EPiSERVER COMMUNITY

Installation Instructions

EPiSERVER

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Introduction

StarCommunity becomes EPiServer Community

The Swedish company EPiServer, the world's fastest growing provider of Web Content Management (WCM) platforms, has acquired Netstar. The former product StarCommunity has in the acquisition become EPiServer Community.

Minimum requirements

The minimum requirement of the server running EPiServer Community is a Windows 2003 Server running IIS 6.0 with .NET Framework 2.0 and SQL Server 2005. Depending on the expected load of the site it may be advisable to separate the web server from the SQL Server and even have more than one web frontend.

About Netstar Install Wizard

Netstar Install Wizard is the installation program used for EPiServer Community. Releases may consist of Setups with one or more packages bundled into an installer.

EPiServer Community is released with the required framework components bundled into the installer.

Walkthrough of the Install Wizard

SQL Server Database and IIS Web site

EPiServer Community requires an SQL Server Database to put Tables and Stored Procedures in. EPiServer Community requires an installation path which usually is the root of an IIS Web site.

In this step of the installer you get to choose a database and IIS Web Site to install to. Fill in the correct values by reading the explaining tables below and then click **Next**.
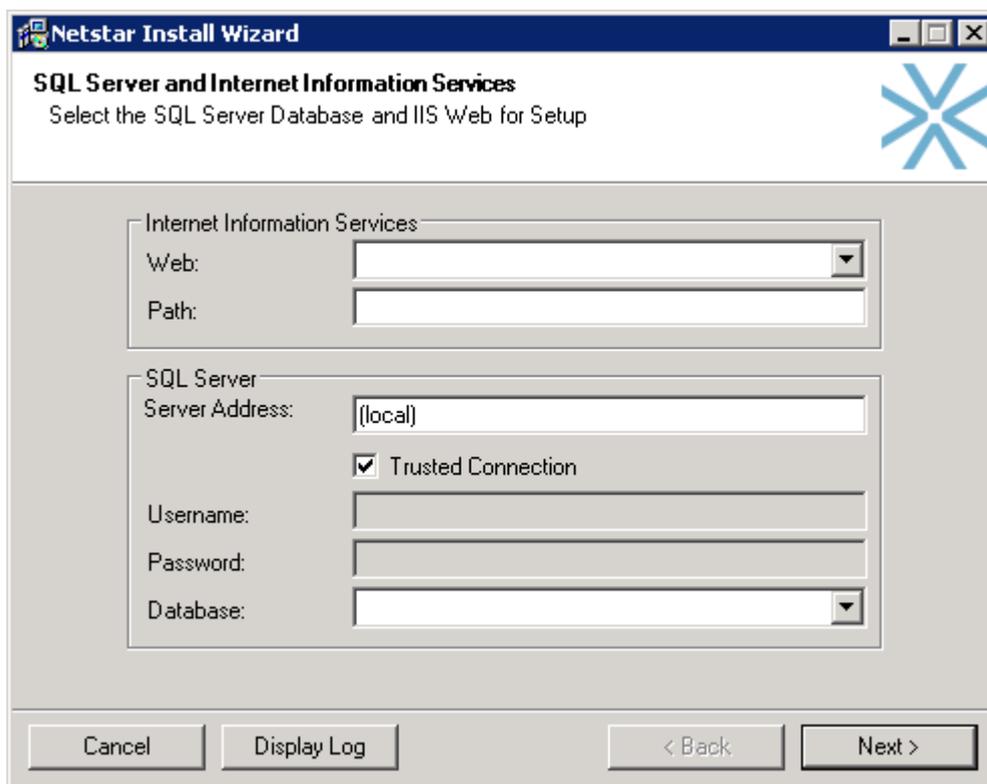
SQL SERVER	
Server Address	The network address to the SQL Server.
Trusted Connection	Whether the connection should use Trusted Windows Authentication or basic SQL Server Authentication.
Username	The SQL Server user to authenticate as. Will not be used if Trusted Connection is enabled.
Password	The password of the SQL Server user. Will not be used if Trusted Connection is enabled.
Database	The selected database on the specified SQL Server. This will be the database that your installed packages will use.

INTERNET INFORMATION SERVICES	
Web	The selected IIS Web Site on the local computer.
Path	The path the selected packages will be installed to. This path gets a default suggestion when you select an IIS Web Site in the combo box above.

