Technical Installation Record for Execution of INS\_00000565513 : CRQ000000459487 - DCC TIP - Content Server 7.3 Secondary Server Instance in us1sxlx00197

Version 2.0

Approval

Signature blocks are within the document for approval of the Technical Installation Record.

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# Introduction

This plan serves as the primary guide and record for the installation and configuration of **Content Server 7.3 Secondary Server Instance** on Linux systems and includes:

* The context for the system being installed.
* A high-level overview of the process.
* Detailed instructions to perform the installation.
* The approach to verify that the outcome of the installation.
* Annotations to confirm the successful completion of installation and verification steps (as required in the TIP).
* Evidence that is required to document the execution of the installation process which may include screen shots captured in this document or links/references to other documents produced during the installation.
* When initially approved this Technical Installation Plan contains context, background and instructions only. Once executed it will be re-named with new ID and contain installation evidence and become a Technical Installation Record

## Definitions

The following terms could be used in this Technical Installation Plan:

Table 1 - Definitions

| Term | Definition |
| --- | --- |
| Application Layer | The layer that supports the use of the application. |
| Documentum CC or DCC | Documentum Competency Centre, support and deployment of Documentum based systems. Part of R&D IT SDS |
| Content Server | Documentum terminology for the Repository server. |
| D2 | D2 is content management configuration layer from EMC. |
| DAR | Documentum Archive format. |
| Database Layer | The layer that stores the data of the application. |
| Development | The environment to be built for research and development. |
| Docbase | A Documentum database. |
| EIS | End User & Infrastructure Services |
| FTI | Full Text Indexing (see xPlore) |
| GDC | Global Data Centre (Upper Merion, USA) |
| HTTPS | Secure protocol for communications between client and web servers |
| ITCP | IT Continuity Plan |
| LSQM | EMC Life Sciences Quality & Manufacturing Module |
| NAS | Network Attached Storage |
| PDF | Portable Document format. |
| Production | The environment to be deployed for use by the business. |
| Render | A process where the original format (i.e. Microsoft Word) is copied into a PDF format. |
| Repository | See docbase. |
| RHEL | Red Hat Enterprise Linux |
| SAN | Storage Area Network. A method of storing data in a central storage unit located on a dedicated fibre network. |
| SDS | System Delivery & Support, part of R&D IT |
| SSL | Secure Sockets Layer is the standard security technology for establishing an encrypted link between a web server and a client browser. This link ensures that all data passed between the web server and browsers remain private and integral. |
| SSV | EMC Submission Store & View Module |
| Test | The environment to be built for testing. |
| TIP | Technical Installation Plan. |
| UAT | User Acceptance Testing environment (see also Val) |
| Val | The environment to be built for Validation/User Acceptance testing. |
| WADS | GSK Web Application Development Standards |
| WAST | GSK Web Application Security Testing |
| xPlore | New generation full-text indexing and search engine for Documentum platform. |

# Context

Table 2 - Context

|  |  |
| --- | --- |
| **System ID** | ***P014556918*** |
| **System Name** | ***cdms d2 (prd)*** |
| **System Description** | ***CDMS LSQM Production Environment*** |
| **Relevant Technical Specifications** | N/A |
| **Technical Installation Plan** | INS\_00000565513  – DCC TIP – Content Server 7.3 Secondary Server Instance Configuration |
| **TIR Approvers** | Please refer to CDMS Properties of this TIP for approver roles required for the TIR |

## Impact to Operations

Table 3 - Impact to Operations

|  |  |
| --- | --- |
| Required down time | 8 hours |
| Business Impact | There is no impact to operations since this TIP would normally only be implemented as part of a system build |
| Risks / Mitigations | No risk |

## System Components

The following table summarises the collection of system components that may be installed using this TIP:

Table 4 - System Components

| Component | Description |
| --- | --- |
| Documentum Secondary Repository | Documentum Secondary Repository set up |

**Note:** The set of components actually installed during a particular execution will be identified in the Technical Installation Record (TIR).

## Final Environment

Not Applicable

## High-level Approach

The table below contains the overall sequence of actions required to complete the installation. Not all actions may be required for partial execution of this installation plan.

Table 5 - High-level Approach

| # | Action | Comments |
| --- | --- | --- |
|  | Installation Parameters | All the relevant parameter values to be recorded for specific install being conducted. |
|  | Pre-Installation Instructions | Preparation of the server for specific install being conducted. |
|  | Create the Secondary Content Server Instance | Steps for Secondary Content Server Instance configuration |
|  | Configure the Repository | Steps to configure repository |
|  | Post-Installation Tasks | Completing the installation. |
|  | Back Out Plan | To back out the installation. |
|  | Installation Verification | To verify if the installation is successful. |

## TIP Use Instructions

The TIP may be executed hardcopy or electronically and should be used as follows;

Obtain a copy of the blank TIP (electronic / hardcopy as appropriate)

1. Assign new document Title and Assign new document ID
2. Gather information required for Table 9 - Installation Parameters from approved sources.
3. Delete or make as ‘not applicable’ the Approval page from the parent TIP
4. Update revision history to indicate this is version1 of Technical Installation Record
5. Follow the TIP preparation and execution instructions. Instruction cells that have been greyed out do not need to be completed.
6. If Typescript evidence is being captured, ensure that files are given a unique Document ID and stored in the same repository as the TIR and recorded in **Appendix B.**
7. Once install has finished the installer must collate supporting evidence, record any anomaly / deviations in the required section and immediately sign the TIR (either wet signature or via electronic signature (installer only) at version 1). This is to create formal record of the execution at time of execution.
8. The TIR must then be reviewed and approved by the independent reviewer (and QRC if applicable), who should add any additional anomalies / deviations identified as appropriate and sign the TIR (for electronic documents this should be by versioning the document to version 2. Note that the installer does not have to approve the version 2 document).

# Installation Preparation

Table 6 - Installation Preparation

|  |  |  |
| --- | --- | --- |
| **Name** | **Initials** | **Date** |
| ***Priyanga Palani*** | ***PP*** | ***07-Mar-2018*** |

The following table identifies the relevant pre-requisites to installation and their completion;

Table 7 – Installation Pre-Requisites

| # | Pre-Requisite | Rationale | Verified? | Comment |
| --- | --- | --- | --- | --- |
| 1 | Change Control Reference | Required for all controlled environments. |  | ID --CRQ000000459487\_ |
| 2 | DCC TIP - Content Server 7.3 Code Installation | Required for Content Server Information |  | v7.3  INS\_00000540616 [1] |
| 3 | DCC TIP - Content Server 7.3 Docbase Configuration | Required for Docbase Configuration |  | v7.3  INS\_00000549181 [2] on ***<Primary\_Host>*** |
| 4 | Complete Table 9 - Installation Parameters | Required before installation can commence |  | NA |

System components to be installed during this installation execution:

Table 8 - Installed Components

| **Installed?** | **Component** | **Comment** |
| --- | --- | --- |
|  | Content Server 7.3 Docbase – Secondary Instance Configuration | Content Server 7.3 Docbase – Secondary Instance Configured on host us1sxlx00197. |

|  |  |
| --- | --- |
| **Environment being Installed** | **Production** |

## Installation Parameters

Prior to installation, the installer(s) will complete all the relevant parameter values as defined in Table 9 - Installation Parameters

