

Vbrick Multicast Installation

Quick Reference Guide - v2.1.x

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Vbrick Multicast Overview

Vbrick Multicast (VBM) is a Rev and DME feature that provides plugin-less multicast to Vbrick's Rev Player. Browsers are adopting ever increasing security protocols and sand-boxing of running code – these are all good improvements for the security of our environments. However, browsers cannot natively receive UDP packets that multicast utilizes. Therefore, Vbrick has developed a PC and Mac multicast agent that can be silently installed by corporate IT departments or manually installed using a graphic based (GUI) installation interface.

As such, note that there are two different installation options covered in this document; end user installation via download and administrator silent installation options – see the Windows and Mac Installation sections. Additionally, how to uninstall VBM and troubleshooting with Windows firewalls are also covered.

Note: This reference manual covers Vbrick Multicast v.2.1.x or greater.

Requirements

The following requirements are needed to make sure Vbrick Multicast streams install and function correctly on your Windows PC or Mac:

- DME v3.18 or greater
- Rev 7.22 or greater
- PC (Windows 8/10, 64-bit only)
- Mac (OSX 10.15/11.X)
- Minimum Processor: Dual core or dual processor
- Minimum Memory (RAM): 4GB
- Minimum Disk Space Available: 500MB



Custom VBM Domain Name

There are two options for installing and running the VBM agent; using the default Vbrick multicast playback domain name (localstreaming.vbrick.com) or using a custom multicast playback domain name. A custom domain name requires Rev 7.29 or greater.

A custom domain name is used other than the default localstreaming.vbrick.com (which resolves to 127.0.0.1) for those cases where the localstreaming.vbrick.com domain cannot be used for playback on your user's computer due to policy restrictions. This is completely optional and is only required in the use case just mentioned.

To use a custom domain, the following must be true:

- 1. Rev version used should be 7.29 or greater.
- 2. The custom domain name must resolve to 127.0.0.1 from the user's computer.
- 3. You have a valid SSL certificate for your custom domain name in a PEM file format. This PEM file should contain a certificate, private key, and any intermediate certificates in a single PEM file. This PEM file will be required by the installer if you want t to use your own custom domain name for local multicast streaming.

Downloading the Installer Agent

Vbrick provides the msi or exe files for Windows and pkg for Mac needed to install the Vbrick Multicast agent on the <u>Downloads</u> site under the Applications tab. These can then be used by IT Desktop management software to automatically push and install the agent on the user's desktop or be silently installed via a terminal. Each method is described below.



Administrator (Silent) Install and Upgrade Options

Administrators have the option of installing (and uninstalling) Vbrick Multicast silently, through a command prompt or via desktop management software, if you do not want your users downloading and installing the program themselves.

Note: The process for installing and upgrading the Vbrick Multicast agent is exactly the same.

Windows Silent Install or Upgrade - With Logging

To begin a Windows silent install or upgrade:

- 1. Open a command prompt.
- 2. Navigate to where the VbrickMulticast_XXX.msi is located.
- 3. Run as an Administrator and ensure that the folder for the log file exists, for example c:\temp.
- 4. There are three options to install or upgrade silently with logging:
 - a. To use the default domain name (localstreaming.vbrick.com) and certificate, use the following command to install:

msiexec /i VbrickMulticast_XXX.msi INSTALLDIR="C:\Program Files\Vbrick\"
/L*V "C:\temp\msilog.log" /qn

b. To use a custom domain name and certificate, use the following command to install:

Note: Make sure to put the SSL certificate of the custom domain in PEM format in location that is set for CERTLOC parameter.

```
msiexec /i VBrickMulticast_XXX.msi INSTALLDIR="C:\Program Files\Vbrick\"
SERVER_PORT="3443"
CERTLOC="C:\Users\user\Documents\VBrick\Avenger\VBM\localstreaming-acme-
com.pem" /L*V "C:\temp\msilog.log" /qn
```

c. To use a custom log file location, use the following command to install:

```
msiexec /i VBrickMulticast.msi INSTALLDIR="C:\Program Files\Vbrick\"
SERVER_PORT="3443" LOGFILE_LOCATION="C:\ProgramData\Vbrick\vbrick-
multicast-agent\logs" DATA_LOCATION="C:\ProgramData\Vbrick\vbrick-
multicast-agent\data" /L*V "C:\temp\msilog.log" /qn
```

Note: The LOGFILE_LOCATION parameter maps to the LOG_FILE_FILENAME line in the .env file and the DATA_LOCATION maps to the SERVER_DATA_FOLDER line in the .env file.