Select Packages

In this step you are presented with a screen that asks you which package you wish to install. A package is a product or other bundled software available for installation. In this walkthrough we will cover the packages Required Framework Components and EPiServer Community (former StarCommunity). Select the packages you wish to install and click **Next**.
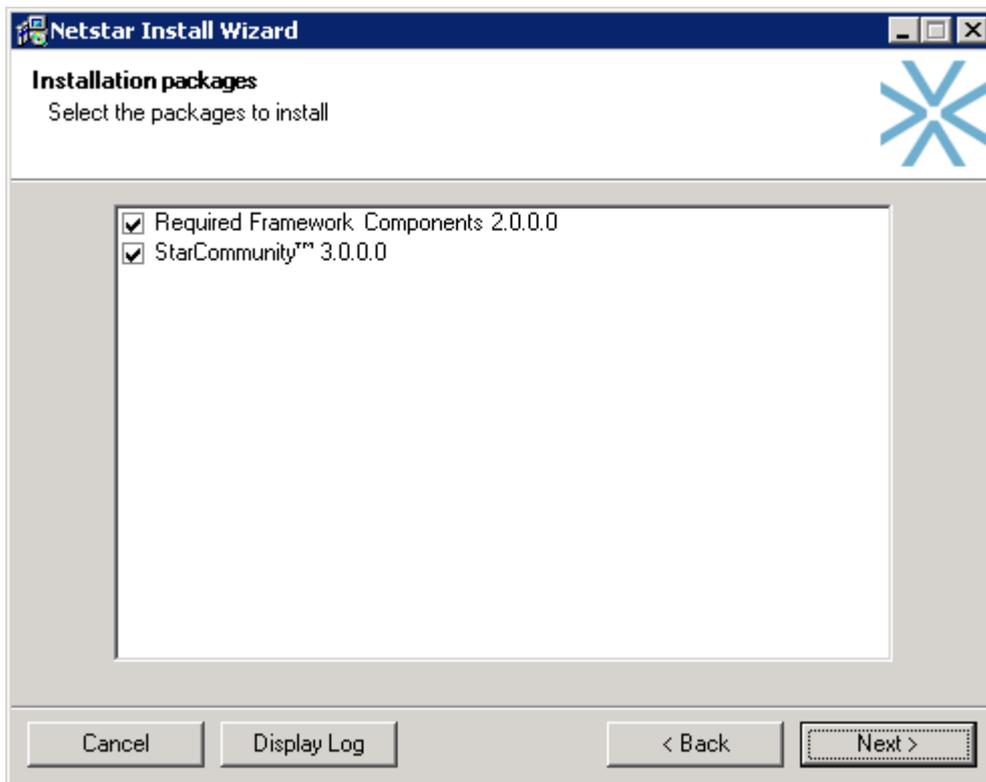
License

A license file is required for the installation to proceed. The license file can be obtained from EPiServer AB. The license file will be validated and allow you to continue after you have browsed for it.
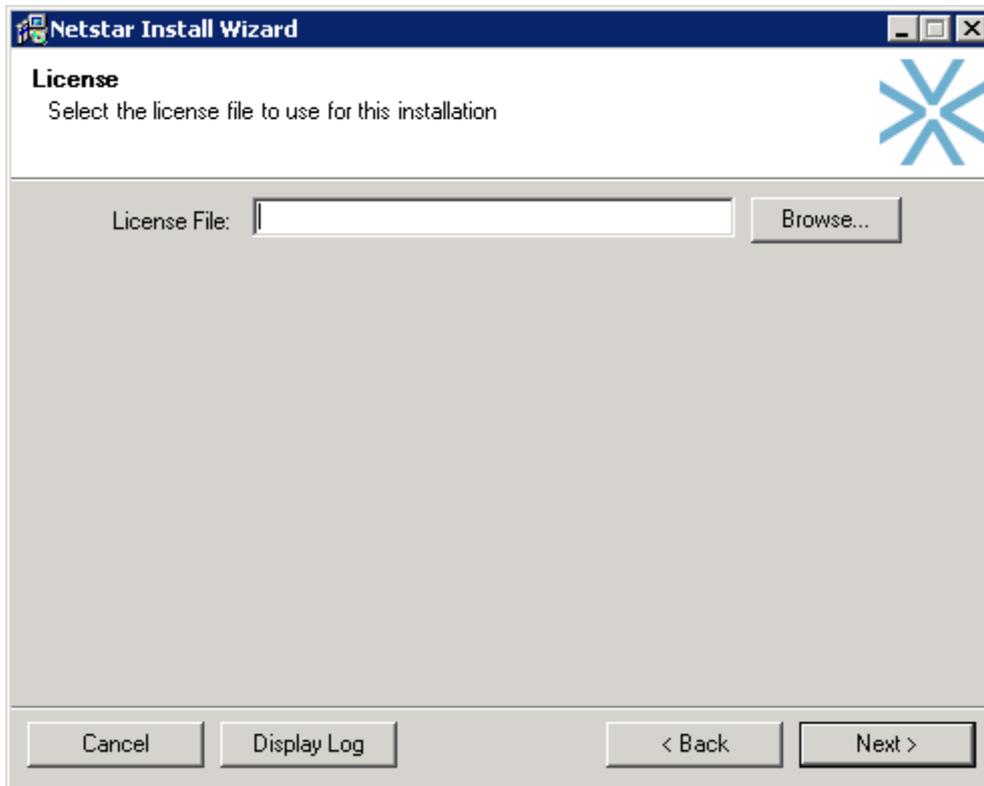
Order a license