Table 9 - Installation Parameters

| Step # | Description | Rationale | Parameter |
| --- | --- | --- | --- |
|  | Record the personal MUDID of the person performing the installation | All information is recorded | ***Personal\_MUDID***  \_\_\_\_\_dk356634 \_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the IP address of the workstation used to perform this installation | All information is recorded | ***Workstation\_Host***  \_\_\_\_\_ 10.142.89.186\_\_\_\_\_\_\_\_ |
|  | Record the hostname and full qualified domain name of the Primary Content Server hosting the Docbase.  e.g.  us1sxlx00088  us1sxlx00088.corpnet2.com  1489 | All information is recorded | ***Primary\_Host***    \_\_\_\_\_\_\_ us1sxlx00196\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***Primary\_Host\_FQDN***  \_\_\_\_\_ us1sxlx00196.corpnet2.com\_\_\_\_\_\_ |
| ***Primary\_Docbroker\_Port***  \_\_\_\_\_\_\_\_\_\_\_1489\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the hostname and fully qualified domain name of the Secondary server on which the secondary docbase instance is to be installed  e.g.  us1sxlx00089  us1sxlx00089.corpnet2.com | All information is recorded | ***Secondary\_Host***    \_\_\_\_\_\_\_\_us1sxlx00197\_\_\_\_\_\_\_\_\_\_\_ |
| ***Secondary\_Host\_FQDN***  \_\_\_\_\_\_\_us1sxlx00197.corpnet2.com\_\_\_\_\_\_\_ |
|  | Record the Installation Owner to login to the Content Server. Also note the password associated with this user.  e.g.  dmadmin | All information is recorded | ***Installation\_Owner***  \_\_\_\_\_\_\_\_\_dmadmin\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***Installation\_Owner\_Pswd***  ***(Obtained, but not recorded)***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the pathname of the ContentServer installation root  This is the value of $DOCUMENTUM for this instance – for example /opt/dmadmin/server73-cdms | All information is recorded | ***Documentum\_Root***  \_\_\_\_\_\_\_\_/opt/dmadmin/server73\_\_\_\_\_\_\_\_\_\_ |
|  | Obtain details of the docbase to be configured.  Record the information and ensure the DMS Accounts and registry spreadsheets are updated with this information  Notes:   1. Docbase\_HexID is the zero-padded hex value of Docbase\_ID 2. For security purposes, do NOT record the password details in this document | All information is recorded.  Existence of this information is confirmed in the relevant spreadsheets | ***Docbase\_Name***  \_\_\_\_\_\_\_\_\_\_gwdmpr72\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ***Docbase\_ID***  \_\_\_\_\_\_\_\_\_182445\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ***Docbase\_HexID***  \_\_\_\_\_\_\_\_\_0002C8AD \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ***Docbase\_Password***  \_\_\_***(Obtained, but not recorded)***\_\_\_\_  ***Docbase\_Type***  \_\_\_\_\_\_\_\_\_\_\_\_\_p\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ***Oracle\_Instance***  \_\_\_\_\_\_\_\_\_\_\_USPRD085\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record details of the textural description of the docbase and the size class of the Oracle tablespace (small, medium, large) | All information is recorded. | ***Docbase\_Description***  \_\_\_\_\_CDMS LSQM Production Repository\_\_  ***Docbase\_Size***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Obtain details of the name of the Primary Content Server dm\_server\_config.object\_name  e.g: gwdmpr29 | All information is recorded | ***Primary\_Server\_Config***  \_\_\_\_\_\_\_\_\_gwdmpr72\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the name required for the Secondary Content Server dm\_server\_config.object\_name  e.g: gwdmpr29\_cs2 | All information is recorded | ***Secondary\_Server\_Config***  \_\_\_\_\_\_\_\_\_gwdmpr72\_cs2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the pathname of the Content Server and also version  e.g.  /opt/dmadmin  7.3 | All information is recorded | ***Installation\_File\_System***  \_\_\_\_\_\_\_\_\_\_\_\_/opt/dmadmin\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***CS\_Version***  \_\_\_\_\_\_\_\_\_\_\_\_7.3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | The configuration name of the Content Server environment  If the Content Server code is installed under /opt/dmadmin/server72-cdms, then specify 72-cdms here | All information is recorded | ***Env\_Name***  \_\_\_\_\_\_\_\_\_\_\_\_\_73\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record details of the location of the Connection Broker name and port on which to address it | All information is recorded | ***Docbroker\_Host***  \_\_\_\_\_\_\_\_\_\_us1sxlx00196.corpnet2.com\_\_\_\_\_\_  ***Docbroker\_Port***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1489\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record details of the fully qualified domain name of the server hosting the secondary Content Server’s docbroker | All information is recorded | ***Secondary\_Broker***  \_\_\_ us1sxlx00197.corpnet2.com\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record details of the location of the shared directory | All information is recorded | ***Share\_Dir***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/opt/dmadmin/server73/share \_\_\_ |
|  | Record details of the Index Tablespace | All information is recorded | ***Index\_TableSpace***  \_\_\_\_\_\_\_\_\_\_\_\_\_gwdmpr72\_INDEX\_\_ |
|  | Record the value of the dm\_server\_config. ldap\_config\_id for the Primary Content Server | All information is recorded | ***LDAP\_Config\_ID***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_<To be updated>\_\_\_\_\_\_ |
|  | Record details of the Secondary Content Server Java Method Server Port  e.g.  7.3 = port 9680, 7.2 = port 9580, 7.1 = port 9480, 6.7 = port 9380, 6.6 = port 9280, 6.5 = port 9180, 5.3 = 9080 | All information is recorded | ***JMS\_Port***  \_\_\_\_\_\_\_\_\_\_\_\_9680\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the details of the acs port number to be used in the acs.properties file.  Note: Add 4 to the JMS\_Port number to derive the ACS\_port number. E.g. If the JMS port used is 9080 then the ACS port will be 9084. | All information is recorded | ***ACS\_Port***  \_\_\_\_\_\_\_\_\_\_\_9684\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the Details of Documentum Administrator URL to access the ***<Docbase\_Name>*** | All information is recorded | ***DA\_URL***  \_\_\_\_http://us1sxlx00137.corpnet2.com:8080/da/\_\_ |
|  | Record path location of the first (non-distributed) content store  eg:  /dctm/dm001/dmadmin | All information is recorded. | ***Docbase\_Data\_Location***  \_\_\_\_\_\_\_\_/dctm/dm001/dmadmin\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record if Java Method Server high availability should be configured in this environment.  e.g.  Yes /No | All information is recorded. | ***Is\_JMS\_HA***  \_\_\_\_\_\_\_\_\_\_\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the value of the dm\_docbase\_config.r\_object\_id for the Content Server e.g.  3c02c8a880000103 | All information is recorded. | ***Docbase\_Config\_ID***  \_\_\_\_\_\_\_3c02c8ad80000103\_\_\_\_\_\_\_\_\_\_ |
|  | Record the Global Repository for ***<Docbase\_Name>***. Also record the GR user and password.  e.g.  gwdmdv96  dm\_bof\_registry  **Note:** Global Repository docbase name might be the same as ***<Docbase\_Name>*** | All information is recorded. | ***Global\_Rep\_Name***  \_\_\_\_\_\_\_\_\_\_\_\_gwdmpr72\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***Global\_Reg\_Account***  \_\_\_\_\_\_\_\_\_\_dm\_bof\_registry\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***Global\_Reg\_Pswd (Obtained, but not recorded***)\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |

# Installation Execution

Table 10 - Installers

|  |  |  |
| --- | --- | --- |
| **Name** | **Initials** | **Comment** |
| ***Deepika Kumar*** | ***DK*** | ***15-Mar-2018*** |

Table 11 - Timeframe

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Date**  **<dd-mmm-yyyy>** | **Time (24hr)**  **<00:00>** | **Time Zone** | **Name** |
| **Installation Started** | ***15-Mar-2018*** | ***13:50*** | ***IST*** | ***Deepika Kumar*** |
| **Installation Completed** | ***16-Mar-2018*** | ***10:00*** | ***IST*** | ***Deepika Kumar*** |

## Pre-Installation Instructions

This section will cover the pre-install configuration tasks for configuring secondary docbase instance.

