

ComTrade Management Pack for EMC Documentum for Microsoft System Center Operations Manager (EMC Documentum MP)

User's Guide

Version 01.10

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Notices

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Chapter 1

Document Overview

Edition History

New editions are complete revisions of the manual. The printing dates for each edition are listed below.

Edition	Date
1st Edition	May 2012
2nd Edition	July 2012
3rd Edition	April 2014
4rt Edition	June 2014

Table 1. Document editions

Conventions

The following typographical conventions are used in this manual:

Font	Definition	Example
<i>Italic</i>	Product names, book or manual titles, man page names, and section, table, and figure titles. Emphasis. Window and dialog box names.	For additional information, refer to <i>EMC Documentum MP Supported Platforms Guide</i> . You <i>must</i> follow these steps. In the <i>Node Bank</i> window, select a node.
Bold	Commands on menus and buttons, dialog box titles and options, menu and icon names.	In the menu, first click Actions , and then Agents .
<i>Bold Italic</i>	Note and Important text.	<i>For detailed information, refer to EMC Documentum MP User's Guide.</i>
Computer	File names, syntax, directory names, or text that should be entered on screen or that is displayed on the monitor.	The following file is located on the root directory of the EMC Documentum MP installation CD: <code>dmmp-release-notes.txt</code> .

Table 2. Typographical conventions

The following naming conventions are used:

Name	Description
ComTrade Management Pack for EMC Documentum for Microsoft System Center Operations Manager	Product name.
EMC Documentum Management Pack(s)	Product short name. Usually used in everyday language, when speaking about the product.
EMC Documentum MP	Product short name. Usually used in this and other documents instead of the whole product name.
ComTrade DMMP, or DMMP	Abbreviation for the product. Used in file names and similar.

Table 3. Naming conventions

Product Documentation

With EMC Documentum MP, the following documentation is provided:

- **EMC Documentum MP User's Guide**
This guide is available in printed and PDF format (*ComTrade_DMMP_UserGuide.pdf*).
- **EMC Documentum MP Supported Platforms Guide**
Supported Platforms document is available in PDF format
(*ComTrade_DMMP_SupportedPlatforms.pdf*).
- **EMC Documentum MP Reference Guide**
This guide is available in HTML format (*ComTrade_DMMP_ReferenceGuide.html*).
- **Release notes**
Release notes are available in TXT format (*ComTrade_DMMP_ReleaseNotes.txt*).
- **Software License and Support Terms**
Software license and support terms are available in TXT and PDF format
(*ComTrade_Software_License_Support_Terms.txt*,
ComTrade_Software_License_Support_Terms.pdf).

Customer Support

Use the following E-mail and web page addresses if you need any help with the licensing process or while using the product, and if you would like additional information about this or other ComTrade products.

Product Web Sites

Visit EMC Documentum MP web site at:

http://www.managementproducts.comtrade.com/management_pack/emc_documentum/

and ComTrade web site at:

www.comtrade.com

Licensing

To obtain the license activation file, send an E-mail with license request files to the ComTrade licensing department at:

mp-licensing@comtrade.com

Use the same E-mail address if you have any questions about the licensing process.

Contacting Support

IMPORTANT

Should you require additional assistance or information while using the product, contact the vendor who shipped the software.

If you have purchased the software directly from ComTrade, send an E-mail to:

support-dmmp@comtrade.com

Before Contacting Support

Before you contact the support department, have the following information available, so that a technical support analyst can work on your problem more efficiently: the support file `DMMPSupport_<nodename>.zip`.

To create the `DMMPSupport_<nodename>.zip` file, run the **Collect Support Information for Comtrade DMMP Agent** tool on the managed nodes for which you would like to collect the information. The files with support information are created in the following directory: `%ProgramData%\ComTrade\MP for EMC Documentum`.

Describe also the following:

- *Sequence of events leading to the problem*
- *Commands and options you used*
- *Messages you have received (a description with time and date)*

General Information

For product business or purchase-related questions regarding this or other ComTrade products, send an E-mail to: mp-info@comtrade.com

Feedback

Send suggestions and comments about this document or product to managementpacks-helpdesk@comtrade.com.

We will be glad to hear from you!

Chapters Summary

This guide describes how to use EMC Documentum MP for monitoring and management of the EMC Documentum application resources.

NOTE

This document assumes that you are familiar with Microsoft System Center Operations Manager and basic EMC Documentum administration procedures and concepts.

The guide contains the following chapters:

- [“Quick Introduction” on page 15](#)
- [“Installation and Configuration” on page 21](#)
- [“Uninstallation” on page 39](#)
- [“Usage” on page 45](#)
- [“Disabled by Default” on page 75](#)
- [“Scripts” on page 81](#)

Chapter 2

Quick Introduction

About EMC Documentum

EMC Documentum is a comprehensive enterprise content management platform for ordering the flow and delivery of structured and unstructured business information across an extended enterprise. EMC Documentum content management solution solves a range of strategic business issues and covers the entire process from creation or capture, categorization, and electronic storage through just-in-time delivery and archiving. Based on an extensible, open, scalable, and secure architecture that meets the needs of global, distributed organizations, Documentum comprises a set of integrated products and services that work together in varying combinations. The Documentum platform provides products for each area related to content management: Enterprise Content Management, Web Content Management, Digital Asset Management, Record Management, Business Process Management, Collaboration and Compliance.

Typical Setup of EMC Documentum

The main components of Documentum are:

Repository

A collection of content files and metadata that is managed as a single entity. Usually consists of one or more files systems and a RDBMS. Can also include an XML Store (from D6.5) and other more esoteric options like EMC Centera. Some people include the Full-text index as part of the repository (docbase).

Content Server

Servers are processes that provide client access to the repository. Every repository must have at least one active server. If a repository does not have an active server, then users cannot access that repository. Servers are accessible for users via Connection Broker which keeps a list of active Servers. To stay on the list, each Server has to check-in with the Connection Broker at regular intervals otherwise it is dropped from the list after a specified period of time. Availability of the Server process is vital for the health of your Documentum environment.

Broker

The Documentum Connection Broker is a process that provides client sessions with connection information. When a client session is opened, the client contacts the Connection Broker and requests the information it needs to connect with a server for the requested repository.

Index Server

Documentum Index Servers like FAST and xPlore are components that provide indexing and search capabilities.

Index Agent

Documentum component that exports documents from a repository and prepares them for indexing.

About EMC Documentum MP

EMC Documentum MP is an availability and performance management solution that extends the end-to-end service monitoring capabilities of the Microsoft System Center Operations Manager to include the Documentum infrastructure.

With EMC Documentum MP you can:

- ***Improve the EMC Documentum infrastructure availability and health***
The Content Server and Broker availability is being checked with connectivity probing and active service checks. It is important that users are able to connect to their Content Server and repositories and to work with content. With information provided you can quickly identify Content Server hosts that are not available, you can identify user sessions that are consuming large amounts of resources, as well as isolate jobs failing to finish.
- ***Gain more insight into the EMC Documentum performance and usage information***
It is critical to know how users are using the Documentum components in order to be able to tune it accordingly. With EMC Documentum MP you will get more insight into how many users are connected to the Content Servers, if Content Server is able to handle all user requests accordingly.

EMC Documentum MP fully integrates the topology, health, and performance data into the **System Center Operations Manager console**.

It provides centralized monitoring in the Microsoft System Center Operations Manager and covers the following key scenarios:

- ***Are all Content Servers up and running?***
- ***Is the infrastructure (e.g., Brokers, Method Services, etc.) operational?***
- ***Do users have issues working with documents (e.g., can users insert documents, checkout and check in documents. Can documents be searched)?***
- ***Are there any events that indicate a problem with EMC Documentum?***
- ***Have any performance thresholds been violated?***

Product Architecture

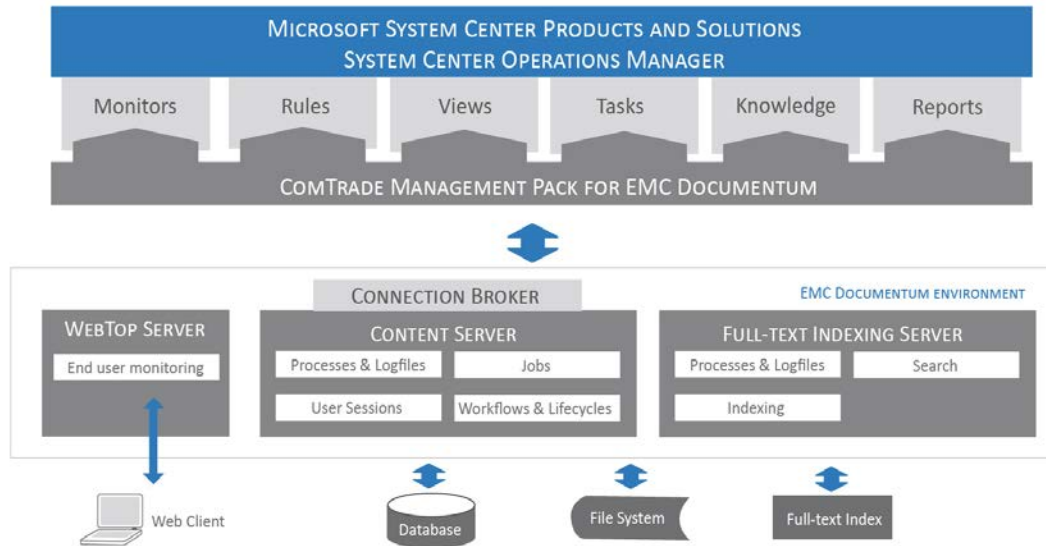


Figure 1. EMC Documentum MP high-level architecture

Chapter 3

Installation and Configuration

Installation and Configuration Overview

The following chapter summarizes procedures to install, configure, and license EMC Documentum MP. Make sure to read and perform all steps, otherwise the product may not work properly:

1. To check system requirements, refer to the [“Prepare for Installation” on page 23](#) section.
2. To install EMC Documentum MP on the Management Server, refer to the [“Install EMC Documentum MP on Management Server” on page 26](#) section.
3. To verify EMC Documentum MP installation on the Management Server, refer to the [“Verify Installation on Management Server Side” on page 27](#) section.
4. To create a new Management Pack in which you store overrides and other customizations, refer to the [“Create a New Management Pack for Customizations” on page 29](#) section.
5. To install EMC Documentum Management Pack on the Agent side, refer to the [“Install EMC Documentum MP on Agent Side” on page 29](#) section.
6. To verify the installation on the Agent side, refer to the [“Verify Installation on Agent Side” on page 33](#) section.
7. To configure the connection to EMC Documentum pools, refer to the [“Configure EMC Documentum MP” on page 34](#) section.
8. To perform the licensing procedure, refer to the [“Product Licensing” on page 36](#) section.

