

Cisco TelePresence Content Server Integration with VBrick

Integration Overview

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What is the Cisco TelePresence Content Server

The Cisco TelePresence Content Server (Cisco TCS) is a network appliance that enables organizations to share knowledge and enhance communication by recording their video conferences and multimedia presentations for live and on demand access. The Cisco TCS can be scheduled by Cisco TMS to automatically include the Cisco TCS into any scheduled event or be used in an ad - hoc manner. The Cisco TCS workflow will automatically produce high quality videos of any standards based on conference from a MCU, TelePresence Server, or directly from a TelePresence endpoint including the video participants and any secondary content for example a presentation. Whether it's a university lecture, a corporate training session, an executive meeting or any other critical event – the Cisco TelePresence Content Server streamlines the process of capturing content throughout the organization.

Figure 2-1 TCS Integration with VBrick



What is VBrick DME

The VBrick Distribute Media Engine (DME) is a multi-faceted platform that performs a variety of serving, reflecting, transmuxing, and transrating activities. DME receives a unicast stream over the WAN link (often over TCP) to effectively traverse the LAN and pass through firewalls. The DME streams via unicast and/or multicast to a variety of different clients in the streaming protocol of choice for each client.

The DME has a fully functional web server that uses File Transfer Protocol (FTP/FTPS) to populate the DME with files for progressive download. You can FTP to the FTP folder on the DME or to a sub folder.

It is a versatile, high configurable media distribution engine that moves streaming media to and from a wide variety sources and endpoints. You can distribute your video to anyone with the DME.

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Prerequisites

Cisco TCS software requirements

– TCS 7.2 or higher.

Limitations

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• VBrick VoD and VBrick Live playback does not support on TCS User Interface (UI). TCS will act as a recoding device for VBrick integration.

Configure VBrick VoD on TelePresence Content Server

Perform these tasks:

- 1. Configuring Media Server for VBrick VoD
- 2. Configuring Template for VBrick VoD
- 3. Configuring Recording Alias for VBrick VoD

Configuring Media Server for VBrick VoD

You need to create the Media server configuration in the Cisco TCS. Follow these steps for VBrick VoD:

- **Step 1** Log in to Cisco TCS
- Step 2 Click Management tab.
- **Step 3** Navigate to **Recording setup > Media server configurations**.
- Step 4 Click VBrick VoD server configuration.

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Vi	ew Recordings	Management		Cisco TelePresence Content Serve
Diagnostics	Recordings	Recording setup	Configuration	
Media serve	er configuratio	ns		
Descript	ion		Server type	Server address
Local IS V	leb Server Edit		Web Server	(local)
Local Wind	lows Media Streaming	Server Edit	Windows Media streaming serve	(local)
VBrickLive	Edit		VBrick Live Server	10.78.162.167
Wowza	Edit		Wowza Media Server for Flash	10.78.162.236
Delete selected				
 + Add Quick Tin + Add Wowza M + Add Cisco Vir + Add Media Ex + Add WBrick V 	ne or Darwin stream Media Server for Flas deo Streamer config sperience Engine 350 oD server configura	ing server configuratio th configuration turation 10 server configuration	n	
+ Add VBrick li	ve Server configurat	ion		
+ Add Show an	d Share server conf	iguration		
+ Add Podcast + Add iTunes U	Producer server co	nfiguration		

Step 5 Enter the name for VBrick server.

Step 6 Enter the VBrick server address

- Step 7 Choose File Transfer Protocol for VBrick DME. The available options are FTP (File Transfer Protocol) or FTPS (Secure FTP using SSL).
- Step 8 Enter Command port for FTPS file transfer



Note Command port is enabled, if FTPS is selected as File Transfer Protocol. This port number should be same as the command port configured on VBrick DME server.(Configuring FTPS on VBrick DME is explained at FTPS Configuration on VBrick DME

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FTPS is supported only for VBrick DME by TelePresence Content Server Release 7.2.

Step 9 Enter ftp/ftps username and password.

• Click the Test FTP/Test FTPS button to test the FTP/FTPS connection.

Step 10 Click Save.