5. If you want to create the log file in the same directory as the msi, just supply the name of the log file "msilog.log" after /L*V

msiexec /i VBrickMulticast_XXX.msi INSTALLDIR="C:\Program Files\Vbrick\"
 /L*V "msilog.log" /qn

Note: You can change the default installation directory in this command line and you can combine the custom domain name and Certificate and custom log file locations into one large command line instruction.

Windows Silent Install or Upgrade - No Logging

To install or upgrade silently with no logging:

- 1. Open an Administrator command prompt.
- 2. Navigate to where the VbrickMulticast_XXX.msi file is located.
- 3. Type the commands below.
- 4. There are *two* options to install or upgrade silently without logging:
 - a. To use the default domain name (localstreaming.vbrick.com) and certificate, use the following command to install:

msiexec /i VbrickMulticast_XXX.msi INSTALLDIR="C:\Program Files\Vbrick\"
/qn

b. To use a custom domain and Certificate, use the following command to install.

Note: Make sure to put the SSL certificate of the custom domain in PEM format in location that is set for CERTLOC parameter.

```
msiexec /i VBrickMulticast_XXX.msi INSTALLDIR="C:\Program Files\Vbrick\"
SERVER_PORT="3443"
CERTLOC="C:\Users\user\Documents\VBrick\Avenger\VBM\localstreaming-acme-
com.pem" /qn
```

> vbrick

Verify the Windows Install

1. Check the log when complete (Example: c:\temp\msilog.log). Look for the following confirmation:

```
MSI (s) (F4:BC) [13:09:31:600]: Product: VbrickMulticast -- Installation
operation completed successfully.
MSI (s) (F4:BC) [13:09:31:600]: Windows Installer installed the product.
Product Name: VbrickMulticast. Product Version: 1.X.X.X. Product
Language: 1033. Manufacturer: Vbrick Systems, Inc.. Installation success
or error status: 0.
```

2. If the installation fails you will see this in the log with more details:

```
MSI (s) (24:24) [13:49:01:590]: Product: VBrickMulticast -- Installation operation failed.
```

- 3. Verify the files are in the installation folder.
- 4. (Optional): If you have selected to install using a custom domain name and Certificate, verify the following:
 - a) Verify that the Certificate is installed in C:\Program Files\Vbrick\vbrick-multicast-agent\cert
 - b) Verify that the env file (C:\Program Files\Vbrick\vbrick-multicast-agent) is updated with the new PEM file name and port number.
 - SERVER_PORT=3443
 - SERVER_SSL_CERT=localstreaming-test_vbrick_com.pem
- 5. Verify that the env file is updated with the new log file locations (or the default values if there is no custom location):
 - LOG_FILE_FILENAME="C:\Vbrick\logs\app.log" or "C:\ProgramData\Vbrick\vbrick-multicastagent\logs\app.log" (by default)
 - SERVER_DATA_FOLDER="C:\Vbrick\data" or "C:\ProgramData\Vbrick\vbrick-multicastagent\data\" (by default)
- 6. Verify Vbrick Multicast Service is running.



Windows Silent Uninstall

To uninstall silently on Windows:

- 1. Open a command prompt.
- 2. Navigate to where the msi is located and type the following:

```
msiexec /uninstall {E7363B25-B90D-41E0-8CF4-C0448B9D51AA} /qn (for v1.4.X
uninstall)
msiexec /uninstall {1424C126-18A3-4279-B734-B06E05631025} /qn (for v1.5.X
uninstall)
msiexec /uninstall {CA844240-2C89-4199-8129-3E316A07CA62} /qn (for v1.6.X
uninstall)
msiexec /uninstall {EA8C5DC4-FEF8-4B29-A4DE-EE6B7FF15903} /qn (for v2.0.X
uninstall)
msiexec /uninstall {067A4C37-0FF0-4990-9049-A8A000DC2D32} /qn (for v2.1.X
uninstall)
```

Note: This number is a unique product code for the Vbrick installer. If you go to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall in the registry and search for VbrickMulticast, this code will be present.

