

Contents

Document History.....	1
Introduction.....	1
New and improved	2
Data Connection Service.....	2
Synchronization service improvement.....	2
Distribution server	2
Deploy an Offline Distribution Server.....	2
Define Distribution server scope	8
Use nearest WSUS server	8
Authentication when nearest server is calculated.....	8
Package view	9
Scripting Library update	10
Metering History.....	11
System Notification	13
OS Deployment.....	13
CapaInstaller Setup Wizard	14
Minor changes	14

Document History

This document is written in January 2011 by Jan Koch (CTO)

Introduction

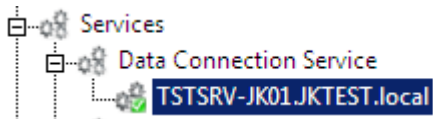
The following document contains an overview of new and improved features in the CapaInstaller Service update 1 - 2011.

New and improved

In the following sections new and improved features are listed

Data Connection Service

The Data Connection Service is a new infrastructure service that create a connection from http(s) enabled services (currently the Synchronization service and the PXE service) to the database.



The service is deployed using the system plugin.

Synchronization service improvement

The synchronization service has been improved to support http(s) when packages and OS components are synchronized between two servers. This new functionality enables customers to utilize the internet when branch office servers are to be updated.

Distribution server

A new server type “Distribution server” has been implemented in CMS. The server doesn’t handle unit requests it simply hold packages, OS components (models and images) and possible a WSUS replica server. The server can be deployed via the standard method offered by the system/OSD plugin or offline. The Distribution Server utilizes the improved synchronization service along with the Data Connection Service. Therefore the “Data Connection Service” has to be deployed before a Distribution Server can be deployed.

Deploy an Offline Distribution Server

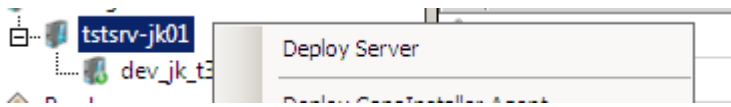
The Distribution Server can be deployed using an “Online installation” method or an “Offline installation” method. The installation method is defined when the server is created using the system administration plugin. In both cases the server is registered in the database but only deployed if the “Online installation” method is chosen. If the offline method is chosen it is possible to deploy the server later on either manually or automatically using the Configuration Management plug in (this feature will be available shortly).

To deploy a distribution server which holds both packages and OS deployment components the following steps has to be completed:

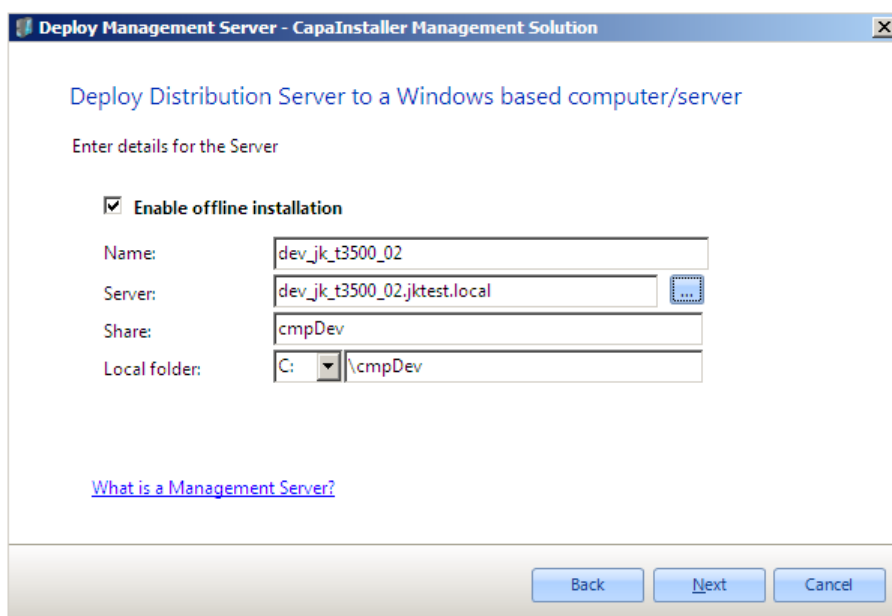
- 1) Deploy a Data Connection Service
- 2) Create offline Distribution Server.
- 3) Create offline OS Deployment server
- 4) Build the offline installation kit
- 5) Install the offline server

Create offline distribution Server.