Diagnostics Recordings Recording setup Configuration Media server configuration: VBrick server Save as Return Save settings Name VBrickFTPS Server settings Server address YBrickFTPS Server address FTP/FTPS settings File Transfer Protocol Command Port User name Password Password confirm Test FTPS	Vie	ew Recordings	Management		Ci
Media server configuration: VBrick server Save as Return Server settings Name VBrickFTPS server address x.x.x FTP/FTPS settings File Transfer Protocol Command Port User name admin ad	Diagnostics	Recordings	Recording setup Co	nfiguration	
Save as Return Server settings Name VBrickFTPS Server address x.x.x.x FTP/FTPS settings File Transfer Protocol Command Port User name admin Password Password confirm	Media serve	er configuratio	n: VBrick server		
Server settings Name VBrickFTPS Server address K.X.X.X	Save Save a	as Return			
Server settings Name VBrickFTPS Server address x.x.x.x FTP/FTPS settings File Transfer Protocol O FTP O FTPS (i) Command Port User name Password Password confirm Test FTPS	Requer cattings				
Server address X.X.X.X FTP/FTPS settings File Transfer Protocol Command Port User name admin Password Password confirm Test FTPS	-J Server seurigs Name		VBrickFTPS		* @
FTP/FTPS settings File Transfer Protocol O FTP O FTPS (i) Command Port User name admin Password Password confirm Test FTPS	Server address		х.х.х.х		* 1
File Transfer Protocol Command Port User name admin Password Password confirm Test FTPS	FTP/FTPS set	tings			
Command Port 35 5 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	File Transfer Proto	ocol	C FTP I FTPS		
User name admin h i i Password confirm ••••• Test FTPS	Command Port		35 🏷 👔		
Password confirm Password confirm Test FTPS	User name		admin	P (1)	
Password confirm Test FTPS	Password			h (j)	
Test FTPS	Password confirm	1			
			Test FTPS		
FIPS test successful to server X.X.X.X.35.			FTPS test successful	to server X.X.X.X:35.	

Green check mark indicates the successful connection of FTP/FTPS.

Step 11 Click Return.

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Configuring Template for VBrick VoD

You need to associate the template to the recording alias to automate the delivery of the transformed recording to VBrick. Follow these steps:

Step 1 Click the **Management** tab, appearing at the top of the screen.

Step 2 Click Recording > Setup > Templates > Add Template.

- **Step 3** Under Template section do the following:
 - a. Add Template name for VBrick VoD.
 - **b.** Check the option 'Distribute to Media Experience Engine 3500, VBrick, Show and Share, Podcast Producer or iTunes U'.
 - **c.** Decide which media layout to be displayed Cisco TCS web interface. For this example, **Switching** is chosen.
 - d. Under 'Outputs for distribution to Media Experience Engine 3500, Show and Share, VBrick, Podcast Producer, or iTunes U', choose the media layout for VBrick output. By default switching would be selected.
 - e. Check the box next to the VBrick to enable the media server. Under Media Server Configuration list, select VBrick Server from the VBrick drop down.



This media server has been created in step 1 under the 'Media Server Configuration' section.



f. Choose the size of the output that will be used to upload to VBrick.

The SAM account name will be written into the media file and shared to the VBrick system.







Step 4 Scroll to the top or bottom, click Save and click Return.

Configuring Recording Alias for VBrick VoD

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Step 1	Click the tab at the top labeled Management.
Step 2	Click Recording Setup > Recording Aliases > Add Recording Alias.
Step 3	A new page will appear, fill the recording aliases information.
	a. Enter a Name for the recording alias, VBrick VoD.
Note	The "Personal Recording Alias owner" for VBrick should match with the user on VBrick

b. Enter the **H323ID**, **e164alias**, **SIP URI**, and SIP display name. Below is an example of the configuration.

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c. Under the Recording Setting, select VBrick VoD template from the Template drop down.



This is the same template that was created in **Configuring Template section > Step 3>** point **a**.

View Recordings	Management Cisco TelePresence Content Server	System Administrator (MIN-FH0E0520MEFVAdministrator) Log Select langua
Diagnostics Recordings	Recording setup Configuration	Help
Edit recording alias		
Save Save as Return		
🥑 Recording alias updated.		
Recording alias		
Name	VBrickVoDAlias	•
Recording alias type	Personal (i) System (i)	
Personal recording alias owner	System Administrator (WIV-FHGEOS20MEFVAdministrator)	•
Dialing properties		
* Enter at least one of the following:		
H.323 D	VBrickVodh323id	
E.164 alias SIP settings are disabled in Site Settings s	• (j) o it is not possible to specify a SIP URI for dialing this recording alias.	
Recording settings		
Template	VBrickVoDTemplate	✓ Edit or Add (i)
Template outputs	Distribution - VBrick Switching MPEG-4 for Flash Large	
Call configuration	System Call Configuration	→ Edit or Add (i)
Channess and design had been as a second second		

Figure 2-5 Recording Alias



Configure VBrick Live on TelePresence Content Server

Perform these tasks:

1. Configuring Media Server for VBrick Live

- 2. Configuring Template for VBrick Live
- 3. Configuring Recording Alias for VBrick Live

Configuring Media Server for VBrick Live

You need to create the Media server configuration in the Cisco TCS. Follow these steps for VBrick Live:

- Step 1 Log in to Cisco TCS, and click the Management tab.
- **Step 2** Navigate to Recording setup > Media server configurations.
- Step 3 Click VBrick live Server configuration.