Prepare for Installation

The following must be ensured before you start with EMC Documentum MP installation:

- *Check if EMC Documentum MP supports your EMC Documentum components and Microsoft System Center versions*
- *Make sure that Microsoft System Center Operations Manager is correctly installed on the Management Server*
- *All machines with EMC Documentum components installed are added to Operations Manager as managed nodes*
- *Complete EMC Documentum configuration data is available*
- *EMC Documentum MP installation package is available*

Prepare Hardware and Software

Before installing EMC Documentum MP, make sure that all hardware and software requirements have been met.

Hardware Requirements

Management Server and Operations Manager Agent managed nodes hardware requirements can be found on Microsoft System Center Operations Manager web pages and in product's manuals.

EMC Documentum hardware requirements can be found in documentation provided with EMC Documentum Content Server and xPlore Index Server products.

Software Requirements

EMC DOCUMENTUM MP IMPORT REQUIREMENTS

Custom management packs usually have dependencies on some of the default management packs. The sealed EMC Documentum management packs have the below listed dependencies.

ComTrade Management Pack for EMC Documentum Core Library (1.0.10.10):

- Microsoft SystemCenter Library 6.0.5000.0
- Microsoft Windows Library 6.0.5000.0
- System Health Library 6.0.5000.0

- System. Library 6. 0. 5000. 0

ComTrade Management Pack for EMC Documentum for Windows (Discovery) (1.0.10.10):

- ComTrade. EMC. Documentum. Library 1. 0. 10. 10
- Microsoft. SystemCenter. Library 6. 0. 5000. 0
- Microsoft. SystemCenter. NTService. Library 6. 0. 6278. 0
- Microsoft. Windows. Library 6. 0. 5000. 0
- System. Health. Library 6. 0. 5000. 0
- System. Library 6. 0. 5000. 0
- System. Performance. Library 6. 0. 5000. 0

ComTrade Management Pack for EMC Documentum Content Server for Windows (Monitoring) (1.0.10.10):

- ComTrade. EMC. Documentum. Library 1. 0. 10. 10
- ComTrade. EMC. Documentum. Windows. Discovery 1. 0. 10. 10
- Microsoft. SystemCenter. DataWarehouse. Library 6. 0. 5000. 0
- Microsoft. SystemCenter. Library 6. 0. 5000. 0
- Microsoft. SystemCenter. NTService. Library 6. 0. 6278. 0
- Microsoft. Windows. Library 6. 0. 5000. 0
- System. ApplicationLog. Library 6. 0. 5000. 0
- System. Health. Library 6. 0. 5000. 0
- System. Library 6. 0. 5000. 0
- System. Performance. Library 6. 0. 5000. 0

ComTrade Management Pack for EMC Documentum xPlore Index Server for Windows (Monitoring) (1.0.10.10):

- ComTrade. EMC. Documentum. Library 1. 0. 10. 10
- ComTrade. EMC. Documentum. Windows. Discovery 1. 0. 10. 10
- Microsoft. SystemCenter. DataWarehouse. Library 6. 0. 5000. 0
- Microsoft. SystemCenter. Library 6. 0. 5000. 0
- Microsoft. Windows. Library 6. 0. 5000. 0
- System. ApplicationLog. Library 6. 0. 5000. 0
- System. Health. Library 6. 0. 5000. 0
- System. Library 6. 0. 5000. 0
- System. Performance. Library 6. 0. 5000. 0

For a detailed list of management pack dependencies please refer to *EMC Documentum MP Reference Guide*.

REDISTRIBUTION PACKAGE REQUIREMENTS

- **Microsoft .NET Platform 2.0 and above**
- **Microsoft Visual C++ 2008 SP1 Redistributable Package (x86), can be downloaded from: <http://www.microsoft.com/en-us/download/details.aspx?id=29>**

NOTE

Default management packs listed above should not be removed from an System Center Operations Manager Management Group due to the mentioned dependencies. If this removal does occur,

default management packs can be imported from the System Center Operations Manager installation directory.

Supported Configurations

EMC Documentum MP supports the following Microsoft System Center configuration:

- **Microsoft System Center Operations Manager 2007 SP1 and above**
- **SQL Server 2005, SQL Server 2008, and SQL Server 2008 R2**
- **Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2**

On the Documentum Content Server side, it supports the following configuration:

- **Content Server 6.x on Windows platforms**

On the Documentum Index Server side, it supports the following configuration:

- **xPlore Index Server 1.x on Windows platforms**

NOTE

Indexing availability, latency, and most other Indexing Server related functionality is available for Index Servers installed on any supported platform of any type (FAST or xPlore). In these cases EMC Documentum MP is monitoring Index Server remotely from a Content Server.

Obtain Installation Package

To obtain the EMC Documentum MP installation package, go to the ComTrade product download page:

http://www.managementproducts.comtrade.com/product_download/Pages/default.aspx?from=Documentum+Management+Pack

and download the latest EMC Documentum MP installation package.

IMPORTANT

To circumvent possible CPU spikes on the Windows Server 2003 SP1 or SP2 agents, apply the following Microsoft hotfix: [WSH binaries are overwritten by Windows File Protection after you install Windows Script 5.7 on a computer that is running Windows Server 2003 or Windows XP.](#)

EMC Documentum MP Installation and Configuration

For instructions about importing a Management Pack, see [How to Import a Management Pack in Operations Manager 2007](#).

Installation Overview

1. Install EMC Documentum MP on the Management Server.

NOTE

After the management packs are imported, all Documentum servers that are possible candidates for monitoring should be discovered at the top of the 'ComTrade EMC Documentum > Maintenance > Documentum Computers' dashboard view.

2. Configure and License EMC Documentum MP on the Management Server:
 - Set up Run As Accounts
 - Create proxy, etc.
 - Configure Connection Brokers and repositories
 - License EMC Documentum MP for selected Documentum servers.
3. Set up the prerequisites for the Agent side installation:
 - Set environment variables.
4. Install EMC Documentum MP on the Agent side.

Install EMC Documentum MP on Management Server

To import EMC Documentum MP and install it on the Management Server, perform the following steps:

1. Login to the Management Server as a local and a System Center Operations Manager administrator.
2. Launch the `DMP_01.10.exe` setup package.

3. Navigate through the *installation wizard* and install the package.
4. Setup can automatically import the following management packs:
 - ComTrade Management Pack for EMC Documentum Core Library
 - ComTrade Management Pack for EMC Documentum for Windows (Discovery)
 - ComTrade Management Pack for EMC Documentum Content Server for Windows (Monitoring)
 - ComTrade Management Pack for EMC Documentum xPlore Index Server for Windows (Monitoring)

How to Manually Import EMC Documentum Management Packs to Management Server

To import the sealed EMC Documentum Management Packs to System Center Operations Manager, perform the following steps:

1. On the Management Server, start the *System Center Operations Manager console*.
2. Select the **Administration** pane from the **Navigation** pane.
3. Select **Actions**, and then **Import Management Packs**.
4. Locate the sealed EMC Documentum MPs and click **Open**.
5. The *Import Management Packs* dialog opens, showing details about the Management Packs that you would like to import.
6. Select **EMC Documentum MPs** and click **Install**.

NOTE

Import is possible only if all required Management Packs are available. You can import the missing Management Packs from the System Center Operations Manager 2007 installation directory.

Verify Installation on Management Server Side

After installation has completed successfully, the **ComTrade EMC Documentum MP (Server)** is added to the list of programs in the *Programs and Features* window.

The Management Server side installation creates the ComTradeMP network share that points to the <all users profile directory>\ComTrade directory by default, for example %ProgramData%\ComTrade. In the rest of this document the shared directory will be denoted by <ComTradeMPShare>. This is vital for the communication between the Management Server side and Agent side installation.

Other files are by default stored in the x86 Program Files directory, which depends on the platform: %ProgramFiles(x86)%\ComTrade\MP for EMC Documentum on 64-bit platforms, and %ProgramFiles%\ComTrade\MP for EMC Documentum on 32-bit platforms. In the rest of this document for the Management Server side installation directory the <DMPIInstallDir> notation will be used.

The default Management Server side installation creates the following folders and files:

<ComTradeMPShare>\MP for EMC Documentum

- dmp_x86.msi
- Support.exe
- dmp_documentum.cfg
- Support.exe.config

<DMMPInstallDir>

- ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring.mp
- ComTrade.EMC.Documentum.Library.mp
- ComTrade.EMC.Documentum.Windows.Discovery.mp
- ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring.mp
- dmp_conf.exe
- dmp_conf.exe.config
- dmp_pdkUtil.dll
- mputil.exe
- mputil.exe.config
- SC.Utility.2007.dll
- SC.Utility.2012.dll
- SC.Utility.dll

<DMMPInstallDir>\doc

comtrade_software_license_support_terms_signed.txt

In the **Monitoring** view of the *System Center Operations Manager console*, the following elements should appear:

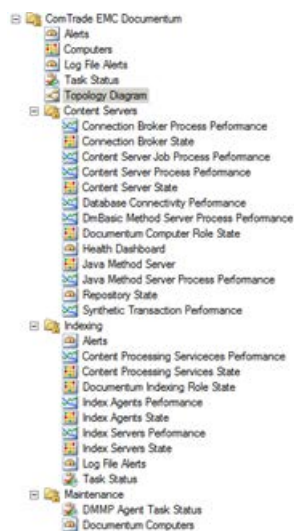


Figure 2. Management Pack elements

Create a New Management Pack for Customizations

Most vendor Management Packs are sealed so that you cannot change any of the original settings in the Management Pack file. However, you can create customizations, such as overrides or new monitoring objects, and save them to a different Management Pack. By default, System Center Operations Manager 2007 saves all customizations to the default Management Pack. As a best practice, you should instead create a separate Management Pack for each sealed Management Pack you want to customize.

