



It is all about content sharing over websites

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Requirements

- eZ publish 3.6 and higher

Description

Concept

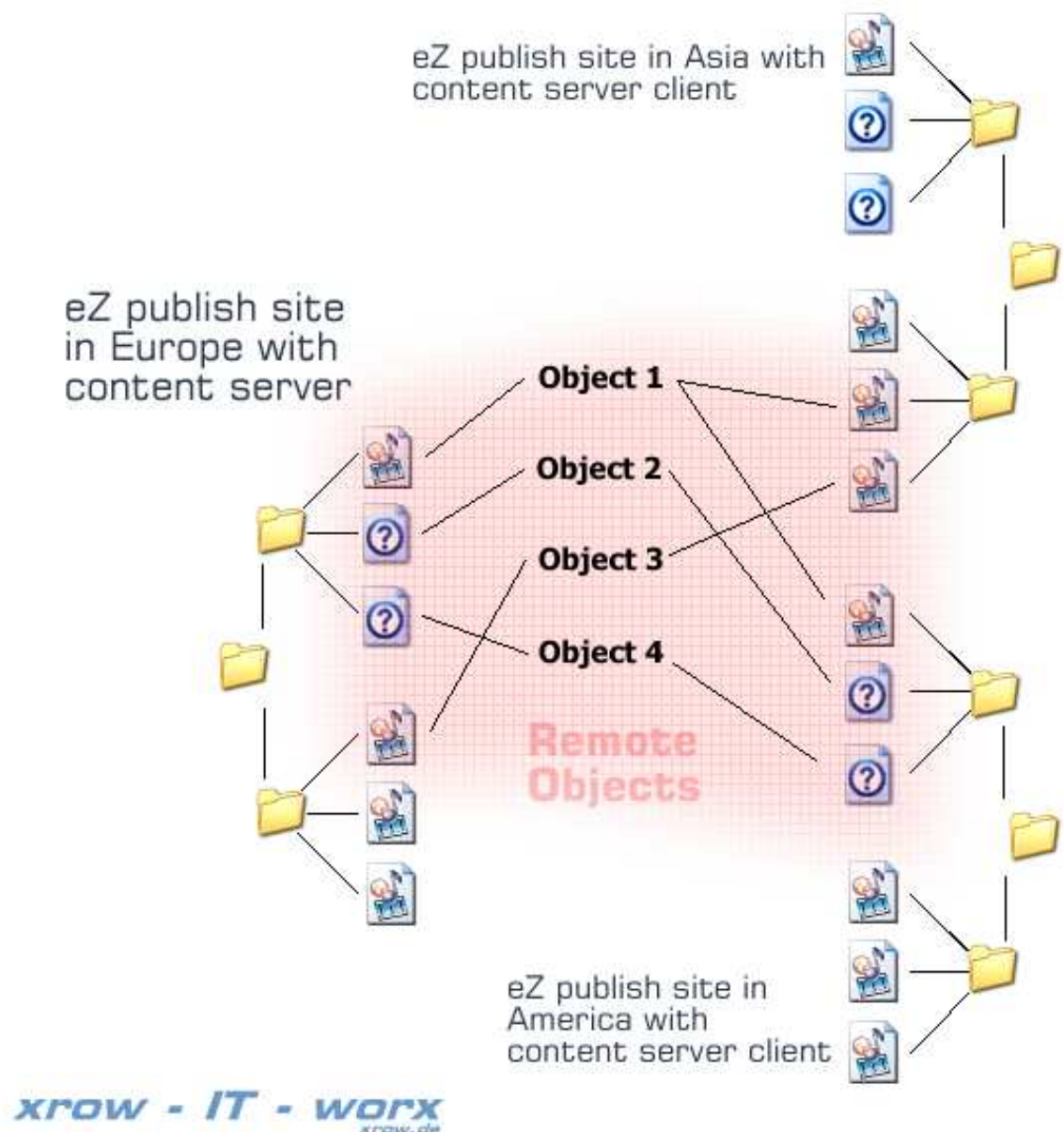
The content server enables multiple eZ publish instances to share a certain amount of content. Editors that provide content for a network of websites can mark any content object for export. Once marked for export an object is available to the client instances and an editor on client site can approve the import and move/publish the object to a desired location of satellite website. The content server also remembers the remote locations from the remote system and is able to map those locations to the appropriate locations on the client system.