Figure 2-6 Media server configuration

VI	ew Recordings	Management		Cisco TelePresence Content Server
Diagnostics	Recordings	Recording setup	Configuration	
Media serv	er configuratio	ns		
Descript	ion		Server type	Server address
Local IIS V	Veb Server Edit		Web Server	(local)
Local Win	dows Media Streaming S	Server Edit	Windows Media streaming server	(local)
VBrickLive	e Edit		VBrick Live Server	10.78.162.167
Vowza	Edit		Wowza Media Server for Flash	10.78.162.236
Delete selected				
 Add QuickTir Add VAowza I Add Cisco Vi Add Media Ei Add VBrick V Add VBrick II 	ne or Darwin streami Media Server for Flasl deo Streamer configu xperience Engine 350 /oD server configurati	ng server configuration h configuration uration D server configuration ion		
+ Add Show ar	nd Share server confi	guration		
+ Add iTunes l	I server configuration	1		

Step 4 Enter the name for VBrick Live server.

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Step 5 Enter the VBrick server address, VBrick server username and password.

The default value	of RTSP port for VBrick is 5544 .		
p 7 Click Save.			
Tote An error message	is displayed, if RTSP connection is no	ot established.	
Figure 2-7	Media Server Configuration · VBrick Serve	-	
1 igure 2-7	neuu server configuration. Abriek serve		
View Recordings	Management Cisco TelePresent	ce Content Server	
agnostics Recording	s Recording setup Configuration	Help	
agnostics Recording: Iedia Server Configur Save Save as Return Media server configuratio	s Recording setup Configuration ation: VBrick Server n updated.	n Help	
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agnostics Recording: Tedia Server Configur Save Save as Return Media server configuration Connection successful to ser The server is a VBrick Server Server settings sime erver address	s Recording setup Configuration ation: VBrick Server	Help	
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agnostics Recording: ledia Server Configur Save Save as Return Media server configuration Connection successful to ser The server is a VBrick Server Server settings ame erver settings ame rerver Settings ISP Port ser name assword assword confirm	s Recording setup Configuration ation: VBrick Server n updated. ver ##.##.##. VBrickServerLive TE.MR.#E.KR S544	h Help	
agnostics Recording: ledia Server Configur Save Save as Return Media server configuration Connection successful to ser The server is a VBrick Server Server settings arme erver address Live unicast streaming settings rSP Port ser name assword assword confirm atic Stream Name (optional)	s Recording setup Configuration ration: VBrick Server	h Help * (j) * (j) * (j) (j)	

The server is a VBrick Server.



To view Live recording on VBrick Rev Portal, it is mandatory to give static stream name.

Green checkmark indicates the successful connection of RTSP.

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Step 8
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Click Return.
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Configuring Template for VBrick Live

You need to associate the template to the recording alias to automate the delivery of the transformed recording to VBrick. Follow these steps:

- Click the Management tab, appearing at the top of the screen. Step 1
- Click **Recording > Setup > Templates > Add Template**. Step 2
- Step 3 Under Template section do the following:
 - a. Add Template name for VBrick Live.
 - b. Check the 'Viewable in the Content Server web interface'.
 - c. Decide which media layout to be displayed on Cisco TCS web interface. For this example, Switching is chosen.

Figure 2-8 layout display

Viewable in the Content S	erver web interface 🧃 Cho	ose options		
Downloadable for portable	devices (IPod and Zune) 🕧			
Downloadable for general	purpose 🧃			
Distributed to Media Experi Distributed to Media Experi	ence Engine 3500, vBrick, Sho	w and Share, Podcast	Producer or iTunes U 🕧	Choose options
Outputs to view in the Control	ent Server web interface			
Outputs to view in the O	content Server web inte	rface		
			*	
	. ::		:	:
▲/===				
Setteblar		^a	C Stacked	Cicture in nicture
· Smicing	Eorce 16:5		O SIGCAGO D	· Pictore infactore
On demand	Care (sheess in he ?)	12		
Viladour Mada	Sizes (choose up to 2)	U.		
Windows weak	Additional	Maximur	n target bit rates (kbps) 🧃)
MPEG-4 for GuickTime	Smail	Smalt	250	
MPEG-4 for Flash	Medium	Medium	800	
	Large	Larget	Maximum	
On demand media server o	onfiguration settings			
Windows Media	Local Windows Media	Streaming Server		v. (j)
MPEG-4 for QuickTime	Local IIS Web Server			<u> </u>
MPEG-4 for Flash	Local ItS Web Server			- 1

d. Choose the MPEG-4 for Flash and size of the output that will be used to upload to VBrick. For this example a large output was chosen.

