

Dialogic® PowerMedia[™] XMS WebRTC

Demo Guide

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Revision History

Revision	Release Date	Notes
05-2718-010	May 2018	Updates to support PowerMedia XMS Release 4.0.
05-2718-009	May 2018	Updates to support PowerMedia XMS Release 3.5. Browser Support for WebRTC: Updated the section.
05-2718-008	September 2015	Updates to support PowerMedia XMS Release 3.0. WebRTC with PowerMedia XMS: Updated information to support HTTPS.
05-2718-007	May 2015	Updates to remove redundant information available in the <i>Dialogic</i> ® <i>PowerMedia</i> ™ <i>XMS Installation and Configuration Guide</i> .
05-2718-006	February 2015	Updates to support PowerMedia XMS Release 2.4.
		Installing WebRTC with PowerMedia XMS: Updated list of supported processors.
05-2718-005 (Updated)	January 2015	Updates to remove VXML support.
05-2718-005	September 2014	Updates to support PowerMedia XMS Release 2.3.
05-2718-004	June 2014	Installing WebRTC with PowerMedia XMS: Updated list of supported operating systems and added new section for supported virtual machines.
		RPM Method: Added note that SELinux is not supported and should be disabled.
		WebRTC Browser Access: Updated the URL format to HTTP.
05-2718-003	February 2014	Updates to support PowerMedia XMS Release 2.2.
		WebRTC Browser Access: Updated the URL to secure HTTP.
		WebRTC Verification Demos: Removed note that the WebRTC verification demos are video-only. Supported on audio and video.
05-2718-002	November 2013	WebRTC Verification Demos: Added note that the WebRTC verification demos are video-only.
05-2718-001	October 2013	Updates to support PowerMedia XMS Release 2.1.
05-2718-001-01	August 2013	Initial release of this document.

Revision	Release Date	Notes
Last modified: May	2018	

Refer to www.dialogic.com for product updates and for information about support policies, warranty information, and service offerings.

1. Welcome

This WebRTC Demo Guide provides information about running WebRTC demos with Dialogic® PowerMedia[™] Extended Media Server (also referred to herein as "PowerMedia XMS" or "XMS").

Refer to the *Dialogic*® *PowerMedia*[™] *XMS Installation and Configuration Guide* for information about installing, configuring, administering, and maintaining the PowerMedia XMS.

Related Information

See the following for additional information:

 PowerMedia XMS Release 4.0 documentation at http://www.dialogic.com/manuals/xms/xms4-0.

2. WebRTC with PowerMedia XMS

This section illustrates what is needed to configure the browser to run the provided demos using WebRTC and writing your own WebRTC clients. You need to first make sure to use a web browser that is compatible with WebRTC. To see a list of supported web browsers for WebRTC, refer to the Browser Support for WebRTC section.

Note: Browsers provide a visual/audio/video endpoint for user interaction. They do not contain demo application logic.

Refer to the *Dialogic ® PowerMedia*[™] *XMS Installation and Configuration Guide* for more details about configuring the PowerMedia XMS and the application technologies.

Supported Web Browsers

Browser Support for PowerMedia XMS Admin Console

The following web browsers are supported:

- Google Chrome
- Mozilla Firefox
- Microsoft Internet Explorer
- Apple Safari

Browser Support for WebRTC

The following web browsers are supported:

- Google Chrome
- Mozilla Firefox

Note: Other release lines of Mozilla Firefox (Nightly) and Google Chrome (Canary) are subject to frequent change and may not work correctly. Any other WebRTC clients including Apple Safari and Opera may also work, but may also have some compatibility issues.

WebRTC Browser Access

The PowerMedia XMS WebRTC demos use HTTPS (secure HTTP) to access the WebRTC browsers. PowerMedia XMS is delivered with self-signed security certifications with the expectation that, when used for production on a public system, legitimate security certificates will be put in place. Google Chrome and Mozilla Firefox access the WebRTC browser differently. Launch the WebRTC browser as follows, and then refer to the Chrome or Firefox section for browser-specific details.

To launch the WebRTC browser, enter the IP address in URL format in the address field:

https://<xms_ip_address>/rtcweb/webrtc.html

Note: The screens will differ between Chrome and Firefox.

Chrome

Establish the HTTPS Connection

When accessing the WebRTC demo for the first time, the following warning will be displayed. An HTTPS connection must be established as follows or the WebRTC demos will not work.

Privacy error		
← → C P http://192.168.1.9/		
← → C Amps://192.168.1.9/	rtcweb/webrtc.ntmi	
	×	
	Your connection is not private	
	Attackers might be trying to steal your information from 192.168.1.9 (for example,	
	passwords, messages, or credit cards). NET::ERR_CERT_AUTHORITY_INVALID	
	🗌 A dependently speed details of available security invidents to Couple Driven walks.	
	Automatically report details of possible security incidents to Google. <u>Privacy policy</u>	
	Advanced Back to safety	

1. Click the **Advanced** link to display additional information.



 Click Proceed to <xms-ip-address> (unsafe). The login screen for the demo will appear with an indication that the HTTPS connection has been made with an untrusted certificate. The demo will operate normally.