📑 Registry Editor				- 0	×
File Edit View Favorites Help					
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\W	indov	vs\CurrentVersion\Unin	stall\{E7363B25-B90D-	41E0-8CF4-C0448B9D51AA}	
	^	Name	Туре	Data	^
B0A5A6EE-F8BA-48B1-BB32-BAC17E96C2B4	}	👪 Language	REG DWORD	0x00000409 (1033)	
BACA8ED0-DB44-468A-9D76-7D4588B90D66	}	ab ModifyPath	REG EXPAND SZ	MsiExec.exe /X{F7363B25-B90D-41E0-8CE4-C0448B9D51AA}	
BBAB3E9C-40B0-4313-AB14-6E9C3EE18E84		NoModify	REG_DWORD		
CC611DE8-38C7-4650-968E-B973B254E98C}		20 NoPenair	REG_DWORD	0-00000001 (1)	
CF2BEA3C-26EA-32F8-AA9B-331F7E34BA97	ł		REG_DWORD		
		Publisher	REG_SZ	Vbrick Systems, Inc.	
E39976AA-3238-4B09-9B64-FD91FE76CA69		Readme	REG_SZ		
		ab Size	REG_SZ		
{EFB39384-98DF-4AF3-BB36-C0FE040ED65C}		and UninstallString	REG_EXPAND_SZ	MsiExec.exe /X{E7363B25-B90D-41E0-8CF4-C0448B9D51AA}	
FAAE0394-ABCB-4F37-92BB-D3C13D1E5985		赴 URLInfoAbout	REG_SZ	http://www.vbrick.com	
		赵 URLUpdateInfo	REG_SZ		
8357-7994-5030-9105	\sim	St Version	REG DWORD	0x01040000 (17039360)	\checkmark
<	>	<			> .::

- 3. After uninstall, verify the following:
 - vbrick-multicast-agent folder completely removed
 - Vbrick Multicast Service is removed in Task Manager



Mac Silent Install or Upgrade

There are three options to install silently.

- 1. Using the default domain name (localstreaming.vbrick.com) and certificate.
 - a) Download the VbrickMulticast_XXX.pkg file
 - b) Open a Terminal window; cd to the directory with the VbrickMulticast_XXX.pkg file and type the following:

installer -pkg VbrickMulticast.pkg -target /

Caution: Must be run as root.

sudo installer -pkg VbrickMulticast.pkg -target /

- 2. Using a custom domain name and certificate.
 - a) Download the VbrickMulticast_XXX.pkg file. Put the SSL certificate of the custom domain in PEM format in the same directory as the pkg file. Also put the answer.txt file in the same directory.
 - b) Edit the answer.txt and update the port number and the location of the pem file name.
 - c) For example:

SERVER_PORT=3443 SERVER SSL CERT=localstreaming-acme-com.pem

d) Open a Terminal window; cd to the directory with the VbrickMulticast_XXX.pkg file and type the following:

installer -pkg VbrickMulticast.pkg -target /

Caution: Must be run as root.

sudo installer -pkg VbrickMulticast.pkg -target /

- 3. Using a custom installation location.
 - a. Download the VbrickMulticast_XXX.pkg file and answer.txt file and place them in the same directory.
 - b. Edit the answer.txt file and update the INSTALL_LOCATION.
 - c. For example:

```
SERVER_PORT=3443
SERVER_SSL_CERT=localstreaming_acme_com.pem
INSTALL LOCATION=/usr/local/VBMagent
```

Verify Mac Install

By default, the VBM Mac installer installs VBM under the /usr/local/Vbrick folder.

```
Vbrick — -bash — 80×24
Last login: Fri Apr 3 11:36:56 on ttys000
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
IVA-MacGuest01s-MacBook-Pro: va-macguest01$ cd /usr/local/Vbrick/
IVA-MacGuest01s-MacBook-Pro: Vbrick va-macguest01$ ls
envlog.log lognpmstart.log vbrick-multicast-agent
loglaunchctllist.log nodejs
VA-MacGuest01s-MacBook-Pro: Vbrick va-macguest01$
```

Mac Silent Uninstall

Run the following commands to remove VBM agent:

```
sudo rm -r /usr/local/Vbrick
sudo rm -r "/Library/Logs/Vbrick Multicast Service"
sudo rm /Library/LaunchDaemons/vbrickmulticastservice.plist
sudo rm "/Library/Preferences/Application
Support/com.vbrick.pkg.vbmulticast/VbrickMulticast.txt"
sudo pkgutil --forget com.vbrick.pkg.nodejs
sudo pkgutil --forget com.vbrick.pkg.vbmulticast
```

Caution: In order to uninstall the Vbrick Multicast Agent successfully you must not be playing a VBM Stream in Vbrick Rev on your Mac at the time.



