Technical Installation Record for Execution of INS\_00000549181: CRQ000000459215 - DCC TIP - Content Server 7.3 Docbase Configuration in Primary Server us1sxl00196.

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 of **Content Server 7.3 Docbase Configuration** 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 Center, 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 |
| 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\_00000549181 - Technical Installation Plan Content Server 7.3 Docbase 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 | 3 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 |
| --- | --- |
| No components installed | This is a TIP for configuration of an existing install |

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 Installation Steps

| # | Action | Comments |
| --- | --- | --- |
|  | Record Information | 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 Documentum Repository | Installation steps for creating the Documentum Repository |
|  | Post-Installation Steps | Completing 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 C**.
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 - Preparation

|  |  |  |
| --- | --- | --- |
| **Name** | **Initials** | **Date** |
| ***Rajaraman Ganesan*** | ***RNG*** | ***06-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 |
| --- | --- | --- | --- | --- |
|  | Change Control Reference | Required for all controlled environments. |  | ID \_ CRQ000000459215\_ |
|  | Complete Table 9 - Installation Parameters | Required before installation can commence |  | NA |
|  | Documentum Content Server Code Installation v7.3 | Required before configuration can commence |  | INS\_00000540616 |
|  | Complete the infrastructure request for UNIX service ports:  ***<Docbase\_Name>***  ***<Docbase\_Name>***\_s  as required for this docbase  Note: Port numbers allocated for the above must be consecutive and >1500 | The ticket number for the request is recorded |  | Remedy Ticket Number  \_\_\_UKIM20008915883\_\_\_\_\_\_ |
|  | Complete the infrastructure requests for Oracle schemas required for this docbase. | The Self Service menu number(s) for the schema(s) is recorded |  | \_\_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Ensure the password for the Oracle account(s) delivered are set in accordance with DMS standards  Record the account(s) and password(s) in the DMS Accounts spreadsheet | Required before configuration can commence |  | NA |

System components to be installed during this installation execution:

Table 8 - Installed Components

| **Installed?** | **Component** | **Comment** |
| --- | --- | --- |
|  | Content Server 7.3 Docbase | Content Server 7.3 Docbase configured on host us1sxlx00196. |