If you need to order a license for EPiServer Mail, please visit the address:

http://license.ep.se/public

Required Framework Components

This is the main framework used by EPiServer Community and by the product EPiServer Mail[1]. If you are making a clean install it is required that you install this package and let it create its tables and stored procedures.

If you have already installed this package on another web server in the same cluster you should uncheck **Create Tables and Stored Procedures** since this only should to be done once.

If you are installing a package onto an already set up environment with the required framework components you should not select this package for installation.

Fill in the correct values by reading the explaining tables below and then click **Next**.
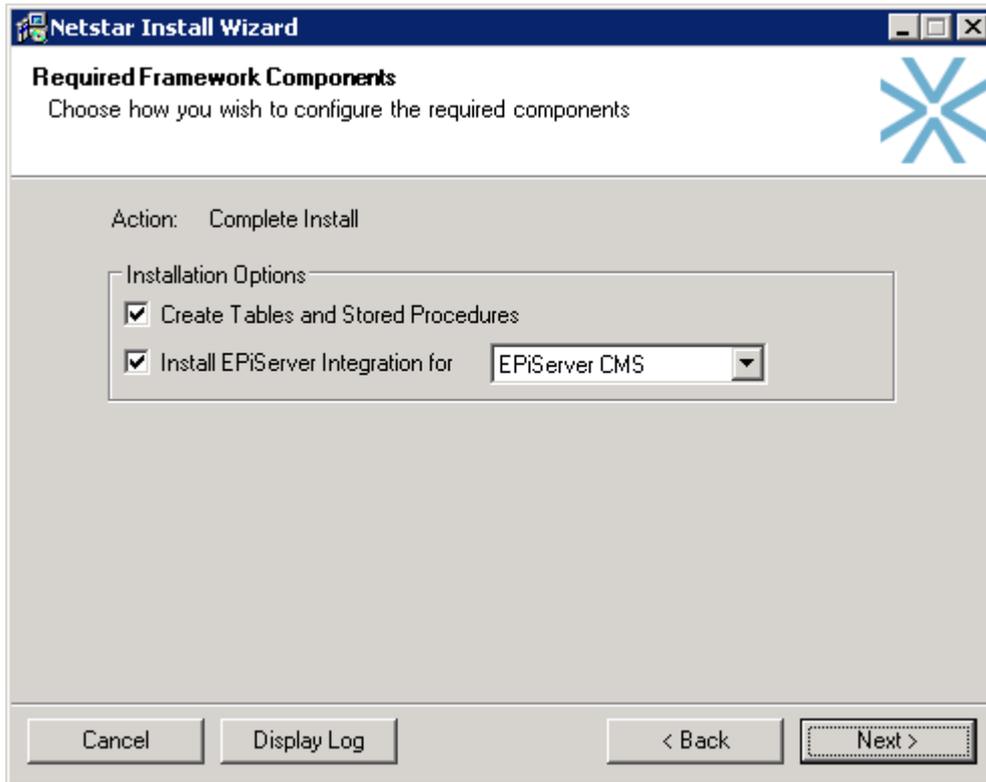
INSTALLATION OPTIONS	
Create Tables and Stored Procedures	The package will create tables and stored procedures in the database that you previously selected.
Install EPiServer Integration	The package will add integration files and settings to your EPiServer installation. Select this option if you are installing onto an EPiServer installation.