 Table 12 - Pre-Installation Instructions

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | Login to the ***<Secondary\_Host>*** server, as the ***<Personal\_MUDID>*** account.  Take a screen print exhibit | Login successful. | Login successful. | Pass | Exhibit  \_\_\_\_\_\_01\_\_\_\_ |
|  | Initiate a typescript. Use the following command:  script -f <typescript\_name>  where <typescript\_name> is the name given by the installer to the logging file  Take a screen print exhibit | The typescript file opens successfully  The name of the typescript is recorded  ***\_\_\_Sec\_Docbase\_197\_15Mar2018.txt\_\_\_\_*** | Type script is enabled | Pass | Exhibit  \_\_\_\_\_01\_\_\_ |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  super ***<Installation\_Owner>***-shell  Enter your personal password when prompted. | Login successful. | Login successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Check dm\_root\_task has been run in this code environment.  Use the following commands:  cd $DM\_DBA  ls -la dm\_check\_password  Note: If dm\_check\_password file does not exist, the configuration of a docbase will not be possible and Section 4.2 of this TIP must NOT be executed until this issue has been resolved. Resolution should consist of requesting the execution the dm\_root\_task script specified in the Content Server code installation TIP | File dm\_check\_password exists in the specified directory with the following ownership and protection:  Protection: -rwsr-s---  Owner: root  Group: dm | File dm\_check\_password exists in the specified directory with the following ownership and protection:  Protection: -rwsr-s---  Owner: root  Group: dm | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure the following service entries exist in /etc/services:  ***<Docbase\_Name>\_***cs2 ***<Docbase\_Name>***\_cs2\_s  and occupy consecutive port numbers and have values > 1500  Use the following command:  ***grep <Docbase\_Name>*** /etc/services | The required entries exist in the services file  The port numbers allocated to the docbase are recorded:  ***<Docbase\_Name>***\_cs2 port : **4503/tcp**  ***<Docbase\_Name>***\_cs2\_s port: **4504/tcp** | The port numbers allocated to the docbase are recorded | Pass | Refer Appendix B Typescript Evidence |
|  | Check a local docbroker is running  Use the following command:  ps –ef | grep dmdocbroker | Docbroker is up and running successfully. | Docbroker is up and running successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure that NLS\_LANG is set to AMERICAN\_AMERICA.UTF8. Use the following command:  echo $NLS\_LANG | The NLS\_LANG variable is set. | The NLS\_LANG variable is set. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure the environment defines variable TNS\_ADMIN  Use the following command:  echo $TNS\_ADMIN  ls -lad $TNS\_ADMIN | Variable TNS\_ADMIN exists and points to a valid directory | Variable TNS\_ADMIN exists and points to a valid directory | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure file $TNS\_ADMIN/tnsnames.ora exists and defines an entry for ***<Oracle\_Instance>***.  Use the following command:  grep ***<Oracle\_Instance>*** $DOCUMENTUM/tnsnames.ora  Note: A minimal version of tnsnames.ora containing just the definitions needed for this server environment is recommended. The Content Server installer will take a very long time to parse the standard global tnsnames.ora file provided by DbS. If necessary, take the standard DbS tnsnames.ora file and edit out unwanted definitions and store this as the tnsnames.ora file to be used here | The specified Oracle database is registered in the tnsnames.ora file | The specified Oracle database is registered in the tnsnames.ora file | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure that the default Oracle Instance is ***<Oracle\_Instance>***.  Use the following commands:  echo $ORACLE\_SID  If this is not the current value, then set it for this session. Use the following commands:  setenv ORACLE\_SID ***<Oracle\_Instance>***  echo $ORACLE\_SID | The default Oracle database for this session is set as specified. | The default Oracle database for this session is set as specified. | Pass | Refer Appendix B Typescript Evidence |
|  | Logout of the ***<Installation\_Owner>*** account using the command:  exit  and close the typescript file using the command:  exit | The logout is successful and the typescript file is closed | NA | NA | NA |

## Create the Secondary Content Server Instance

The installer(s) will complete the steps below:

 Table 13 - Create the Secondary Content Server Instance

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.2.4, marking steps 4.2.1 to 4.2.3 and as “n/a”.  Login to the *<Primary\_Host>* server, as the *<Personal\_MUDID>* account.  Take a screen print exhibit | Login successful. | Login successful. | Pass | Exhibit  \_\_\_\_\_02\_\_\_\_\_ |
|  | Open a typescript logging session  script -f <typescript\_name>  where <typescript\_name> is a suitable UNIX/Linux filename  NOTE: This step assumes that the installer is logged in on a suitable UNIX/Linux host to enable typescript recording to take place  Take a screen print exhibit | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_ **Sec\_Docbase\_196\_15Mar2018.txt** \_\_\_ | Type script is enabled | Pass | Exhibit  \_\_\_\_\_\_02\_\_\_\_ |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  super ***<Installation\_Owner>***-shell  Enter your personal password when prompted. | Login as ***<Installation\_Owner>*** successful. | Login as ***dmadmin*** successful. | Pass | Refer Appendix B Typescript Evidence |
|  | If this is a coexistence environment, ensure the correct server environment is established using the following command., otherwise mark as N/A  use\_***<Env\_Name>***  Verify success using the following command:  echo $DOCUMENTUM | Value of DOCUMENTUM environment variable matches value of ***<Documentum\_Root>*** | Value of DOCUMENTUM environment variable matches value of /opt/dmadmin/server73 | Pass | Refer Appendix B Typescript Evidence |
|  | Create a temporary directory on /documentum/common  Use the following commands  mkdir –p /documentum/common/tmp***/<Personal\_MudID>***  Verify with the following command:  ls –la /documentum/common/tmp***/<Personal\_MudID>*** | The directory is created | The directory is created | Pass | Refer Appendix B Typescript Evidence |
|  | Change to the directory created above  Use the following command:  cd /documentum/common/tmp***/<Personal\_MudID>***  Verify success with the command: pwd | The current directory is /documentum/common/tmp***/<Personal\_MudID>*** | The current directory is /documentum/common/tmp***/***dk356634 | Pass | Refer Appendix B Typescript Evidence |
|  | Copy the LDAP password file  Use the following command  cp $DM\_DBA/config/***<Docbase\_Name>***/ldap\*.cnt .  Verify success using the command  ls –la ldap\*.cnt | The specified file exists | The specified file exists | Pass | Refer Appendix B Typescript Evidence |
|  | Obtain the value of the Primary Content Server ldap\_config\_id to be used subsequently as the value to parameter LDAP\_Config\_ID.. This is required to configure the Secondary Content Server  Use the following commands  idql ***<Docabse\_Name>*** -U***<Installation\_Owner>*** -P  select ldap\_config\_id from dm\_server\_config where object\_name = ***‘<Primary\_Server\_Config>***’  go  exit | The value of ldap\_config\_id is recorded  *ldap\_config\_id:*  \_\_\_ 0802c8ad80001503\_\_\_ | The value of ldap\_config\_id is recorded | Pass | Refer Appendix B Typescript Evidence |
|  | Stop the Java Method Server  Use the following commands:  cd $APPSVR\_HOME  ./stopMethodServer.sh  Verify success using following command:  ps –ef | grep MethodServer | The Java Method Server stopped without error | The Java Method Server stopped without error | Pass | Refer Appendix B Typescript Evidence |
|  | Logout from ***<Primary\_Host>*** | Logout is successful | NA | NA | NA |
|  | Login on target host ***<Secondary\_Host>*** as ***<Personal\_MUDID>*** | Login is successful | NA | NA | NA |
|  | Open a typescript logging session  script -f <typescript\_name>  where <typescript\_name> is a suitable UNIX/Linux filename  NOTE: This step assumes that the installer is logged in on a suitable UNIX/Linux host to enable typescript recording to take place | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | NA | NA | NA |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  super ***<Installation\_Owner>***-shell  Enter your personal password when prompted.  Ensure the correct server environment is established using the following command.  use\_***<Env\_Name>***  Verify success using the following command:  echo $DOCUMENTUM | Login as ***<Installation\_Owner>*** successful.  Value of DOCUMENTUM environment variable matches value of ***<Documentum\_Root>*** | Value of DOCUMENTUM environment variable matches value of /opt/dmadmin/server73 | Pass | Refer Appendix B Typescript Evidence |
|  | Stop the Java Method Server  Use the following commands:  cd $APPSVR\_HOME  ./stopMethodServer.sh  Verify success using following command:  ps –ef | grep MethodServer | The Java Method Server stopped without error | The Java Method Server stopped without error | Pass | Refer Appendix B Typescript Evidence |
|  | Create a directory to hold baselines.  Use the following commands:  mkdir –p /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***  /usr/bin/rm –f /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***/\*  Note carefully the presence of the asterisk in the second command  Verify existence with the command:  ls –la /dctm/dm0/dmadmin/restore/***<Docbase\_Name>*** | Empty directory /dctm/dm0/dmadmin/restore/***<Docbase\_Name>*** exists | Directory /dctm/dm0/dmadmin/restore/gwdmpr72 created | Pass | Refer Appendix B Typescript Evidence |
|  | Create a directory to copy the LDAP password file  $DOCUMENTUM/dba/config/***<Docbase\_Name>***  Verify success with the command:  ls –lad $DOCUMENTUM/dba/config/***<Docbase\_Name>*** | Directory is created | Directory $DOCUMENTUM/dba/config/gwdmpr72 exists is created | Pass | Refer Appendix B Typescript Evidence |
|  | Copy the LDAP password file  Use the following command:  cp –f /documentum/common/tmp***/<Personal\_MudID>***/ldap\*.cnt $DOCUMENTUM/dba/config/***<Docbase\_Name>***  Verify success with the command:  ls –la $DOCUMENTUM/dba/config/***<Docbase\_Name>*** | LDAP file is copied. | LDAP file is copied. | Pass | Refer Appendix B Typescript Evidence |
|  | Set Xwindows environment to point to the desired installation workstation:  *On the desired installation workstation issue one of the following commands:*   * xhost +***<Target\_Host>*** * or if using Hummingbird, start the Exceed application   On ***<Target\_Host>*** issue the following command:  setenv DISPLAY ***<Workstation\_Host>***:0.0  Verify success using the following command:  echo $DISPLAY | Variable DISPLAY is set as defined | Variable DISPLAY is set as defined | Pass | Refer Appendix B Typescript Evidence |
