

Cisco TelePresence Content Server Release 7.2.1 Virtual Machine Installation Guide for Existing Customers

February 14, 2018

This document provides instructions for installing Cisco TelePresence Content Server Release 7.2.1 as a virtualized application on a VMware vSphere Hypervisor (ESXi) system.

See these sections:

- Recommended Platform
- Limitations and Restrictions
- Digital Image Signing Of TCS
- Installation Prerequisites Checklist
- SQL Sever 2012 Support
- Before You Begin
- Obtain License and Option Keys from Old TCS
- Migrations options for Existing Customers
- Migrating Data from Old TCS to Shared Network Location
- Installing VM Content Server on Existing Hardware
- Installing TCS Installer
- Migrating Data from Shared Network Location to TCS VM
- Related Documentation
- Obtaining Documentation and Submitting a Service Request

Recommended Platform

These are the supported OVA requirements for UCS C220 Content Server hardware (Third-Generation, Fourth-Generation, BE7K and Third Party Hardware):

vCPU ¹	12
RAM	8 GB
Disk space ²	550 GB

1. Hyper threading is enabled.

2. 550 GB disk space is allocated only for VM.

Content Server Release 7.2.1 is not supported on **First-Generation and Second-Generation Content** Server Hardware.

These are the supported OVA requirement for BE6K Content Server hardware with Hyper threading disabled

vCPU	2
RAM	4 GB
Disk space	C (50GB) + E (250 GB)
	= 300 GB



.Any other UCS models conforming to the Tested Reference Configuration (TRC) or a better TRC should be supported by the tested virtual machine configuration.

Third Party Hardware Details

Machine Make	НР
Machine Model No	ProLiant ML350p Gen8
CPU Cores	6 CPUs x 2.094 GHz
Processor Type	Intel(R) CPU E5-2620 v2 @ 2.10GHz
RAM	8 GB
Hard Disk	900x2 GB

Limitations and Restrictions

• Table 1 describes the Content Server hardware and VMware vSphere Hypervisor (ESXi) software version compatibility.

ESXi Software Version	Content Server Third-Generation and Fourth-Generation Hardware
ESXI 6.0	Yes, with VMware Cisco custom ISO image available here:
	https://my.vmware.com/web/vmware/info/ slug/datacenter_cloud_infrastructure/vmw are_vsphere/6_0#custom_iso
	ESXi to download: CISCO Custom Image for ESXi 6.0.0 GA Install CD.
ESXi 5.5	Yes, with VMware Cisco custom ISO image available here:
	https://my.vmware.com/web/vmware/info/ slug/datacenter_cloud_infrastructure/vmw are_vsphere/5_5#custom_iso
	ESXi to Download: Cisco Custom Image for VMware ESXi 5.5.0 GA Install CD

Table 1 Content Server Hardware and VMware ESXi Software Compatibility

Virtual machine loses network connectivity intermittently for the following product versions:

- VMware ESXi 5.0.x
- VMware ESXi 5.1.x
- VMware ESXi 5.5.x
- VMware ESXi 6.0.x

I

This issue would occur in the following environments, due to the driver bundled with Microsoft Windows 2012:

- The virtual machine is Windows 2012 or Windows 2012 R2.
- The virtual machine is using E1000 or E1000E driver.

A work around for this issue is to use VMXNET3 instead of E1000 or E1000e driver.

For more information see the following article:

https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalI d=2109922

Digital Image Signing Of TCS

There are two type of files used in TCS that is Digital Signed:

- .exe files
- OVA files

Verification of digital signatures of .exe files

Follow the below steps to verify the digital signature of.exe files:

- **Step 1 Right click** on 'Windows' icon to look at the file properties.
- Step 2 Select the **Properties**.
- **Step 3** Check if the signature is deemed valid by Windows on the Digital Signature tab, refer the image below:

Run_Me.cmd	10/ setuplicense.exe Properties
TCS7.1VM.ova	1/2 Security Details Previous Versions
web.config	General Compatibility Digital Signatures
WindowsFeature.ps1	10/ Signature list
setupLicense.exe	1/2 Name of signer. Digest algorithm Timestamp
GetTCSVirtualSN.exe	1/2 Cisco Systems, Inc. sha256 Friday, January 29, 20
	Details