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[1] EPiServer Mail. Effective communication with your target group via e-mail.
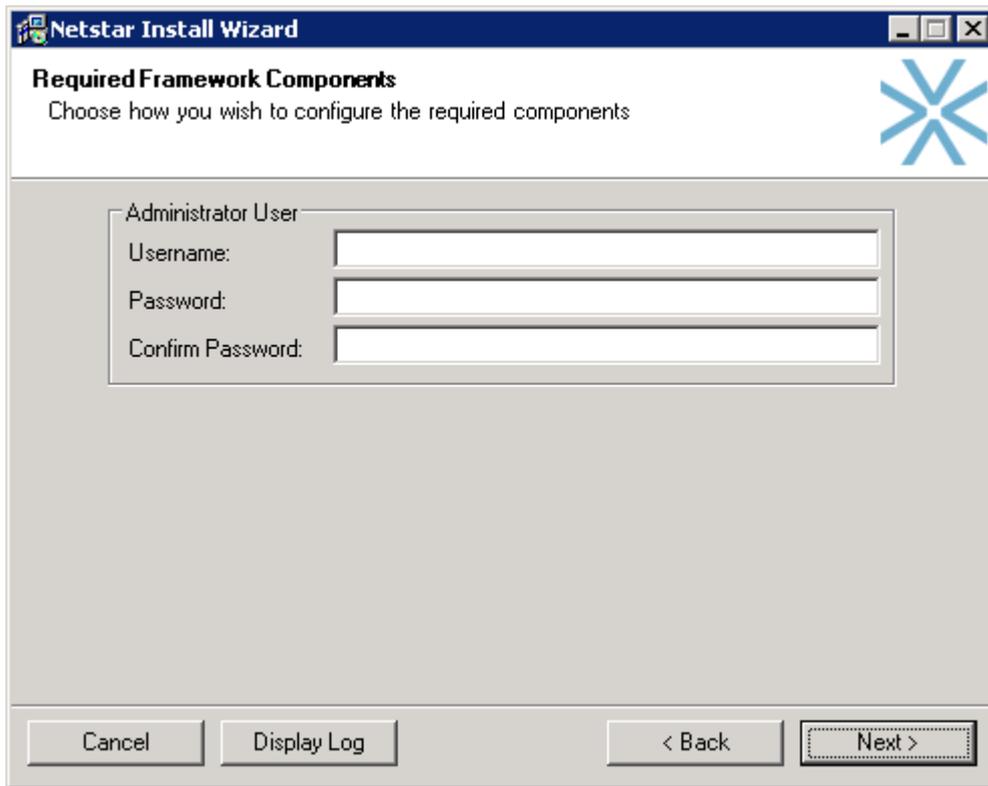
ADMINISTRATOR USER	
Username	The username of the administrator user. If you are using older versions of EPiServer CMS than version 5 you must use the same username as the admin account for the EPiServer CMS installation
Password	The password of the administrator user. If you are using older versions of EPiServer CMS than version 5 you must use the same username as the admin account for the EPiServer CMS installation
Confirm Password	This password has to match the above password

EPiServer Community

This package will install EPiServer Community to an already present installation of the required framework components or a clean install where you also have selected the required framework components for installation.