|  | Change directory to $DM\_HOME/install and invoke the docbase configuration program. Use the following commands:  cd $DM\_HOME/install ./cfsConfigurationProgram.bin  Respond as detailed in steps 4.2.20 - 4.2.30 | The program commences | The program commences | Pass | Exhibit  \_\_\_\_\_03\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Primary Connection Broker Host: ***<Primary\_Host\_FQDN>***  Primary Connection Broker Port: ***<Primary\_Docbroker\_Port>***  Ensure Use Certificates is unchecked.  Click **Next**  Take a screen print exhibit | The options are completed as specified | The options are completed as specified | Pass | Exhibit  \_\_\_\_\_04\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Connection Broker Host: ***<Secondary\_Broker>***  Click **Next**  Take a screen print exhibit | The options are completed as specified | The options are completed as specified | Pass | Exhibit  \_\_\_\_\_\_05\_\_\_ |
|  | Ensure the data fields are set as follows:  Repository : <***Docbase\_Name>***  Primary Server Config Object Name : <***Primary\_Server\_Config***>  Super User Name : <***Installation\_Owner***>  Super User Password : <***Installation\_Owner\_Pswd***>  Click **Next**  Take a screen print exhibit | Options are completed as specified. | Options are completed as specified. | Pass | Exhibit  \_\_\_\_\_06\_\_\_\_ |
|  | In the AEK and Lockbox setting for Content Server screen  Accept Default AEK Key Name  Ensure AEK Passphrase is blank  Ensure “Enable Lockbox” is un-checked.  Click **Next**  Take a screen print exhibit | The 'Security Setting' screen appears  The options are completed as specified | The 'Security Setting' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_07\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Projection Connection Broker Host: ***<Secondary\_Host\_FQDN>***  Projection Connection Broker Port: ***<Docbroker\_Port>***  Ensure Use Certificates is unchecked.  Click **Next**  Take a screen print exhibit | The options are completed as specified | The options are completed as specified | Pass | Exhibit  \_\_\_\_\_\_08\_\_\_\_ |
|  | Ensure “Data Directory Path” contains ***<Docbase\_Data\_Location>***  Ensure No is selected for “Is this a SAN or NAS device”  Click **Next**  Take a screen print exhibit | The 'Select Data Directory' screen appears  The options are completed as specified | The 'Select Data Directory' screen appears  The options are completed as specified | Pass | Exhibit  \_\_09\_\_\_\_\_\_\_ |
|  | Ensure “share directory” contains ***<Share\_Dir>***  Click **Next**  Take a screen print exhibit | The 'Select share directory' screen appears  The options are completed as specified | The 'Select share directory' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_10\_\_\_\_\_\_ |
|  | Ensure “Service Name” contains ***<Docbase\_Name>***  Click **Next**  Take a screen print exhibit | The options are completed as specified | The options are completed as specified | Pass | Exhibit  \_\_\_\_11\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Server Config Object Name : <***Secondary\_Server\_Config***>  Click **Next**  Take a screen print exhibit | Options are completed as specified. | Options are completed as specified. | Pass | Exhibit  \_\_\_\_\_12\_\_\_\_ |
|  | IF ***<Global\_Rep\_Name>*** = ***<Docbase\_Name>*** then  Ensure Login Name is set to ***<Global\_Reg\_Account>***  Password: ***<Global\_Reg\_Password>***  Select Test Connection. Click **Next.**  Note: Obtain ***<Global\_Reg\_Password>*** from the DMS Accounts spreadsheet - do NOT record it in this iteration of the TIP  Take a screen print exhibit | The 'Global Registry' screen appears  The options are completed as specified | The 'Global Registry' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_13\_\_\_\_\_ |
|  | Check the message indicates that the docbase has been created successfully  Click **Next**  Take a screen print exhibit | The 'Server Configuration Program - Summary' screen appears  The options are completed as specified | The options are completed as specified | Pass | Exhibit  \_\_\_\_14\_\_\_\_\_ |
|  | Verify installation log file for any errors  Execute the following command to view the log file.  cat $DM\_HOME/install/logs/install.log | Log file was verified successfully. | Log file was verified successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Shutdown the docbase. Use the following command:  $DM\_DBA/dm\_shutdown**\_<Docbase\_Name>\_<Docbase\_Name>**  Confirm shutdown is successful using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | Docbase shuts without error. ps command displays no docbase processes.  Capture the docbase log file for evidence. | Docbase shuts without error. ps command displays no docbase processes. | Pass | Refer Appendix B Typescript Evidence |
|  | Rename the file dm\_start\_***<Docbase\_Name>\_<Docbase\_Name>*** as dm\_start\_***<Docbase\_Name>***\_cs2 using the below command.  cd $DM\_DBA/  mv dm\_start\_***<Docbase\_Name>\_<Docbase\_Name>*** dm\_start***\_<Docbase\_Name>***\_cs2  Verify success using the command  ls –ladm\_start***\_<Docbase\_Name>***\_cs2 | The file rename is successful. | The file rename is successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Rename the file dm\_shutdown\_***<Docbase\_Name>\_<Docbase\_Name>*** as dm\_shutdown\_***<Docbase\_Name>*** using the below command.  cd $DM\_DBA/  mv dm\_shutdown\_***<Docbase\_Name>\_<Docbase\_Name>*** dm\_shutdown***\_<Docbase\_Name>***\_cs2  Verify success using the command  ls –ladm\_shutdown***\_<Docbase\_Name>***\_cs2 | The file rename is successful. | The file rename is successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Rename the file server\_***<Docbase\_Name>\_***cs2.inias server.ini using the below command.  cd $DM\_DBA/config/<***Docbase\_Name***>  mv server\_<***Docbase\_Name***>\_cs2.ini server.ini  Verify success using the command  ls –laserver.ini | The file rename is successful. | The file rename is successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Edit the file dm\_start\_***<Docbase\_Name>***\_cs2to   1. replace the occurrences ofserver\_**<*Docbase\_Name>\_***cs2.inias server.ini   Verify success using  cat dm\_start***\_<Docbase\_Name>***\_cs2 | File edit is successful. | File edit is successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Start the docbase  Use the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***\_cs2  Verify success using the following command:  ps -ef | egrep ***<Docbase\_Name>***  ipcs -a | grep ***<Installation\_Account>***  Verify success using following command:  cat $DM\_DBA/log/***<Docbase\_Name>\_***cs2.log  **Note**: $DM\_DBA/log/***<Docbase\_Name>***\_cs2.log records the startup messages, until the docbroker checkpoint is set.  The start of the AGENT\_EXEC should be recorded in the log file, approx 2 minutes after the initial checkpoint, and be visible as a UNIX process  For a running docbase there should be two memory segments plus one semaphore per docbase. | The docbase process is launched | The docbase process is launched | Pass | Refer Appendix B Typescript Evidence |
|  | Logout of the ***<Installation\_Owner>*** account using the command:  exit  and close the typescript file using the command:  exit | The logout is successful and the typescript file is closed | NA | NA | NA |