## 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 host details for the target system. IP address or full DNS Host name can be recorded. | All information is recorded | ***Target\_Host***  \_\_\_\_\_\_us1sxlx00196\_\_\_\_\_\_\_\_\_\_ |
|  | Fully qualified domain name of target host  e.g. uk2salx00060.corpnet2.com | All information is recorded | ***Target\_Host\_FQDN***  **\_\_\_\_**us1sxlx00196.corpnet2.com**\_\_\_\_\_\_\_** |
|  | Record Installation Account details for the target system  e.g.  dmadmin  dm | All information is recorded | ***Installation\_Account***  **\_\_\_\_\_\_** dmadmin **\_\_\_\_\_\_\_\_\_\_\_** |
| ***Installation\_Group***  **\_\_\_\_\_\_\_\_\_\_\_\_** dm **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record the personal MUDID of the person performing the installation | All information is recorded | ***Personal\_MUDID***  **\_\_\_\_\_\_** pp693752 **\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record filesystem directory details of the home directory of the Installation account  e.g. /opt/dmadmin | All information is recorded | ***Installation\_File\_System***  **\_\_\_\_\_\_**/opt/dmadmin **\_\_\_\_\_\_** |
|  | Record the fully-qualified domain name of the server hosting the DCC distributions repository  e.g. uk1sxlx00043.corpnet2.com | All information is recorded | ***Distribution\_Repository***  **\_\_\_\_\_** uk1sxlx00043.corpnet2.com **\_\_\_\_\_\_\_** |
|  | Record the IP address of the workstation used to perform this installation | All information is recorded | ***Workstation\_Host***  \_\_\_\_\_\_\_ 10.142.89.186 \_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Record the pathname of the Content Server installation root  Note: This is the value of $DOCUMENTUM  e.g. /opt/dmadmin/server73 | All information is recorded | ***Documentum\_Root***  **\_\_\_\_\_\_**/opt/dmadmin/server73**\_\_\_\_\_\_\_\_** |
|  | 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 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record details of the location of the Connection Broker name and port on which to address it  e.g.  us1salx00511.corpnet2.com  1489 |  | ***Docbroker\_Host***  **\_\_\_\_\_\_\_** us1sxlx00196.corpnet2.com **\_\_\_\_\_** |
| ***Docbroker\_Port***  **\_\_\_\_\_\_\_\_\_\_\_\_**1489**\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record the Content Server instance name under which this docbase will run.  e.g. For server73, record 73 | All information is recorded | ***Env\_Name***  **\_\_\_\_\_\_\_\_\_\_\_\_\_**73**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record whether a Thumbnail Server should be configured (Y/N) | All information is recorded | ***Thumbnail\_Server***  **\_\_\_\_\_\_\_\_\_\_\_\_\_** Y **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record details of the location of the first (non-distributed) content store  e.g. /dctm/dm001/dmadmin | All information is recorded | ***Data\_Location***  **\_\_\_\_\_\_\_**/dctm/dm001/dmadmin **\_\_\_\_\_\_\_\_\_** |
|  | Obtain details of the docbase to be configured.  Record the information and ensure the DMS Accounts and registry spreadsheets are updated with this information  Note: For security purposes, do NOT record the password details in this document  e.g.  gwdmpr61  84350  0001497e  p  UKPRD896 | All information is recorded | ***Docbase\_Name***  **\_\_\_\_\_\_\_\_** gwdmpr72**\_\_\_\_\_\_\_\_\_\_\_\_** |
| ***Docbase\_ID***  **\_\_\_\_\_\_\_\_\_**182445**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| ***Docbase\_Hex\_ID***  **\_\_\_\_\_\_\_\_**0002C8AD \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ***Docbase\_Password***  **\_\_** Obtained but not recorded **\_\_\_\_\_\_\_\_\_\_** |
| ***Docbase\_Type***  **\_\_\_\_\_\_\_\_\_\_** p **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| ***Oracle\_Instance***  **\_**\_\_\_\_\_\_\_\_\_\_USPRD085\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_** |
|  | Record details of the location of the shared directory  e.g. /opt/dmadmin/server73/share | All information is recorded | ***Share\_Dir***  **\_\_**\_\_\_\_/opt/dmadmin/server73/share\_\_\_**\_\_\_\_** |
|  | Record details of the name and filesystem pathname of the first distributed store to be created. If no distributed store is to be created enter “n/a” for ***<Dist\_Store\_Name>*** and ***<Dist\_Store\_Location>***  Note: If specified, the ***<Dist\_Store\_Location>*** must be the full path to the desired location and should include the ***<Dist\_Store\_Name>***  e.g.  dist\_store\_a\_store\_001  /dctm/dm001/dmadmin/***<Docbase\_Name>***/dist\_store\_a\_store\_001 | All information is recorded | ***Dist\_Store\_Name***  **\_\_\_\_\_** dist\_store\_a\_store\_001**\_\_\_\_\_\_\_** |
| ***Dist\_Store\_Location***  **\_\_**/dctm/dm001/dmadmin/gwdmpr72/dist\_store\_a\_store\_001**\_\_** |
|  | Record details of the Global Repository to be used  Notes: The account information should be obtained from the DMS Accounts spreadsheet | All information is recorded | ***Global\_Rep\_Name***  **\_\_\_\_\_\_\_\_** gwdmpr72**\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| ***Global\_Reg\_Account***  **\_\_\_\_\_\_** dm\_bof\_registry **\_\_\_\_\_\_\_\_\_\_** |
| ***Global\_Reg\_Password***  **\_\_** Obtained but not recorded **\_\_\_\_\_\_\_\_\_\_** |
|  | Record details of the LDAP configuration to be used  e.g.  LDAP Hosts: us-um-sed1.gsk.com  LDAP Server DN: uid=yqq31482,ou=people,c=GB,dc=gsk,dc=com | All information is recorded | ***LDAP\_Hosts***  **\_\_\_\_\_** us-gdc-vsed-read1.gsk.com **\_\_\_\_\_** |
| ***LDAP\_Server\_DN***  **\_\_\_**uid=yqq31482,ou=people,c=GB,dc=gsk,dc=com **\_\_\_** |
| ***Bind\_Password***  **\_\_** Obtained but not recorded **\_\_\_\_\_\_\_\_\_\_** |
|  | Record details of the Oracle environment  e.g.  ***<Docbase\_Name>***\_INDEX | All information is recorded | ***Oracle\_Host***  **\_\_\_\_\_\_\_\_\_** **\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| ***Index\_Tablespace***  **\_\_\_\_\_\_\_** gwdmpr72\_INDEX **\_\_\_\_\_\_\_\_\_** |
|  | Record details of the Oracle baseline dumpfiles.  e.g.  gwdmpr61.dmp  gwdmpr61\_extra.dmp | All information is recorded | ***DumpFile\_Name***  **\_\_\_\_\_\_\_** gwdmpr72.dmp **\_\_\_\_\_\_\_\_\_\_\_** |
| ***Extra\_DumpFile\_Name***  **\_\_\_\_\_\_\_** gwdmpr72\_extra.dmp **\_\_\_\_\_\_\_\_\_\_** |
|  | Record the mail address for system notifications  This should normally be oax63537@gsk.com | All information is recorded | ***DMS\_Mailbox***  **\_\_\_\_\_\_\_** oax63537@gsk.com **\_\_\_\_\_\_\_\_\_** |
|  | Record whether external UNIX authentication is required for this docbase (YES/NO) | All information is recorded | ***External\_Authentication***  **\_\_\_\_\_\_\_\_\_\_\_\_** No **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record if Lockbox needs to be enabled for the repository <Docbase\_Name>  Note:   * Yes/No should be recorded. * If D2 client will be used in this environment, lockbox is required | All information is recorded | ***Lockbox\_Enabled***  **\_\_\_\_\_\_\_\_\_\_\_\_** No **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | Record details of any additional connection broker projections required by this repository  It is permissible for this item to be unspecified if no further projections are required - in which case enter “n/a” in the “Host” column. | All information is recorded | |  |  |  | | --- | --- | --- | | Host | Port | Proximity | | ukdmdvb1.ggr.co.uk | 1489 | 50 | |  |  |  | |
|  | Record the details of Documentum Administrator to access Repository  e.g. http://us2salx00031.corpnet2.com:8100/da | All information is recorded | ***DA\_URL***  **\_** <http://us1sxlx00137.corpnet2.com:8080/da/> \_ |
|  | If this environment will be using a Webtop client, obtain (but do not record) the passwords for ‘dmc\_wdk\_preferences\_owner’ and ‘dmc\_wdk\_presets\_owner’ users.  Mark as “n/a” if Webtop client will not be used. | All information is recorded | ***Webtop\_WDK\_Pswd***  **\_\_\_\_\_** Obtained but not recorded **\_\_\_\_\_\_\_\_** |
|  | Record whether a Single Sign on should be configured.  Note:   * Yes/No should be recorded. | All information is recorded | ***Install\_SSO***  \_\_\_\_\_\_\_\_\_\_\_\_\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