Creating a new Management Pack for storing overrides has the following advantages:

- *It simplifies the process of exporting customizations that were created in your test and pre-production environments to your production environment. For example, instead of exporting a default Management Pack that contains customizations from multiple Management Packs, you can export just the Management Pack that contains customizations of a single Management Pack.*
- *You can delete the original Management Pack without first needing to delete the default Management Pack. A Management Pack that contains customizations is dependent on the original Management Pack. This dependency requires you to delete the Management Pack with customizations before you can delete the original Management Pack. If all of your customizations are saved to the default Management Pack, you must delete the default Management Pack before you can delete an original Management Pack.*
- *It is easier to track and to update customizations of individual Management Packs.*

Install EMC Documentum MP on Agent Side

Prerequisites

MANAGEMENT SERVER SIDE

For all EMC Documentum computers that are planned to be monitored do the following:

- **Create initial EMC Documentum MP Agent configuration (for more details look at the [“Configure EMC Documentum MP” on page 34](#) section):**
 - From **Start > All Programs > ComTrade > Documentum Management Pack** run the *MP for EMC Documentum configuration and licensing tool* and supply the information for **Connection Broker** and **Repository**.
- **Allow all agents on Documentum Content Servers to act as proxy:**

- Go to **Administration > Device Management > Agent Managed**.
- Right-click on the computer and select **Properties**.
- Go to the **Security** tab and mark the **Allow this agent to act as proxy and discover managed objects on other computers** check box.
- ***For every Documentum server where monitoring with the management pack is planned, assign the EMC Documentum MP Agent Action Account:***
 - Create **Windows type accounts** that will be used for the **EMC Documentum MP Agent Action Account** profile. The accounts must have the **EMC Documentum Install Owner Account**, used for:
 - Run As Account for log file monitors
 - Run As Account for EMC Documentum MP Agent
 - During EMC Documentum MP Agent installation process.

To create the **EMC Documentum MP Agent Action Account**, follow the steps below:

1. Go to **Administration > Run As Configuration > Accounts**.
2. From the **Actions** pane (or from the main menu **Actions > Actions**), select the **Create Run As Account...** option.
3. In the wizard, go to the **General Properties** configuration part and set the **Run As Account Type** property to **Windows**. After that, enter **Display Name** and **Description** (optional).
4. Click **Next** and specify the credentials. User account must be the same as the **Log On As Account** of EMC Documentum services on nodes.
5. It is recommended to select **More Secure** for the **Distribution** option.
6. Click **Create** to complete the account creation.
7. If you want to specify a distribution list, add Documentum Windows computers.
8. Repeat the previous steps for all accounts that you need on Documentum nodes.
9. Go to **Administration > Run As Configuration > Profiles**.
10. In **Profiles** list, find the **EMC Documentum MP Agent Action Account** and double click on it to edit the properties.
11. Navigate to **Run As Accounts** and add previously created Run As Accounts:
 - Click **Add**.
 - Select an already created Run As Account, or create a new one following the previously described steps.
 - ***For managed objects, select one of the next:***
 - Managed object of type: **Documentum Windows Computer**
 - Managed group: **Documentum Computers**
 - Already created computer group of **Documentum Windows Computer** members that have

the same **Log On As Account** credentials for the EMC Documentum services on nodes.

USEFUL TIPS

- Before adding EMC Documentum MP Agent Action Accounts, please make a copy of the Microsoft.SystemCenter.SecureReferenceOverride management pack.
- In order to minimize account distribution and avoid potential issues with wrong resolved accounts across managed nodes, use **More Secure** distribution option when creating the EMC Documentum MP Agent Action Account. If the account is a local account using more secure account distribution, account's resolution errors on EMC Documentum nodes are prevented.

AGENT SIDE

On Content Server systems set the following:

- DMMP_JAVA_HOME= Path to the 32-bit Java
 - **Example:** DMMP_JAVA_HOME= C: \Documentum\jboss4. 2. 0\jdk

On xPlore Index Server systems set the following system environment variables:

- DMMP_JAVA_HOME= Path to the 32-bit Java
 - **Example:** DMMP_JAVA_HOME= C: \xPlore\jboss5. 1. 0\jdk. 32
- DMMP_CLASSPATH=Path to the xPlore libraries, if xPlore on the node is installed
 - **Example:** DMMP_CLASSPATH = C: \xPloreCPS\dsearch\admin\lib

EMC Documentum MP Agent Installation

Before installing EMC Documentum Agent on EMC Documentum system, configuration tasks on System Center Operations Manager Root Management Server have to be performed. From **Start > All Programs > ComTrade** run the *MP for EMC Documentum configuration and licensing tool* as an Administrator and supply the information for Connection Broker and Repository. For further reference, see [“Configure EMC Documentum MP” on page 34](#).

To install EMC Documentum MP on the Agent side, perform the following steps:

1. Open the **System Center Operations Manager console** and go to **Monitoring > ComTrade EMC Documentum > Maintenance > Documentum Computers**.
2. Select EMC Documentum computers and from the **Action** pane run the **Check Prerequisites for ComTrade DMMP Agent** task and review result to be sure that all prerequisites have been met.
3. Select EMC Documentum computers and from the **Action** pane run the **Install ComTrade DMMP Agent** task.

4. A new window *Run Tasks - Install ComTrade DMMP Agent* will open, set the appropriate task parameters and run the task.
5. Review the results of installation tasks.

NOTE

Make sure EMC Documentum processes are up and running when installing EMC Documentum MP Agent.

How to Manually Install EMC Documentum MP Agent

Before installation, be sure that all prerequisites have been met.

To manually install EMC Documentum MP on the Agent side, perform the following steps:

1. Login to the EMC Documentum node with EMC Documentum component installed.
2. Copy the EMC Documentum MP Agent installation package `dmmp_x86.msi` from the Management Server to the node. Installation package can be found on the Management Server network share on the following path `\\<management_server>\ComTradeMP\MP for EMC Documentum\`.
3. Launch the ***setup package***.
4. Navigate through the ***installation wizard*** to install the EMC Documentum MP Agent package.

To configure EMC Documentum MP Agent, one of the following must be done:

- *On the Management Server, go to the `<ComTradeMPShare>\MP for EMC Documentum\` directory, and copy the `dmmp_documentum.cfg` file to the following location: `<DMMPAgentInstallDir>`.*
- *Open the Services manager and change the logon account for the **ComTrade MP for EMC Documentum Service** to **EMC Documentum Install Owner** user (the same user as for EMC Documentum services). Then restart the service.*

or

- *After EMC Documentum MP Agent on the monitored system is discovered, configure it (on the Management Server):*
 - Open the **System Center Operations Manager console** and go to **Monitoring > ComTrade EMC Documentum > Maintenance > Documentum Computers**.
 - Navigate to the **Documentum MP Agent State** view and select the node.
 - From the **Action** pane, execute the **Update Configuration on ComTrade DMMP Agent** task.

Verify Installation on Agent Side

The EMC Documentum MP Agent package is installed under *Programs and Features* as **ComTrade Management Pack Agent for EMC Documentum**.

The default Agent side installation creates the below listed folder and files. The default installation directory is (it depends on the platform):

- %ProgramFiles(x86)%\ComTrade\ComTrade\MP for EMC Documentum **on 64-bit platforms**
- %ProgramFiles%\ComTrade\ComTrade\MP for EMC Documentum **on 32-bit platforms**

NOTE

In the rest of the document, the EMC Documentum MP Agent installation directory will be denoted as: <DMMPAGENTINSTALLDIR>.

<DMMPAGENTINSTALLDIR>

- dmmp_documentum.cfg (after configuration steps on server)
- dmmp_license.dat (after licenses have been activated)

<DMMPAGENTINSTALLDIR>\bin

- dmmp_ft_test.txt
- dmmp_svc-01.02.jar
- dmmp_svc.bat
- dmmp_test.txt
- Installdmmp_svc-NT.bat
- Uninstalldmmp_svc-NT.bat
- wrapper.exe

<DMMPAGENTINSTALLDIR>\conf

- dmmp.cfg (after discovery has been run for the first time)
- log4j.properties
- wrapper.conf
- appserver

<DMMPAGENTINSTALLDIR>\lib

- commons-logging-1.1.jar
- derby.jar
- derbynet.jar
- ehcache-1.6.2.jar
- ini4j.jar
- jpf.jar
- pdk_base.jar
- pdk_base.dll
- pdk_licensing.dll
- pdk_mgmt.dll
- pdk_lic.jar
- pdk_mgmt.jar
- retroweaver-rt-2.0.5.jar
- wrapper.dll
- wrapper.jar

<DMMPAGENTINSTALLDIR>\plugins

- com.hsl.dnmon.service.plugin.core-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmcli perf-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmconfig-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmc core-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmc smon-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmcts-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmdbtest-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmdi scovery-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmenduserresp-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmi ndexi ng-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmi smon-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmj mx-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmscom-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmur l-3.1.0.zip
- com.hsl.dnmon.service.plugin.dnwebpub-3.1.0.zip
- com.hsl.dnmon.service.plugin.dmxpl ore-3.1.0.zip
- com.hsl.dnmon.service.plugin.procerf-3.1.0.zip

The **ComTrade MP for EMC Documentum Service** is installed and running. You can check the status of the service in the **Services** snap-in.

NOTE

If the service is not running, start it manually with the EMC Documentum Installation Owner Account.

Configure EMC Documentum MP

Agent side configuration requires the entering of EMC Documentum Repository, Broker names, and other information to start managing the EMC Documentum components.

1. On the Management Server, click the **Start** menu, navigate to **All Programs > ComTrade > Documentum Management Pack**, and launch the *MP for EMC Documentum configuration and licensing tool*.

NOTE

On a Windows Server 2008 with enabled UAC (User Account Control), run the Configuration tool with elevated privileges. Right-click the executable and select 'Run as administrator' from the context menu.