Verification of digital signatures of OVA files

- **Step 1** Log into the vsphere client.
- **Step 2** Select the File > Deploy OVF Template.
- Step 3 Select the Signed OVA file.
- Step 4 Click Next. 'Publisher, Vendor' Windows will appear, refer the image below:

OVF Template Details Verify OVF template details	0			
Source OAT Template Details Name and Location Disk Format Ready to Complete	Product: Version: Vendor: Publisher: Download size: Size on disk: Description:	TCS 7.x VM Cisco Systems, Inc. 135.0 KB Unknown (thin provisioned) 550.0 GB (thick provisioned)		
Help	2111 DM 2/3/2014.1	2/13/11 DM 2/2/2016 12/13/1	< Back Next >	Cancel

Installation Prerequisites Checklist

1. Customer needs to purchase **R-VMTCS-MIG-K9 PID** to move from physical appliance TCS to VM TCS.



I

If a customer has an existing contract, this migration PID is free of cost.

- **2.** Download the VM Content Server Release 7.2.1 software by using an external download location link which is provided in the E-delivery notification email:
 - a. Content Server software image
 - b. OVA template which is specific to the host hardware
 - c. System configuration scripts
- **3.** Confirm that you have this system software available for installation:
 - a. Windows Server 2012 Standard R2 Service Pack 2 or Service Pack3.
 - **b.** VMware vSphere Hypervisor (ESXi) software version that is specific for the Content Server third generation and fourth generation hardware (see Table 1).
 - c. SQL Server 2012 Express or Enterprise or Standard Edition.
- 4. Before installing VMware ESXi vSphere on the host server, check that:
 - a. Virtualization Technology (VT) is enabled in the BIOS
 - b. "Virtual Machine Startup/Shutdown" is configured to "Allow Virtual machines to start and stop automatically with the system" and the VM Content Server has been moved to the Automatic startup section
 - **c.** Valid NTP server is configured which is the same NTP server, that will be specified in the Content Server.

SQL Sever 2012 Support

Earlier SQL Server 2005 was being installed internally as local database server by the TCS installer. In 7.x, the approach is changed. Internal installation of SQL Server 2005 was dropped and now SQL Server 2012 is required as a prerequisite for TCS installation.

Before installation, A SQL Server instance named TCS must be present at local machine. The edition of SQL Server 2012 can be any of Standard editions, Enterprise Edition or Express edition.

If user wants to install Express edition, it can be downloaded from the following location: https://www.microsoft.com/en-in/download/details.aspx?id=29062, download the file ENU\x86\SQLEXPR_x86_ENU.exe

To support TLS 1.1 and 1.2 in Windows environment, SQL server needs to be upgraded to SP2 or SP3 version (both x86 and x64 versions are supported) along with their respective cumulative updates.SQL Server 2012 RTM and SP1 does not support TLS 1.1 and 1.2.

Before You Begin

Before installing VM Content Server Release 7.2.1 on an existing hardware, you will need to:

• Obtain the license and option keys from the Content Server registry and create a license text file to restore the keys on the VM Content Server.

• Use the Cisco TelePresence Content Server Migration Assistant Tool (Migration Assistant) to migrate the data and configuration settings from the existing hardware to shared network location.

Obtain License and Option Keys from Old TCS

Copy the license and option keys from the Content Server registry. Follow these steps:

- **a.** Log in to the Content Server by using Windows Remote Desktop.
- b. Press Windows + R to launch the Run application. In the Open field, enter regedit and click OK.