# Installation Execution

Table 10 - Installers

|  |  |  |
| --- | --- | --- |
| **Name** | **Initials** | **Comment** |
| ***Priyanga Palani*** | ***PP*** | ***13-Mar-2018*** |

Table 11 - Timeframe

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Date**  **<dd-mmm-yyyy>** | **Time (24hr)**  **<00:00>** | **Time Zone** | **Name** |
| **Installation Started** | ***13-Mar-2018*** | ***16:00*** | ***IST*** | ***Priyanga Palani*** |
| **Installation Completed** | ***15-Mar-2018*** | ***11:30*** | ***IST*** | ***Priyanga Palani*** |

## Pre-Installation Instructions

This section will cover the pre-install configuration tasks for creating Documentum Repository.

 Table 12 - Pre-Installation Instructions

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | Verify that the Oracle tablespaces have been created as requested.  Login as ***<Installation\_Account>***, use the following commands:  sqlplus ***<Docbase\_Name>***@***<Oracle\_Instance>***  and respond with the appropriate account password when prompted  select tablespace\_name, bytes from user\_ts\_quotas ; exit  Ensure any discrepancies are rectified before continuing the execution of this TIP | The tablespaces owned by this account are listed.  Any discrepancies with the request made are rectified before proceeding. | The tablespaces owned by this account are listed | Pass | Refer Appendix B Typescript Evidence |
|  | Login to the ***<Target\_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  \_\_ CRQ000000459215\_Pri\_Docbase\_13Mar2018.txt | The typescript file opens successfully | Pass | Exhibit  \_\_\_\_\_02\_\_\_\_\_\_\_ |
|  | Login as ***<Installation\_Account>*** by issuing the following command:  super ***<Installation\_Account>***-shell  Enter your personal password when prompted. | Login successful. | Login successful. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure sufficient space exists on /dctm/dm0 to hold baselines to be taken in steps 4.3.32 - 4.3.35  Use the following command:  df -h /dctm/dm0 | Sufficient space is verified to exist | Sufficient space is verified to exist | 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 |
|  | Logout from the target system | The user is logged out | NA | NA | NA |

## Create the Documentum Repository

The installer(s) will complete the steps below to have the Repository created:

 Table 13 - Create the Documentum Repository

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.2.5, marking steps 4.2.1 to 4.2.3 and as “n/a”.  Login to the *<Target\_Host>* server, as the *<Personal\_MUDID>* account.  Take a screen print exhibit | Login successful. | NA | NA | Exhibit  \_\_\_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  Take a screen print exhibit | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | NA | NA | Exhibit  \_\_\_NA\_\_\_\_ |
|  | Login as ***<Installation\_Account>*** by issuing the following command:  super ***<Installation\_Account>***-shell  Enter your personal password when prompted. | Login as ***<Installation\_Account>*** 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>*** | Value of DOCUMENTUM environment variable matches value of /opt/dmadmin/server73 | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure the following service entries exist in /etc/services:  ***<Docbase\_Name> <Docbase\_Name>***\_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>*** port:\_\_4503\_\_\_\_\_\_\_\_\_\_  ***<Docbase\_Name>***\_s port:\_\_\_4504\_\_\_\_\_\_\_ | The required entries exist in the services file | 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 |
|  | Create a directory to hold baselines.  Use the following commands:  mkdir -p /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***  Delete any files available in the directory using the following command:  /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>***  Note: It is permissible and not an error if “No Match” is displayed as a part of /bin/rm command. This error message will be displayed if there are no files in the directory. | Empty directory /dctm/dm0/dmadmin/restore/***<Docbase\_Name>*** exists | Empty directory /dctm/dm0/dmadmin/restore/gwdmpr72 | Pass | Refer Appendix B Typescript Evidence |
|  | Set DISPLAY variable to a suitable XWindows workstation host. Use the following command:  setenv DISPLAY ***<Workstation\_Host>***:0.0  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 ./dm\_launch\_server\_config\_program.sh  Respond as detailed in steps 4.2.13 to 4.2.28 | The program commences | The program commences | Pass | Refer Appendix B Typescript Evidence |
|  | Select Repository  Click **Next**  Take a screen print exhibit | Welcome screen is displayed. Options are completed as specified. | Welcome screen is displayed. Options are completed as specified. | Pass | Exhibit  \_\_\_\_03\_\_\_\_\_\_ |
|  | Ensure “Add a new repository” box is checked  Click **Next**  Take a screen print exhibit | The 'Server Configuration program - Select Repository Action' screen appears  The options are completed as specified | The 'Server Configuration program - Select Repository Action' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_04\_\_\_\_\_ |
|  | If 'Server Configuration program - Update existing or create new AEK Key' screen appears, execute the following step; otherwise mark this step as 'N/A'.  Ensure “Create new or update existing AEK key” is selected.  Click **Next**  Take a screen print exhibit | The 'Server Configuration program - Update existing or create new AEK Key' screen appears  The options are completed as specified | NA | NA | Exhibit  \_\_\_\_NA\_\_\_\_ |
|  | Select AEK algorithm as “AES\_256\_CBC”  If ***<Lockbox\_Enabled>*** is Yes, then  Ensure “Enable Lockbox” is checked.  Ensure Lockbox file name is set to lockbox.lb  Enter a value in Lockbox passphrase  Else,  Ensure “Enable Lockbox” is un-checked.  Accept Default AEK Key Name  Ensure AEK Passphrase is blank  Click **Next**  Note:   * If prompted, lockbox destination path should be: ***<Documentum\_Root>***/dba/secure * Update the lockbox passphrase for the ***<Docbase\_Name>*** in DMS Accounts Spreadsheet.   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  \_\_\_\_\_05\_\_\_\_\_ |
|  | Ensure “Data Directory Path” contains ***<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  \_\_\_\_06\_\_\_\_\_\_ |
|  | 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  \_\_\_\_07\_\_\_\_\_\_ |
|  | Ensure “Name” contains ***<Target\_Host\_FQDN>***  Click **Next**  Take a screen print exhibit | The 'domain name' screen appears  The options are completed as specified | The 'domain name' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_08\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Repository Name: ***<Docbase\_Name>***  Repository ID: ***<Docbase\_ID>***  Description: ***<Docbase\_Description>***  Service Name: ***<Docbase\_Name>***  Click **Next**  Take a screen print exhibit | The 'Enter Repository Information' screen appears  The options are completed as specified | The 'Enter Repository Information' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_09\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Connection Broker Port: ***<Docbroker\_Port>***  Connection Broker Host: ***<Docbroker\_Host>***  Click **Next**  Take a screen print exhibit | The 'Enter Docbroker Information' screen appears  The options are completed as specified | The 'Enter Docbroker Information' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_10\_\_\_\_\_ |
|  | Ensure “Native and Secure” radio button is selected  Click **Next**  Take a screen print exhibit | The 'Select Connection Mode' screen appears  The options are completed as specified | The 'Select Connection Mode' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_11\_\_\_\_\_ |
|  | Ensure “Use an existing Oracle user account and database” radio button is selected  Click **Next**  Take a screen print exhibit | The 'Select Database Account and Server Account' screen appears  The options are completed as specified | The 'Select Database Account and Server Account' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_12\_\_\_\_\_ |
|  | Ensure the data fields are set as follows:  Database Connection String: ***<Oracle\_Instance>***  Database Administrator Name: ***<Docbase\_Name>***  Database Administrator Password: ***<Docbase\_Password>***  Click **Next**  Take a screen print exhibit | The 'Database Connection Information' screen appears  The options are completed as specified | The 'Database Connection Information' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_13\_\_\_\_\_ |
|  | Ensure field “Index Tablespace Name” is set to ***<Index\_Tablespace>***  Click **Next**  Take a screen print exhibit | The 'Select Tablespace' screen appears  The options are completed as specified | The 'Select Tablespace' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_14\_\_\_\_ |
|  | IF ***<Global\_Rep\_Name>*** is empty, ensure radio button “No” is checked and Click **Next**  OTHERWISE  IF ***<Global\_Rep\_Name>*** = ***<Docbase\_Name>*** then ensure radio button “Yes” is checked  Ensure Login Name is set to ***<Global\_Reg\_Account>***  Password: ***<Global\_Reg\_Password>***  Confirm Password: ***<Global\_Reg\_Password>***  In all cases 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  \_\_\_\_\_15\_\_\_\_\_ |
|  | 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 'Server Configuration Program - Summary' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_16\_\_\_\_ |
|  | Select “Finish configuration” radio button  Click **Next**  Take a screen print exhibit | The 'Configure More Components' screen appears  The options are completed as specified | The 'Configure More Components' screen appears  The options are completed as specified | Pass | Exhibit  \_\_\_\_\_17\_\_\_\_ |
|  | 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>**  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.  Capture the docbase log file for evidence. | Pass | Refer Appendix B Typescript Evidence |