## Configure the Repository

The installer(s) will complete the steps below on ***<CS\_Host>***

Table 14 - Configure the Repository

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.3.4, marking steps 4.3.1 to 4.3.3 and as “N/A”.  Login to the *<Secondary\_Host>* server, as the *<Personal\_MUDID>* account. | Login successful. | NA | NA | NA |
|  | Open a typescript logging session  *script -f* ***<typescript\_name>***  where <typescript\_name> is a suitable UNIX/Linux filename  **Note:** This step assumes that the installer is logged in on a suitable UNIX/Linux host to enable typescript recording to take place | File of name <typescript\_name> is created.  The name of the typescript is recorded:  ***\_\_\_\_\_\_\_\_\_\_*NA*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** | NA | NA | NA |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  *super* ***<Installation\_Owner>****-shell*  Enter your personal password when prompted. | Login as ***<Installation\_Owner>*** successful. | NA | NA | NA |
|  | Ensure updated environment is current:  use\_***<Env\_Name>*** | The script executes without error. | NA | NA | NA |
|  | Verify if the sysadmin directory exists  ls –la $DM\_DBA/log/**<*Docbase\_HexID*>/**sysadmin  If does not exists create the directory  mkdir –p $DM\_DBA/log/***<Docbase\_HexID>***/sysadmin  Verify success with the following command:  ls –la $DM\_DBA/log/<***Docbase\_HexID>***/sysadmin | The specified directory exists | The specified directory exists | Pass | Refer Appendix B Typescript Evidence |
|  | Run the below api command to enable JMS High Availability feature of Content Server 7.3  append,c,<***Docbase\_Config\_ID***>,r\_module\_name  JMS\_HA\_SETUP\_ENABLED  append,c,***<Docbase\_Config\_ID>***,r\_module\_mode  1  save,c,***<Docbase\_Config\_ID>***  Verify success using the below DQL.  select r\_object\_id,r\_module\_name,r\_module\_mode from dm\_docbase\_config enable (row\_based) | Docbase config is updated. | Docbase config is updated. | Pass | Refer Appendix B Typescript Evidence |
|  | Run the below API to include the available Java method servers to server config object.  apply,c,NULL,REFRESH\_JMS\_CONFIG\_LIST,DEFAULT\_JMS\_VALUES,B,T  Verify success using the following command  select r\_object\_id,object\_name,jms\_config\_id,jms\_type,jms\_mode from dm\_server\_config enable (row\_based) | Java method servers are added server config objects. | Java method servers are added server config objects. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure that in secondary dm\_jms\_config, the value of servlet\_name[n] is do\_method and the value of base\_url[n] is  http://***<Secondary\_Host\_FQDN>***:***<JMS\_Port>*** /DmMethods/servlet/DoMethod  Note: n can be a value - 0,1,2 etc., | In dm\_jms\_config servlet\_name[n] is do\_method has respective URL in  base\_url[n]. | In dm\_jms\_config servlet\_name[n] is do\_method has respective URL in  base\_url[n]. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure that in primary dm\_jms\_config, the value of servlet\_name[n] is do\_method and the value of base\_url[n] is  http://***<Primary\_Host\_FQDN>***:***<JMS\_Port>*** /DmMethods/servlet/DoMethod  Note: n can be a value - 0,1,2 etc., | In dm\_jms\_config servlet\_name[n] is do\_method has respective URL in  base\_url[n]. | In dm\_jms\_config servlet\_name[n] is do\_method has respective URL in  base\_url[n]. | Pass | Refer Appendix B Typescript Evidence |
|  | Restart the repository to enable the JMS HA feature.  Shutdown the docbase. Use the following command:  $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***\_cs2  Confirm shutdown is successful using the following command:  ps -ef | egrep ***<Docbase\_Name>***  Start the docbase  Use the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***\_cs2  Verify success using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | Restart is completed successfully. | Restart is completed successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Start the Java Method Server  Use the following commands:  nohup ./startMethodServer.sh > /dctm/dm0/dmadmin/***<Env\_Name>***/appserver/log/startup.log &  Note: Note carefully the trailing “&” in the last command – it is essential  Verify success using the command:  ps -ef | egrep MethodServer | The Java Method Server restarted | The Java Method Server restarted | Pass | Refer Appendix B Typescript Evidence |
|  | Login to ***<Docbase\_Name>*** as ***<Installation\_Owner>*** using ***<DA\_URL>***  Navigate to **Basic Configuration 🡪 Java Method Servers** | Server config names are displayed | Server config names are displayed | Pass | Refer Appendix B Typescript Evidence |
|  | Select the server config name ***<Docbase\_Name>*** and click on**View**menu item and select**JMS HA configuration.**  Select the JMS config object from the dropdown list with **JMS Mode - Load balancing & Failover and click OK.**  Perform the above action for all available JMS config object with JMS Mode - Load balancing & Failover and click OK once all the JMS config objects are added.  Take a screen print exhibit | JMS HA configuration is completed for server config name ***<Docbase\_Name>*** | JMS HA configuration is completed for server config name ***gwdmpr72*** | Pass | Exhibit  \_\_\_\_15\_\_\_\_\_\_ |
|  | Select the server config name ***<Docbase\_Name>***\_cs2and click on**View**menu item and select**JMS HA configuration*.***  Select the JMS config object from the dropdown list with **JMS Mode - Load balancing & Failover and click OK.**  Perform the above action for all available JMS config object with JMS Mode - Load balancing & Failover and click OK once all the JMS config objects are added.  Take a screen print exhibit | JMS HA configuration is completed for server config name ***<Docbase\_Name>***\_cs2 | JMS HA configuration is completed for server config name gwdm-r72\_cs2 | Pass | Exhibit  \_\_\_\_16\_\_\_\_\_ |
|  | Setup Designated servers for jobs  Use the following commands:  idql ***<Docbase\_Name>*** -U***<Installation\_Account>*** -P  UPDATE dm\_job OBJECT  SET target\_server = '***<Docbase\_Name>***.***<Primary\_Server\_Config>***@***<Primary\_Host>***'  WHERE object\_name !='dm\_LogPurge***\_<Secondary\_Server\_Config>***'  go  Verify success using the command:  Select target\_server from dm\_job where object\_name !='dm\_LogPurge\_***<Secondary\_Server\_Config>'***  Exit IDQL | Jobs configuration updated successfully. | Jobs configuration updated successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Shutdown the docbase. Use the following command:  $DM\_DBA/dm\_shutdown**\_<Docbase\_Name>**\_cs2  Confirm shutdown is successful using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | Docbase shuts without error. ps command displays no docbase processes.  Capture the docbase log file for evidence. | Docbase shuts without error. ps command displays no docbase processes. | Pass | Refer Appendix B Typescript Evidence |
|  | Start the docbase. Use the following command:  $DM\_DBA/***dm\_start\_<Docbase\_Name>***\_cs2  Confirm startup is successful using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | The docbase starts successfully. ps command shows running processes for the selected docbase | The docbase starts successfully. ps command shows running processes for the selected docbase | Pass | Refer Appendix B Typescript Evidence |
|  | Verify ldap\_config\_id for the Secondary Instance  Use the following command  idql ***<Docbase\_Name>*** –U***<Installation\_Owner>*** -P  select ldap\_config\_id from dm\_server\_config where object\_name = ***‘<Secondary\_Server\_Config>’***  If the value of ldap\_config\_id is not the same as retrieved in step 4.2.8, execute the following command:  update dm\_server\_config object set ldap\_config\_id = ***‘<ldap\_config\_id>’*** where object\_name = ***‘<Secondary\_Server\_Config>’***  go  Verify success using following command:  select ldap\_config\_id from dm\_server\_config where object\_name = ***‘<Secondary\_Server\_Config>’***  exit  Note: For ***<ldap\_config\_id>***, use the value returned in step 4.2.8 | The secondary server configuration object is successfully updated | The secondary server configuration object is successfully updated | Pass | Refer Appendix B Typescript Evidence |
|  | Verify ***<Primary\_Server\_Config>*** is pointing to ***<Primary\_Host\_FQDN>***.  Use the following command  idql ***<Docbase\_Name>*** –U***<Installation\_Owner>*** -P  select web\_server\_loc from dm\_server\_config where object\_name = ***‘<Primary\_Server\_Config>’***  If the value of web\_server\_loc is not the same as ***<Primary\_Host\_FQDN>***, execute the following command:  update dm\_server\_config object set web\_server\_loc = ***‘<Primary\_Host\_FQDN>’*** where object\_name = ***‘<Primary\_Server\_Config>’***  go  Verify success using following command:  select web\_server\_loc from dm\_server\_config where object\_name = ***‘<Primary\_Server\_Config>’***  exit | The primary server configuration object is successfully updated | The primary server configuration object is successfully updated | Pass | Refer Appendix B Typescript Evidence |
|  | Verify ***<Secondary\_Server\_Config>*** is pointing to ***<Secondary\_Host\_FQDN>***.  Use the following command  idql ***<Docbase\_Name>*** –U***<Installation\_Owner>*** -P  select web\_server\_loc from dm\_server\_config where object\_name = ***‘<Secondary\_Server\_Config>’***  If the value of web\_server\_loc is not the same as ***<Secondary\_Host\_FQDN>***, execute the following command:  update dm\_server\_config object set web\_server\_loc = ***‘<Secondary\_Host\_FQDN>’*** where object\_name = ***‘<Secondary\_Server\_Config>’***  go  Verify success using following command:  select web\_server\_loc from dm\_server\_config where object\_name = ***‘<Secondary\_Server\_Config>’***  exit | The secondary server configuration object is successfully updated | The secondary server configuration object is successfully updated | Pass | Refer Appendix B Typescript Evidence |
|  | Add the docbase entry in the docbase authority file  Using a suitable text editor, edit file /opt/dmadmin/dmg\_scripts/docbase\_authority\_file  append a single line comprising colon-delimited values in the following order:  ***<Secondary\_Host>***:***<Docbase\_Name>***:***<Docbase\_Type>***:***<Oracle\_Instance>***:x:***<Thumbnail\_Server>***:***<Env\_Name>***:NNNNNNN  Save edits and exit the editor  Verify the file using the following command:  cat /opt/dmadmin/dmg\_scripts/docbase\_authority\_file | The docbase authority file updated. | The docbase authority file updated. | Pass | Refer Appendix B Typescript Evidence |
|  | Stop all Content Server processes associated with *<Docbase\_Name>.*  Use the following command:  */opt/dmadmin/dmg\_scripts/init\_documentum -a stop -e init*  Check processes are running:  *ps -ef | grep dmadmin | grep -v grep* | Docbase ***<Docbase\_Name>*** stopped successfully. | Docbase ***gwdmpr72*** stopped successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Backup the keystore (directory $DM\_DBA/secure)  Use the following commands:  cd $DM\_DBA/secure  tar cvf /dctm/dm0/dmadmin/restore/***<Docbase\_Name>/***keystore.tar ***ldapdb***  Verify success using the following command:  ls –la /dctm/dm0/dmadmin/restore/***<Docbase\_Name>/***keystore.tar | The archive file is created | The archive file is created | Pass | Refer Appendix B Typescript Evidence |
|  | Secure a tar archive of the docbase configuration directory. Use the following commands:  cd $DM\_DBA/config  tar cvf /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***\_config\_<date>.tar ***<Docbase\_Name>***  where <date> is today’s date in ISO format (i.e. YYYY-MM-DD) | Archive is successfully created  The pathname of the archive is recorded  \_\_\_ /dctm/dm0/dmadmin/restore/gwdmpr72\_config\_2018-03-15.tar \_\_\_\_\_ | Archive is successfully created | Pass | Refer Appendix B Typescript Evidence |
|  | Delete the temporary directory  Use the following command  /bin/rm –fR /documentum/common/tmp***/<Personal\_MudID>***  Verify success with the command:  ls –lad /documentum/common/temp***/<Personal\_MudID>*** | The directory no longer exists | The directory no longer exists | Pass | Refer Appendix B Typescript Evidence |
|  | Start all Content Server processes associated with *<Docbase\_Name>.*  Use the following command:  */opt/dmadmin/dmg\_scripts/init\_documentum -a start -e init*  Check processes are running:  *ps -ef | grep dmadmin | grep -v grep* | Docbase ***<Docbase\_Name>*** started successfully. | Docbase ***gwdmpr72*** started successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Request the new docbase is submitted for standard monitoring in accordance with prevailing standards and procedures | The docbase is included in standard monitoring procedures | NA | NA | NA |
|  | Close the typescript  Use the following command:  exit | The typescript command exits | NA | NA | NA |
|  | Store the following log files   * + Typescripts generated as a part of this TIP execution   Delete the typescript and ServerConfigurator.log files once safely stored | Evidence is stored | Evidence is stored | Pass | Refer Appendix B Typescript Evidence |
|  | Update the following items:   * Pandora change control record * Pandora Component record * Repository Inventory * DMS Accounts spreadsheet – ensure details of account, server, database, passwords and password change dates are recorded | Tracking mechanisms updated. | NA | NA | NA |