GUI Based Install

Windows GUI Install

Note: The process for installing and upgrading the Vbrick Multicast is exactly the same.

To install or upgrade the Vbrick Multicast agent, you can use either the VBrickMulticast_XXX.msi file or the SetupVbrickMulticast_XXX.exe file.

Install/Upgrade using the VBrickMulticast_XXX.msi file:

- Double click on the VBrickMulticast_XXX.msi file to begin the installation process. (You do not need to run this as administrator).
- Continue with the installation process as shown below.

Note: For silent installations you must deploy using the MSI file. See below for more information regarding the silent install and uninstall process.

Install/Upgrade using SetupVbrickMulticast_XXX.exe:

- Double click on the SetupVBrickMulticast_XXX.exe file to begin the installation process. (You do not need to run this as administrator).
- Continue with the installation process as shown below.
- Select Yes if prompted by User Account Control at any stage during the installation.

To install Vbrick Multicast on a Windows PC using the downloaded installation agent, complete the following steps:



1. Double-click on the msi or exe file. You do not need to Run as Administrator.

🙀 VbrickMulticast - InstallShield Wizard		
Z.	Welcome to the InstallShield Wizard for VbrickMulticast	٦
	The InstallShield(R) Wizard will install VbrickMulticast on your computer. To continue, click Next.	
	WARNING: This program is protected by copyright law and international treaties.	
	< Back Next > Cancel	

2. Accept the License Agreement and click Next to begin the installation process.

🙀 VbrickMulticast - InstallShield Wizard	×
License Agreement	
Please read the following license agreement carefully.	
VBrick Subscription EULA	^
VBrick End User License Agreement	
VBRICK END USER LICENSE AGREEMENT FOR VBRICK	
AND COMPONENTS.	
RESTRICTED TO THE NUMBER OF LICENSES SUBSCRIBED TO PER THE APPLICABLE ORDER(S).	~
I accept the terms in the license agreement Print	
\bigcirc I do not accept the terms in the license agreement	
InstallShield	
< Back Next > Cancel	

3. Click Next to select the default Destination Folders. Or click Change to choose different installation folders if desired.





🙀 VbrickMulticast - InstallShield Wizard	×
Destination Folder Click Next to install to this folder, or click Change to install to a different folde	r. 2
Install VbrickMulticast to: C:\Program Files\Vbrick\	Change
Default log file directory: C:\ProgramData\Vbrick\vbrick-multicast-agent\/ogs\	Change
Default data directory: C:\ProgramData\Vbrick\vbrick-multicast-agent\data\	Change
Change default certificate settings (Not Standard)	
InstallShield < Back Next >	Cancel

- 4. Changing the default certificate settings: If you choose to use custom domain name for Vbrick Multicast playback, check Change default certificate settings (Not Standard) checkbox. Custom domain name feature is only applicable if you are on Rev 7.29 or greater.
- 5. Browse to the location of the new VbrickMulticast Certificate File (*.pem file).
- 6. Enter a new Port number if you want to change it from the default of 3443.
- 7. Click Next to proceed.

🐻 VbrickM	ulticast - InstallShield Wizard	×
Destinati Click Nex	on Folder It to install to this folder, or click Change to install to a different folder	と
Þ	Install VbrickMulticast to: C:\Program Files\Vbrick\	Change
Default lo C:\Program	g file directory: mData\Vbrick\vbrick-multicast-agent\logs\	Change
Default da C:\Progra	ata directory: mData\Vbrick\vbrick-multicast-agent\data\	Change
Chan	ge default certificate settings (Not Standard) Install New VbrickMulticast Certificate File:	
	localstreaming_vbrick_com.pem	Browse
	Change Port (Optional)	
Hel . I I	3443	
InstallShield –	< Back Next >	Cancel

8. Click Install to begin once your installation location has been set.

🙀 VbrickMulticast - InstallShield Wizard 🛛 🗙 🗙	L
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield 	

- 9. Installation status will be noted on your screen and may take several minutes.
- 10. Click the Finish button when it appears to complete the installation.