Fill in the correct values by reading the explaining tables below and then click **Next**.
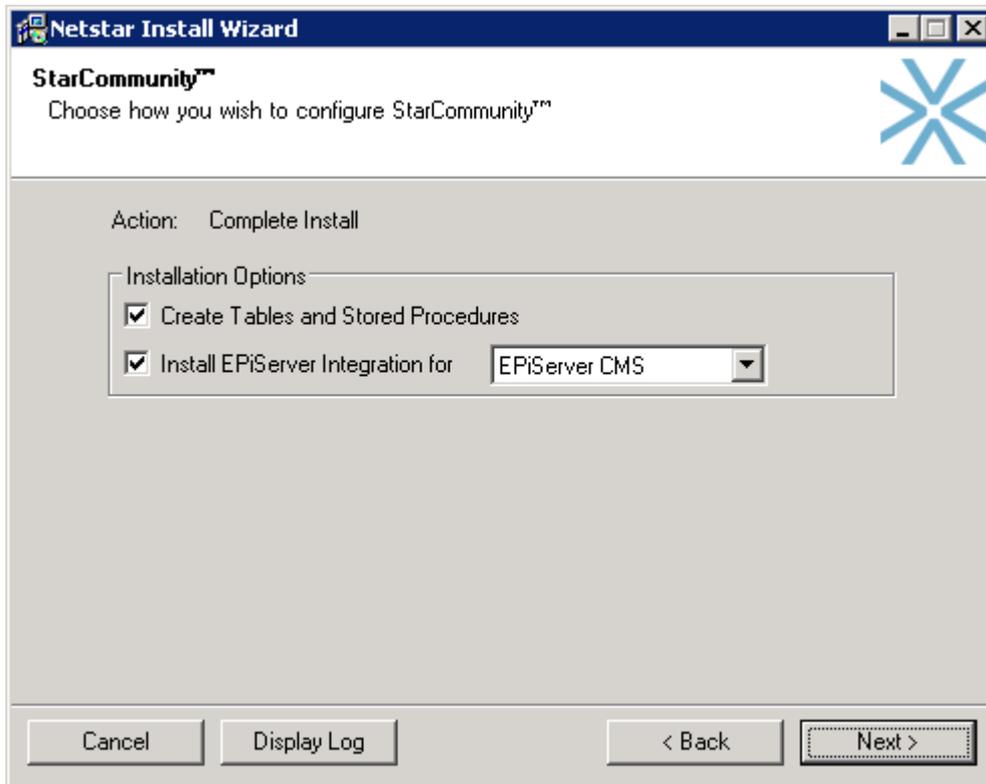
INSTALLATION OPTIONS	
Create Tables and Stored Procedures	The package will create tables and stored procedures in the database that you previously selected.
Install EPiServer Integration	The package will add integration files and settings to your EPiServer CMS installation. Select this option if you are installing onto an EPiServer CMS installation.
	Select your EPiServer CMS version
	Note: The installer automatically checks the "Install EPiServer Integration" checkbox and selects the correct EPiServer version. Change only if the auto detection fails.

Overview

Simply accept the values you have entered and are displayed in this overview and then click **Next**.
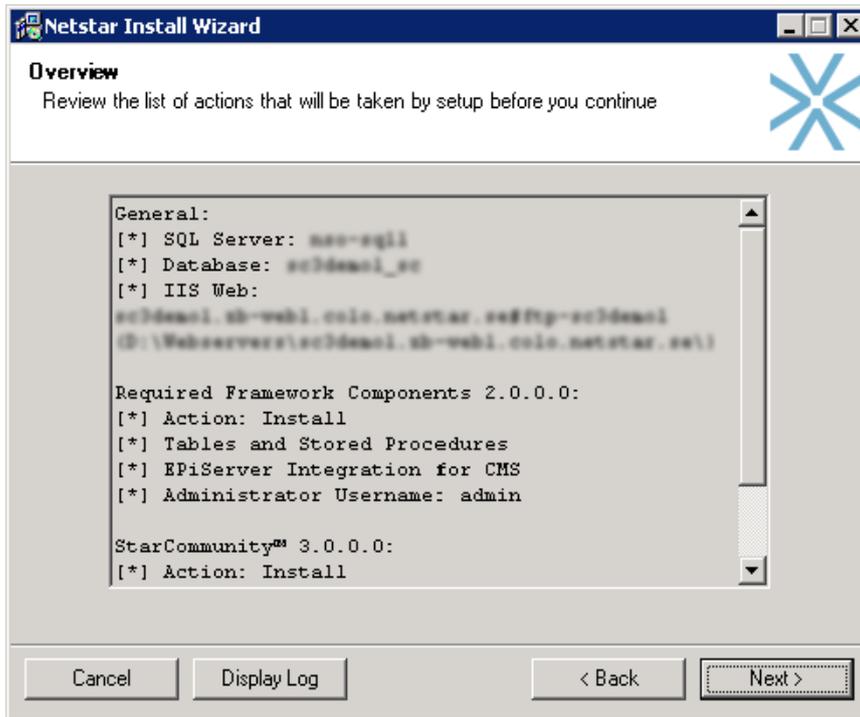
Questions during Installation

Modify Authentication

If you install on to another web application, like a Content Management System such as EPiServer CMS you might get this question.