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Figure 2-9 Live stream

Format	MPEG-4 for Flash 👻 🥡
Size	Medium 👻 🕕
Re-transcode realtime movies	V (i)
Live media server configuration	on settings
Media server configuration	VBrickServerLive

- e. Select the Live stream check box.
- f. Choose the VBrick Media Server from the drop-down list.

g. Click Save.



You must select the option in Media server configuration that you have selected for VBrick server.



VBrick Live and VBrick VoD can be configured in a single template.

Configuring Recording Alias for VBrick Live

Step 1	Click the tab at the top labeled Management.
Step 2	Click Recording Setup > Recording Aliases > Add Recording Alias.
Step 3	A new page will appear to fill out the recording aliases information.
	a. Enter a Name for the recording alias, for VBrick Live.
Note	The "Personal Recording Alias owner" for VBrick should match with the user on VBrick Rev
	b. Enter the H323ID, e164alias, SIP URI, and SIP display name. Below is an example of the configuration.
	c. Under the Recording Setting, select VBrick Live template from the Template drop down list.



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The template you select under Step 3 > c is the same the template that was created in Configuring Template for VBrick Live section Step 3 > a.

Figure 2-10 Red	cording	alias
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The Accordings	Management	Cisco TelePresence Content Server
Diagnostics Recordings	Recording setup Configuration	
Edit recording alias		
Save Save as Return		
Recording alias		
Name	VBrickLiveAlias *	
Recording alias type	Personal (i) O System (i)	
Personal recording alias owner	System Administrator (TCS48\Administrator)	▼ (i)
Dialing properties		
Enter at least one of the following:		
A Enter at least one of the following.		
H.323 ID	VBrickLiveh323id *	
H.323 ID E.164 alias	VBrickLiver323id * (i)	
H.323 ID E.164 alias SIP setlings are disabled in Site Setting	VBrickLiveh323id * (i) * (i) gs so it is not possible to specify a SIP URI for dialing this recording alias.	
H.323 ID E.164 alias SIP settings are disabled in Site Setting	VBrickLiveh323id * 1	
H.323 ID E.164 alias SIP settings are disabled in Site Setting Recording settings	VBrickLiveh323id * (i) * (i) gs so it is not possible to specify a SIP URI for dialing this recording alias.	
H.323 ID E.164 alias SIP settings are disabled in Site Setting Recording settings Templare	VBrickLiveTemplate	▼ Edit or Add (j)
H.323 ID E.164 alias SIP settings are disabled in Site Setting Recording settings Template Template outputs	VBrickLiveh323id * i gs so it is not possible to specify a SIP URI for dialing this recording alias. VBrickLiveTemplate Live stream - Switching MPEG-4 for Flash Medium On demand - Switching MPEG-4 for Flash Medium (Offline transcoded) - Switching MPEG-4 for Flash Medium (Live transcoded)	✓ Edit or Add (j)
H.323 ID E.164 alias SIP settings are disabled in Site Setting Recording settings Template Template outputs Call corfiguration	VBrickLiveh323id * i gs so it is not possible to specify a SIP URI for dialing this recording alias. VBrickLiveTemplate Live stream - Switching MPEG-4 for Flash Medium On demand - Switching MPEG-4 for Flash Medium (Offline transcoded) - Switching MPEG-4 for Flash Medium (Live transcoded) System Call Configuration	Edit or Add i

Step 4 Scroll to the top or bottom, click Save.

Step 5 Click Return.

Installing VBrick DME (Software only version)

For VBrick DME Admin Guide, see the link

http://www.vbrick.com/doc/DME/v344/AdminGuide/wwhelp/wwhimpl/js/html/wwhelp.htm

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FTPS Configuration on VBrick DME

To configure FTPS on VBrick DME performquit following tasks:

- 1. Configure FTPS as File Transfer Protocol
- 2. Configure Command Port
- 3. Upload SSL Certificate

Configure FTPS as File Transfer Protocol

- **Step 1** Login to VBrick DME server and browse to System Configuration > Security.
- Step 2 Select External FTP Server Mode as "FTPS TLS Forced".
- Step 3 Click on Apply.