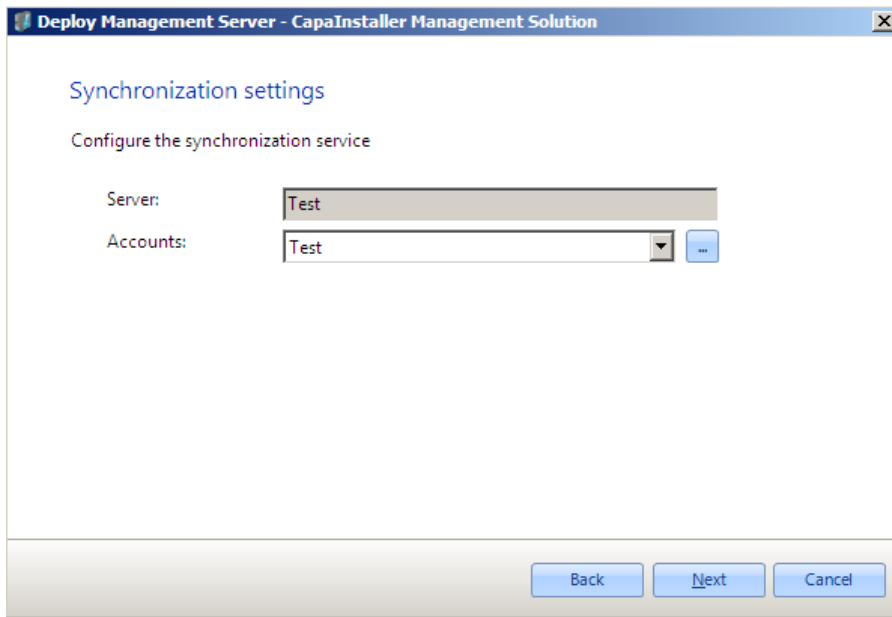
a) From the System plugin select “Deploy Server” and “Deploy Distribution Server”.



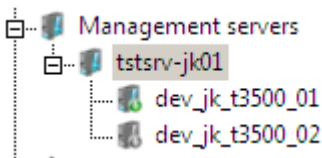
➔ **Deploy Distribution Server to a Windows based computer/server**
 The Distribution Server caches packages to minimize bandwidth utilization during deployment



b) To do an “Offline installation” select “Enable offline installation”



- c) To establish a connection to the database the synchronization service has to connect to the Data Connection Service. This connection requires authentication. Using this form it is possible to specify the account to be used.
- d) When the server has been created in the database, it is listed along with the other management servers. The UI will display a special icon for offline servers.

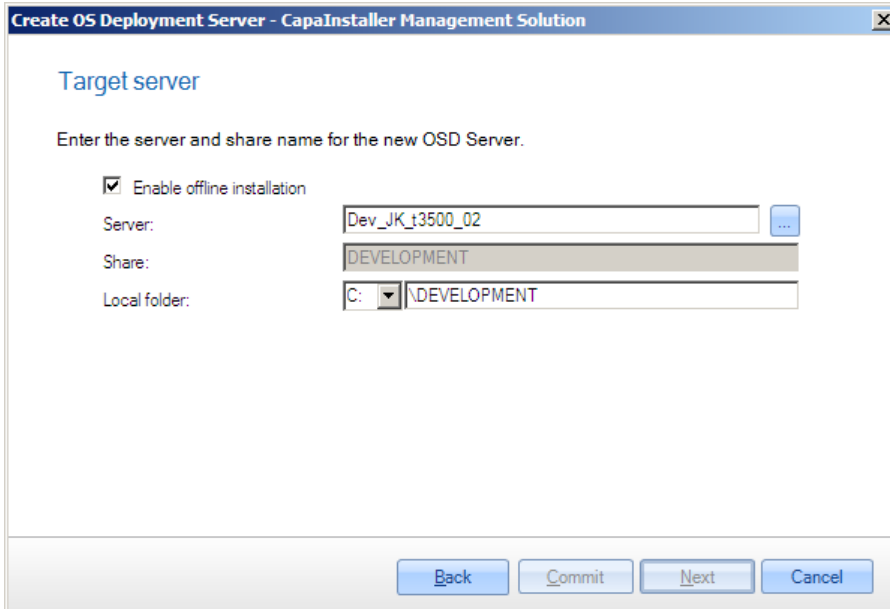


- e) The Distribution server is illustrated using the following icon.