📼 Run	×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	regedit 👻
	🛞 This task will be created with administrative privileges.
	OK Cancel <u>B</u> rowse

c. In Registry Editor navigate to the following path:

I

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\TANDBERG\TCS

For Content Server Release 5.x, navigate to the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\TANDBERG\TCS

d. Locate the Serial Number and Release Key in the Data column. Copy and save the serial number and release key in a text file. For example: 0772262265091631 49A30107



e. In Registry Editor navigate to the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\TANDBERG\TCS\OptionKeys

For Content Server Release 5.x, navigate to the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\TANDBERG\TCS\OptionKeys

f. Locate the option keys in the Name column. Copy and save the option keys in a text file. For example:

115361R5-1-84E863EF 115361L2-1-D6734B87 115361R5-2-68DB53FA 115361C1-1-D42D15A3 115361HD1-1-034A588C

ġ		R	egistry Editor	_ D X
File Edit View Favorites Help				
A 📲 SOFTWARE	^	Name	Туре	Data
D-J Classes		ab (Default)	REG_SZ	
Dients		ab 115361C1-1-	REG_SZ	
👂 - 🔑 Macromedia		ab 115361HD1-1 00000A9EE	REG_SZ	
Microsoft		ab 115361L2-1	REG SZ	
D - 📕 ODBC		ab 115361R5-	REG SZ	
Policies		ab 115361R5-2	REG SZ	
þ 🍌 VMware, Inc.				
⊿ 🤳 Wow6432Node				
D - 📕 Classes				
Deally Clients				
Description				
⊳ - 🦾 Macromedia				
Microsoft				
D- DBC				
Policies	≡			
Þ 🥼 SNIA				
A 📙 TANDBERG				
⊿ - 📕 TCS				
Database				
ReleaseKeys				
▶ J SYSTEM				
HKEY_USERS				
▷ - → HKEY_CURRENT_CONFIG	~			

Γ

Migrations options for Existing Customers







Migrating Data from Old TCS to Shared Network Location

Run the Migration Assistant on the existing source Content Server to copy the media and configuration settings to a shared network location.

An existing TCS may be running in one of the following mode:

- If an existing TCS is running in Cluster mode, Follow the below Step 1, Step 2 and Step 3.
- If existing TCS is running in Standalone or NAS mode, skip Step1 and Step 2 and follow only Step 3.
- **Step 1** Remove all servers except for the source Content Server from cluster.
- **Step 2** Remove the last (source) Content Server from cluster. The source server becomes a stand-alone Content Server with NAS.
- Step 3 Go to the below link and follow the Step 1 to Step 9 to migrate the data to shared network location. http://www.cisco.com/c/en/us/td/docs/telepresence/tcs/6_0/release/notes/tcs-6-1-ma-rn.html

Installing VM Content Server on Existing Hardware



It is recommended to follow the steps given in the guide for a base installation to confirm that no software discrepancies occur while installing TCS.

Complete these tasks to install VM Content Server Release 7.2.1 on existing hardware:

1. Installing VMware vSphere ESXi

- **2.** Deploy OVA to Host, page 12
- 3. Installing Windows Server 2012 Standard R2
- 4. Local Policy SettingInstalling Roles and Features
- 5. Local Policy Setting
- 6. Installing SQL Server 2012 database server

Installing VMware vSphere ESXi

Install VMware vSphere ESXi on the host Content Server (See Table 1 for the ESXi version).

For ESXi Release 6.0, see the VMware release notes here:

https://www.vmware.com/support/vsphere6/doc/vsphere-esx-vcenter-server-60-release-notes.html For ESXi Release 5.5, see the VMware release notes here:

https://www.vmware.com/support/vsphere5/doc/vsphere-esx-vcenter-server-55-release-notes.html

Deploy OVA to Host

These instructions represent a typical installation. The Deploy OVF Template wizard dynamically changes to reflect the host configuration.

Step 1 Log in to the vSphere client to access the ESXi Host.

Step 2 Select **File > Deploy OVF Template**.

Step 3 On the Source page, **Browse** to the location of the OVA file that is specific to the host appliance and Click **Next**.



For TCS 7.2.1, OVA file is in **S_7_2_1_TCSVM_Bundle.zip** and for BE6K, OVA file is in **S_7_2_1_TCSBE6K_Bundle.zip**.

Deploy OVF Template	
Source Select the source location.	
Source OVF Template Details Name and Location Disk Format Ready to Complete	Deploy from a file or URL V:xx.xx.xx.xx \Shared\TCS Deliverables\TCS 7.x\TCS_7.x. Browse Enter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.
Help	< Back Next > Cancel

Step 4 On the Name and Location page, enter the **Name** for the VM Content Server guest, for example "Virtual_TCS". Click **Next**.