## Post-Installation Tasks

The installer(s) will complete all the steps below:

Table 15 – Post-Installation Tasks

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.4.4 marking steps 4.4.1 to 4.4.3 as “N/A”.  Login to the *<Primary\_Host>* server, as the *<Personal\_MUDID>* account. | Login successful. | NA | NA | NA |
|  | Open a typescript logging session  *script -f* ***<typescript\_name>***  where <typescript\_name> is a suitable UNIX/Linux filename | File of name <typescript\_name> is created.  The name of the typescript is recorded:  ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** | NA | NA | NA |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  *super* ***<Installation\_Owner>****-shell*  Enter your personal password when prompted. | Login as ***<Installation\_Owner>*** successful. | NA | NA | NA |
|  | If this is a coexistence environment, ensure the correct server environment is established using the following command., otherwise mark as N/A  use\_***<Env\_Name>***  Verify success using the following command:  echo $DOCUMENTUM | Value of DOCUMENTUM environment variable matches value of ***<Documentum\_Root>*** | NA | NA | NA |
|  | Edit $DM\_DBA/config/***<Docbase\_Name>***/server.ini. Ensure the following values are set  [DOCBROKER\_PROJECTION\_TARGET\_nn]  host = ***<Secondary\_Host>***  port = ***<Docbroker\_Port>***  proximity = 10  <nn> is an incrementing number, one greater than the highest number in the last DOCBROKER\_PROJECTION\_TARGET entry. Zero-padding is not required  Verify success using following command:  cat $DM\_DBA/config/***<Docbase\_Name>***/server.ini | Projection values set successfully | Projection values set successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Start all Content Server processes associated with *<Docbase\_Name>.*  Use the following command:  */opt/dmadmin/dmg\_scripts/init\_documentum -a start -e init*  Check processes are running:  *ps -ef | grep dmadmin | grep -v grep* | Docbase ***<Docbase\_Name>*** started successfully. | Docbase gwdmpr72 started successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Login to ***<Docbase\_Name>*** as ***<Installation\_Owner>*** using IDQL. Execute the following command;  update dm\_client\_rights objects set principal\_auth\_priv = 1, set server\_trust\_priv = 1  Exit IDQL | Clients rights updated successfully. | Clients rights updated successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Logout of the ***<Installation\_Owner>*** account using the command:  exit  and close the typescript file using the command:  exit | The logout is successful and the typescript file is closed | NA | NA | NA |
|  | If not already logged in, complete this step; otherwise skip to step 4.4.12 marking steps 4.4.9 to 4.4.11 as “N/A”.  Login to the *<Secondary\_Host>* server, as the *<Personal\_MUDID>* account. | Login successful. | NA | NA | NA |
|  | Open a typescript logging session  *script -f* ***<typescript\_name>***  where <typescript\_name> is a suitable UNIX/Linux filename | File of name <typescript\_name> is created.  The name of the typescript is recorded:  ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** | NA | NA | NA |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  *super* ***<Installation\_Owner>****-shell*  Enter your personal password when prompted. | Login as ***<Installation\_Owner>*** successful. | NA | NA | NA |
|  | If this is a coexistence environment, ensure the correct server environment is established using the following command., otherwise mark as N/A  use\_***<Env\_Name>***  Verify success using the following command:  echo $DOCUMENTUM | Value of DOCUMENTUM environment variable matches value of ***<Documentum\_Root>*** | NA | NA | NA |
|  | Set the data directory in $DOCUMENTUM/share/config/dfc.properties  Update $DOCUMENTUM/share/config/dfc.properties and ensure dfc.data.dir is set as below.  dfc.data.dir=/dctm/dm0/dmadmin/***<Env\_Name>***/tmp/dctm\_data  Verify success using following commands:  cat $DOCUMENTUM/share/config/dfc.properties | dfc.properties updated successfully | dfc.properties updated successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Set the data directory in $APPSVR\_HOME/DctmServer\_MethodServer/deployments/ServerApps.ear/APP-INF/classes/dfc.properties  Update $APPSVR\_HOME/DctmServer\_MethodServer/deployments/ServerApps.ear/APP-INF/classes/dfc.properties and include the following property  dfc.data.dir=/dctm/dm0/dmadmin/***<Env\_Name>***/tmp/serverapps\_data  Verify success using following commands:  cat $APPSVR\_HOME/DctmServer\_MethodServer/deployments/ServerApps.ear/APP-INF/classes/dfc.properties | dfc.properties updated successfully | dfc.properties updated successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Set the data directory in $APPSVR\_HOME/DctmServer\_MethodServer/deployments/acs.ear/lib/configs.jar/dfc.properties  Update $APPSVR\_HOME/DctmServer\_MethodServer/deployments/acs.ear/lib/configs.jar/dfc.properties and include the following property  dfc.data.dir=/dctm/dm0/dmadmin/***<Env\_Name>***/tmp/acs\_data  Verify success using following commands:  cat $APPSVR\_HOME/DctmServer\_MethodServer/deployments/acs.ear/lib/configs.jar/dfc.properties | dfc.properties updated successfully | dfc.properties updated successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure the following values are set in $DM\_DBA/config/***<Docbase\_Name>***/server.ini  [DOCBROKER\_PROJECTION\_TARGET]  host = ***<Secondary\_Host>***  port = ***<Docbroker\_Port>***  proximity = 1  [DOCBROKER\_PROJECTION\_TARGET\_nn]  host = ***<Primary\_Host >***  port = ***<Docbroker\_Port>***  proximity = 10  <nn> is an incrementing number, one greater than the highest number in the last DOCBROKER\_PROJECTION\_TARGET entry. Zero-padding is not required  Verify success using following command:  cat $DM\_DBA/config/***<Docbase\_Name>***/server.ini  **Note**: host value should not be in FQDN format | Projection values set successfully | Projection values set successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Stop the docbase  Use the following commands:  $DM\_DBA/dm\_stop\_***<Docbase\_Name>***  ps –ef | egrep ***<Docbase\_Name>***  ipcs –a | grep ***<Installation\_Owner>*** | The docbase stops  Processes related to the docbase no longer exist  The memory segments used by the docbase are released | The docbase stops  Processes related to the docbase no longer exist  The memory segments used by the docbase are released | Pass | Refer Appendix B Typescript Evidence |
|  | Start the docbase  Use the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***\_cs2  Verify success using the following command:  ps –ef | egrep ***<Docbase\_Name>*** | The docbase process is launched | The docbase process is launched | Pass | Refer Appendix B Typescript Evidence |
|  | Logout of the ***<Installation\_Owner>*** account using the command:  exit  and close the typescript file using the command:  exit | The logout is successful and the typescript file is closed | NA | NA | NA |

## Back Out Plan

Should the above installation procedure fail, the installer(s) will need to complete all the steps below to return the system to its original configuration:

 Table 16 - Back Out Plan

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in ***<Secondary\_Host>***, complete this step; otherwise skip to step 4.5.3, marking steps 4.5.1 and 4.5.2 as “n/a”.  Login to the ***<Secondary\_Host>*** server, as the ***<Personal\_MUDID>*** account.  Take a screen print exhibit | Login successful. | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_\_ |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  super ***<Installation\_Owner>***-shell  Enter your personal password when prompted. | Login successful. | NA | NA | NA |
|  | Initialize environment:  use\_***<Env\_Name>*** | The script executes without error. | NA | NA | NA |
|  | Shutdown the docbase. Use the following command:  *$DM\_DBA/dm\_shutdown****\_<Docbase\_Name>***\_cs2  Test for successful shutdown. Use the following  command:  ps –ef | grep ***<Docbase\_Name>***  If processes remain, remove them using the kill command specifying process ids derived from the above ps command | No ***<Docbase\_Name>*** process is running. | NA | NA | NA |
|  | Delete the following directories if they exist:  $DM\_DBA/config/***<Docbase\_Name>*** ***<Share\_Dir>***/data/common/***<Docbase\_ID>*** ***<Share\_Dir>***/data/common/***<Docbase\_Name>*** ***<Share\_Dir>***/temp/ldif/***<Docbase\_Name>*** ***<Share\_Dir>***/temp/replicate/***<Docbase\_Name>***  Use the following commands:  /bin/rm –fR $DM\_DBA/config/***<Docbase\_Name>***  /bin/rm –fR ***<Share\_Dir>***/data/common/***<Docbase\_ID>***  /bin/rm –fR ***<Share\_Dir>***/data/common/***<Docbase\_Name>***  /bin/rm –fR ***<Share\_Dir>***/temp/ldif/***<Docbase\_Name>***  /bin/rm –fR ***<Share\_Dir>***/temp/replicate/***<Docbase\_Name>***  Note: It is permissible and not an error for any of the above directories not to exist | The specified directories do not exist. | NA | NA | NA |
|  | Delete the following files:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***\_cs2 $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***\_cs2$DM\_DBA/log/***<Docbase\_Name>***\_cs2  Use the following commands:  rm –f $DM\_DBA/dm\_start\_***<Docbase\_Name>***\_cs2  rm –f $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***\_cs2  /bin/rm –f $DM\_DBA/log/***<Docbase\_Name>***\* | The specified files do not exist | NA | NA | NA |
|  | Remove the docbase entry from $DM\_DBA/dm\_documentum\_config.txt  Using a suitable text editor edit file $DM\_DBA/dm\_documentum\_config.txt  Locate the section commencing [DOCBASE\_***<Docbase\_Name>***]  Delete this and subsequent lines until the end of the section  Save edits and exit the editor  Verify success using the following command:  cat $DM\_DBA/dm\_documentum\_config.txt | Docbase entry removed from file | NA | NA | NA |
|  | Remove the docbase entry from $DOCUMENTUM/docbase\_authority\_file  Using a suitable text editor edit file $DOCUMENTUM/docbase\_authority\_file  Locate any line commencing with ***<Docbase\_Name>***  Delete the line  Save edits and exit the editor  Verify success using the following command:  cat $DOCUMENTUM/docbase\_authority\_file | Docbase entry removed from file | NA | NA | NA |
|  | Delete the server configuration object  Login to ***<Docbase\_Name>*** as ***<Installation\_Owner>*** using ***<DA\_URL>***  Navigate to **Basic Configuration 🡪 Content Servers**  Right Click the ***<Secondary\_Server\_Config>***  Click Delete  Click OK  Log Out of ***<DA\_URL>*** | A screenshot of the results is taken | NA | NA | NA |

## Installation Verification

The installer(s) will run this section to verify if the installation is successful.