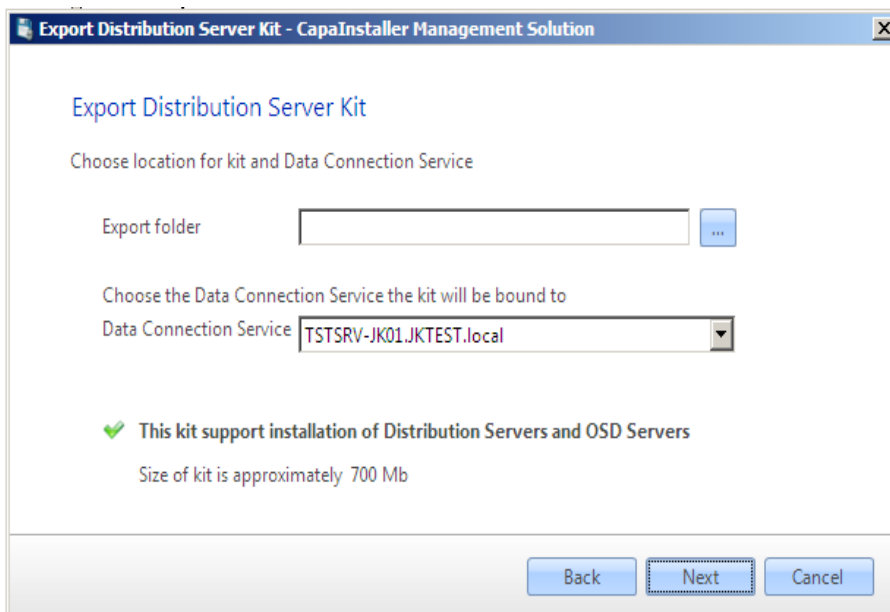
Create offline OS Deployment server

- a) Create OS Deployment server plugin select "Create OS Deployment Server"

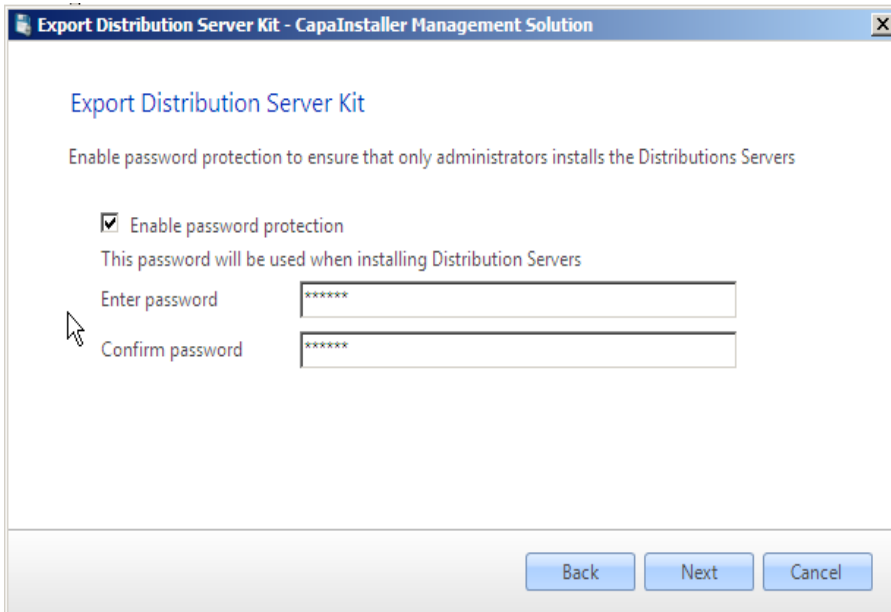


Build the offline installation kit

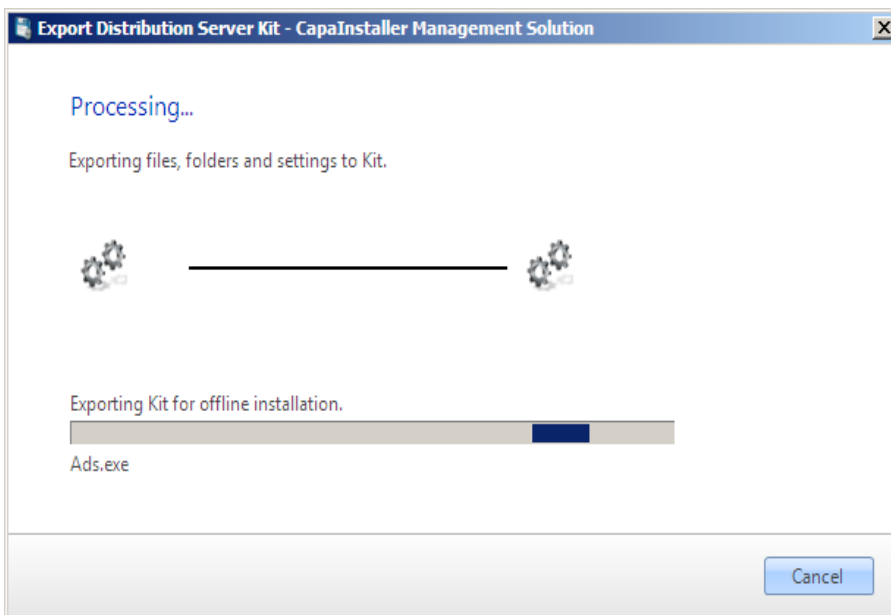
- a) Build an offline kit using the "Export install kit" button located in the toolbar. The install kit holds the files needed to build a "Distribution Server" and/or an OS Deployment server. Copy the media to the server where the Distribution server is going to be installed and start ciServerInstallerGUI.exe in a privileged context.
- b) Specify the folder where the Distribution Server kit should located after export