The MP for EMC Documentum configuration and licensing tool displays:

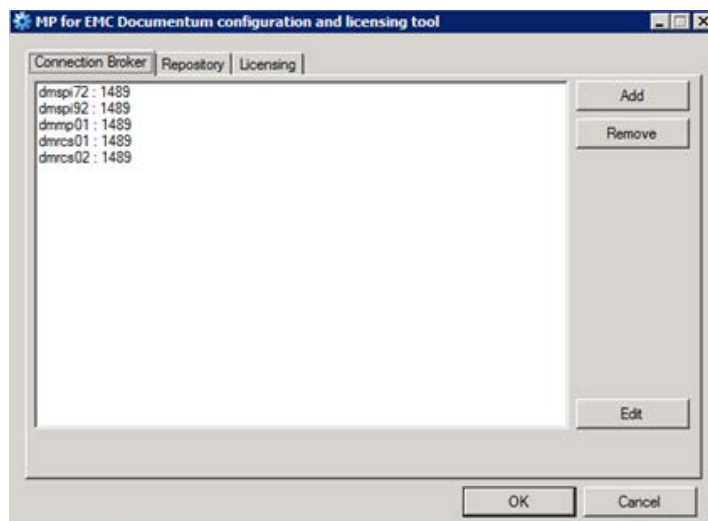


Figure 3. MP for EMC Documentum configuration and licensing tool

2. To add a connection broker, select the **Connection Broker** tab and click **Add**. The *Connection Broker* window opens:

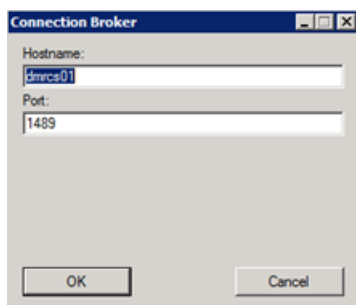


Figure 4. Connection Broker

3. Enter broker **Hostname** and **Port**. If Connection Broker is under cluster, the hostname must be the same as it is specified by the service command line parameter **-host**.
4. Repeat steps 2 and 3 for the remaining EMC Documentum Brokers.

5. To add a repository, select the **Repository** tab and click **Add**. The *Repository* window opens:

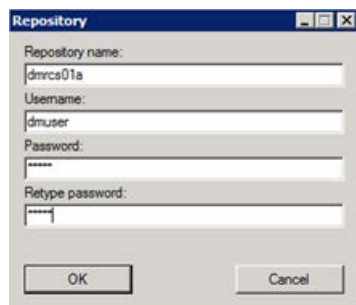


Figure 5. *Repository*

6. Enter **Repository name**, **User name** and **Password**.
7. Repeat steps 5 and 6 for the remaining EMC Documentum repositories.

To apply new configuration to a particular node (after steps above), go to the **System Center Operations Manager console** and navigate to **Monitoring > ComTrade EMC Documentum > Maintenance > Documentum Computers**. Then select **ComTrade Documentum Agent** in the **ComTrade Documentum MP Agent Service State** view for which you want to apply the new configuration and execute the **Update Configuration on ComTrade DMMP Agent** task.

Product Licensing

Before you can start using EMC Documentum MP, you must obtain a valid license key for every managed node that you want to monitor with this product.

To obtain and activate the product license keys, perform the following steps:

1. On the Management Server, click the **Start** menu, navigate to **All Programs > ComTrade > Documentum Management Pack**, and launch the *MP for EMC Documentum configuration and licensing tool*.

The MP for EMC Documentum configuration and licensing tool displays:

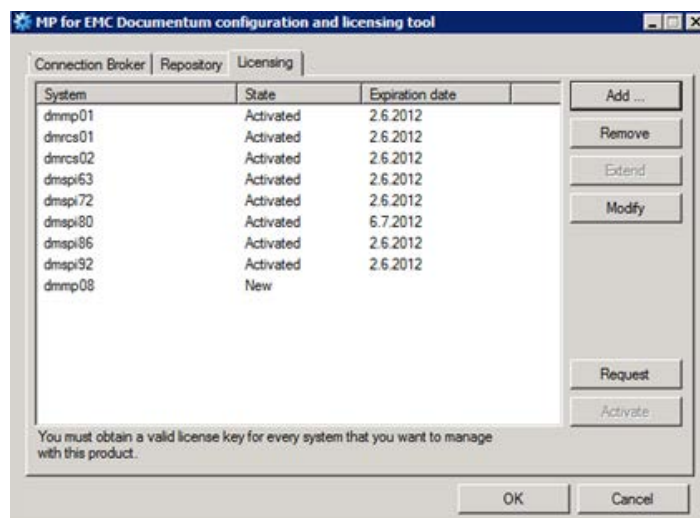


Figure 6. Licensing tab

2. In the **Licensing** tab, click **Add** to either manually enter the EMC Documentum host name or click **Discover** to automatically discover all EMC Documentum nodes.
3. Click **Request**. In the *Generate license request* window, enter your **Company name** and click **OK**.
4. A message box opens, specifying the location of the `dmmp_license_requests.dat` license request file for discovered hosts.
5. To activate the license requests, go to ComTrade's licensing portal: <http://managementpacks.comtrade.com/mp-licensing/>
6. Create a new account, or if you already have a licensing portal account, sign in.
7. To generate an evaluation license, click the **Temporary / Evaluation Licenses** link, upload the license request file, and click **Send request**.
8. Within a few minutes, you should receive an E-mail with a license activation file `dmmp_liact_new.dat` attached.
9. On the Management Server, copy the license activation file to the same location where the license request file is located, for example to `<ComTradeMPShare>\MP for EMC Documentum`, and launch the **Configuration and Licensing tool**. The *MP for EMC Documentum Configuration and Licensing* window opens.
10. In the **Licensing** tab, click **Activate** to merge the `dmmp_liact_new.dat` file with the Management Pack license file.
11. From the **System Center Operations Manager console** navigate to **Monitoring > ComTrade EMC Documentum > Maintenance > Documentum Computers**, then select **ComTrade Documentum Agent** in the **ComTrade Documentum MP Agent Service State** view for which you want to activate licenses, and execute the **Update License on ComTrade DMMP Agent** task.

Verify Licensing

You can check the state of your licensing at any time in the *MP for EMC Documentum configuration and licensing tool* by selecting the **Licensing** tab:

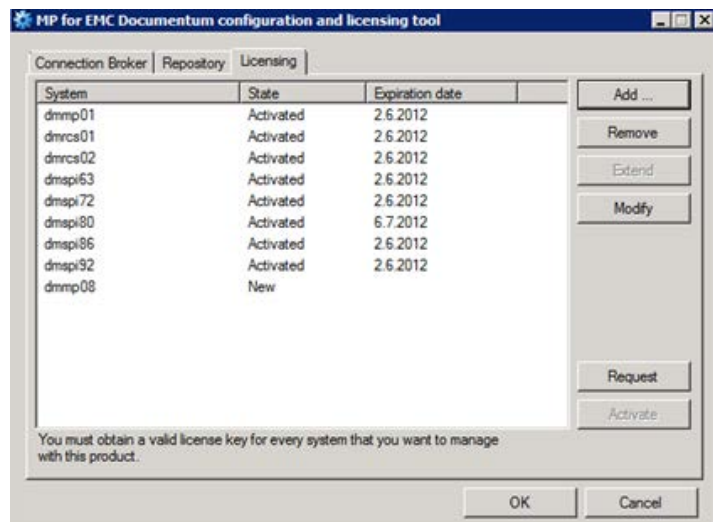


Figure 7. Licensing tab

Chapter 4

Uninstallation

Uninstallation Overview

To completely uninstall EMC Documentum MP, perform the following procedures:

1. [Remove Customized EMC Documentum MPs from Management Server](#)
2. [Remove EMC Documentum MP from Management Server](#)
3. [Uninstall EMC Documentum MP from Agent Side](#)
4. [Uninstall EMC Documentum MP](#)

Remove Customized EMC Documentum MPs from Management Server

To remove your customized EMC Documentum MPs from the Management Server, perform the following steps:

1. In the **System Center Operations Manager console**, click the **Administration** button.
2. In the **Administration** pane, click **Management Packs**.
3. In the **Management Packs** pane, right-click the Management Pack you would like to remove, and then click **Delete**.

Remove EMC Documentum MP from Management Server

To remove EMC Documentum MP from the Management Server, perform the following steps:

1. In the **System Center Operations Manager console**, click the **Administration** button.
2. In the **Administration** pane, click **Management Packs**.
3. In the **Management Packs** pane, right-click the Management Pack you would like to remove, and then click **Delete**. Remove the following Management Packs in the following order:
 - *ComTrade Management Pack for EMC Documentum xPlore Index Server for Windows (Monitoring)*
 - *ComTrade Management Pack for EMC Documentum Content Server for Windows (Monitoring)*

- ComTrade Management Pack for EMC Documentum for Windows (Discovery)
- ComTrade Management Pack for EMC Documentum Core Library

NOTE

*Before deleting some dependency management packs like the **Microsoft.SystemCenter.SecureReferenceOverride** management pack, be sure that appropriate backup exists. Before removal apply the backup management pack. We suggest keeping the library management pack, since the secure reference override will be kept.*

Uninstall EMC Documentum MP from Agent Side

To uninstall EMC Documentum MP from the agent nodes, perform the following steps:

1. Login to the System Center Operations Manager Management server system as a local and a System Center Operations Manager administrator.
2. Open the **System Center Operations Manager console** and go to **Monitoring > ComTrade EMC Documentum > Maintenance > Documentum Computers**.
3. Select EMC Documentum computers from the **Comtrade Documentum MP Agent Service State** and run the **Uninstall ComTrade DMMP Agent** task from the **Actions** pane.
4. On EMC Documentum computer go to the EMC Documentum MP Agent installation directory, for example to %ProgramFiles%\ComTrade\MP for EMC Documentum and remove the following files:
 - dmmon-data-new.xml
 - dmmon-data-new.xml.lock
 - dmmon-disco-new.xml
 - dmmp_documentum.cfg
 - dmmp_licact.dat
 - dmmp_svc.log
 - trace.log
 - dmmp.cfg

NOTE

*If you want to keep the configuration settings and the license file on a node, do not remove the **dmmp_configuration.cfg** and **dmmp_licact.dat** files.*

5. On the node, remove the system environment variables DMMP_JAVA_HOME and DMMP_CLASSPATH.

How to Manually Uninstall EMC Documentum MP Agent

To uninstall EMC Documentum MP from the agent nodes, perform the following steps:

1. On an agent node, go to **Control Panel** and select **Uninstall a program**.
2. Find and select **ComTrade Management Pack Agent for EMC Documentum** and click **Uninstall**.
3. When the *Uninstall* dialog appears, confirm the uninstallation.
4. Go to the EMC Documentum MP Agent installation directory, for example to <DMPAGENTINSTALLDIR> and remove the following files:
 - dmmon-data-new.xml
 - dmmon-data-new.xml.lock
 - dmmon-disco-new.xml
 - dmmp_documentum.cfg
 - dmmp_licact.dat
 - dmmp_svc.log
 - trace.log
 - dmmp.cfg

NOTE

If you want to keep the configuration settings and the license file on a node, do not remove the dmmp_configuration.cfg and dmmp_licact.dat files.