## Post-Installation Steps

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

 Table 14 -Post-Installation Steps

| 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 *<Target\_Host>* server, as the *<Personal\_MUDID>* account.  Take a screen print exhibit | Login successful. | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_\_ |
|  | Open a typescript logging session  script -f <typescript\_name>  where <typescript\_name> is a suitable UNIX/Linux filename  Take a screen print exhibit | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | NA | NA | Exhibit  \_\_\_NA\_\_\_\_\_\_ |
|  | Login as ***<Installation\_Account>*** by issuing the following command:  super ***<Installation\_Account>***-shell  Enter your personal password when prompted. | Login as ***<Installation\_Account>*** successful. | NA | NA | NA |
|  | Disable check for docbase owner OS account  Using a suitable text editor, edit file $DM\_DBA/config/***<Docbase\_name>***/server.ini  Insert the following two lines in the [SERVER\_STARTUP] section:  # GSK standard is to run without OS account for docbase owner  validate\_database\_user = F  ip\_mode=V4ONLY  if ***<Install\_SSO>*** is Yes, insert the following line in the [SERVER\_STARTUP] section:  user\_auth\_case=lower  Save edits and exit the editor  Verify success using the following command:  cat $DM\_DBA/config/***<Docbase\_Name>***/server.ini | The file is edited as instructed | The file is edited as instructed | Pass | Refer Appendix B Typescript Evidence |
|  | Add further projections to connection brokers as detailed in step 3.1.24  If items are specified in step 3.1.24 use a suitable text editor to edit file $DM\_DBA/config/***<Docbase\_Name>***/server.ini  For each row in step 3.1.24 append the following lines to the file:  [DOCBROKER\_PROJECTION\_TARGET\_<nn>] host = <host> port = <port>  If a priority value is specified add a line  proximity = <proximity>  where <host>, <port> and <proximity> are corresponding values specified in the information provided  <nn> is an incrementing number, one greater than the highest number in the last DOCBROKER\_PROJECTION\_TARGET entry. Zero-padding is not required  Save edits and exit the editor  Verify success using the following command: cat $DM\_DBA/config/***<Docbase\_Name>***/server.ini  Note: It is permissible for there to be no further projections required | Ifstep 3.1.24 was completed, the specified projections are added to the server.ini file | The specified projections are added to the server.ini file | Pass | Refer Appendix B Typescript Evidence |
|  | Update mail addresses for specified accounts.  Use the following commands:  sqlplus ***<Docbase\_Name>***@***<Oracle\_Instance>***  update dm\_user\_s set user\_address ='***<DMS\_Mailbox>***' where user\_name = 'dm\_autorender\_win31';  update dm\_user\_s set user\_address = '***<DMS\_Mailbox>***' where user\_name = 'dm\_autorender\_mac';  update dm\_user\_s set user\_address = '***<DMS\_Mailbox>***' where user\_name = 'dm\_mediaserver';  update dm\_user\_s set user\_address = '***<DMS\_Mailbox>***' where user\_name = '***<Docbase\_Name>***';  update dm\_user\_s set user\_address = '***<DMS\_Mailbox>***' where user\_name = '***<Global\_Reg\_Account>***';  exit  Respond, when prompted, with the appropriate account password obtained from the “DMS Accounts” spreadsheet  Note: It is not necessarily expected that all accounts listed above will exist in the docbase and it is NOT a fatal error should zero rows be updated for a given update statement above. | Existing mail addresses are updated successfully. | Existing mail addresses are updated successfully. | Pass | Refer Appendix B Typescript Evidence |
|  | Restart the docbase. Use the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***  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 |
|  | Set an inline password for the docbase owner account ***<Docbase\_Name>***  Use the following commands:  idql ***<Docbase\_Name>*** -U***<Installation\_Account>*** -P  update dm\_user object set user\_source='inline password' set user\_password = '***<Docbase\_Password>***' where user\_name = '**<*Docbase\_Name*>**'  go  Obtain ***<Docbase\_Password>*** from the DMS Accounts spreadsheet entry for the account | The password is updated without error | The password is updated without error | Pass | Refer Appendix B Typescript Evidence |
|  | Set an inline password for the Global Registry Account ***<Global\_Reg\_Account>***  Use the following commands:  update dm\_user object set user\_source='inline password', set user\_password = '***<Global\_Reg\_Password>***', set user\_state=0 where user\_name = '***<Global\_Reg\_Account>***'  go  exit  Obtain ***<Global\_Reg\_Password>*** from the DMS Accounts spreadsheet entry for the account | The password is updated without error | The password is updated without error | Pass | Refer Appendix B Typescript Evidence |
|  | If value is recorded for ***<Webtop\_WDK\_Pswd>***, set inline password using the following commands:  idql***<Docbase\_Name>***-U***<Installation\_Account>*** -P  update dm\_user objects set user\_source='inline password' set user\_password = '***<Webtop\_WDK\_Pswd>***' where user\_login\_name in ('dmc\_wdk\_preferences\_owner','dmc\_wdk\_presets\_owner')  go  exit | The password is updated without error | The password is updated without error | Pass | Refer Appendix B Typescript Evidence |
|  | Create a temporary working directory.  Use the following command:  mkdir /var/tmp/documentum  Verify success using the following commands:  cd /var/tmp/documentum  pwd | Directory /var/tmp/documentum is the current directory | Directory /var/tmp/documentum is the current directory | Pass | Refer Appendix B Typescript Evidence |
|  | Copy specified files from the distribution repository to the current directory using the following commands:  sftp ***<Personal\_MUDID>***@***<Distribution\_Repository>***  *respond with the password for account* ***<Personal\_MUDID>*** *when prompted*  cd /dctm/dm001/dmadmin/tapes/GCMS/1.1.0  get set\_ldap\_config.sh  quit  Note: If this is the first time account ***<Personal\_MUDID>*** has accessed the distribution server an additional question commencing “The authenticity of host…” will be asked. Verify the host specified is the required one and answer “yes” to continue or “no” to abort | File set\_ldap\_config.sh exists in the current directory | File set\_ldap\_config.sh exists in the current directory | Pass | Refer Appendix B Typescript Evidence |
|  | Run the set\_ldap\_config.sh script and respond as directed in steps 4.3.14 - 4.3.17 | Execution of the script commences | Execution of the script commences | Pass | Refer Appendix B Typescript Evidence |
|  | Enter ***<Docbase\_Name>*** in response to the prompt “Docbase name[] ” | Input is accepted  Execution continues | Input is accepted  Execution continues | Pass | Refer Appendix B Typescript Evidence |
|  | Enter ***<LDAP\_Hosts>*** in response to prompt “LDAP Host list [ ]” | Input is accepted  Execution continues | Input is accepted  Execution continues | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure ***<LDAP\_Server\_DN>*** is the input to prompt “Service account DN”  Note: A default is offered - if this matches ***<LDAP\_Server\_DN>*** press RETURN to accept the default | Input is accepted  Execution continues | Input is accepted  Execution continues | Pass | Refer Appendix B Typescript Evidence |
|  | Review list of directives to be executed and if it acceptable respond “Y” to “Execute [Y/N] “ | The script executes without error  The object\_id of the dm\_ldap\_config object is recorded  \_\_\_\_\_\_ 0802c8ad80001503 \_\_\_\_\_\_\_\_ | The script executes without error | Pass | Refer Appendix B Typescript Evidence |