The content server is the ideal solution for

- Portals and websites connected as a network
- Content sharing between different locations of a internet, intranet or extranet website

Your advantages

- Drastically cut costs by simplifying the work of your webmasters and content editors
 - Content will auto update on satellite sites once a new version is out on the server side
-



The content server is build as an extension to eZ publish. It does not modify any part of the kernel code. The extension provides

1. A SOAP Interface
2. Server side of the content server
3. Client side of the content server
4. Content server packagehandler
5. An import approval workflow
 - Editors will get notified via email when new content is available
 - New content can be archived or directly published
6. Automated placement of objects in the client system
 - Placement via Remote ID Path

- Placement via Objectname Path
- 7. A client side cronscript
- 8. Additional webinterfaces
 - content approval
 - content export
 - content import (incoming folder)
 - Interface to modify remote IDs

Installation Guide

Common extension setup

1. Place the extracted folder named “contentserver” in the extension folder of your eZ installation.
2. Login to your admin interface and activate this extension.

Database setup

```
php bin/php/ezsqlinsertschema.php --host=localhost --user=contentserver --password=123456 --insert-
types=all --type=mysql --table-charset=utf-8 --schema-file=extension/contentserver/db_schema.dba
extension/contentserver/db_schema.dba contentserver
```

Perform this step for the server and client database

Server Setup (apply only to server installation)

1. Enable the server

```
[ContentServer]
Client=enabled
```

2. Define classes that should can be exported to a client system

```
[ContentServer]
NodeExportClassList[]=news
NodeExportClassList[]=article
NodeExportClassList[]=event
NodeExportClassList[]=glossary
NodeExportClassList[]=link
NodeExportClassList[]=file
SubtreeExportClassList[]=folder
```

3. Create a new Role called “Content Exporter” with the ability to access the module content server and to read and edit certain content objects. Now apply this role to certain users or a group of users. Those users will later on permit that certain content can get exported.

4. Create a new Role called "Content Importer" with the ability to read certain content objects. A Content Importer may import any content into his client installation that he can read and that was been marked for export before.

Client Setup (apply to client installations)

1. Enable the client in "contentserver.ini"

```
[ContentServer]
Client=enabled
```

2. A new cronjob "contentserver.php" is available to the system. Implement this cron in your cronjob.ini.
3. Override the content.ini and apply the content server's hostname, you user name on the remote system and your password on the remote system to it.

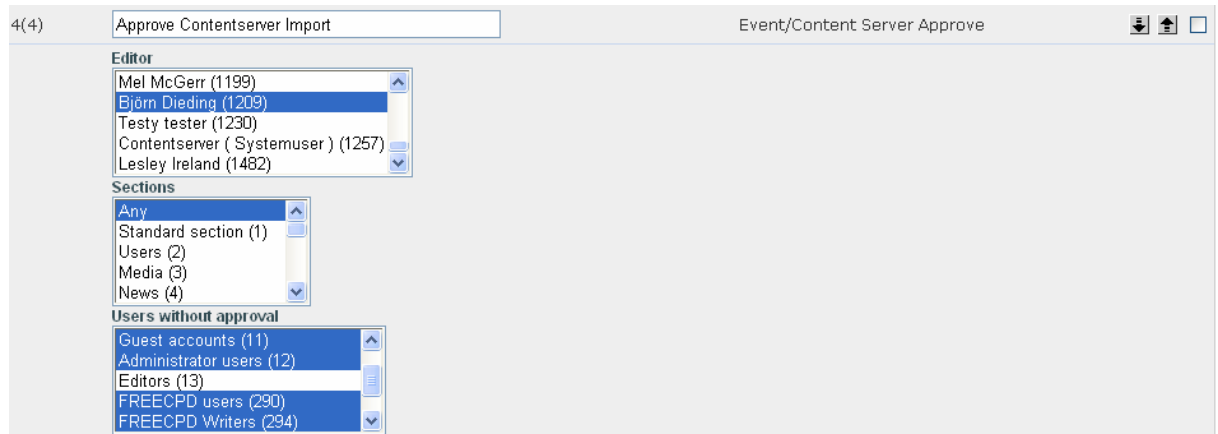
```
[ContentServerSettings]
User=admin
Password=publish
Server=contentserver.example.com
Port=80
```

4. Create a user that will be the owner of the imported objects

```
[ContentServerSettings]
LocalSystemUser=contentserver
```

Approve Workflow Setup

Optionally you can added the content server approve event to a workflow before publish to assure that nothing gets published on the client side without your permission. The event makes use of the collaboration system.