c) To prevent everyone from using the install media an installation password can be specified.



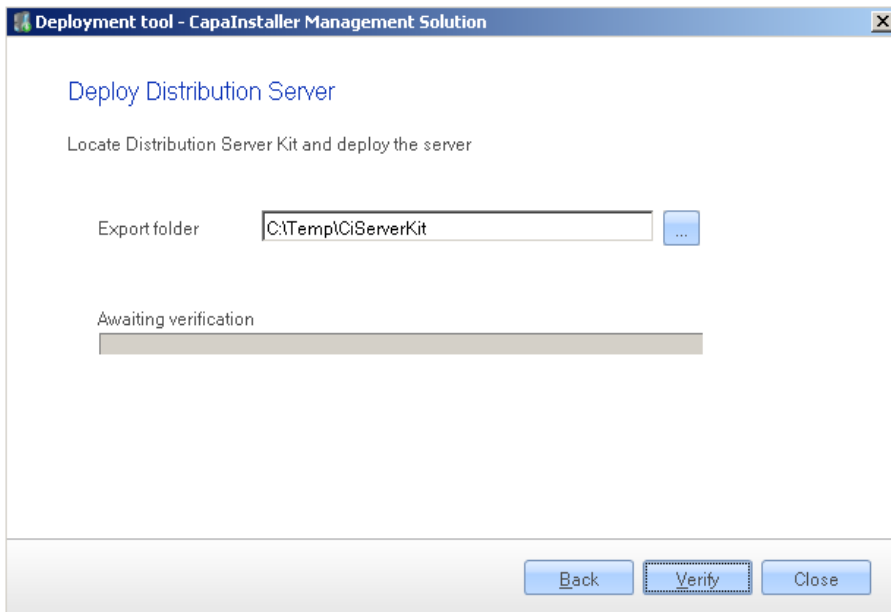
d) The media is build



Install the offline server

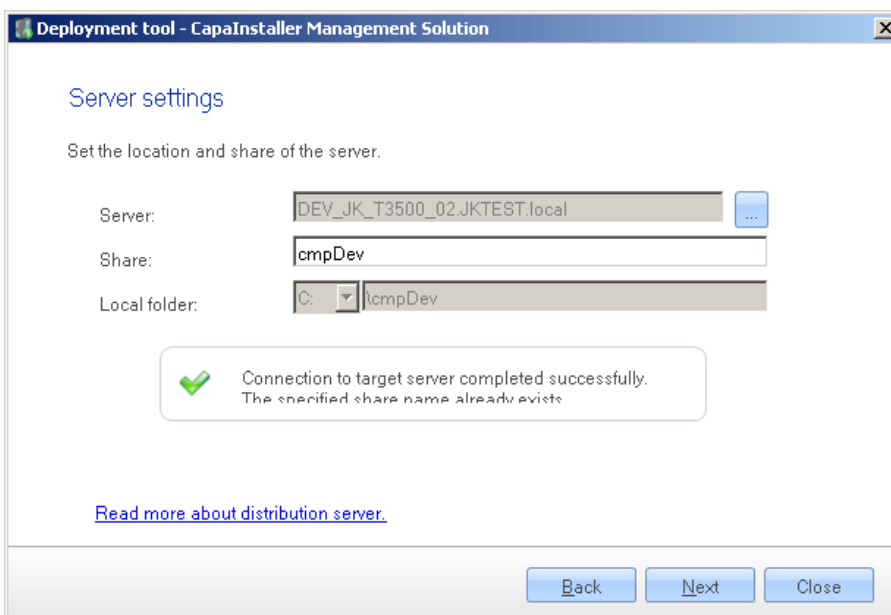
Install the offline server from the exported media. The server installation can be done using a tool with a simple user interface

- a) Copy the media to the server where the Distribution server is going to be installed and start ciServerInstallerGUI.exe in a privileged context.
- b) Define media location

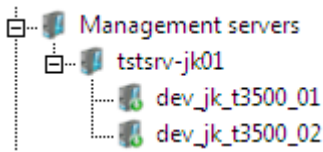


Enter Install kit password (If specified)

- c) Specify share name



d) The server is marked as online in the console.