|  | Set the docbase dm\_server\_config object to use the LDAP configuration  Use the following command  idql ***<Docbase\_Name>*** -U***<Installation\_Account>*** -P  update dm\_server\_config object set ldap\_config\_id='<robjectid>'  go  select ldap\_config\_id from dm\_server\_config  go  exit  Where robjectid is the object\_id of the dm\_ldap\_config object recorded in step 4.3.17 | The ldap\_config\_id attribute is updated as specified | The ldap\_config\_id attribute is updated as specified | Pass | Refer Appendix B Typescript Evidence |
|  | Login to ***<Docbase\_Name>*** using ***<DA\_URL>*** as ***<Installation\_Account>***. Navigate to Administration 🡪 Basic Configuration 🡪 LDAP Servers  Right Click on the registered LDAP Servers and click on properties  On the Info TAB, Set the Binding Password as ***<Bind\_Password>***  Click OK  Take a screen print exhibit | Bind Password set successfully. | Bind Password set successfully. | Pass | Exhibit  \_\_\_\_\_18\_\_\_\_ |
|  | Verify ldap\_<robjectid>.cnt has been created.  Change to the docbase's configuration directory  Use the following command:  cd $DM\_DBA/config/***<Docbase\_Name>***  Verify success using the following command:  pwd  ls -la ldap\_<robjectid>.cnt  Where robjectid is the object\_id of the dm\_ldap\_config object recorded in step 4.3.17 | The current directory is changed as specified | The current directory is changed as specified | Pass | Refer Appendix B Typescript Evidence |
|  | If ***<Dist\_Store\_Name>*** is “n/a” skip to step 4.3.28 and record steps 4.3.22 - 4.3.27 as “n/a” |  |  |  |  |
|  | Change to directory /var/tmp/documentum  Use the following command:  cd /var/tmp/documentum  Verify location using the following command:  pwd | Current directory is changed to **/**var/tmp/documentum | Current directory is changed to **/**var/tmp/documentum | Pass | Refer Appendix B Typescript Evidence |
|  | Copy specified files from the distributions repository to the current directory using the following commands:  sftp ***<Personal\_MUDID>****@****<Distribution\_Repository>***  *respond with the password for account* ***<Personal\_MUDID>*** *when prompted*  cd /dctm/dm001/dmadmin/tapes/GCMS/1.1.0/storage  get create\_diststore.sh  get config\_diststore.sh  quit  Note: If this is the first time account ***<Personal\_MUDID>*** has accessed the distribution server an additional question commencing “The authenticity of host…” will be asked. Verify the host specified is the required one and answer “yes” to continue or “no” to abort | The specified files are successfully copied and are executable by the installer. | The specified files are successfully copied and are executable by the installer. | Pass | Refer Appendix B Typescript Evidence |
|  | Ensure files create\_diststore.sh and config\_diststore.sh are executable by the installer:  chmod u+x create\_diststore.sh config\_diststore.sh  Verify success using the following command:  ls -la create\_diststore.sh config\_diststore.sh | The files are set as executable by the owner | The files are set as executable by the owner | Pass | Refer Appendix B Typescript Evidence |
|  | Using script create\_diststore.sh, create the distributed filestore  ./create\_diststore.sh  Respond to the following prompts as follows:  Docbase name []? ***<Docbase\_Name>***  Distributed Store Location []? ***<Dist\_Store\_Location>***  Review the list of directives generated and if acceptable, respond to the query thus: Execute [Y/N]? **Y**  Note: The “Distributed Store Location” prompt will provide a default value between the brackets. Compare this carefully with the value specified for ***<Dist\_Store\_Location>***. If it is the same the installer may optionally press the RETURN key to accept the default value given. | The script executes without error. | The script executes without error. | Pass | Refer Appendix B Typescript Evidence |
|  | Perform a restart of the docbase. Use the following commands:  $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***  Verify processes have stopped using the command:  ps -ef | egrep ***<Docbase\_Name>***  Resart the docbase using the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***  Verify successful startup using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | The docbase stops and restarts without error.  No processes for the selected docbase are displayed  Processes are displayed for the selected docbase | The docbase stops and restarts without error.  No processes for the selected docbase are displayed | Pass | Refer Appendix B Typescript Evidence |
|  | Using script config\_diststore.sh, configure the distributed filestore  ./config\_diststore.sh  Respond to the following prompts as follows:  Docbase name []? **<Docbase\_Name>**  Store Name []? ***<Dist\_Store\_Name>***  Review the list of directives generated and if acceptable, respond to the query thus: Execute [Y/N]? **Y**  Note: The “Store Name” prompt will provide a default value between the brackets. Compare this carefully with the value specified for ***<Dist\_Store\_Name>***. If it is the same the installer may optionally press the RETURN key to accept the default value given. | The script executes without error. | The script executes without error. | Pass | Refer Appendix B Typescript Evidence |
|  | 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 |
|  | Shutdown the docbase. Use the following command:  $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***  Confirm shutdown is successful using the following command:  ps -ef | egrep ***<Docbase\_Name>*** | The docbase shuts down without error.  ps command returns no processes for the selected docbase. | The docbase shuts down without error.  ps command returns no processes for the selected docbase. | 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 .  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 |
|  | Take a baseline Oracle export of the docbase and docbase extra schemas. Use the following commands:  exp userid= ***<Docbase\_Name>***@***<Oracle\_Instance>*** file= /dctm/dm0/dmadmin/restore/***<Docbase\_Name>/<DumpFile\_Name>*** statistics=none  and, if the \_extra account exists:  exp userid = ***<Docbase\_Name>***\_extra@***<Oracle\_Instance>*** file = /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***/***<Extra\_DumpFile\_Name>*** statistics=none  Respond, when prompted, with the appropriate account password obtained from the “DMS Accounts” spreadsheet | Oracle dumps are successfully completed | Oracle dumps are successfully completed | Pass | Refer Appendix B Typescript Evidence |
|  | Secure a tar archive of the docbase content. Use the following commands:  cd ***<Data\_Location>***  tar cf /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***/***<Docbase\_Name>***.tar ***<Docbase\_Name>*** | Archive is successfully created | Archive is successfully created | Pass | Refer Appendix B Typescript Evidence |
|  | Secure a tar archive of the docbase configuration directory. Use the following commands:  cd $HOME  tar cvf /dctm/dm0/dmadmin/restore/***<Docbase\_Name>***/***<Docbase\_Name>***\_config.tar ***<Documentum\_Root>*** | Archive is successfully created | Archive is successfully created | 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:  ***<Target\_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 |
|  | Start the docbase  Use the following command:  $DM\_DBA/dm\_start\_***<Docbase\_Name>***  Verify success using the following command:  ps -ef | egrep ***<Docbase\_Name>***  ipcs -a | grep ***<Installation\_Account>***  **Note**: $DM\_DBA/log/***<Docbase\_Name>***.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 |
|  | 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 |
|  | Delete the temporary working directory  Use the following command:  /bin/rm -fR /var/tmp/documentum  Verify success using the following command:  ls -lad /var/tmp/documentum | Directory /var/tmp/documentum no longer exists | Directory /var/tmp/documentum no longer exists | Pass | Refer Appendix B Typescript Evidence |
|  | Logout of the ***<Installation\_Account>*** 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 |
|  | 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 |