Name and Location Specify a name and loca	ation for the deployed template
Source OVF Template Details Name and Location Disk Format Ready to Complete	Name: TCS 7.% VM The name can contain up to 80 characters and it must be unique within the inventory folder.
Help	< Back Next > Cancel

Step 5 On the Disk Format page, confirm that the Thick Provision Lazy Zeroed default disk format is selected. Click Next.

ſ

Source Datastore: datastore1 OVF Template Details Available space (GB): XX.XX. Disk Format Ready to Complete XX.XX.	Isk Format In which format do you	want to store the virtual disks?	
	ource WF Template Details lame and Location lisk Format leady to Complete	Datastore: Available space (GB):	datastore1
 Thick Provision Lazy Zeroed Thick Provision Eager Zeroed Thin Provision 		Thick Provision Lazy Z Thick Provision Eager Thin Provision	Zeroed Zeroed

1

Step 6 On the Ready to Complete page:

- **a**. Confirm the deployment settings.
- **b.** Select the **Power on after deployment** check box.
- c. Click Finish.

Are these the options yo	ou want to use?		
Source OVF Template Details Name and Location	When you click Finish, the dep	loyment task will be starte	d.
<u>Disk Format</u> Ready to Complete	OVF file: Download size: Size on disk: Name: Host/Cluster: Datastore: Disk provisioning: Network Mapping:	\\ xx.xx.xx 135.0 KB 550.0 GB TCS 7.x localhost. datastore1 Thick Provisio "VM Network"	(Shared\TCS Deliverables\TCS 7.0\TCS_7 In Lazy Zeroed ' to "VM Network"
Help	Power on after deployment		< Back Finish Cancel

I

Γ

Step 7 The installation process begins and a progress bar is displayed. The Content Server OVA is now deployed as a guest on the VM host.

Installing Windows Server 2012 Standard R2

These instructions represent a typical installation.

- Step 1 Obtain the Windows Server 2012 Standard R2 software to begin installation process.
- **Step 2** Power on the VM.
- **Step 3** Depending on your Windows Server media type, perform one of these steps:
 - a. Insert the Windows 2012 DVD in DVD drive. In ESXi, connect the DVD drive letter by using the ESXi option Connect/Disconnect the CD/DVD devices of Virtual Machine > Connect to <DVD drive letter>.
 - or
 - b. Mount the Windows 2012 ISO image file in ESXi by using the option Connect/Disconnect the CD/DVD devices of Virtual Machine > Connect to ISO Image on local disk and browse the Windows Server ISO image file.
- **Step 4** Press **CTRL + ALT + Insert** to boot from the DVD or the mounted ISO image.
- Step 5 If prompted, choose Windows Server 2012 R2 Standard (Server with GUI) x64.
- Step 6 In the Install Windows Server screen, choose Custom (Advanced).
- **Step 7** Create two partitions on the host while installing Windows:
 - First partition for program files with a minimum of 100 GB space.
 - Second partition for media files with the remainder of available space (450 GB).



In case of BE6K platform, create two partition of the following sizes:

- First partition for program files with a minimum of 50 GB space.
- Second partition for media files with the remainder of available space (250 GB)

Name		Total size	Free space	Туре
Drive 0 Par	tition 1: System Reserved	350.0 MB	334.0 MB	System
Drive 0 Par	tition 2	97.3 GB	97.3 GB	Primary
A Refresh	× Delete	2 Format	New	
Load driver	Extend	- Laura	<u>-</u>	

Note The drive letter might differ in your OS. Go to Disk Management to change the drive to E:.

- **Step 8** Follow the prompts to complete the Windows Server installation.
- **Step 9** Install VMware Tools:

Γ

a. Right click the Content Server VM node. Select Guest > Install/Upgrade VMware Tools.



I



b. Click the Console tab. In the Console window double click the mounted drive (VMware Tools).

c. Double click setup64.exe to launch the Setup wizard. Choose Typical to complete the installation.