User Guide

Client side

To receive content from your global instance execute the commando line script by running:

```
php extension/contentserver/bin/contentserver.php --user=admin --password=publish --remote-server=somehost.example.com
```

or by running the cron with preset values saved in the content.ini

```
php runcronjobs.php contentserver
```

Make sure you have the proper rights to read the content on the remote system. The connection can be secured over SSL.

View incoming content

```
http://admin.example.com/incoming
```

Do not edit your imported object, because any changes will be lost once the remote object has a newer version. You need to edit the global instance to apply changes to the content object. Locations/Nodes will not get updated so you can move your content to any place you want

The screenshot shows the eZ publish version 3.6.1rc1 interface. The 'Content structure' tab is active, displaying the 'Contentserver Incoming Folder'. The interface shows a list of imported content objects with columns for Name, Class, and Created. The list includes items like 'Taylor Woodrow resumes buy-back', 'Architects' Data (Third edition)', 'Building in Value', 'Defining the role of the design manager', 'Code of Practice for Project Management for Construction and Development (Third edition)', 'Business process re-engineering', 'Recognising Wood Rot and Insect Damage in Buildings', 'Irish rail contract for AMEC', 'Does London need more tall buildings?', 'Mexico works to prevent flooding', 'Principles of Construction Safety', 'Facilities Management - Towards Best Practice', 'AMEC acquires UK Environmental Advice Centre', 'Information Visualisation (IVD5)', and 'Professor of Design & Construction Management'. The 'Current user' sidebar shows 'Administrator User' with options to change information, change password, and logout. The 'Bookmarks' sidebar shows 'Add to bookmarks'.

Force Update:

In order to update all content objects on a client please run the main executable for the content server with the option --force. Usually only objects get updated when there is a newer content object version available on the server-side.

```
php extension/contentserver/bin/contentserver.php --force
```

View all imported content

All imported and exported is identified by one Remote ID. You can use the Remote ID to lookup information on either the client or server side.

Imported Objects

Incoming Folder Imports: [Webclient](#)

This interface, shows all imported content objects.

Find ID:

Name	Class	Created
UK expertise at work in China	FREECPD News	13/07/2005
Malaysian economic recovery excludes construction	FREECPD News	13/07/2005
Watchdog targets UK construction sector	FREECPD News	13/07/2005
Galliford Try wins £45m PFI contract	FREECPD News	13/07/2005
Business travel to China on the increase	FREECPD News	13/07/2005
Construction automation and robotics	FREECPD Article	13/07/2005
Hong Kong's MTR to work on Beijing metro	FREECPD News	13/07/2005
Globalisation and corporate strategy	FREECPD Article	13/07/2005

Server content webclient

If you don't have the option to run the content server via a cron you can also use it via a web interface. Additionally you have also the extra option to remove all imported content from a system.

Contentserver webclient

Incoming Folder Imports: [Webclient](#)

Content server Client Web Interface

Only use this interface, if your Client is not configured to run as a cron job.

Server:

Port:

Username:

Password:

Server side

On server side you have the ability to mark Nodes export if you have the proper permissions. In the Content server export screen you have the option to define if the node should be exported as tree or as single Node. The Option "Expiry" can be used to expire content to the certain date on a remote system. In this case expired content will get completely removed from the remote system. The option "Update" defines if an object will get updated if a new version exists on server side else it will be just imported as the last published version. Once an object is exported you cannot remove it from the export though you can modify the export.

eZ publish version 3.6.1rc1

Content structure Media library User accounts Webshop Design Setup My account Extract Content Server

> Contentserver / Export

Content structure

- Home
- Additional Items
- Books
- Credits
- Directory
- Events
- Feedback
- Glossary
- International News
- Jobs
- Learning Materials
- Reports
- Sponsors
- Trash

Small Medium Large

Contentserver export

Object for export: [China Construction Bank attracts interest](#)