In most cases answering **No** here is the best decision unless you want the required framework components to override your authentication methods.
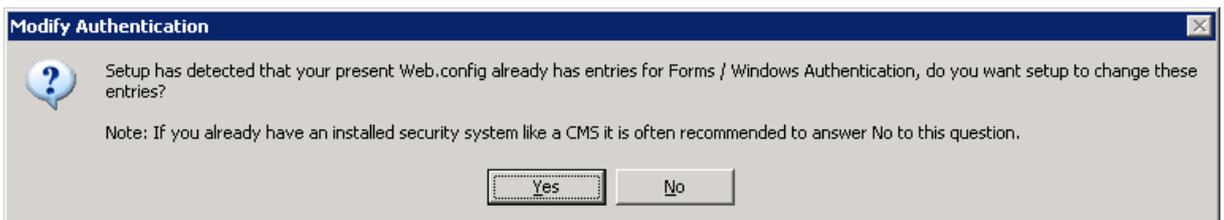
Finished

The installation completed successfully. If you run EPiServer CMS, please see page 12 for further installation instructions. You can now reach the administration system at the URL: http://yourwebsite.com/netstar/admin/or if you run EPiServer CMS log in to Edit Mode and click the "Netstar" tab.

EPiServer specific instructions

For use with EPiServer CMS 4.6x make sure that your website is configured to use ASP.NET 2.0.

EPiServer CMS 5 R1 has a bug that prohibits third party providers from working properly. To circumvent this problem, change the name of the StarSuiteRoleProvider and StarSuiteMembershipProvider to a name that EPiServer CMS recognizes, for example SqlServerRoleProvider and SqlServerMembershipProvider.

Following is a example for a workaround for the EPiServer CMS bug, check your own configuration file and modify it with the right providers and default providers:

```xml
<roleManager enabled="true" defaultProvider="MultiplexingRoleProvider"
cacheRolesInCookie="true">

<providers>

<clear />

<add name="MultiplexingRoleProvider"
type="EPiServer.Security.MultiplexingRoleProvider, EPiServer"
provider1="SqlServerRoleProvider" providerMap1="SqlServerMembershipProvider"
/>

<add name="SqlServerRoleProvider" applicationName="EPiServerSample"
type="StarSuite.Core.Web.Authorization.RoleProvider,
StarSuite.Core.Web.Authorization" />

</providers>

</roleManager>

<membership defaultProvider="MultiplexingMembershipProvider"
userIsOnlineTimeWindow="10">

<providers>

<clear />

<add name="MultiplexingMembershipProvider"
type="EPiServer.Security.MultiplexingMembershipProvider, EPiServer"
provider1="SqlServerMembershipProvider" />

<add name="SqlServerMembershipProvider" applicationName="EPiServerSample"
type="StarSuite.Core.Web.Authorization.MembershipProvider,
StarSuite.Core.Web.Authorization" />

</providers>

</membership>
```

Setting Windows access rights

After installation is complete, altering the basic access rights might be required on your server. The following folders will need the specified securitysetup.

EPiServer Community

/NETSTAR/STARCOMMUNITY/MODULES/IMAGEGALLERY	
Original	The folder where the originals are stored, Write and Modify is required by the IIS user.
Thumbnails	The folder where the thumbnails are stored, Write and Modify is required by the IIS user.

/NETSTAR/STARCOMMUNITY /MODULES/DOCUMENTARCHIVE	
Files	The folder where documents are stored, Write and Modify is required by the IIS user.
	NOTE: To avoid execution of uploaded files (aspx, asp etc) in IIS manager, change execution rights to none on this folder.

/NETSTAR\STACOMMUNITY/MODULES/WEBMAIL	
Path specified in webmail.config	The folder where webmail cache are stored, Write and Modify is required by the IIS user.

Changing default settings after Installation

The default settings are in most cases satisfactory, but sometimes changing these settings may be needed. This section of the document will cover the structure and parameters of the configuration files in EPiServer Community 3.

Following the explanations in this section will allow you to change these settings manually with a text-editor.

Required Framework Components

The default installation of Required Framework Components places its connection string in web.config. If there is already a web.config that includes an external connection string configuration file, Required Framework Components installer places its connection string there under the name "StarSuite".