XX.XX.XXX TCS 7.0 VM 37 TCS_7.1 43	TCS 7.0 VM 37 Getting Started Summary Resource Allocation P	erformance Events Console P	lemissions			
	Recycle Bin	E Home Share	Application Tools	CD Drive (D:) VMwa	re Tools	
			PC ► CD Drive (D:) VMware Tools ►	v c	Search CD Drive	: (D:) VMware
		🔶 Favorites	Name	Date modified	Туре	Size
	Imports	E Desktop	Program Files	1/29/2015 5:38 PM	File folder	
		😹 Downloads	autorun.ico	1/29/2015 5:38 PM	lcon	55 KB
	and the second se	💹 Recent places	autorun.inf	1/29/2015 5:38 PM	Setup Information	1 KB
			i manifest.txt	1/29/2015 5:38 PM	Text Document	3 KB
		J This PC	📸 setup.exe	1/29/2015 5:38 PM	Application	41,202 KB
	TCS Wizard	🎥 Desktop	Setup 4.exe	1/29/2015 5:38 PM	Application	51,850 KB
	ClusterSetti	Documents Downloads Music Pictures Videos Coal Disk (C:) CD Drive (D:) VMwar CS_Data (E:)	■ VMwareToolsUpgrader.exe	1/29/2015 5:38 PM	Application	599 KB

d. When installation is complete, click Finish. Click Restart to restart the system.

I

- Step 10 Go to the console to configure the Content Server networking parameters. Assign the IP address, the netmask, the default gateway, and the DNS server address. For more information, see the *Cisco TelePresence Quick Start Guide* on Cisco.com.
- **Step 11** Go to **My Computer > Properties** and enable Remote Desktop services.

Installing Roles and Features

Step 1Install Internet Information Services (IIS8). On VM host, navigate to Server manager > Dashboard.
Click on Add roles and Features.



elect server role	es
Before You Begin Installation Type	Select one or more roles to install on the selected server. Roles
Server Selection	Active Directory Certificate Services
Server Roles	Active Directory Domain Services
Features	Active Directory Federation Services
Web Server Role (IIS)	Active Directory Lightweight Directory Services
Role Services	Active Directory Rights Management Services
Confirmation	Application Server
	DHCP Server
	DNS Server
	Fax Server
	File and Storage Services (1 of 12 installed)
	Hyper-V
	Network Policy and Access Services
	Print and Document Services
	Remote Access
	Remote Desktop Services
	Volume Activation Services
	Web Server (IIS)
	Windows Deployment Services
	Windows Server Essentials Experience
	Windows Server Update Services

L

Γ

Step 2 On **Select Server Roles** page, click the **WebServer IIS** check box. A pop-up appears for installing the dependent features, click **Add Features** to continue and click **Next**.

Step 3 On Select Features page, select Net framework 3.5 and ASP.Net 4.5 as shown in the below image. Also select Windows Server backup and Desktop Experience. A pop-up appears for installing the dependent features, click Add Features to continue and click Next.

	Add Roles and Features Wizard	
elect features		
Before You Begin Installation Type	Select one or more features to install on the selected server. Features	
Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	A V.NET Framework 3.5 Features NET Framework 3.5 (includes .NET 2.0 and 3.0) HTTP Activation Non-HTTP Activation Non-HTTP Activation NET Framework 4.5 Features (2 of 7 installed) NET Framework 4.5 (Installed) ASP.NET 4.5 MCF Services (1 of 5 installed) ASP.NET 4.5 MCF Services (1 of 5 installed) ASP.NET 4.5 MCF Services (1 of 5 installed) TCP Activation Named Pipe Activation TCP Port Sharing (Installed) Eackground Intelligent Transfer Service (BITS) BitLocker Drive Encryption BitLocker Network Unlock BranchCache Client for NFS Data Center Bridging Direct Play Enhanced Storage Failover Clustering Group Policy Management IIS Hostable Web Core Ink and Handwriting Services Internet Printing Client IP Address Management (IPAM) Server	
	Management OData IIS Extension	

