**Installing Content Server and Java Method Server for High-Availability in nutshell…**

**NOTE: In order to achieve JMS HA Customer should be on cs6.6 or upgrade from CS 6.x to CS 6.6**

**Java Method Server for High-Availability – (install everything on single machine)**

Content Server and Java Method Server (JMS) each support high-availability (HA). Content Server

Supports two HA types: failover and load balancing. JMS supports failover only.

**• Failover**

In a failover setup, if one of the Content Servers fails, the other Content Servers in the failover

Setup continue with the service.

JMS is a customized version of an application server for executing Content Server Java methods. EMC

Documentum provides a servlet called DO\_METHOD to execute Documentum server methods.

The method server itself is a Java-based web application. It communicates with the Content Server

via HTTP calls. Each time a method is invoked, the Content Server makes an HTTP request passing

the name of the Java class which implements the method along with any specified arguments to a

servlet which knows how to execute the specified method.

**JMS HA configurations**

JMS supports the following HA configurations:

• Content Server and JMS on a single host

• Content Server and JMS on two hosts

• Content Server and JMS on multiple hosts

Content Server HA deployment involves two or more Content Servers. JMS HA involves adding

JMSs to additional Content Servers such that each Content Server has a dedicated JMS.JMS HA is automatically enabled by associating each Content Server with their dedicated JMS

**Considerations (why we go for JMS HA)**

If the performance bottleneck is somewhere other than on Content Server, for example, in disk access

or WDK applications, adding more Content Servers will not improve performance significantly. If

you are using full-text indexing and need to improve search performance, start with an investigation

on the full-text components.

**Supported operating systems**

Content Server and JMS HA is supported on all operating systems that Content Server supports.

See the *EMC Documentum Content Server Enterprise Edition Release Notes* for details on supported

operating systems.

**Installing and configuring Java Method Server in HA mode**

This section details how to install and configure JMS in HA mode:

**Installing and configuring JMS for HA on a single host**

Installing and configuring JMS HA involves several major steps:

• Installing and configuring the main Content Server

• Adding secondary Content Servers

• Preparing JMS for HA and verifying the dm\_jms\_config objects setup

• Adding additional JMS

• Verifying the JMS HA installation and configuration

**To install and configure the main Content Server:**

1. Follow the instructions in Chapter 4, Installing Content Server to install the main Content Server.

2. After the installation completes, run the Content Server configuration program following the

instructions in Chapter 4, Installing Content Server. The Content Server Configuration program

guides you through creating a repository.

The installation of the main Content Server also installs an instance of JMS. A single

dm\_jms\_config object for that instance of JMS is created in the repository.

**To add secondary Content Servers:**

1. Run the cfsConfigurationProgram.exe program. On Windows, this program is located in the

/Documentum/product/6.6/install directory. On UNIX and Linux, this program is located in

the $DM\_HOME/install directory.

2. Provide the appropriate information when prompted to do so by the program.

3. When you are being prompted for the service name, choose a service name that is different from

that of the primary Content Server.

**To prepare the JMS for HA and to verify the dm\_jms\_config objects setup:**

By default the CFS configuration program would install Content Server as a remote Content

Server (RCS) and set its projection to the connection broker to have proximity values of 9001 and

9010. However, JMS HA at present does not support RCS configurations, so you need to make the

following changes manually:

1. Locate the server.ini file. This file is typically located in /Documentum/dba/config/<repository\_

name>/server\_<machine\_name>\_<service\_name>.ini.

2. Modify the DOCBROKER\_PROJECTION\_TARGET for a single host setting: Comment out the

second set of settings, and the proximity value of the first set. The default proximity value will

then be 1.

For example:

[DOCBROKER\_PROJECTION\_TARGET]

host = cshost1

port = 1489

#proximity=9001

[DOCBROKER\_PROJECTION\_TARGET\_1]

#host =

#port =

#proximity =

#host=cshost1

#port=1489

#proximity=9010

3. Restart Content Server

4. Use Documentum Administrator to disassociate CS2 from JMS 1.

**To add Java Method Servers on Windows hosts:**

Before you can add JMS instances, you must package all the web applications previously deployed to

the default embedded JBoss application server with the jmsPackager.bat batch file.

1. Run the jmsPackager.bat file located in /DOCUMENTUM/jmsTools/bin/jmsPackager.bat. When

the packager completes you will be prompted to enter any key to continue to the JMS installation.

2. To add an instance of JMS, navigate to /DOCUMENTUM/jmsTools/bin and click **jmsconfig.exe** to

start the installation wizard. The Welcome dialog box appears.

3. Read the Welcome dialog box, which lists the products to be installed, and click **Next**.

The software license agreement appears.

4. Read the license agreement.

5. To continue, click **I accept the terms of the license agreement** and click **Next**. EMC Documentum Content Server Version 6.6 Installation Guide 125 Installing Content Server and Java Method Server for High-Availability

If you do not accept the license agreement terms, the **Next** button becomes unavailable, and

you cannot continue with the JMS addition.

6. Select **Create Instance** and click **Next**.

7. Type a name for the JMS instance and click **Next**.

8. Type the admin user password and the listen port for the application server and click **Next**.

9. Type the installation owner password and click **Next**.

10. Type the fully qualified domain name (FQDN) and click **Next**.

11. Type the primary installation owner user name and password, and click **Next**. The wizard

now deploys the web application package.

12. Click **Finish** to complete the addition of the JMS instance.

13. Use Documentum Administrator to associate the second Content Server to the second JMS

Instance

**Installing and configuring JMS for HA on multiple hosts (on two different hosts)**

**Refer page no 127,128 CS installation guide CS 6.6**

**Trouble Shooting:**

**For some reasons if you don’t see 2** jms configs object in docbase please follow the below after getting confirmation from customer:

\*\*\* Make sure the customer doesn’t have a Windows cluster in failover (active/passive) mode as if that’s the case; the same serverconfig, ACS config and jms config are used.

\*\*\* If they really have a HA (active/active) configuration, something may have gone wrong with the CFS configuration program.

**Note: Confirm and check that they have 2 server config objects as well as 2 ACS config objects.If that’s the case; you can create manually the dm\_jms\_config.**

DQL> select count(\*) from dm\_server\_config

DQL> select count(\*) from dm\_acs\_config

DQL> select count(\*) from dm\_jms\_config (all)

The (all) is to confirm there’s no 2nd jms config with no CURRENT version.

If only dm\_jms\_config is missing, you do:

API> saveasnew,c,[id of existing jms config]  
API> set,c,l,object\_name  
API> JMS [host]:[port] for [repo].[cs config name]

API> set,c,l,server\_config\_id  
API> [id of server config]

API> set,c,l,base\_uri[0]  
API> [URL of DoMethod]  
API> set,c,l,base\_uri[1]  
API> [URL for DoMail]

API> save,c,l

Please test the same in house and then destroy the new jms config object created.