## 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 15 - Back Out Plan

| 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 and as “n/a”.  Login to the *<Target\_Host>* server, as the *<Personal\_MUDID>* account.  Take a screen print exhibit | Login successful. | NA | NA | Exhibit  \_\_\_\_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  Take a screen print exhibit | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | NA | NA | Exhibit  \_\_\_\_NA\_\_\_\_\_ |
|  | Login as ***<Installation\_Account>*** by issuing the following command:  super ***<Installation\_Account>***-shell  Enter your personal password when prompted. | Login as ***<Installation\_Account>*** successful. | NA | NA | NA |
|  | Set DISPLAY variable to a suitable XWindows workstation host. Use the following command:  setenv DISPLAY ***<Workstation\_Host>***:0.0  echo $DISPLAY | Variable DISPLAY is set as defined | NA | NA | NA |
|  | Change directory to $DM\_HOME/install and invoke the docbase configuration program. Use the following commands:  cd $DM\_HOME/install ./dm\_launch\_server\_config\_program.sh  Respond as detailed in steps 4.4.6 to 4.4.9 | The program commences | NA | NA | NA |
|  | Ensure “Delete an existing repository” box is checked and select ***<Docbase\_Name>***  Click **Next**  Take a screen print exhibit | The 'Server Configuration program - Select Repository Action' screen appears  The options are completed as specified | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_ |
|  | Are you sure you want to Delete ***<Docbase\_Name>*** screen appears  Click **Yes**  Take a screen print exhibit | Options are completed as specified. | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_ |
|  | Check the message indicates that the docbase has been deleted successfully  Click **Next**  Take a screen print exhibit | The 'Server Configuration Program - Summary' screen appears  The options are completed as specified | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_ |
|  | Select “Finish configuration” radio button  Click **Next**  Take a screen print exhibit | The 'Configure More Components' screen appears  The options are completed as specified | NA | NA | Exhibit  \_\_\_\_\_NA\_\_\_ |
|  | Delete the following directories if they exist:  $DM\_DBA/config/***<Docbase\_Name>*** ***<Data\_Location>*** ***<Share\_Dir>***/data/common/***<Docbase\_Hex\_ID>*** ***<Share\_Dir>***/data/events/***<Docbase\_Hex\_ID>*** ***<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 ***<Data\_Location>***  /bin/rm -fR ***<Share\_Dir>***/data/common/***<Docbase\_Hex\_ID>***  /bin/rm -fR ***<Share\_Dir>***/data/events/***<Docbase\_Hex\_ID>***  /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>*** $DOCUMENTUM/server\_uninstall/delete\_db/***<Docbase\_Name>***  $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>*** $DM\_DBA/log/***<Docbase\_Hex\_ID>***  Use the following commands:  /bin/rm -f $DM\_DBA/dm\_start\_***<Docbase\_Name>***  /bin/rm -f $DM\_DBA/dm\_shutdown\_***<Docbase\_Name>***  /bin/rm -f $DM\_DBA/log/***<Docbase\_Hex\_ID>***  /bin/rm -f $DM\_DBA/log/\****<Docbase\_Name>***\*  /bin/rm -f $DOCUMENTUM/server\_uninstall/delete\_db/***<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 docbase\_authority\_file.  Using a suitable text editor edit file $HOME/dmg\_scripts/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 $HOME/dmg\_scripts/docbase\_authority\_file | Docbase entry removed from file | NA | NA | NA |
|  | Delete objects from the Oracle schema associated with the docbase.  Use the following commands:  sqlplus ***<Docbase\_Name>***@***<Oracle\_Instance>*** set pages 0 set feedback off spool <filename>  select 'drop '||object\_type||' '||object\_name||';' from user\_objects where object\_type != 'INDEX'; spool off @<filename>  purge recyclebin;  select count(\*) from user\_objects ;  exit  rm <filename>  where <filename> is a suitable output filename chosen by the installer which does not exist in the current directory  Note: If the count returned at the end of the operation is non-zero, it may be necessary to repeat the above sequence of commands until a zero count is achieved. | All Oracle objects are deleted | NA | NA | NA |
|  | Logout of the ***<Installation\_Account>*** 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 |