	Add Koles and Features Wizard	
elect features		
Before You Begin	Select one or more features to install on the selected server.	
Installation Type	Features	
Server Selection		1
Server Roles	Ender Server Administration Tools	1
Features	Simple TCD/D Services	
Utale Capuer Dale (117)	Simple TCP/IP Services	
web server kole (iis)	SMB Pancheidth Limit	
Role Services		
Confirmation	SNMD Server	
	Talnet Client	
	Telest Sever	
	User Interfaces and Infrastructure (2 of 3 installed)	
	Graphical Management Tools and Infrastructure (Installed)	
	Desktop Experience	
	Server Graphical Shell (Installed)	
	Windows Biometric Framework	
	Windows Feedback Forwarder	
	Windows Identity Foundation 3.5	
	Windows Internal Database	i
	Windows PowerShell (2 of 5 installed)	
	Windows Process Activation Service	
	Windows Search Service	
	Windows Server Backup	
	Windows Server Migration Tools	-1
	Windows Standards-Based Storage Management	
	Windows TIFF IFilter	
	WinRM IIS Extension	
	WINS Server	
	Wireless LAN Service	
	₩oW64 Support (Installed)	
	XPS Viewer	

Step 4 On the Select Role Services page, select all the sub features under Web Server. Click Next.

Γ

re You Begin	Select one or more features to install on the selected server.	
lation Type	Features	
er Selection	Dennet Ser er Administration Tank	10
er Roles	Senote server Haministration roots	
ined.	Simple TCP/ID Services	
Sabiar Pola (IIS)	SME 10//TES Site Station Summer Hartsflad)	
server note (its)	SMR Randwidth Limit	
ore services	SMTP Server	
irmation	SNMP Service	
	Telpet Client	
	Telnet Server	
	TFTP Client	
	User Interfaces and Infrastructure (2 of 3 installed)	
	Graphical Management Tools and Infrastructure (Installed)	
	Desktop Experience	
	Server Graphical Shell (Installed)	
	Windows Biometric Framework	
	Windows Feedback Forwarder	
	Windows Identity Foundation 3.5	
	Windows Internal Database	
	Windows PowerShell (2 of 5 installed)	
	Windows Process Activation Service	
	Windows Search Service	
	Windows Server Backup	
	Windows Server Migration Tools	
	Windows Standards-Based Storage Management	
	Windows TIFF IFilter	
	WinRM IIS Extension	
	U WINS Server	
	Wireless LAN Service	
	Party and a second seco	

1



ſ



Step 5 On the Confirmation Installation Selection page, click on 'specify an alternate source path'. Mount the Windows Server 2012 R2 standard Edition image to a drive. On the Specify alternate source path page, specify the path <OS Mounted drive letter>:\sources\sxs, as shown in the image. Click OK.

Do you need to specify	in alternate source path? One of	Add Roles and Features Wizard
Do you need to specify a Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	In alternate source path? One of To install the following rol Restart the destinatio Optional features (such as .NET Framework 3.5 Feat .NET Framework 3.5 Feat .NET Framework 4.5 Feat ASP.NET 4.5 Ink and Handwriting Sen Media Foundation User Interfaces and Infra Desktop Experience Web Server (IIS) FTP Server FTP Extensibilit FTP Service Management Tools IIS 6 Managem IIS 6 Managem IIS 6 Management IIS 6 Metal IIS 6 Monagement IIS 6 Management IIS 6 Management Management Deve Application Deve Application I ASP	Add Roles and Features Wizard Specify Alternate Source Path Some servers might not have all source files available to add all roles, role services, or features. The source files might not have been installed, or might have been removed by users after the operating system was installed. If the server on which you want to install roles or features does not have all required source files, the server car try to get files by using Windows Update, or from a location that is specified by Group Policy. You can also specify an alternate path for the source files, if the destination server does not have them. The source path or file share must grant file apermissions either to the Everyone group (not recommended for security reasons), or to the computer (local system) account of the destination server; granting user account access is not sufficient. The following are examples of a valid source file path where the destination server; is the local server, and where the E drive contains the Windows Server installation media. Source files for .NET Framework 3.5 Features are not installed as part of a typical installation, but are available i the side-by-side store (SxS) folder: E\Sources\SxS\ Source files for other features are available in the Install.wim file. Add the WIM: prefix to the path, and a suffix t indice: Sources\SxS\ WIM: E\Sources\SxS\ OK Cancel Console vice Scripts and Tools

Step 6 On Confirmation Installation selection page, click Install.