The distribution server is now installed. To specify which clients should download contents from the server specify IP ranges or the MAC address of the default gateway (see separate section).

Define Distribution server scope

A Distribution server and a Management server can service defined networks. This information can be specified as a property for the server (named "Distribution points"). If branch office networks use the same IP addresses internally (e.g. 192.168.1.x) it's possible to specify the MAC address for the default gateway. Hereby the client will always be able to download content from the nearest server

Use nearest WSUS server

If both WSUS and WSUS replica servers has been implemented in the infrastructure the Hotfix Installer package will locate the nearest WSUS replica server if "Distribution points" for the server has been defined and WSUS replica integration is enabled

Authentication when nearest server is calculated

The agent has been improved to support non/cross domain scenarios. If an agent or one of the package installations wants to download content from a distribution server (Workgroup/foreign domain) it is necessary to authenticate. The credential used can be specified via tools/options in the CMS Console

Agent user access

This user allow agents to access Distributions Servers.

Enable

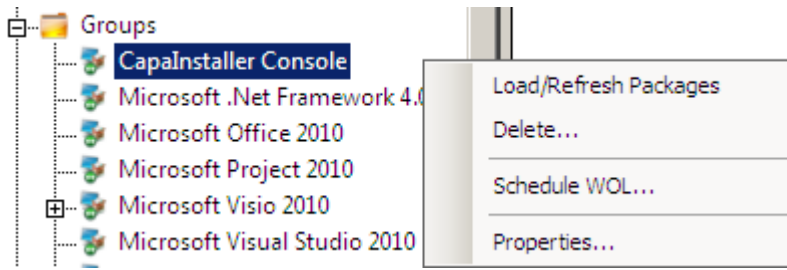
User name:

Password:

Retype password:

Package view

For a CMS group it is possible to load linked package and thereby view status for attached unit(s).



Be aware that a “refresh” is needed to update the view if packages are added to the group after load.

Scripting Library update

The following functions have been implemented.

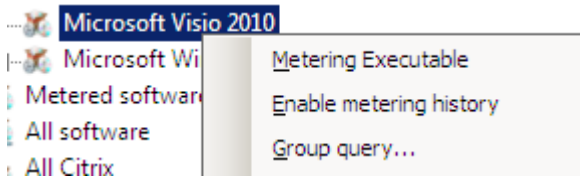
Function	Description
Sys_GetMac(sIp)	Find MAC address for unit identified by ip address
Reg_Getx64String(sHandle,sKey,sVariable,bMustExist)	From 32 bit environment get 64 bit environment registry variable (String)
Reg_Setx64String(sHandle,sKey,sVariable, sValue)	From 32 bit environment set 64 bit environment registry variable (String)
File_CopyFile	Support http with CapaInstaller Agent configured to use http
File_ExistFile	Support http with CapaInstaller Agent configured to use http
Function CMS_RerunAgent()	Rerun agent. If the function is called from a running agent the agent will be rerun
CMS_RunSystemAgent()	– Rerun systems agent – The method can be invoked from any code running on the client
PS_GetExecutionPolicy()	Get Powershell script Execution policy
PS_IsScriptAllowedToRun(sScript,bSigned,bRunUnrestricted)	Is the script allowed to run with current execution policy
PS_ExecuteCommand(sCommand)	Execute Powershell command
PS_ExecuteScript(sScript,sScriptArg,bSigned,bRunUnrestricted)	Execute powershell script

For further information check the online help

(http://www.capainstaller.com/index_750.asp?page=251&page2=252).