Table 17 – Installation Verification

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.6.4 marking steps 4.6.1 to 4.6.3 and as “N/A”.  Login to the *<Secondary\_Host>* server, as the *<Personal\_MUDID>* account. | Login successful. | NA | NA | NA |
|  | Open a typescript logging session  *script -f* ***<typescript\_name>***  where <typescript\_name> is a suitable UNIX/Linux filename | File of name <typescript\_name> is created.  The name of the typescript is recorded:  ***\_\_\_\_\_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** | NA | NA | NA |
|  | Login as ***<Installation\_Owner>*** by issuing the following command:  *super* ***<Installation\_Owner>****-shell*  Enter your personal password when prompted. | Login as ***<Installation\_Owner>*** successful. | NA | NA | NA |
|  | If this is a coexistence environment, ensure the correct server environment is established using the following command., otherwise mark as N/A  use\_***<Env\_Name>***  Verify success using the following command:  echo $DOCUMENTUM | Value of DOCUMENTUM environment variable matches value of ***<Documentum\_Root>*** | NA | NA | NA |
|  | Determine baseline memory usage  Use the following command:  ipcs –a | grep ***<Installation\_Owner>*** | The command executes successfully | The command executes successfully | Pass | Refer Appendix B Typescript Evidence |
|  | Query the Connection Broker  Use the following command:  dmqdocbroker -c getservermap ***<Docbase\_Name>*** | Details of the docbase under test are displayed and the program terminates | Details of the docbase under test are displayed and the program terminates | Pass | Refer Appendix B Typescript Evidence |
|  | Connect via idql:  Use the following commands:  idql  respond as prompted in turn with  ***<Docbase\_Name> <Installation\_Owner>***password for the account  and execute the following statements  describe dm\_server\_config select \* from dm\_docbase\_config go quit | The program is invoked and prompts for docbase  The program prompts for account details and password  The specified user is connected  A description of the dm\_server\_config object is displayed  The query is executed and the results displayed  The program exits | The program is invoked and prompts for docbase  The program prompts for account details and password  The specified user is connected  A description of the dm\_server\_config object is displayed  The query is executed and the results displayed  The program exits | Pass | Refer Appendix B Typescript Evidence |
|  | Content management  Establish a session with the docbase using an approved client for that docbase - e.g. Webtop  Take a screen print exhibit | A docbase session starts successfully | A docbase session starts successfully | Pass | Exhibit  \_\_17\_\_\_\_\_ |
|  | Move to Temp folder  Take a screen print exhibit | Client software displays Temp folder | Client software displays Temp folder | Pass | Exhibit  \_\_\_\_18\_\_\_\_ |
|  | Create and check in a sample Word document Test1.doc with arbitrary contents  Take a screen print exhibit | Document Test1.doc is created successfully | Document Test1.doc is created successfully | Pass | Exhibit  \_\_\_\_19\_\_\_\_ |
|  | Edit document Test1 created above – add more content. Check in the document  Take a screen print exhibit | The document is successfully checked in  Two versions are visible when showing version information | The document is successfully checked in  Two versions are visible when showing version information | Pass | Exhibit  \_\_\_20\_\_\_\_\_ |
|  | Delete all version of document Test1.doc created above  Take a screen print exhibit | Document Test1.doc created above is no longer visible in the Temp folder | Document Test1.doc created above is no longer visible in the Temp folder | Pass | Exhibit  \_\_\_21\_\_\_\_ |

## Execution Anomalies and Deviations

The table below contains any anomalies or deviations identified as part of the installation by the installer(s)

Table 18 - Anomalies and Deviations

| Step # | Description | Impact | Corrective and Preventative Action(s) | Reference |
| --- | --- | --- | --- | --- |
| NA | NA | NA | NA | NA |

## Execution Approval

Table 19 - Execution Approval

|  |  |
| --- | --- |
| Name | Job Title and Role |
| The installer is signing to confirm that this document has been prepared in accordance with an approved document management process and that content is consistent with the process described in SOP-IT-0294 Perform Technical Installation.  The signatory has completed all entries in the document at time of signing. | |
| Installed by:  Deepika Kumar | Installer |

# Installation Review

## Reviewer Anomalies and Deviations

The table below contains any anomalies or deviations identified as part of the installation review by independent person(s)

Table 20 - Reviewer Anomalies and Deviations

| Step # | Description | Impact | Corrective and Preventative Action(s) | Reference |
| --- | --- | --- | --- | --- |
| NA | NA | NA | NA | NA |

## Conclusion

Table 21 - Conclusion

|  |  |
| --- | --- |
| **Installation Outcome** | This installation was successful  This installation failed |
| **Comments** |  |

## Review Approval

|  |  |
| --- | --- |
| Name | Job Title and Role |
| The Independent Technical Reviewer is signing to verify that they have checked that the installation was performed correctly and that all required evidence is present in this TIR and/or attached to the change record. In addition, this will indicate that that the documents have been checked for technical accuracy and completeness. | |
| Approved by:  Neil X Stewart | Independent Technical Reviewer |
| IT QRC are signing to confirm compliance with applicable IT policies, standards and procedures. | |
| Approved by:  Radha Krishna Hari | IT QRC |

# References

Table 22 - References

| No. | Identifier | Title |
| --- | --- | --- |
|  | INS\_00000540616 | DCC TIP - Content Server 7.3 Code Installation |
|  | INS\_00000549181 | DCC TIP - Content Server 7.3 Docbase Configuration |

# Revision History

Table 23 - Revision History

| Version | Date  Author | Reason For Revision | Template Version Used |
| --- | --- | --- | --- |
| 1.0 | 28-Sep-2017  Deepika Kumar | This is the first issue of this document. | 4.0 |
| 2.0 | 23-Jan-2018  Deepika Kumar | Reference Project ID: PRJ00010850  Updated step 4.1.5 with new docbase services name as per installation guide  Added step 4.2.32 - 4.2.35 - To rename the start and shutdown scripts and server.ini  Added step 4.3.12 - 4.3.14 - To Configure JMS HA | 5.0 |

# Revision History (TIR)

Table 25 - Revision History

| Date | Version | Author | Reason For Revision |
| --- | --- | --- | --- |
| 16-Mar-2018 | 1.0 | Deepika Kumar | This is the first issue of this document. |
| 22-Mar-2018 | 2.0 | Deepika Kumar | This is for Technical Lead & IT QRC review and approval |

1. - Screen Shot Evidence

Below are any screen shots or other evidence that was collected during the process (of installation or verification).

|  |  |  |  |
| --- | --- | --- | --- |
| **Exhibit Number:** | **NA** | **TIP section and step number:** | **4.1.1 - 4.1.2, 4.2.1 - 4.2.2, 4.2.19 - 4.2.30, 4.3.13 - 4.3.13, 4.6.8 - 4.6.12** |
| **Installation Iteration:** | **01** | **Installer Initials;** | **DK** |
| **Installation Date:** | **16-Mar-2018** |  |  |
| **Screen Shot** | | | |
| **Filename *: Screenshot Evidence - Execution of CS 7.3 Secondary Server Instance in us1sxlx00197.docx***  **Consolidated Typescript / Evidence Script in CDMS:**  Please login into CDMS Application and navigate to below path:  ***GSK >> Corporate >> CBS >> AS >> DOCUMENTUM CC >> CM HOSTING >> TIP Results and TIR***  Document Name:  ***REC\_00000618986*** | | | |

1. - Typescript Evidence

Below are any links to typescript files or other evidence that was collected during the process (of installation or verification).

|  |  |  |  |
| --- | --- | --- | --- |
| **Exhibit Number:** | **NA** | **TIP section and step number:** | **4.1 – 4.4 & 4.6** |
| **Installation Iteration:** | **01** | **Installer Initials;** | **DK** |
| **Installation Date:** | **16-Mar-2018** |  |  |
| **Typescript File Location/Document ID** | | | |
| **Filename *: Typescript Evidence - Execution of CS 7.3 Secondary Server Instance in us1sxlx00197.docx***  **Consolidated Typescript / Evidence Script in CDMS:**  Please login into CDMS Application and navigate to below path:  ***GSK >> Corporate >> CBS >> AS >> DOCUMENTUM CC >> CM HOSTING >> TIP Results and TIR***  Document Name:  ***REC\_00000618984*** | | | |