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CoreConfiguration

/NETSTAR/STARCOMMUNITY/CORECONFIGURATION.CONFIG	
ActivityLog	LogLevel is set to 1=log all, 2=logging turned off and 3=log supported types (default)
Rating	Max rating for all entities
Tag	ArchiveIntervalHours is the interval between archiving/aggregating number of tags (default: 24)
	MaxRelatedTagCount sets the maximum related tags to get via the GetRelatedTags method
	NoiseLevel specifies the cut-off level when a tag with different initial letter should be taken instead of a tag with low popularity (default: 100)
	CacheExpirationMinutes stes the tag cloud cache time (absolute)
	MinItemWeight and MaxItemWeight defines in which interval al TagCloudItems are distributed
	DefaultItemCountis the default number of TagCloudItems to retrieve in a TagCloud

AdminConfiguration

/NETSTAR/STARCOMMUNITY/ADMINCONFIGURATION.CONFIG	
AdministrableType	TypeNames defines for which type the administration URLs should apply
	AddUrl and UpdateUrl defines the URLs to where the types can be added/Updated
	WindowHeight and WindowWidth defines the default size of the admin window (applicable for popups)

ConnectionLink

/NETSTAR/STARCOMMUNITY/MODULES/CONNECTIONLINK/CONNECTIONLINK.CONFIG	
BFSMaxDepth	The maximum number of connections to follow before giving up. -1 means no limit.
ShortestPathCacheTimeMinutes	The expiry time in minutes for the shortest path cache.
LockTimeoutMillisec	The timeout for read and write attempts to the graph. -1 means infinite.

Contact

/NETSTAR/STARCOMMUNITY/MODULES/CONTACT/CONTACT.CONFIG	
ReverseAdd	Mimic add requests on the receiving end, causing automatic two-way friendships.
ReverseRemove	Mimic remove requests on the receiving end, causing automatic two-way ending of friendships.

DocumentArchive

/NETSTAR/STARCOMMUNITY/MODULES/DOCUMENTARCHIVE/DOCUMENTARCHIVE.CONFIG	
PhysicalPath	The physical path where to store the documents.
VirtualPath	The virtual path where to get the documents.

NOTE: To avoid execution of uploaded files (aspx, asp etc) in IIS manager, change execution rights to none on the public folder specified in the VirtualPath. Another option is to put the files in an inaccessible folder and build a proxy to access these files.

Expert

/NETSTAR/STARCOMMUNITY/MODULES/EXPERT/EXPERT.CONFIG	
AutoPublish	If answers should be automatically published after submission.
AnswerMaxRating	The maximum rating available for an answer.
QuestionRelationSymmetric	If relations between questions should be kept symmetric when changes occur.
AssignmentRecommendedMaxDays	The recommended maximum number of days until an expert should have answered a questions. If this time span is exceeded a warning will be displayed.

ImageGallery

/NETSTAR/STARCOMMUNITY/MODULES/IMAGEGALLERY/IMAGEGALLERY.CONFIG	
ImageAbsoluteFilePath	The physical path to the directory where images should be stored.
ThumbnailVirtualFilePath	The virtual path to the thumbnail directory. Thumbnails will be created here from the images in the previously entered directory.
MaxRating	The maximum rating available for an image.
ImgExtension	The image extension and format to use for images. Available extensions are: .jpg, .gif, .png and .tif.
ImgMaxWidth	The maximum width images should be saved in.
ImgMaxHeight	The maximum height images should be saved in.
SaveOriginal	If the original image add to a gallery should be saved for archiving.
MaxUserImageQuota	The maximum number of images allowed to be stored per user.
Tag/ImageAbsoluteFilePath	The physical path to the tag image file.

Tag/HorizontalAlign	The horizontal alignment of the tag. Can be Left or Right.
Tag/VerticalAlign	The vertial alignment of the tag. Can be Top or Bottom.
Tag/Format	The display format of the tag. Can be Exact or Proportional. Proportional tags will be scaled in proportion to thumbnails.
Tag/Canvas/Top	The top canvas in pixels.
Tag/Canvas/Right	The right canvas in pixels.
Tag/Canvas/Bottom	The bottom canvas in pixels.
Tag/Canvas/Left	The left canvas in pixels.
Tag/Canvas/R	The Red component of the canvas color. -1 for transparent.
Tag/Canvas/G	The Green component of the canvas color. -1 for transparent.
Tag/Canvas/B	The Blue component of the canvas color. -1 for transparent.

NML

/NETSTAR/STARCOMMUNITY/MODULES/NML/NML.CONFIG	
Category/Name	The name of the category. A category lets you categorize NML tags by a name, like forum or club. General is the default category and will always be included when parsing NML, even if a different category is specified they will be merged.
Category/Tag/Trigger	The tag name to trigger on.
Category/Tag/PreTemplate	The template to be applied on the opening tag.
Category/Tag/PostTemplate	The template to be applied on the closing tag.
Category/Tag/Attribute/Name	The name of the attribute to trigger on.
Category/Tag/Attribute/DefaultValue	The default value of the attribute if one is not provided.
Category/Tag/Attribute/Template	The template for the attribute.
Category/Tag/Attribute/AllowedValue	Specifies an allowed value for the attribute. Multiple allowed values can be specified..
Category/Tag/Attribute/AllowedPattern	An allowed regex pattern for values entered for this attribute.