Remote ID of Object: c33fdff203b9c8cbcb3bc45fb8c9c5

Remote ID of Parent Object: 47bfdc6ec10ad55c276884d0daa0cb0

Exported: 13/07/2005

Export options

Export type: Node

Expiry: ☒ never ☐ to date

Day: Month: Year:

Update: ☒ always ☐ never

Cancel Store

Current user

xrow GbR

- Change user info
- Change password
- Logout

Bookmarks

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View all exported content

All imported and exported is identified by one Remote ID. You can use the Remote ID to lookup or edit information on server side.

eZ publish version 3.6.1rc1

Content structure Media library User accounts Webshop Design Setup My account Extract Content Server

> Contentserver / Exported Objects

Content structure

- Home
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- Trash

Small Medium Large

Exported Objects

This interface, shows all exported content objects.

Find ID: Search

Name	Class	Created		
China Construction Bank attracts interest	FREECPD News	13/07/2005	CS	
PFI contractor's future hangs by a thread	FREECPD News	06/06/2005	CS	
Wembley contractor scores own goal	FREECPD News	04/06/2005	CS	
Ronds make surprise return	FREECPD News	03/06/2005	CS	
Armani to build hotel suites	FREECPD News	02/06/2005	CS	
Last Dango in Tokyo?	FREECPD News	01/06/2005	CS	
HyCon Virtual Reality Design Support Tool	FREECPD Report	01/06/2005	CS	
Total Facilities Management (2nd edition)	FREECPD Book	31/05/2005	CS	
Planning, Public Policy and Property Markets	FREECPD Book	31/05/2005	CS	
Dubai to get light railway	FREECPD News	31/05/2005	CS	
Chile to reform national water code	FREECPD News	29/05/2005	CS	
Mott MacDonald helps China's water resources project	FREECPD News	28/05/2005	CS	
Commissioning Manager - Water Treatment	FREECPD Job	26/05/2005	CS	
New power and desalination plant in Qatar	FREECPD News	26/05/2005	CS	
AMEC awarded £25 million natural gas contract	FREECPD News	25/05/2005	CS	
Second major MoD contract for Carillion	FREECPD News	24/05/2005	CS	
Process Engineer	FREECPD Job	23/05/2005	CS	
Atkins succeeds in Chinese airport challenge	FREECPD News	23/05/2005	CS	
£100 Million Regeneration Scheme in Wakefield	FREECPD News	21/05/2005	CS	
China Construction Bank woos foreign investors	FREECPD News	20/05/2005	CS	
Mott MacDonald to update DTI's LASER model	FREECPD News	20/05/2005	CS	
CIB 2005 attracts attention to Helsinki	FREECPD News	19/05/2005	CS	
Spain Engineer	FREECPD Job	19/05/2005	CS	

Modify Export

Current user

xrow GbR

- Change information
- Change password
- Logout

Bookmarks

Viewing exported object information



Requirements for custom datatypes

All datatypes in eZ publish have the ability serialize and unserialize content object and content class info. The following functions have to be setup with each datatype (file [mydatatype] + "type.php") in your system.

- mydatatype::serializeContentClassAttribute()
- mydatatype::unserializeContentClassAttribute()
- mydatatype::serializeContentObjectAttribute()
- mydatatype::unserializeContentObjectAttribute()

Sample:

<http://pubsvn.ez.no/doxygen/classeZXMLTextType.html>

Trouble shooting

On command line

```
-bash-3.00$ php -C extension/contentserver/bin/contentserver.php
```

```
Logged in as 'contentserver'
```

```
Using Siteaccess freecpdv
```

```
Getting Content from "admin.fcpd-sites.co.uk"
```

```
Processing: 26209230fb46d03c1f8c89b6bd4eb914
```

```
Fatal error: Call to a member function on a non-object in
/home/httpd/vhosts/freecpd.tv/httpdocs/kernel/classes/ezpackage.php on line 1474
```

Fatal error: eZ publish did not finish it's request

The execution of eZ publish was abruptly ended, the debug output is present below.

Please try to manually clear the package cache. Packages might have gotten locked in the cache.

```
rm -Rf var/storeagedirofsiteaccess/cache/package/  
rm -Rf var/storeagedirofsiteaccess/storage/packages/object-*
```

Create a server from the imported object table

```
INSERT INTO ezcontentserver_export( id, created )  
SELECT id, created  
FROM ezcontentserver_import;
```