🔀 VbrickMulticast - InstallShiel	d Wizard	×
ی	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed VbrickMulticast. Click Finish to exit the wizard.	
	< Back Finish Cancel	

11. Verify that the files in the image(s) below have been installed to your destination directories.





C:\Program Files\\					
	/brick\vbrick-multicast-ag	ent			– 🗆 X
File Home	Share View				^ ()
Pin to Quick Copy H access	Paste Coty path Paste Paste shortcut	Move Copy to * Copy	New item ▼ New item ▼ 1 Easy access ▼ folder	Properties	Select all
	board	Organize	TACAN	Open	Select
	71. 80. 1. 18.1	(C) D E1 14 1			
← → * ↑	This PC > Local Disk	(C:) > Program Files > Vbrick	 vbrick-multicast-agent 	~	C Search vb P
Screen shots		^ Name		Date modified	Type Size
😻 Dropbox		bin		2/5/2020 9:58 AM	File folder
OneDrive - Pers	sonal	cert		2/5/2020 9:58 AM	File folder
		dist		2/5/2020 9:58 AM	File folder File folder
OneDrive - Vbri	ick Systems, Inc	env		2/5/2020 9:58 AM	ENV File
💻 This PC		📝 package.json		1/31/2020 8:58 PM	JSON File
🐂 Libraries		package-lock.js	son	1/31/2020 8:58 PM	JSON File
🚊 Documents		📝 version.json		1/31/2020 8:58 PM	JSON File
🔔 Music					
🚊 Notes					
Pictures					
🔢 Videos					
Pi (D.)		✓ <			>
oitems					
C:\ProgramData\V					
	/brick\vbrick-multicast-age	ent			– 🗆 X
File Home	/brick\vbrick-multicast-age Share View	ent			- □ ×
File Home	/brick\vbrick-multicast-age Share View	Move Copy to ~ to ~	New item ▼ New folder	Properties	- C × Select all Select none Invert selection
File Home	/brick\vbrick-multicast-age Share View	Move to v Ury Copy to v Organize	New item • New folder New	Properties • Open • History Open	- □ × Select all Select none Invert selection Select
File Home Pin to Quick Copy I access Clip Clip	/brick\vbrick-multicast-age Share View ↓ Cut ↓ Cut ↓ Copy path Paste shortcut ↓ board	Move to v Corpy Organize	New item • New folder New	Properties • Open Open	- C × Select all Select none Select Select
File Home Image: Print to Quick Copy Pin to Quick Copy Image: Clip Image: Print to Quick Image: Clip Image: Print to Quick Image: Print to Quic	/brick\vbrick-multicast-age Share View Cut Share Copy path Paste Shortcut sboard > This PC > Local Disk	Move to * Copy to * Organize (C:) > ProgramData > Vbrick >	New item • New folder vbrick-multicast-agent >	Properties Open Open Open	→ □ × > Select all ⇒ Select none ⇒ Invert selection Select Search vb ♪
File Home	/brick/vbrick-multicast-age Share View Cut Copy path Paste Shortcut iboard > This PC > Local Disk	ent Move to * Organize (C:) > ProgramData > Vbrick > Name	New item • New folder • vbrick-multicast-agent >	Properties Open ~ Properties History Open	C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C
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12. Verify that the Vbrick Multicast Service is running in the Windows Task Manager. (Start Menu > type "Task Manager" in the Search box > Services tab).

607 Herndon Parkway, Suite 300 \ Herndon, VA 20171 \ USA \ <u>www.vbrick.com</u>



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File Action View	Help						
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Services (Local)	Services (Local)						
	VBrick Multicast Service	Name	Description	Status	Startup Type	Log On As	^
		🔍 User Profile Service	This service is responsible fo	Running	Automatic	Local System	
	Stop the service	VBrick Multicast Service	VBrick Multicast Service	Running	Disabled	Local System	
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		🗸 🎑 Virtual Disk	Provides management servi		Manual	Local System	
	Description:	🖾 VMware USB Arbitration Service	Arbitration and enumeration	Runnina	Automatic	Local System	× .
	Extended Standard						

- 13. If the user's computer is protected by a firewall or some other endpoint software, make sure that the Vbrick Multicast Agent's NodeJS process is allowed to listen to the multicast streams on the UDP ports. See: <u>Windows Firewall</u>.
- 14. You have successfully installed the Vbrick Multicast Service and are ready to enable Vbrick Multicast in Rev. See the Rev online help sub-topic: <u>Add a Dynamic Stream</u>.

Windows GUI Uninstall

To uninstall from Windows:

- 1. Run VbrickMulticast_XXX.msi again.
- 2. After you uninstall:
 - **b** vbrick-multicast-agent folder completely removed.
 - **VBM Service is removed.**

Note: You can also uninstall from the Windows Control Panel if this is your preference.