OnlineStatus

/NETSTAR/STARCOMMUNITY/MODULES/ONLINESTATUS/ONLINESTATUS.CONFIG	
LoginTimeOut	The time in minutes for a user to be inactive before he is regarded as offline.
TimeOutCheckInterval	The interval in milliseconds the module should check for timed out users.

Webmail

/NETSTAR/STARCOMMUNITY\MODULES/WEBMAIL/WEBMAIL.CONFIG	
DiskCachePath	The path where the webmail cache files should be placed. Please note that the specified folder must have appropriate permissions set. Note: This directory is emptied on startup.

The Cache Replication System

Required Framework Components contains functionality to clear cached data on all remote nodes in a web cluster when that data is cleared locally; this is to make sure that cached data on all nodes is kept synchronized when changes are made. To do this, special UDP datagrams are broadcasted to all nodes.

Port and AlternatePort in the configuration file are the UDP ports that it will try to listen to and send requests to. It is actually bound to only one of these ports, the reason why two ports are configured is that when the application is recycled, it may not be possible to reclaim the same port.

BroadcastAddress should the broadcast address for a locally connected network that all nodes are reachable on.

If Port and AlternatePort are set to 0, cache replication is disabled.

Running multiple EPiServer Community instances on the same server

When running multiple instances on the same server, Port and AlternatePort should, unless it is set to 0, be different for each instance. If, however, several instances run on the same server with the same ports configured, that will cause errors on startup and all instances will not be able to bind their configured ports.

Running EPiServer Community in a Web cluster

When running EPiServer Community in a web cluster you need to share the content of the ImageGallery and DocumentArchive directories between all web servers in the web cluster. These shared directories can be located anywhere as long as they are accessible (with read and write permissions) by all web servers in the cluster. In the example below we create the shared directories on the database server, hereby named "server-sql".

To enable access from the web servers in the cluster to the shared directory you need to create 2 Virtual Directories in the IIS for each web server in the cluster, pointing to the shared directories created on server-sql.

Next step is to create a Virtual Directory in the IIS on each server in the cluster, pointing to the corresponding shared directory, for example "/upload/images/" and "/upload/files/". The IIS user on the web site needs read and write permissions in the shared directories.

The instructions above are not especially related to Netstar products, but are Windows functionality. The configuration may be set up in other ways than the way described above as long as the same result is achieved.

Before proceeding from this point: Make sure that the shared directories are accessible with read and write permissions from all web servers in the cluster via the Virtual Directories.

In this tutorial we assume that there is already a working installation of EPiServer Community on 1 web server, hereby named Web1. The new web server is hereby named Web2.

1. Run the EPiServer Community installer on Web2.

2. Copy all files and folders in the root directory of Web1 web site to the corresponding location on Web2

3. Modify the [*]\Netstar\Modules\Replication\Replication.config on both web servers to enable cache replication.

   - <Name> should be the name of the web server

   - <Instance> must be the same for all web servers in the web cluster

   - <Port> and <AlternatePort> must be the same on all web servers in the cluster.

   - <BroadcastAddress> range must include all web servers in the cluster. Note that the web servers must reside on the same subnet.

4. Modify the [*]\Netstar\StarCommunity\Modules\ImageGallery\ImageGallery.config on both web servers

    - <ImageAbsoluteFilePath>should be absolute path to the shared directory for Image Gallery.Original. For example: \\server-sql\Webshare\Netstar\Images\Original

    - <ThumbnailVirtualFilePath> should be the virtual path to the shared directory for Image Gallery Thumbnails. For example: /upload/Images/Thumbnails

5. Modify the [*]\Netstar\StarCommunity\Modules\DocumentArchive\DocumentArchive.config on both web servers.

    - <PhysicalPath> should be the physical path to the shared directory for Document Archive Files. For example: [*]\Netstar\StarCommunity\Modules\DocumentArchive\Files.

    - <VirtualPath> should be the virtual path to the shared directory for Document Archive Files. For example: /upload/files

Now you may set up the load balancing.