<articletitle>News</articletitle>
<articledatefrom></articledatefrom>
<articledateto></articledateto>
<articlestatus>active</articlestatus>
<articleuser>username</articleuser>
<articletextcollection>
</articletextcollection>
<articlemediacollection>
</articlemediacollection>
<articlelinkcollection>
</articlelinkcollection>
<articlecomponentcollection>
</articlecomponentcollection>
</article>
</articlecollection>

</object>

```

2.3 Parameters

In order to create a new object (page, component, folder or multimedia asset), the following information is required:

```
<hyperCMS>
<contentcontainer>0014020.xml</contentcontainer>
<contentuser>username</contentuser>
<contentlocation>%comp%/Publication/folder/</contentlocation>
<contentobject>objectname</contentobject>
OR
<contentfolder>foldername</contentfolder>
<contenttemplate>templatename.comp.tpl</contenttemplate>
<contentpublished>true</contentpublished>
<contentworkflow>Publikation.Workflowname.xml</contentworkflow>
</hyperCMS>
```

Mandatory inputs:

```
<contentuser> ... user name
<contentlocation> ... location of the new object; %page% is the root of pages; %comp%
is the root of components; followed by the name of the publication; each folder need to
be seperated by a slash /
<contentobject> ... name of the object without file extension OR
<contentfolder> ... name of the folder (folder BEFORE object, if both parameters exist)
<contenttemplate> ... name of the related template
```

These inputs are required so the new object can be assigned to a publication and can be created in the right place based on a given template.

Password protection:

```
<contentpasscode> ... If a password was set for the use of import/export in
„config.inc.php“, the correct password need to be provided.
```

Optional inputs are:

```
<contentcontainer> ... Indication of an existing container, the content of the existing
container will be overwritten. If the entry is empty, a new container will be generated.
<contentdate> ... date in format yyyy-mm-dd hh:mm
<contentpublish> ... Should the content be published (true/false or date/no-entry)
<contentworkflow> ... Assign object to an existing workflow
```

The section or XML-node <head> is needed to assign metadata to a page. This XML node can be left empty, if no information should be added.

Followed by the XML-nodes <textcollection>, <mediacollection>, <linkcollection>, <componentcollection> and <articlecollection>.

These nodes present the actual contents of an object and are also the editable elements that the system recognizes. These XML nodes are optional and can be left blank, but this means that an object is created without any content.

The XML node for <mediacollection> presents mainly a reference to a multimedia asset. The multimedia asset itself must be available in the system, see the location in the node <mediaobject>.

If the system can locate the associated multimedia asset, the node will be automatically filled <mediafile>. If the multimedia asset does not exist, the XML node <media> will not be imported.

```
<media>
<media_id>image</media_id>
<mediauser>username</mediauser>
<mediafile>Publication/Manual_hcm0325418.pdf</mediafile>
<mediaobject>%comp%/Publication/Docs/Manual.pdf</mediaobject>
<mediaalttext>User Manual</mediaalttext>
<mediaalign></mediaalign>
<mediawidth></mediawidth>
<mediaheight></mediaheight>
</media>
```

The same will be applied for the XML node <componentcollection>. Again, there is a check whether the references of the node <componentfiles> point to an existing object.

```
<componentcollection>
<component>
<component_id>component</component_id>
<componentuser>username</componentuser>
<componentcond>profilename</componentcond>
<componentfiles>%comp%/Publication/folder/component1.jsp| %comp%/Publication
/folder/component2.jsp</componentfiles>
</component>
</componentcollection>
```

2.4 Templates

It is important that the assigned template holds the elements with the correct ID, so the imported content can be viewed and edited in the system.

All contents are always imported, since the template can be extended or replaced at any time and therefore the content can be displayed and edited.

2.5 Import of multimedia assets

When importing files (multimedia assets), the system need to have read permissions in order to access the files in the given location. Therefore the file does not have to be located in the "data/import" directory.

In the XML file, the metadata can be stored in the <textcollection>. Again, a metadata template must be available in order to allow the user to edit the data.

A reference to the for the import, the following entry (bold) is necessary::

```
<hyperCMS>
<contentcontainer></contentcontainer>
<contentuser>username</contentuser>
<contentlocation>%comp%/Publication/folder/</contentlocation>
<contentobject>filename</contentobject>
<contenttemplate>default.meta.tpl</contenttemplate>
<contentmediafile>image.jpg</contentmediafile>
<contentpublish></contentpublish>
<contentworkflow></contentworkflow>
</hyperCMS>
```

The name of the multimedia asset <contentobject> does not have to be the same name of the imported file <contentmediafile>.

After the successful import of the data (XML files) taken from the directory „data/import“ the files will be removed. The multimedia files will be removed as well if they are located in the directory „data/import“ or another location of the file system.

3 Export

The export of content requires the storage of XML files in the "data/export" directory. The export is performed by the script "connector/export", which is located in the hyperCMS root. The export can be initialized by a job (cron job) at regular intervals or on demand.

In order to export the content of an object, the following information needs to be available to the export script:

contentlocation ... path, e.g. %comp%/publication/folder/

contentobject ... name of the object (optional)

or alternatively:

contentcontainer ... name of the content container, e.g. 0014043.xml

Should all object of a given location be exported, an additional setting can be used:

contentall ... true/false, default value = false, is not working if contentcontainer is provided

This setting can be applied to folders and objects. If a folder is specified, all content inside the folder will be exported. If an object is provided, all content from the same location of the object to be exported.

Möchte man die Container Namen exportieren, so kann man folgenden Parameter setzen:

contentpreserve ... true/false, default value = false, if the container name should be exported

If the container name will be exported and the exported xml file will be re-imported again, the available container will be overwritten.

Example of a call:

connector/export?contentlocation=%comp%/publication/folder/&contentobject=exportme.jsp&contentall=true

or alternatively:

connector/export?contentcontainer=0014043.xml

The desired objects will be read and their content container will be determined.

The content containers are stored in the folder "data/export" with the container name (XML file with container ID).

When exporting multimedia assets the files are also stored in the directory "data/export". Both the content container and the file will be exported.

The reference to the file is saved in the content container. The file name of the media file includes the name of the container ID in the form: name_hcm0014876.jpg

Password protection:

If there is a password defined in "config.inc.php", the correct password must be provided using the parameter "contentpasscode".

connector/export?contentpasscode=myspasscode&contentcontainer=0014043.xml

4 Legal reference / flag

4.1 Questions and suggestions

For advanced questions and suggestions, please contact the support. We are available for every question regarding our reseller- and partner-program. You can apply for an access to our enhanced Online-Demo of the hyper Content Management Servers via our support.

hyperCMS Support:

www.hypercms.com

support@hypercms.com

4.2 Imprint

Responsible for the content:

hyperCMS
Content Management Solutions GmbH
Rembrandtstr. 35/6
A-1020 Vienna – Austria

office@hypercms.com
<http://www.hypercms.com>

4.3 Legal information

The present product information is based on the version of the program, which was available at the time the document was composed.

The maker reserves the rights of modifications and corrections of the program.
Errors and misapprehension accepted.

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