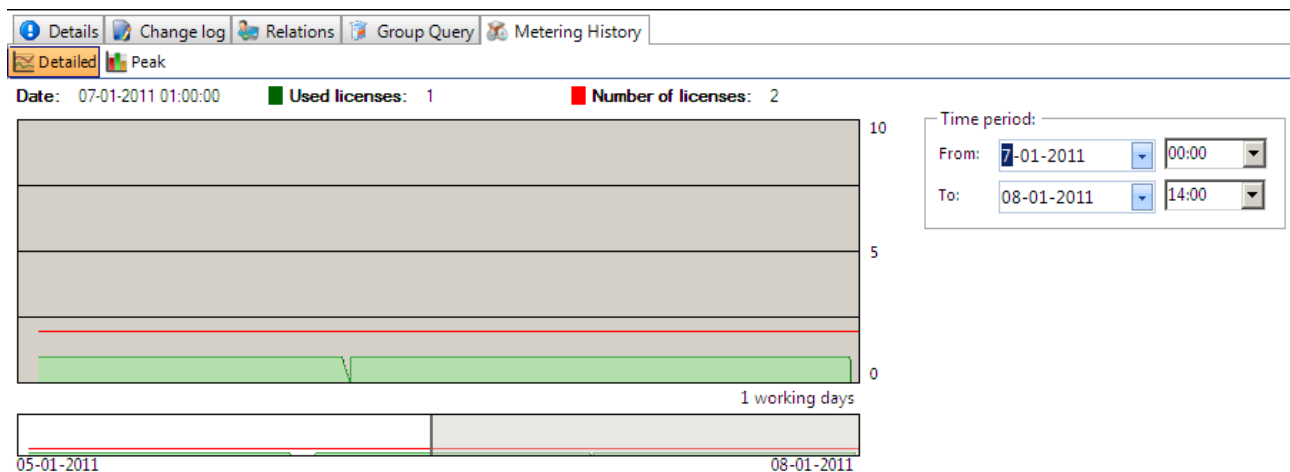
Metering History

Metering Hhistory is now a built in feature which can be used to lower costs for application licensed by concurrent usage. Metering History is enabled for an application from the Asset Management plugin by selecting "Enable metering history".

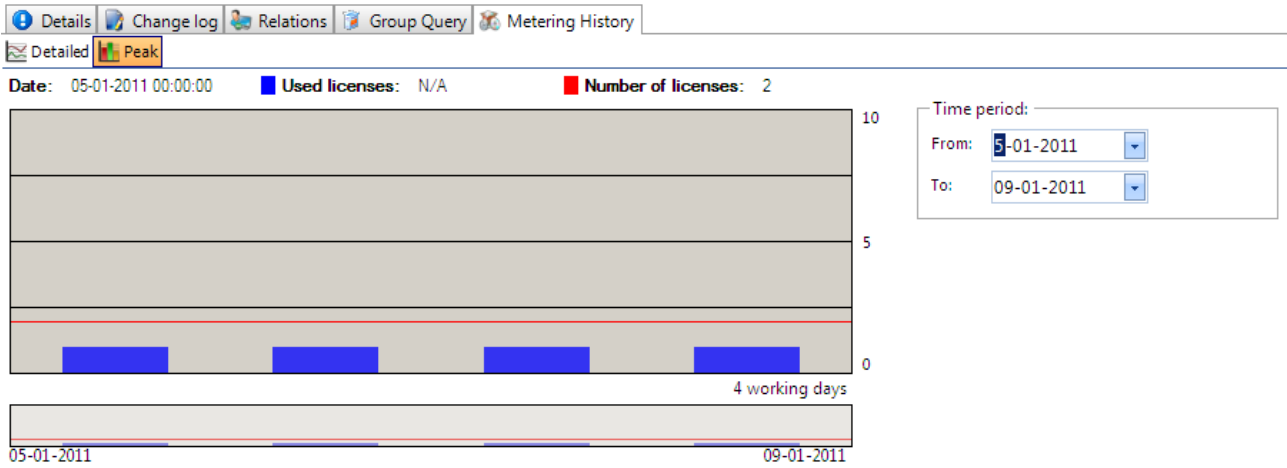


The metering history implementation has the following feature set:

- The metering agent installed on every computer will collect and store information about metered applications start/stop
- When the CapaInstaller agent is executed the metering history collected is uploaded to the Management server and stored in the database.
- Once a day the Replicator service will accumulate the collected data and update the database.
- If a computer reports an application startup but not an application end, the replicator will automatically insert an application end after 23 hours. If the computer is online the metering agent will afterwards insert an application start if the application is still running. If the computer is offline it will deliver an updated application usage when it comes online. Thereby issues with offline usage are handled.
- A graphical representation of the application usage data is available in the Asset Management and Reporting and Queries plugins.



- Peak values are calculated based on the collected data.