5. Remove the system environment variables DMMP_JAVA_HOME and DMMP_CLASSPATH.

Uninstall EMC Documentum MP

To uninstall EMC Documentum MP from the system, perform the following steps:

1. Go to **Control Panel** and select **Uninstall a program**.
2. Find and select **ComTrade EMC Documentum MP (Server)** and click **Uninstall**.

NOTE

A warning dialog may appear informing you that other users are logged on to this computer. If you uninstall this program while another user is running it, the program might not uninstall completely.

3. Click **Continue** to start the *EMC Documentum MP InstallShield Wizard* and follow the wizard to uninstall the product.
4. Go to the EMC Documentum MP installation directory, for example to %ProgramFiles%\ComTrade\MP for EMC Documentum and remove the files which are left.
5. Go to the shared directory <ComTradeMPShare> and remove the MP for EMC Documentum folder.

NOTE

If you want to keep the configuration settings and the license file on a server, do not remove the `dmmp_configuration.cfg` and `dmmp_licact.dat` files.

Chapter 5

Usage

Optional Configuration

IMPORTANT

Default discovery intervals for this Management Pack may cause CPU spikes on proxy servers. Frequent discoveries are needed so that dynamic updates to EMC Documentum pools can be monitored promptly and the correct dependencies between virtual infrastructure entities identified. You can alter the intervals that these discovery scripts run to mitigate any concerns about CPU spikes and latency in monitoring the recent changes.

Tuning Thresholds for Performance Monitors

The following table lists performance threshold monitors having default thresholds that might require additional tuning to suit your environment. You should evaluate these monitors to determine whether the default thresholds are appropriate for your environment. If a default threshold is not appropriate for your environment, you should baseline the relevant performance counters, and then adjust the threshold by overriding them.

For more information, see [How to Override a Monitor](#).

Discovered Objects

EMC Documentum MP discovers the object types described in the following table. Most objects are automatically discovered. For information about discovering objects, see [Object Discoveries in Operations Manager 2007](#).

Target	Display Name	Description
ComTrade.EMC.Documentum.ApplicationTopologyRoot	Populate Topology Root	Populate Topology Root.
ComTrade.EMC.Documentum.RepositoriesGroup	Populate Repositories Group	Populates Repositories Group.
ComTrade.EMC.Documentum.Windows.ContentServer.ComputerRole	Documentum Connection Broker Discovery	Discovers Connection Broker.

Microsoft.Windows.Server.Computer	Documentum Computer Discovery	Discovers Documentum computer.
ComTrade.EMC.Documentum.Windows.Computer	Documentum Content Server Role Discovery	Discovers Content Server Role.
ComTrade.EMC.Documentum.Windows.ContentServer.ComputerRole	Content Server Role Components Discovery	Discovers Content Server Role components.
ComTrade.EMC.Documentum.Windows.Indexing.ComputerRole	Documentum Indexing Discovery	Discovers Documentum indexing related components.
ComTrade.EMC.Documentum.Windows.Computer	Documentum Indexing Role Discovery	Discovers Indexing Role.
ComTrade.EMC.Documentum.Windows.Computer	ComTrade Documentum MP Agent Discovery	Discovers EMC Documentum MP Agent used for monitoring EMC Documentum infrastructure.
ComTrade.EMC.Documentum.BrokersGroup	Populate Brokers Group	Populate Connection Brokers Group with Connection Brokers.
ComTrade.EMC.Documentum.ContentProcessingServicesGroup	Populate Content Processing Services Group	Populates Content Processing Services Group.
ComTrade.EMC.Documentum.ContentServersGroup	Populate Content Servers Group	Populates Content Servers Group.
ComTrade.EMC.Documentum.Windows.MPAgent.Group	Populate DMMP Agents Group	Populates EMC Documentum MP Agents Group with EMC Documentum MP Agents.
ComTrade.EMC.Documentum.ComputerGroup	Populate Documentum Computers Group	Populate Documentum Computers Group with Documentum computers.
ComTrade.EMC.Documentum.IndexAgentsGroup	Populate Index Agents Group	Populates Index Agents Group.
ComTrade.EMC.Documentum.IndexServersGroup	Populate Index Servers Group	Populates Index Servers Group.
ComTrade.EMC.Documentum.Windows.NonVirtualNodesGroup	Populate Documentum NonVirtual Node Computer Group	Populates Documentum Computer Group with Non Virtual Node Documentum Windows Computers.

ComTrade.EMC.Documentum.Windows.VirtualNodesGroup	Populate Documentum Computer Group	Populates Documentum Computer Group with Documentum Windows Computers.
ComTrade.EMC.Documentum.Windows.ContentServer.ComputerRole	Repository Data Collector Discovery	Discovers Repository Data Collector.
ComTrade.EMC.Documentum.Windows.CRoleGroup	Populate Documentum Windows Computer Role Group	Populates Documentum Windows Computer Role Group.
ComTrade.EMC.Documentum.Windows.ContentServer.CRoleGroup	Populate Documentum Windows Content Server Computer Role Group	Populates Documentum Windows Content Server Computer Role Group.

Table 4. Objects discovered with EMC Documentum MP

All discovered objects are discovered at once. Automatic discovery process is triggered every 30 minutes by default. Before topology is discovered automatically for the first time, it can take some time after EMC Documentum MP Agent deployment.

NOTE

For the first time it can take up to 4 hours after the objects are discovered.

How Health Rolls Up

The following table lists dependency monitors with health roll-up algorithm type.

Target	Category	Display Name	Roll-up Algorithm
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Documentum Repository Data Collector (Windows)	AvailabilityHealth	Index Agent Availability Health Rollup	WorstOf
		Index Server Availability Health Rollup	WorstOf
		Jobs Availability Health Rollup	WorstOf
	PerformanceHealth	Index Agent Performance Health Rollup	WorstOf
		Index Server Performance Health Rollup	WorstOf
		Jobs Performance Health Rollup	WorstOf
Documentum Content Server (Windows)	AvailabilityHealth	Broker Projection Target Availability Rollup	BestOf
		DmBasic Method Server Availability Health Rollup	WorstOf

	ConfigurationHealth	Broker Projection Target Configuration Rollup	BestOf
		DmBasic Method Server Configuration Health Rollup	WorstOf
	PerformanceHealth	Broker Projection Target Performance Rollup	BestOf
		DmBasic Method Server Performance Health Rollup	WorstOf
	SecurityHealth	Broker Projection Target Security Rollup	BestOf
		DmBasic Method Server Security Health Rollup	WorstOf
Documentum Application Topology Root	AvailabilityHealth	Brokers Group Availavility Rollup	WorstOf
		Index Servers Group Availability Rollup	WorstOf
		Repositories Group Availability Health Rollup	WorstOf
	ConfigurationHealth	Brokers Group Configuration Rollup	WorstOf
		Index Servers Group Configuration Rollup	WorstOf
		Repositories Group Configuration Health Rollup	WorstOf
	PerformanceHealth	Brokers Group Performance Rollup	WorstOf
		Index Servers Group Performance Rollup	WorstOf
		Repositories Group Performanse Health Rollup	WorstOf

	SecurityHealth	Brokers Group Security Rollup	WorstOf
		Index Servers Group Security Rollup	WorstOf
		Repositories Group Security Health Rollup	WorstOf
Indexing Group	AvailabilityHealth	Content Processing Service To Index Servers Group Availability Rollup	WorstOf
		Index Agent To Index Servers Group Availability Rollup	WorstOf
		Index Server To Index Servers Group Availability Rollup	WorstOf
	ConfigurationHealth	Content Processing Service To Index Servers Group Configuration Rollup	WorstOf
		Index Agent To Index Servers Group Configuration Rollup	WorstOf
		Index Server To Index Servers Group Configuration Rollup	WorstOf
	PerformanceHealth	Content Processing Service To Index Servers Group Performance Rollup	WorstOf
		Index Agent To Index Servers Group Performance Rollup	WorstOf
		Index Server To Index Servers Group Performance Rollup	WorstOf

	SecurityHealth	Content Processing Service To Index Servers Group Security Rollup	WorstOf
		Index Agent To Index Servers Group Security Rollup	WorstOf
		Index Server To Index Servers Group Security Rollup	WorstOf
Documentum Repository	AvailabilityHealth	Content Server Availability Health Rollup	WorstOf
		Java Method Server Availability Health Rollup	WorstOf
		Repository Data Collector Availability Health Rollup	WorstOf
	ConfigurationHealth	Content Server Configuration Health Rollup	WorstOf
		Java Method Server Configuration Health Rollup	WorstOf
		Repository Data Collector Configuration Health Rollup	WorstOf
	PerformanceHealth	Content Server Performance Health Rollup	WorstOf
		Java Method Server Performance Health Rollup	WorstOf
		Repository Data Collector Performance Health Rollup	WorstOf

	SecurityHealth	Content Server Security Health Rollup	WorstOf
		Java Method Server Security Health Rollup	WorstOf
		Repository Data Collector Security Health Rollup	WorstOf
Documentum Jobs	AvailabilityHealth	Jobs Availability Health Rollup	WorstOf
	PerformanceHealth	Jobs Performance Health Rollup	WorstOf
Documentum Repositories Group	AvailabilityHealth	Repository Availability Health Rollup	WorstOf
	ConfigurationHealth	Repository Configuration Health Rollup	WorstOf
	PerformanceHealth	Repository Performance Health Rollup	WorstOf
	SecurityHealth	Repository Security Health Rollup	WorstOf