## Installation Verification

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

Table 16 – Installation Verification

| Step # | Instructions | Expected Result | Actual Result | Pass/ Fail | Reference/ Comment |
| --- | --- | --- | --- | --- | --- |
|  | If not already logged in, complete this step; otherwise skip to step 4.5.4 marking steps 4.5.1 to 4.5.3 and as “n/a”.  Login to the *<Target\_Host>* server, as the *<Personal\_MUDID>* account.  Take a screen print exhibit | Login successful. | NA | NA | NA |
|  | Open a typescript logging session  script -f <typescript\_name>  where <typescript\_name> is a suitable UNIX/Linux filename  Take a screen print exhibit | File of name <typescript\_name> is created.  The name of the typescript is recorded:  \_\_\_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | NA | NA | NA |
|  | Login as ***<Installation\_Account>*** by issuing the following command:  super ***<Installation\_Account>***-shell  Enter your personal password when prompted. | Login as ***<Installation\_Account>*** successful. | NA | NA | NA |
|  | Determine baseline memory usage  Use the following command:  ipcs -a | grep ***<Installation\_Account>*** | 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 ***<Docbase\_Name> -U<Installation\_Account>*** -P  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 | Pass | Refer Appendix B Typescript Evidence |
|  | Content management  Establish a session with the docbase using an approved client for that docbase - e.g. Webtop, DA  Take a screen print exhibit | A docbase session starts successfully | A docbase session starts successfully | Pass | Exhibit  \_\_\_\_19\_\_\_\_ |
|  | Move to Temp folder  Take a screen print exhibit | Client software displays Temp folder | Client software displays Temp folder | Pass | Exhibit  \_\_\_\_20\_\_\_ |
|  | 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  \_\_\_\_21\_\_\_ |
|  | 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  \_\_\_\_22\_\_\_ |
|  | 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  \_\_\_23\_\_\_\_ |
|  | Logout of the ***<Installation\_Account>*** account using the command  exit  and close the typescript file using the command  exit | The logout is successful and the typescript file is closed | The logout is successful and the typescript file is closed | Pass | Refer Appendix B Typescript Evidence |

## Execution Anomalies and Deviations

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

Table 17 - Anomalies and Deviations

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

## 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:  Priyanga Palani | 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 18 - Reviewer Anomalies and Deviations

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

## Conclusion

Table 19 - 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 20 - References

| No. | Identifier | Title |
| --- | --- | --- |
|  | INS\_0381706 | CDMS Document Management Plan for the Documentum CC |
|  | STD\_0110872 | Service Design Package for the Documentum CC |
|  | INS\_00000540616 | DCC TIP - Content Server 7.3 Code Installation |
|  |  |  |

# Revision History

Table 21 - Revision History

| Version | Date  Author | Reason For Revision | Template Version Used |
| --- | --- | --- | --- |
| 1.0 | 31-Jul-17  Deepika Kumar | This is the first issue of this document. | 4.0 |
| 2.0 | 30-Jan-2018  Deepika Kumar | Reference Project ID: PRJ00010850  Updated the TIP with below additional steps.  Added step 3.1.27 - To see if SSO to be installed in this environment.  Updated step 4.3.4 to add user authentication case in server.ini | 5.0 |

# Revision History (TIR)

Table 22 - Revision History

| Date | Version | Author | Reason For Revision |
| --- | --- | --- | --- |
| 15-Mar-2018 | 1.0 | Priyanga Palani | This is the first issue of this document. |
| 22-Mar-2018 | 2.0 | Priyanga Palani | 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:** | **4.1.2 - 4.1.3, 4.2.13 – 4.2.28, 4.3.19, 4.5.7 – 4.5.11** |
| **Installation Iteration:** | **01** | **Installer Initials;** | **PP** |
| **Installation Date:** | **14-Mar-2018** |  |  |
| **Screen Shot** | | | |
| **Filename *Screenshot Evidence - Content Server 7.3 Docbase Configuration Installation in Primary Server us1sxlx00196.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\_00000618023*** | | | |

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 – 4.3 & 4.5** |
| **Installation Iteration:** | **01** | **Installer Initials;** | **PP** |
| **Installation Date:** | **15-Mar-2018** |  |  |
| **Typescript File Location/Document ID** | | | |
| **Filename *Typescript Evidence - Content Server 7.3 Docbase Configuration Installation in Primary Server us1sxlx00196.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\_00000618028*** | | | |