- Application usage can also be deployed to reporting services and viewed in a browser

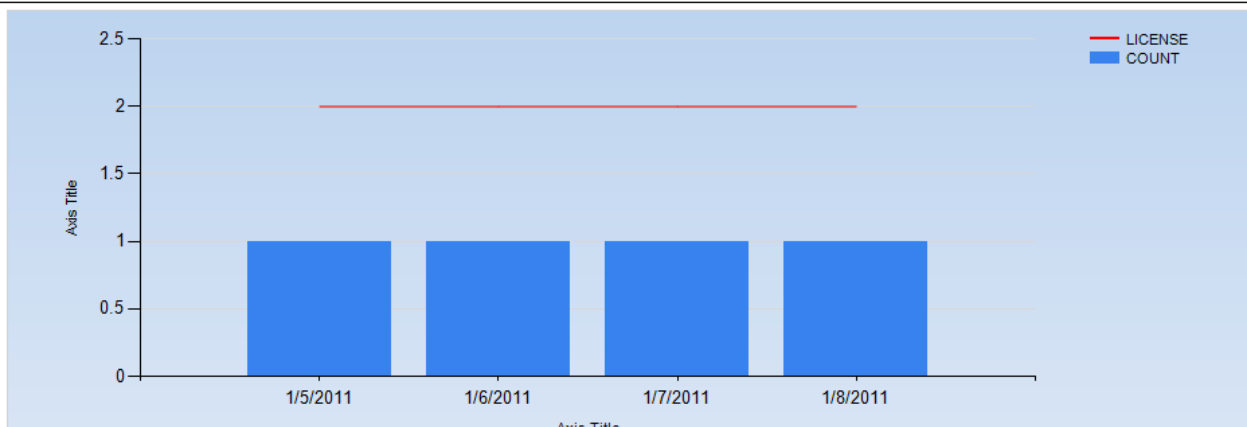


CapaSystems

Metering history

Software: Calculator

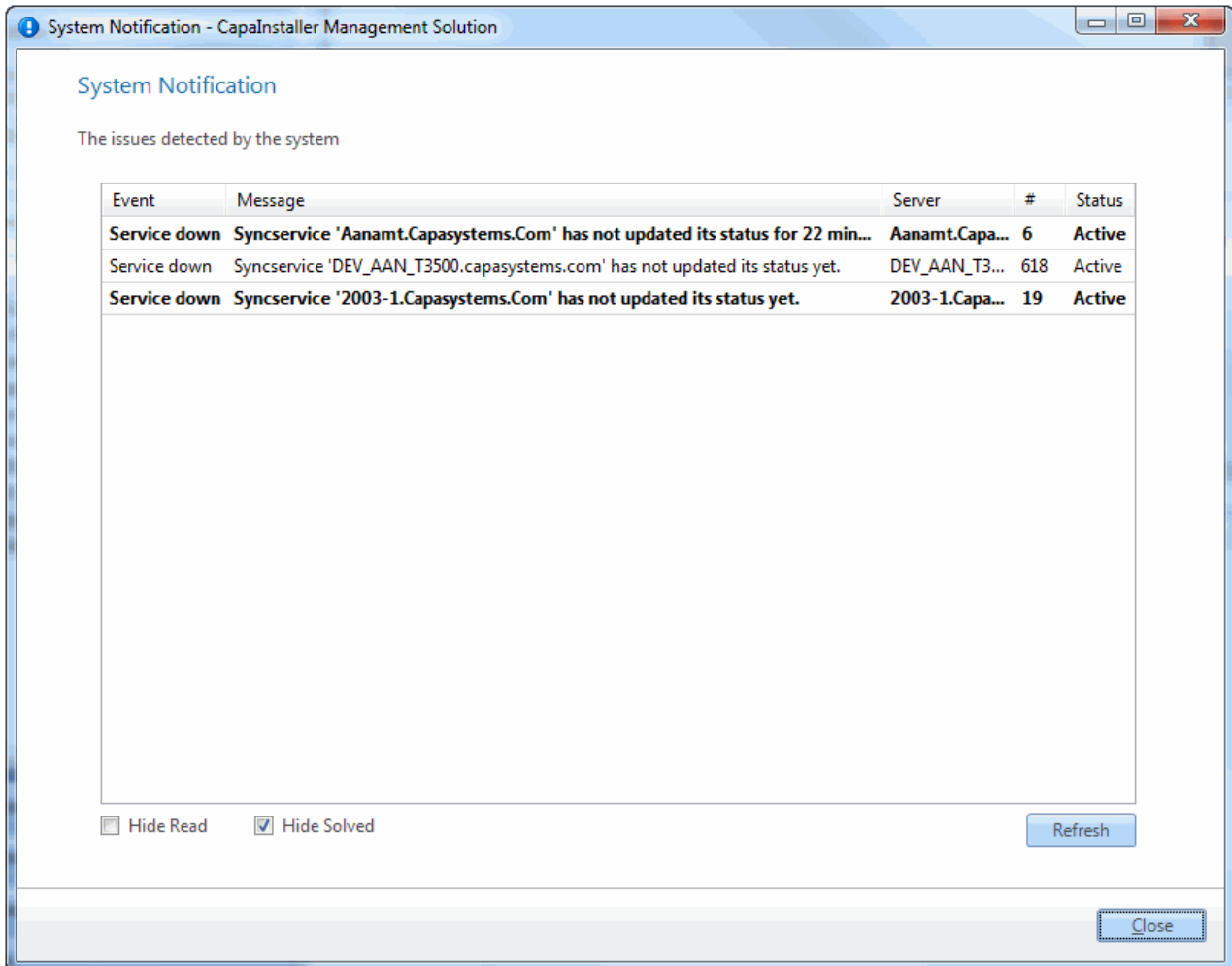
Report generated: 1/10/2011 16:54



System Notification

System Notification is a view where it's possible to see system related challenges. In the CMS Console a notification indicator is visible in the lower right corner. The indicator can either display a green or a red status and the number of incidents.

Selecting the System notification indicator will display detailed information about current status.



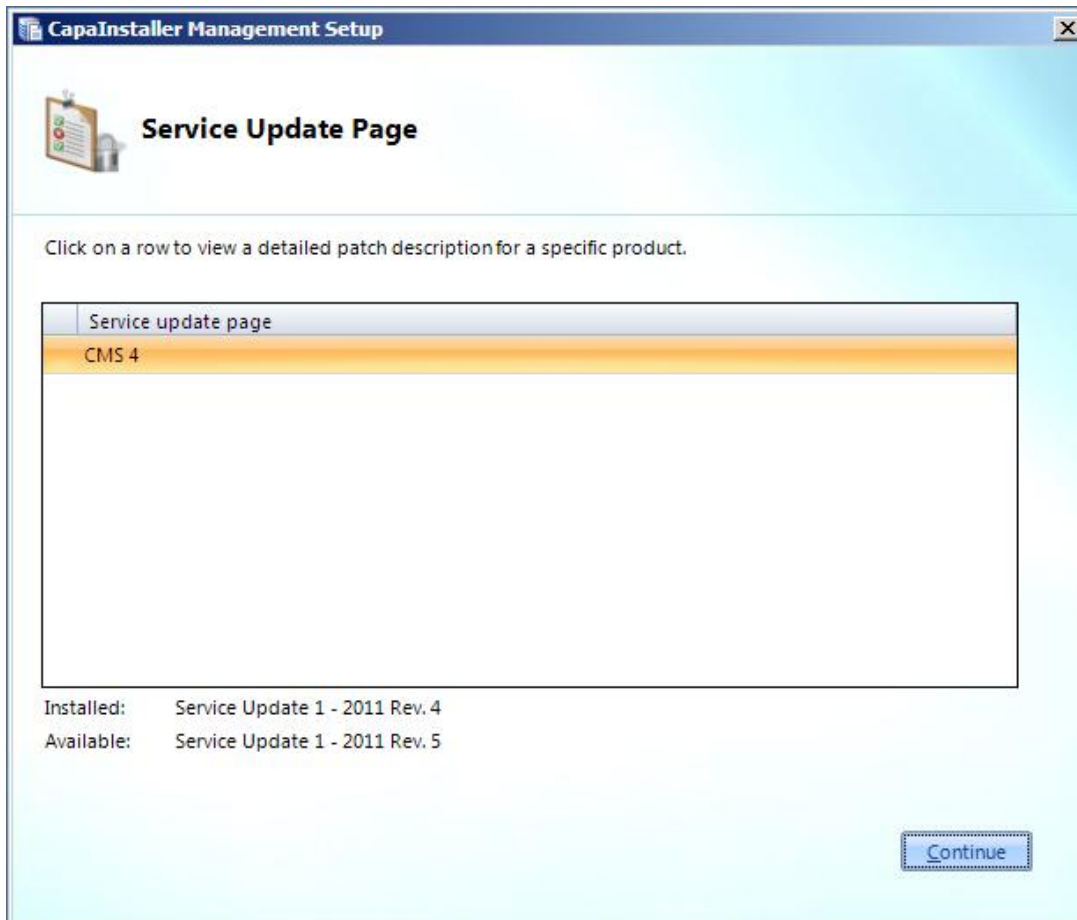
OS Deployment

The following changes has been made

- 1) It's possible to define which images and models that should be available on an OSD server
- 2) An OSD Server can be deployed "offline". Using this method it is possible to define the server in the database and later on deploy the server manually.
- 3) An OSD Server can be synchronized via the http/https protocol. This requires that a Data Connection Service has been deployed.

CapaInstaller Setup Wizard

The setup wizard has been improved. When a Service update is applied it is possible to get information about installed and available Service update.



Information about installed Service Update is furthermore available via the about form in the CMS Console.

Minor changes

Various bugs have been fixed. For further information see <http://serviceupdate.capasystems.com>