Documentum Windows Computer	Custom	ComTrade DMMP Agent Installation State	WorstOf
	AvailabilityHealth	Documentum Windows Computer Role Health Rollup	WorstOf
		Documentum Windows Log Watcher Health Rollup	WorstOf
	ConfigurationHealth	Documentum Windows Computer Role Health Rollup	WorstOf
		Documentum Windows Log Watcher Health Rollup	WorstOf
	PerformanceCollection	Documentum Windows Computer Role Health Rollup	WorstOf
		Documentum Windows Log Watcher Health Rollup	WorstOf
	SecurityHealth	Documentum Windows Computer Role Health Rollup	WorstOf
		Documentum Windows Log Watcher Health Rollup	WorstOf

Documentum Content Server Role (Windows)	AvailabilityHealth	Job Execution Agent Availability Health Rollup	WorstOf
		Connection Broker Availability Health Rollup	WorstOf
		Content Server Availability Health Rollup	WorstOf
		Java Method Server Availability Health Rollup	WorstOf
		Repository Data Collector Availability Health Rollup	WorstOf

	ConfigurationHealth	Job Execution Agent Configuration Health Rollup	WorstOf
		Connection Broker Configuration Health Rollup	WorstOf
		Content Server Configuration Health Rollup	WorstOf
		Java Method Server Configuration Health Rollup	WorstOf
	PerformanceHealth	Job Execution Agent Performance Health Rollup	WorstOf
		Connection Broker Performance Health Rollup	WorstOf
		Content Server Performance Health Rollup	WorstOf
		Java Method Server Performance Health Rollup	WorstOf
	SecurityHealth	Job Execution Agent Security Health Rollup	WorstOf
		Connection Broker Security Health Rollup	WorstOf
		Content Server Security Health Rollup	WorstOf
		Java Method Server Security Health Rollup	WorstOf
Documentum Connection Brokers Group	AvailabilityHealth	Connection Brokers Availability Health Rollup	WorstOf
	ConfigurationHealth	Connection Brokers Configuration Health Rollup	WorstOf

	PerformanceCollection	Connection Brokers Performance Health Rollup	WorstOf
	SecurityHealth	Connection Brokers Security Health Rollup	WorstOf
Documentum Indexing Role (Windows)	AvailabilityHealth	Content Processing Service to Indexing Role Availability Rollup	WorstOf
		Index Agent to Indexing Role Availability Rollup	WorstOf
		xPlore Index Server to Indexing Role Availability Rollup	WorstOf
	PerformanceHealth	Content Processing Service to Indexing Role Performance Rollup	WorstOf
		Index Agent to Indexing Role Performance Rollup	WorstOf
		xPlore Index Server to Indexing Role Performance Rollup	WorstOf

Documentum Windows Computer Role Group	AvailabilityHealth	Documentum Windows Computer Role Availability Health Rollup	WorstOf
	ConfigurationHealth	Documentum Windows Computer Role Availability Health Rollup	WorstOf
	PerformanceHealth	Documentum Windows Computer Role Performance Health Rollup	WorstOf
	SecurityHealth	Documentum Windows Computer Role Security Health Rollup	WorstOf
Documentum Non Virtual Node Computers Group	AvailabilityHealth	Documentum Windows Computer Availability Health Rollup	WorstOf
	ConfigurationHealth	Documentum Windows Computer Configuration Health Rollup	WorstOf
		Documentum Windows Computer Installation State Health Rollup	WorstOf
	PerformanceHealth	Documentum Windows Computer Performance Health Rollup	WorstOf
	SecurityHealth	Documentum Windows Computer Security Health Rollup	WorstOf

Documentum Virtual Node Computers Group	AvailabilityHealth	Documentum Windows Computer Availability Health Rollup	WorstOf
	ConfigurationHealth	Documentum Windows Computer Configuration Health Rollup	WorstOf
		Documentum Windows Computer Installation State Health Rollup	WorstOf
	PerformanceHealth	Documentum Windows Computer Performance Health Rollup	WorstOf
	SecurityHealth	Documentum Windows Computer Security Health Rollup	WorstOf

Table 5. Dependency monitors with health roll-up algorithm type

Monitors

The following monitors are a part of this management pack. For more details, refer to *EMC Documentum MP Reference Guide (DMMP_References.html)*.

Target	Display Name	Description
Documentum Index Agent Configuration (Windows)	Index Agent Availability	Monitors Index Agent availability from the Content Server (repository) perspective. Index Agent can be in one of the following states: Running, Stopped, and Not Responding. If Index Agent is not working properly, documents will not be indexed by the Index Server.

Documentum Index Agent Configuration (Windows)	Number Of Failed Objects In Index Queue	Checks the number of failed items in index queue and compares it with predefined threshold.
Documentum Index Server Configuration (Windows)	Search Availability	This monitor checks if Index Server search capability is working from the repository perspective.
Documentum Content Server Job (Windows)	Running Duration (in s)	Monitors long running jobs.
Documentum Content Server Job (Windows)	Status	Monitors status of the jobs under repository.
Documentum Repository Data Collector (Windows)	Number Of Media Server Records In Queue	Monitors the queue size for media server records.
Documentum Repository Data Collector (Windows)	Number Of Rendition Records In Queue	Monitors the queue size for rendition records.
Documentum Repository Data Collector (Windows)	Number Of Records In Queue	Monitors number of records in a queue table.
Documentum Job Execution Agent (Windows)	Availability	Job Execution Agent availability monitor for the Content Server.
Documentum Job Execution Agent (Windows)	Overall CPU Usage	Monitors if the overall processor usage in percentage of a Job Execution Agent process and sub-processes is over a predefined threshold.
Documentum Job Execution Agent (Windows)	Overall Total Memory: Working Set in (KB)	Monitors overall total memory (working set) usage for dm_agent_exec processes in KB.
Documentum Job Execution Agent (Windows)	Overall Memory: Private Bytes (in KB)	Monitors overall memory: private bytes usage for dm_agent_exec processes in KB.
Documentum Connection Broker (Windows)	Service Status	Monitors Connection Broker service status.

Documentum Connection Broker (Windows)	CPU Usage (in%)	Monitors if the processor usage of the Connection Broker process is over a predefined threshold.
Documentum Connection Broker (Windows)	Memory: Private Bytes Usage (in Bytes)	Monitors the memory: private bytes usage (in Bytes) of the Connection Broker process.
Documentum Connection Broker (Windows)	Memory: Working Set Usage (in Bytes)	Monitors the memory: working set usage (in Bytes) of the Connection Broker process.
Documentum Connection Broker (Windows)	Query Tool: Ping Command Response	Executes Connection Broker query tool ping command and checks tool exit code.
Broker Projection Target (Windows)	Check Status Returned By Connection Broker	This monitor checks the state returned by Connection Broker. Possible states are: Starting, Open, Stopped, Presumed down, and Unknown.
Broker Projection Target (Windows)	Last Check In State	Monitors the last check in a state.
Broker Projection Target (Windows)	Query Tool: Ping Command Response	Executes Connection Broker query tool ping command and checks tool exit code.
Documentum Content Server (Windows)	Service Status	Monitors the Documentum Content Server service status.
Documentum Content Server (Windows)	Synthetic Transaction Check In Time (in ms)	Monitors Client Response Check In Time in ms.
Documentum Content Server (Windows)	Synthetic Transaction Check Out Time (in ms)	Monitors Client Response Check Out Time in ms.
Documentum Content Server (Windows)	Synthetic Transaction Connect Time (in ms)	Monitors Client Response Connect Time in ms.
Documentum Content Server (Windows)	Synthetic Transaction Delete Time (in ms)	Monitors Client Response Delete Time in ms.

Documentum Content Server (Windows)	Synthetic Transaction Disconnect Time (in ms)	Monitors Client Response Disconnect Time in ms.
Documentum Content Server (Windows)	Synthetic Transaction Import Time (in ms)	Monitors Client Response Import Time in ms.
Documentum Content Server (Windows)	CPU Usage (in %)	Monitors if the Content Server process processor usage in percentage is over a predefined threshold.
Documentum Content Server (Windows)	Database Availability	Monitors database availability.
Documentum Content Server (Windows)	Database Login Time (in ms)	Monitors Database Login Time in ms.
Documentum Content Server (Windows)	Memory: Private Bytes Usage (in Bytes)	Monitors the memory: private bytes usage (in Bytes) of the Content Server service process, without the dmbasic Method Server and Agent Exec processes.
Documentum Content Server (Windows)	Memory: Working Set Usage (in Bytes)	Monitors the memory: working set usage (in Bytes) of the Content Server service process, without the dmbasic Method Server and Agent Exec processes.
Documentum Content Server (Windows)	Total Sessions Use (in %)	Checks if the number of used sessions is reaching critical values. If no new sessions can be created, no new users will be able to connect to this Content Server.
Documentum Content Server (Windows)	Sessions Total Processor Usage (in %)	Check if processor usage is reaching critical values.
Documentum Java Method Server (Windows)	Availability	Monitors availability of a Java Method Server.

Documentum Java Method Server (Windows)	Overall CPU Usage (in %)	Monitors overall CPU usage for Java Method Server processes and sub-processes in percentage.
Documentum Java Method Server (Windows)	Overall Total Memory: Working Set (in KB)	Monitors overall total memory (working set) usage for Java Method Server and sub-processes in KB.
Documentum Java Method Server (Windows)	Overall Memory: Private Bytes (in KB)	Monitors overall memory: private bytes usage for Java Method Server and sub-processes in KB.
Documentum DmBasic Method Server (Windows)	Availability	Monitors Method Server availability.
Documentum DmBasic Method Server (Windows)	Overall CPU Usage (in %)	Monitors overall CPU usage of Method Server processes in percentage.
Documentum DmBasic Method Server (Windows)	Overall Total Memory: Working Set (in KB)	Monitors Method Server and sub-processes overall total memory (working set) usage in KB.
Documentum DmBasic Method Server (Windows)	Overall Memory: Private Bytes (in KB)	Monitors overall memory: Method Server and sub-processes private bytes usage in KB.
Documentum Windows Computer	ComTrade Management Pack Agent for Documentum Installation	Checks EMC Documentum MP Agent.
Documentum MP Agent	Monitors Cluster Resource Owner Change And Restart DMMP Agent When Needs	Monitors cluster resource owner change and restarts Documentum MP Agent when it's needed.
Documentum MP Agent	ComTrade Management Pack for EMC Documentum License Expiration	Monitors the expire status of ComTrade Management Pack for EMC Documentum license on the server.
Documentum MP Agent	ComTrade Management Pack for EMC Documentum License Validation	Monitors the status of ComTrade Management Pack for EMC Documentum license on the server.