I

Γ

Step 7 Once feature installation is completed, click **Close.** Restart the system.

Local Policy Setting

Local Policies			
Local Policy Object Display Name	User Right		
Backup files and directories	Se Backup Privilege		
Debug Programs	Se Debug Privilege		
Manage auditing and security log	Se Security Privilege		

To add the rights to the local administrator account, follow these steps:

- **Step 1** Log on to the computer as a user, who has administrative credentials.
- Step 2 Click Start.
- **Step 3** Click **Run**, type 'Control admintools' and then click **OK**.
- Step 4 Double-click Local Security Policy.
- Step 5 In the Local Security Settings dialog box, click Local Policies,
- Step 6 Double-click User Rights Assignment, and then double-click Backup Files and Directories.
- Step 7 In the Backup Files and Directories Properties dialog box, click Add User or Group.
- **Step 8** In the **Select User or Groups** dialog box, type the user account that is being used for setup, and then click **OK** two times.
- **Step 9** Repeat the procedure for the other two policies that are mentioned in the "Local policies" section.

Note

On the File menu, click Exit to close the Local Security Settings dialog box.

Installing SQL Server 2012 database server

To support TLS 1.1 and 1.2 in Windows Environment, SQL Server 2012 SP2 or SP3 with Cumulative Updates needs to be installed. From Services.msc stop **SQL server** (**TCS**) service and depending upon the previous installed SQL version (x86 or x64 bit), select the installer and upgrade SQL server:

- SQL Server 2012 SP2 (KB2958429), version 11.2.5058.0 can be downloaded from: https://www.microsoft.com/en-us/download/details.aspx?id=43340
- SQL Server 2012 SP3 (KB3072779), version 11.3.6020.0 can be downloaded from: https://www.microsoft.com/en-in/download/details.aspx?id=49996

Complete the following steps to install SQL server 2012 (SP2 or SP3):

Step 1 Under Installation tab, click 'New SQL Server stand-alone installation or add features to an existing installation'.

1	SQL Server Installation Center
Planning Installation Maintenance Tools	New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance.

- Step 2 Click 'I accept the license terms'.
- Step 3 Click Next.

I

Step 4 Check the **Database Engine Services box** and click **Next**.



Step 5 In Instance Name, click Named instance radio button and enter the instance name as TCS.

Instance Configuration	n e ID for the instance of SQL	Server. Instance ID becomes part of the installation path.
Setup Support Rules Setup Role Feature Selection	 Default instance Named instance: 	TCS
Installation Rules Instance Configuration Disk Space Requirements Server Configuration	Instance ID: Instance root directory:	TC\$ C:\Program Files\Microsoft SQL Server\
Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	SQL Server directory: Installed instances:	C:\Program Files\Microsoft SQL Server\MSSQL11.TCS
nstallation Progress Complete	Instance Name	Instance ID

Step 6 Click Next.

Step 7 In the Service Account, choose Use the built-in System account (Local system, or Network service).

Note SQL server collation should be set to Latin1_General_CI_AS, 'Dictionary, case insensitive, 1252 character set'.

Step 8 In the Authentication Mode, you can click any of the two given modes:

- Windows authentication or
- Mixed mode.
- **Step 9** Restart the system.

Note

If Mixed mode is selected, click Enter and Confirm the SA (system administrator) password.

Install SQL cumulative Update (Hotfix) from following links, depending upon the previous installed SQL version of x86 or x64 bit and restart the system:

- SQL server 2012 SP2 (KB3205054), Hotfix 5678 version 11.2.5678.0 can be downloaded from: https://www.microsoft.com/en-us/download/details.aspx?id=50731
- SQL server 2012 SP3(KB4025925), Hotfix 6607 version 11.3.6607.0 can be downloaded from: https://www.microsoft.com/en-us/download/details.aspx?id=50733

Installing TCS Installer

Copy the **S_7_2_1_TCSVM_Bundle.zip** file to a folder on your system and extract the files. Launch the command prompt and change the directory to the folder location.