Mac GUI Install

1. Double click on the VbrickMulticast_XXX.pkg to launch the installer.



2. Continue with the installation process.



3. Select Continue and then Agree to accept the Software License Agreement.

	Software License Agreement	
- Introduction	English	
Custom	VBrick Software and Component EULA	
Destination Select	VBrick Software and Component End User License Agreement	
Installation Type	VBRICK END USER LICENSE AGREEMENT FOR VBRICK SOFTWARE PROGRAMS AND APPLICABLE APPLIANCE AND HARDWARE COMPONENTS ("SOFTWARE PRODUCT").	
 Installation 	VBRICK SYSTEMS, INCORPORATED ("VBRICK") IS WILLING TO PROVIDE THE BELOW LICENSE	
 Summary 	TERMS CONTAINED IN THIS AGREEMENT.	
	BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS END-USER LICENSE AGREEMENT ("EULA").	
	THIS EULA IS RESTRICTED TO THE NUMBER OF LICENSES SUBSCRIBED TO.	
	This EULA is a legal agreement between You and Your affiliates (either an individual or a legal entity) ("You" and/or "You") and VBrick for the VBrick Software Product identified in the applicable purchase	
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4. Click Continue to use the default Certificate settings or click Change default certificate settings (Not standard) to choose a different certificate or install directory.



	💝 Install VbrickMulticast	
	Installation Settings	
IntroductionLicense	Change default settings (Not Standard)	
 Custom Destination Select Installation Type 	Install VbrickMulticast to (default recommended): /usr/local/Vbrick Browse	
InstallationSummary	Install New Certificate File:	
	localstreaming_vbrick_com.pem Browse	
	3443	
▶ vbrick		
htttp://www.vbrick.com	Go Back Continue	

- Changing the default certificate settings: If you choose to change the default settings, check Change default certificate settings (Not Standard) checkbox. Browse to the location of the new Install location, if necessary.
- 6. Browse to the location of the new VbrickMulticast Certificate File (*.pem file), if necessary.
- 7. Enter a new Port number if necessary.
- 8. Click Continue to proceed.

	🥪 Install VbrickMulticast	
	Installation Settings	
IntroductionLicense	Change default settings (Not Standard)	
 Custom Destination Select 	Install VbrickMulticast to (default recommended):	
 Installation Type 	/usr/local/Vbrick Browse	
 Installation 		
 Summary 	Install New Certificate File:	
	localstreaming_vbrick_com.pem Browse	
	Change Port (Optional): 3443	
> vbrick		
http://www.vbrick.com	Go Back Continue	

9. Click Install to start the installation. Or select Change Install Location to install to a different location.



10. You may be prompted to enter a password to allow the installation to proceed.

\bigcirc	Installer is t	rying to install new software.
	Enter your pas	sword to allow this.
	User Name:	UserName
	Password:	•••••
		Cancel Install Software

11. Upon completion select Close to close the Installer.





12. At this point, you will be prompted to either keep the installer or move it to the Trash. When a selection is made, the installer will close.

	🥪 Install VbrickMulticast
 Introductic License Custom Destination Select Installation Type Installation Summary 	Do you want to move the "VbrickMulticast" Installer to the Trash? To keep this package in its current location, click Keep. Keep Move to Trash The installation was successful. The software was installed.
Vbrick	Go Back Close



Troubleshooting

Windows Firewall

Remember, if the user's computer is protected by firewall or some other endpoint software, make sure that the Vbrick Multicast Agent's NodeJS process is allowed to listen to the multicast streams on the UDP ports.

For example, run the Windows firewall command below to allow Vbrick Multicast Agent access to UDP port if Windows firewall is enabled on user's computer.

netsh advfirewall firewall add rule name="VBM Allow UDP" dir=in action=allow program="<VBRICK_MULTICAST_AGENT_INSTALL_LOCATION>\nodejs\node.exe" enable=yes protocol="udp"

Where <VBRICK_MULTICAST_AGENT_INSTALL_LOCATION> is where you have installed Vbrick Multicast.

Mac Firewall

If you use stealth mode with your Mac firewall, Vbrick Multicast streams may not load and play correctly. Disabling this feature in your Mac firewall will correct this issue and allow you to use the VBM agent.

Details on stealth mode and how to disable it may be seen in the MacOS User Guide.