Documentum MP Agent	ComTrade Management Pack Agent for EMC Documentum Service Success Monitoring	Monitors EMC Documentum MP Agent's percentage of successfully executed monitors.
Documentum Content Processing Service (Windows)	Availability	Monitors Documentum Content Processing Service availability.
Documentum Content Processing Service (Windows)	Memory: Private Bytes Usage (in KB)	Monitors memory in KB: private bytes usage for Content Processing Service process.
Documentum Content Processing Service (Windows)	Memory: Working Set Usage (in KB)	Monitors memory in KB: Content Processing Service process working set usage.
Documentum Content Processing Service (Windows)	Percent Processor Time Usage	Monitors in percentage processor time usage for Content Processing Service process.
Documentum Content Processing Service (Windows)	Check Status	Monitors the Documentum Content Processing Service status.
Documentum Index Agent (Windows)	Availability	Monitors availability of Documentum Index Agent.
Documentum Index Agent (Windows)	Memory: Private Bytes Usage (in KB)	Monitors in KB memory: private bytes usage for Index Agent process.
Documentum Index Agent (Windows)	Memory: Working Set Usage (in KB)	Monitors memory in KB: Index Agent process working set usage.
Documentum Index Agent (Windows)	Percent Processor Time Usage	Monitors in percentage processor time usage for Index Agent process.
Documentum Index Agent (Windows)	Check Status	Monitors Documentum Index Agent status.
Documentum xPlore Index Server (Windows)	Availability	Monitors Documentum xPlore Index Server availability.

Documentum xPlore Index Server (Windows)	Memory: Private Bytes Usage (in KB)	Monitors memory in KB: xPlore Index Server process private bytes usage.
Documentum xPlore Index Server (Windows)	Memory: Working Set Usage (in KB)	Monitors in KB memory: working set usage for xPlore Index Server process.
Documentum xPlore Index Server (Windows)	Percent Processor Time Usage	Monitors xPlore Index Server process processor time usage in percentage.
Documentum xPlore Index Server (Windows)	Check Status	Monitors Documentum xPlore Index Server status.

Table 6. Monitors

Rules

The following rules are a part of this management pack. For more details, refer to *EMC Documentum MP Reference Guide (DMMP_References.html)*.

Target	Display Name	Description
Documentum Index Agent Configuration (Windows)	Create Awaiting Time (in ms)	This rule collects the time (in ms) the Index Agent needs to start processing a document that was imported to the repository. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Create Indexing Time (in ms)	This rule collects the time (in ms) the Index Server needs to index a document after it was imported to the repository. The information is collected by a synthetic indexing measurement probe.

Documentum Index Agent Configuration (Windows)	Create Preprocessing Time (in ms)	This rule collects the time (in ms) needed for the Index Agent to preprocess a document that will be indexed by the Index Server. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Destroy Awaiting Time (in ms)	This rule collects the time (in ms) the Index Agent needs to start processing a document that was removed from the repository. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Destroy Indexing Time (in ms)	This rule collects the time (in ms) the Index Server needs to update the index so that the content of a deleted document is no longer searchable. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Destroy Preprocessing Time (in ms)	This rule collects the time (in ms) needed for the Index Agent to preprocess the information about a removed document for the Index Server. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Save-to-search Latency Time (in ms)	This rule collects the time (in ms) needed before a document placed into the repository becomes searchable. The information is collected by a synthetic indexing measurement probe.

Documentum Index Agent Configuration (Windows)	Query Time (in ms)	This rule collects the time (in ms) needed to get a result by executing a search query executed against the Index Server. The information is collected by a synthetic indexing measurement probe.
Documentum Index Agent Configuration (Windows)	Number Of All Objects In Index Queue	This rule collects the number of all objects in index queue.
Documentum Index Agent Configuration (Windows)	Number Of Failed Objects In Index Queue	This rule collects the number of failed indexing objects.
Documentum Index Agent Configuration (Windows)	Number Of Objects Awaiting Indexing In Index Queue	This rule collects the number of all objects awaiting for indexing.
Documentum Index Agent Configuration (Windows)	Number Of Objects Currently Being Indexed	This rule collects the number of objects currently being indexed.
Documentum Index Agent Configuration (Windows)	Number Of Objects In Warning State	This rule collects the number of index queue objects in the Warning state.
Documentum Index Server Configuration (Windows)	Search Query Response Time (in ms)	This rule collects the time (in ms) needed by the Index Server to return a result for a search request. A synthetic probe executes requests on a regular basis and reposts the search query response time.
Documentum Content Server Job (Windows)	Running Duration (in s)	Collects the jobs running duration in seconds.
Documentum Repository Data Collector (Windows)	Number Of Active Sessions	This rule collects the number of active sessions for all Content Server processes of the repository.
Documentum Repository Data Collector (Windows)	Number Of Failed Jobs	Collects the count of a failed jobs.
Documentum Repository Data Collector (Windows)	Number Of Inactive Sessions	This rule collects the number of inactive sessions for all Content Server processes of the repository.
Documentum Repository Data Collector (Windows)	Number of Media Server Records in Queue	Collects the number of records in a queue table related to the media server.

Documentum Repository Data Collector (Windows)	Number of Rendition Records in Queue	Collects the number of records in a queue table related to the rendition.
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Documentum Repository Data Collector (Windows)	Number of Records in Queue	Collects the number of records in a queue table.
Documentum Repository Data Collector (Windows)	Number Of Running Jobs	Collects the count of a running jobs.
Log File Watcher for Documentum Job Execution Agent (Windows)	Log File Errors	This rule checks the log file for errors.
Documentum Job Execution Agent (Windows)	Overall CPU Usage (in %)	This rule collects the overall CPU usage.
Documentum Job Execution Agent (Windows)	Process Total Memory: Working Set (in KB)	This rule collects the total memory (working set) usage of the Content Server Agent Exec.
Documentum Job Execution Agent (Windows)	Process Overall Memory: Private Bytes (in KB)	This rule collects the overall memory (private bytes in KB) usage.
Documentum Connection Broker (Windows)	Process Private Bytes (in Bytes)	This rule collects the Connection Broker process memory usage.
Documentum Connection Broker (Windows)	Process Processor Time (in %)	This rule collects the Connection Broker process processor utilization.
Documentum Connection Broker (Windows)	Process Working Set (in bytes)	Working set of the Connection Broker process.
Log File Watcher for Documentum Content Server (Windows)	Log File Errors	This rule checks the log file for errors.
Documentum Content Server (Windows)	Number Of Active Sessions	This rule collects the number of active sessions on the Content Server.
Broker Projection Target (Windows)	Time From Content Server Last Check In (in s)	This rule collects the time from of the Broker Projection Target last check-in for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Check In Time (in ms)	This rule collects the check-in time for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Check Out Time (in ms)	This rule collects the check-out time for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Connect Time (in ms)	This rule collects the connect time for the Content Server.

Documentum Content Server (Windows)	Database Login Time (in ms)	This rule collects the database login time for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Delete Time (in ms)	This rule collects the delete time for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Disconnect Time (in ms)	This rule collects the disconnect time for the Content Server.
Documentum Content Server (Windows)	Synthetic Transaction Import Time (in ms)	This rule collects the import time for the Content Server.
Documentum Content Server (Windows)	Number Of Inactive Sessions	This rule collects the number of inactive sessions on the Content Server.
Documentum Content Server (Windows)	Total Sessions Use (in %)	This rule collects the percentage of used (active and inactive) Content Server sessions vs. the max number of concurrent sessions.
Documentum Content Server (Windows)	Process Private Bytes (in bytes)	This rule collects the memory usage (private bytes) for the Content Server process.
Documentum Content Server (Windows)	Process Processor Time (in %)	This rule collects the processor utilization for the Content Server process.
Documentum Content Server (Windows)	Process Thread Count	This rule collects the thread count for the Content Server process.
Documentum Content Server (Windows)	Total Sessions Processor Usage (in %)	This rule collects the processor usage (in %) of all Content Server sessions.
Documentum Content Server (Windows)	Process Working Set (in bytes)	This rule collects the working set for the Content Server process.
Documentum Java Method Server (Windows)	Overall CPU Usage (in %)	This rule collects the overall CPU usage for a process.
Documentum Java Method Server (Windows)	Overall Total Memory: Working Set (in KB)	This rule collects the overall total memory (working set) usage for a process.

Documentum Java Method Server (Windows)	Overall Memory: Private Bytes (in KB)	This rule collects the total memory (private bytes in KB) usage for a process.
Documentum DmBasic Method Server (Windows)	Overall CPU Usage (in %)	This rule collects the overall CPU usage of a process.
Documentum DmBasic Method Server (Windows)	Overall Total Memory: Working Set (in KB)	This rule collects the overall total memory (working set) usage of a process.
Documentum DmBasic Method Server (Windows)	Overall Memory: Private Bytes (in KB)	This rule collects the overall memory (private bytes in KB) usage of a process.
Log File Watcher for Documentum Content Processing Service (Windows)	Log File Errors	Collects log file errors of the Content Processing Service.
Documentum Content Processing Service (Windows)	Percentage Processor Usage	This rule collects the CPU usage for a process.
Documentum Content Processing Service (Windows)	Memory: Private Bytes (in KB)	This rule collects the memory (private bytes in KB) usage for a process.
Documentum Content Processing Service (Windows)	Memory: Working Set (in KB)	This rule collects the memory (working set in KB) usage for a process.
Log File Watcher for Documentum Index Agent (Windows)	Log File Errors	Collects log file errors of Index Agent.
Documentum Index Agent (Windows)	Percentage Processor Usage	This rule collects the CPU usage for a process.
Documentum Index Agent (Windows)	Memory: Private Bytes (in KB)	This rule collects the memory (private bytes in KB) usage for a process.
Documentum Index Agent (Windows)	Memory: Working Set (in KB)	This rule collects the memory (working set in KB) usage for a process.
xPlore Index Server Log Watcher (Windows)	Log File Errors	Collects log file errors of the xPlore Index Server.
Documentum xPlore Index Server (Windows)	Percentage Processor Usage	This rule collects the CPU usage for a process.