For TCS 7.2.1, file name is **S_7_2_1_TCSVM_Bundle.zip**.

Step 2 Follow the below steps for **TCS VM**:

a. In the **S_7_2_1_TCSVM_Bundle.zip** extracted directory, create a *TCSLic.txt* file by using the licensing information in this format:

<<Virtual Serial No>> <<Release Key>> <<Recording 5 Key>> <<Live 2 Key>>

Use the license keys obtained from the section Obtain License and Option Keys from Old TCS

Note

For TCS 7.2.1, extracted directory is **S_7_2_1_TCSVM_Bundle.zip**. In the license text file, make sure that there are no extra spaces before or after the license keys.

TCSLic - Notepad					
File	Edit	Format	View	Help	
49A 077 115 115	3010 2262 361R 361L	7 265091 5-1-84 2-1-06	L631 4E863 5734E	EF 87]	

Step 3 In the command prompt, run the **PreInstaller.cmd** from the **S_7_2_1_TCSVM_Bundle.zip** folder to configure the Content Server Pre-Installer.



For TCS 7.2.1 configuration, run **S_7_2_1_TCSVM_Bundle.zip**

- **Step 4** Run **S7_2_1.exe** to install the VM Content Server software on the appliance.
- **Step 5** Run the **PostInstaller.cmd** from the VMScripts folder in the command prompt to configure the Post-Installer. This will reboot the system.
- Step 6 To make sure the newly created TCS VM is Up and Running. Launch TCS UI in a web browser.

By default TCS 7.2.1 comes up with TLS 1.0 enabled. To enable TLS 1.1 and TLS 1.2 use IIS Crypto tool, download it from below link and configure it with given settings:

https://www.nartac.com/Products/IISCrypto/Download

Step 1

Schannel	Schannel These settings enable or disable default for the operating system	various options system wide. will be used. Click the Apply	When the checkbox is grey it me button to save changes.	ans no setting has been specified and the
Cipher Suites Templates	Protocols Multi-Protocol Unified Hello PCT 1.0 SSL 2.0 SSL 3.0 TLS 1.0 TLS 1.1 TLS 1.2	Ciphers NULL DES 56/56 RC2 40/128 RC2 56/128 RC4 256/128 RC4 40/128 RC4 56/128 RC4 56/128 RC4 54/128 RC4 54/128 RC4 128/128 RC4 128/128 Triple DES 168 AES 128/128 AES 128/128 AES 128/128 AES 128/128 AES 256/256	Hashes MD5 SHA SHA 256 SHA 334 SHA 512	Key Exchanges
About	Set Client Side Protocols			

1

Migrating Data from Shared Network Location to TCS VM

TLS 1.0.

To migrate the data from shared network location to VM TCS, follow the below steps:



Step 3 Run the Migration Assistant on the newly created TCS VM to restore the media and configuration settings from the shared network location.

Go to the below link and follow the **Step 10** to **Step 17** to migrate the data from shared network location to newly created TCS VM.

http://www.cisco.com/c/en/us/td/docs/telepresence/tcs/6_0/release/notes/tcs-6-1-ma-rn.html



Follow the below **Step 4**, if Old TCS was in Cluster mode.

Step 4 When you finish the data migration, add the destination Content Server to the cluster as the first cluster member. Add additional cluster members, as needed.

Related Documentation

- Cisco TelePresence Content Server Documentation http://www.cisco.com/en/US/products/ps11347/tsd_products_support_series_home.html
- Cisco UCS C220 Documentation

http://www.cisco.com/en/US/products/ps10493/tsd_products_support_series_home.html

Cisco Capture Transform Share Documentation

http://www.cisco.com/en/US/products/ps12130/products_installation_and_configuration_guides_l ist.html

Information About Accessibility and Cisco Products

For information about the accessibility of this product, contact the Cisco accessibility team at accessibility@cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.

This document is to be used in conjunction with the documents listed in the "Related Documentation" section.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

^{© 2017} Cisco Systems, Inc. All rights reserved.