Configuration Menu	BRICK	admin
• Home • System Configuration • Network	System Configuration	> Security 2
Ports Security	External FTP Server	Enabled
• SNMP	External FTP Server Mode	FTPS TLS Forced V
o General	SSH Shell	✓ Enabled
Streaming Caching	RTMP Server	C Enabled
Manage Configuration SSL Certificate	RTMPS Server	S Enabled
	RTMP Announce Receiver	S Enabled
SAN/ISCSI Setup	HTTP Server	✓ Enabled
Rev Interface	Flash Server Authentication	Z Enabled
 SAP Configuration Input Configuration Output Configuration 	Cache Manager Utility	Enabled
	External VBAdmin	HTTP Only V
User Configuration	SNMP Server	
Monitor Maintenance Diagnostics	SNMP Server Mode	SNMPv1, SNMPv2, and SNMPv3 V
• Log Out • Help		Apply Revert Default

Figure 2-11 FTPS Configuration on VBrick DME

Configure Command Port

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- **Step 1** Login to VBrick DME server and browse to System Configuration > Ports.
- Step 2 Configure FTP Command Port, default port is 21.

Note

This Command Port should be same on TCS VBrick VoD configuration page.

Step 3 Click on Apply.

Figure 2-12 Command Port configuration on VBrick DME

Configuration Menu	BRICK DME VBAdmin admin	
• Home System Configuration • Network	System Configuration> Ports	2
Ports Security	RTSP Server Port	554
• SNMP	RTMP Server Port	1935
 General Streaming Caching Manage Configuration SSL Certificate SAN/iSCSI Setup Activate Feature Rev Interface SAP Configuration Input Configuration Output Configuration User Configuration Logging Monitor Maintenance Diagnostics Log Out Help 	RTMPS Server Port	4443
	Multi-Protocol Server RTSP port	5544
	VBAdmin Server Port	8181
	Secure VBAdmin Server Port	8383
	Conversion Input Port Start	64879
	HTTP Server Port	80
	HTTPS Server Port	443
	HTTP Streaming Tunneling Port	8080
	HTTP Caching ICP Port	3130
	SIP Port	5060
	FTP Data Port	20
	FTP Command Port	35
	-	
	Apply	Revert Default

Upload SSL Certificate

- **Step 1** Login to VBrick DME server and browse to System Configuration > SSL Certificates.
- Step 2 User can upload Self Signed certificate (Step 3) or Certification Authority (CA) signed certificate (Step 4) on VBrick DME.
- Step 3 For uploading Self Signed certificate, click on Generate and Install a Self-Signed CERT button.
- Step 4 For uploading CA Signed certificate, click on Generate Certificate Request to use with CA button, it will generate Certificate Signing Request (CSR), sign this CSR with CA. Copy signed certificate in Install a New Certificate and click on Verify and Install New Certificate.

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• Home		admin	
System Configuration	System Configuration -	-> SSL Certificates	2
 Network Ports Security SNMP General Streaming Caching Manage Configuration SAL Certificate SAN/ISCSI Setup Activate Feature Rev Interface SAP Configuration Input Configuration Output Configuration User Configuration Logging Monitor Maintenance Diagnostics 	Currently Installed Certificates		
	Certificate: Data: Version: 3 (0x2) Serial Number: 13456656191839199153 (0xbabfa5829322dfb1) Signature Algorithm: sha256WithRSAEncryption		
	Create a Certificate Request		
	This section will help you create a your web server that contains all the Private Key that will be automatica contents before beginning this pro	CSR (Certificate Signing Request). A CSF ne necessary information about your doma illy created. Please review your internal se cess.	R is a block of encoded data generated by in and organization. It will be encrypted by a curity procedures and necessary field
	Country	United States	~
	State (or Province)	New Haven	
	City	Wallingford	
Log Out	Company or (Organization)	VBrick Systems	
• Help	Department	sales	
	Full Domain Name	sales.vbrick.com	
	Contact Email Address	sales@vbrick.com	
	Generate Certificate Request to	USE with CA OR Generate and In REQUEST AJBGNVBAYTALVTMRIWEAYDVQQIDA dmb3JKMRcwFQYDVQQKDASWQnJpY2 AXBGNVBAMMEHNNbGVzLn2icmljay Zicmliav51b20wgcEiMAOGCSgGSI	stall a Self-Signed CERT

Figure 2-13 Certificate Installation on VBrick DME

Related Documentation

For additional product information, see these resources:

VBrick

http://www.vbrick.com/doc/DME/v344/AdminGuide/wwhelp/wwhimpl/js/html/wwhelp.htm http://www.vbrick.com/doc/DME/v344/PDF_Files/DME_ReleaseNotes.pdf

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