Documentum xPlore Index Server (Windows)	Memory: Private Bytes (in KB)	This rule collects the memory (private bytes in KB) usage for a process.
Documentum xPlore Index Server (Windows)	Memory: Working Set (in KB)	This rule collects the memory (working set in KB) usage for a process.

Table 7. Rules

Tasks

The following tasks are a part of this management pack. For more details, refer to *EMC Documentum MP Reference Guide (DMMP_References.html)*.

Target	Display Name	Description
Documentum Repository Data Collector (Windows)	Display Jobs	Displays all jobs under the repository.
Documentum Connection Broker (Windows)	Check Broker Availability (Ping)	Verifies the Broker availability using the ping tool.
Documentum Connection Broker (Windows)	Start Service	Starts the Connection Broker service.
Documentum Connection Broker (Windows)	Stop Service	Stops the Connection Broker service.
Broker Projection Target (Windows)	Check Broker Projection Target Availability (Ping)	Verifies the Connection Broker Projection Target availability using the ping tool.
Documentum Content Server (Windows)	Show Synthetic Transaction Times	Lists client response (synthetic transaction) times.
Documentum Content Server (Windows)	Show Sessions	Lists all sessions with all available information about sessions.
Documentum Content Server (Windows)	Start Content Server Service	Starts the Content Server service.
Documentum Content Server (Windows)	Stop Content Server Service	Stops the Content Server service.
Documentum Index Agent Configuration (Windows)	Display Save To Search Time	Displays the save-to-search (latency) time of a document.

Documentum Index Agent Configuration (Windows)	Display Status	Displays the Index Agent status from the repository perspective.
Documentum Index Server Configuration (Windows)	Display Search Availability Status	Displays the Index Server search availability status.
Documentum Windows Computer	Check Prerequisites for ComTrade DMMP Agent	Checks the prerequisites for EMC Documentum MP Agent.
Documentum Windows Computer	Install ComTrade DMMP Agent	Installs EMC Documentum MP Agent on node.
Documentum MP Agent	Display DMMP Agent License Information	Shows information about EMC Documentum MP Agent license status.
Documentum MP Agent	Display DMMP Agent Service Status	Shows information about EMC Documentum MP Agent service.
Documentum MP Agent	Collect Support Information for ComTrade DMMP Agent	Collects support information for EMC Documentum MP Agent.
Documentum MP Agent	Uninstall ComTrade DMMP Agent	Removes EMC Documentum MP Agent from node.
Documentum MP Agent	Update Configuration on ComTrade DMMP Agent	Updates EMC Documentum MP Agent configuration.
Documentum MP Agent	Update Credentials in Which ComTrade DMMP Agent Runs	Updates the credentials under which EMC Documentum MP Agent runs.
Documentum MP Agent	Update License on ComTrade DMMP Agent	Updates EMC Documentum MP Agent licensing.
Documentum Content Processing Service (Windows)	Display Process Status	Displays the Content Processing Service process status.
Documentum Index Agent (Windows)	Display Process Status	Displays the Index Agent process status.
Documentum xPlore Index Server (Windows)	Display Process Status	Display the xPlore Index Server process status.

Table 8. Tasks

Console Tasks

Target	Display Name	Description
Documentum Index Agent Configuration (Windows)	Open Administrator Web Interface	Opens the Index Agent administration URL in a browser.
Documentum Index Server Configuration (Windows)	Open Administrator Web Interface	Opens the Index Server administration URL in a browser.
Documentum Index Agent	Open Administrator Web Interface	Opens the Index Agent administration URL in a browser.
Documentum Index Server	Open Administrator Web Interface	Opens the Index Server administration URL in a browser.

Table 9. Console tasks

Appendix A

Disabled by Default

Disabled Monitors

Documentum Job Execution Agent (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.Windows.AgentExec.CPU.Usage.Monitor	Overall CPU Usage	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.AgentExec.Memory.Usage.Monitor	Overall Total Memory: Working Set (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.AgentExec.VMem.Usage.Monitor	Overall Memory: Private Bytes (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 10. Documentum Job Execution Agent (disabled monitors)

Documentum Java Method Server (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.Windows.JavaMethodServer.CPU.Usage.Monitor	Overall CPU Usage (in %)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.JavaMethodServer.Memory.Usage.Monitor	Overall Total Memory: Working Set (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.JavaMethodServer.VMem.Usage.Monitor	Overall Memory: Private Bytes (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 11. Documentum Java Method Server (disabled monitors)

Documentum DmBasic Method Server (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.Windows.MethodServer.CPU.Usage.Monitor	Overall CPU Usage (in %)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.MethodServer.Memory.Usage.Monitor	Overall Total Memory: Working Set (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.Windows.MethodServer.VMem.Usage.Monitor	Overall Memory: Private Bytes (in KB)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 12. Documentum DmBasic Method Server (disabled monitors)

Documentum Repository Data Collector (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.RepositoryDataCollector.Queue.MediaServer.Size.Monitor	Number Of Media Server Records In Queue	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.RepositoryDataCollector.Queue.Rendition.Size.Monitor	Number Of Rendition Records In Queue	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 13. Documentum Repository Data Collector (Windows) (disabled monitors)

Disabled Rules

Documentum Index Agent Configuration (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.CreateAwaitingTime	Create Awaiting Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.CreateIndexingTime	Create Indexing Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.CreatePreprocessingTime	Create Preprocessing Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.DestroyAwaiting	Destroy Awaiting Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.DestroyIndexing	Destroy Indexing Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.DestroyPreprocessing	Destroy Preprocessing Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexingProbe.QueryTime	Query Time (in ms)	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexQueue.NumOfItemsAwaitingIndexing	Number Of Objects Awaiting Indexing In Index Queue	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexQueue.NumOfItemsIndexingInProgress	Number Of Objects Currently Being Indexed	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.IndexAgentConfig.PerformanceCollection.IndexQueue.NumOfItemsIndexingWarning	Number Of Objects In Warning State	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 14. Documentum Index Agent Configuration (disabled rules)

Documentum Repository Data Collector (Windows)

Name	Display Name	Management Pack
ComTrade.EMC.Documentum.RepositoryDataCollector.PerformanceCollection.Queue.MediaServer.Size	Number Of Media Server Records In Queue	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
ComTrade.EMC.Documentum.RepositoryDataCollector.PerformanceCollection.Queue.Rendition.Size	Number Of Rendition Records In Queue	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring

Table 15. Documentum Repository Data Collector (Windows) (disabled rules)

Appendix B

Scripts

EMC Documentum MP Scripts

The following table lists EMC Documentum MP scripts:

Name	Management Pack
CTDmMPAELogDataToPropertyBagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPCSLogDataToPropertyBagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPconvertPropertyBagToAnotherDataPr ov.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPgetRegistryValueDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPhealthAgentExecPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPhealthBrokerPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPclientresponsesPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPhealthBrokerProjectionTargetPerfPro v.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPhealthContentServerPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPDocumentumFASTIdxSrvrProviderPerf Prov.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPIndexAgentConfigDataProviderPerfPr ov.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPIndexServerConfigDataProviderPerfPr ov.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPDocumentumJMSPProviderPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPJobsHealthStatusPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPJobsRawHealthStatusPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring

CTDmMPhealthMethodServerPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPxmlToPropertyBagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPQueueHealthStatusPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPRepositoryDataCollectorHealthStatus PerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPShellProgramExecuteDataPov.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPShellPropertyBagProbeDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPcreatePercentageDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPJobsDisplayDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPClientResponseDisplayTimesDataProv .js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPCSSessionsCPUUDiagIPerfProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPIACDisplaySTSStatusDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPIACDisplayStatusDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPIACDisplaySearchStatusDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPAGCPUUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPAGMemUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPAGVMEMUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPCSSessionsCPUUDiagIDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring
CTDmMPCSSessionsCPUUDiagIIDataProv.js	ComTrade.EMC.Documentum.ContentServer.Wi ndows.Monitoring

CTDmMPJMSPUUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPJMSPMemUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPJMSPMemUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPDMBMSPUUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPDMBMSPMemUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPDMBMSPMemUDiagDataProv.js	ComTrade.EMC.Documentum.ContentServer.Windows.Monitoring
CTDmMPDocumentumBrokerDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumComputerDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumContentServerRoleDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumIndexServerCRDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumMPAgentDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumCSRoleComponentnsDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumRepDataCollectorDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumIndexingDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPClusterMPAgentNeedsRestartDataProvider.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumAgentInstallationDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumAgentMaintenanceDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumAgentMaintenanceDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery

CTDmMPDocumentumAgentTasksDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumAgentTasksIDDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumAgentUninstallationDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPMPAgentHealthStatusDataProv.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPMPAgentLicenseHealthStatusDataProv.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDocumentumMPAgentRestartDataProv.vbs	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPDMPAgentDiscovery.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPMPAgentGetLicenseStatusDataProv.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPMPASuccessMonDiagDataProv.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPMPAWrSuccessMonDiagDataProv.js	ComTrade.EMC.Documentum.Windows.Discovery
CTDmMPCPSLogDataToPropertyBagPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPIALogDataToPropertyBagPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPxPloreDsearchLogDataToPropertyBagPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPCPSHealthPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPIIndexAgentHealthPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPIIndexServerHealthPerfProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPDisplayCPSPProcessDataProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring

CTDmMPDisplayIndexAgentProcessDataProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring
CTDmMPDisplayXPloreProcessDataProv.js	ComTrade.EMC.Documentum.xPloreIndexServer.Windows.Monitoring

Table 14. Scripts