Launch the WebRTC Browser

Proceed as follows to launch the WebRTC browser after establishing the HTTPS connection.

1. Enter a name in **Please enter your login Name** box and then click **Login**.

PowerMedia XMS WebRT	C Solution
Please enter your login Name :	
Login Name	
	Login

2. Choose whether to allow or deny media selection in your browser. Wait for a message indicating the choices.

Default camera and microphone settings are automatically selected by the Chrome browser and can be modified through the Chrome menu **Settings** on the browser toolbar.



Note: Browser restart will be necessary after making any changes.

3. Click **Allow** button to enable media through your browser as illustrated. Click **Learn more** link for more information on media functionality.

Note: Failure to click the **Allow** button will cause the WebRTC demos not to function properly.

If there is an error message that states "failed to get access to local media," the browser cannot access specified media for its use. Make sure that the selected media devices are not being used by any other application on that system.

The WebRTC browser and the PowerMedia XMS should be successfully linked as shown.



4. Proceed to the WebRTC Verification Demos section for instructions on how to verify PowerMedia XMS WebRTC access using the verification demos.

Firefox

Establish the HTTPS Connection

When accessing the WebRTC demo for the first time, the following warning will be displayed. An HTTPS connection must be established as follows or the WebRTC demos will not work.

Untrusted Connection × +								×)
The second secon	E v G	Q Search	☆	+ +	俞	Ø	ABP -	Ξ
	 This Connection is Untrusted You have asked Firefox to connect securely to 192 is secure. Normally, when you try to connect securely, sites ware going to the right place. However, this site's idd What Should I DO? If you usually connect to this site without problem impersonate the site, and you shouldn't continue. Get me out of here! Technical Details I Understand the Risks 	.168.1.9, but we can't confirm that your co will present trusted identification to prove entity can't be verified. Is, this error could mean that someone is tr	onnection that you ying to					

1. Click **I Understand the Risks** to display additional information.



2. Click Add Exception. The Add Security Exception popup will appear.

Add Security Exception
You are about to override how Nightly identifies this site. Legitimate banks, stores, and other public sites will not ask you to do this.
Server
Certificate Status This site attempts to identify itself with invalid information.
Wrong Site
The certificate belongs to a different site, which could mean that someone is trying to impersonate this site.
Unknown Identity
The certificate is not trusted because it hasn't been verified as issued by a trusted authority using a secure signature.
Permanently store this exception
Confirm Security Exception Cancel

- 3. Click **Confirm Security Exception** to establish the security exception for port 443 HTTPS.
- 4. To begin adding the second exception for an internal websocket connection using port 1080, launch the WebRTC browser again using the following IP address in URL format:

https://<xms-ip-address>:1080

Note: Adding the second exception is required when using Firefox to run WebRTC demos.

5. Repeat steps 1 through 3 for port 1080. The following screen indicates that the security exception for port 1080 has been set. The demo will operate normally.



If there are problems with accessing the demo using HTTPS, stored exceptions should be checked and verified. This can be done by going to **Options** > **Advanced** > **Certificates** > **View Certificates** > **Servers**. In the **Certificate Manager** window, locate the name or IP address of your server. There should be an exception for port 443 and port 1080.

If necessary, it is possible to add the exceptions in the **Certificate Manager** window instead of establishing the HTTPS connection using the WebRTC URLs.

In the following example, the IP address is 192.168.1.9 and the port is 1080 (192.168.1.9:1080).

You have certificates on file	that identify these servers:			
Certificate Name	Server	Lifetime	Expires	173
(Not Stored)	192.168.1.9:1080	Permanent		
(Not Stored)	54.86.96.119:443	Permanent		
(Not Stored)	104.239.173.210:443	Permanent		
(Not Stored)	146.152.126.27:443	Permanent		_
(Not Stored)	23.253.156.122:443	Permanent		1
(Not Stored)	119.9.94.122:443	Permanent		
(Not Stored)	54.163.151.98:443	Permanent		
ACNNIC				
MCSHOLDING TEST		Permanent	4/3/2015	٣
View	Export Delete	Add Exception		

Launch the WebRTC Browser

Proceed as follows to launch the WebRTC browser after establishing the HTTPS connection.

1. Enter the IP address in URL format in the address field:

https://<xms_ip_address>/rtcweb/webrtc.html

2. When the login page appears, enter a name in **Please enter your login Name** box then click **Login**.



3. Choose the appropriate media selection in your browser. Wait for a message indicating the choices. Select the desired devices and click **Share Selected Devices** button.

😻 Dialogic WebRTC Demo	- Mozilla Firefox			x
<u>File Edit View History</u>	Bookmarks Tools Help	A a [0	- Conto	ол
Pavorites Dialogic	Would you like to share your camera and microphone × with 192.168.195.12?	PowerMed	dia [™] XMS	
	Integrated Microphone Array (ID	Call Video Call	User• View•	
Status: Available.	- X	DTMF DialPad 1 2 3 4 5 6 7 8 9 * 0 #		
				000

If there is an error message that states "failed to get access to local media," the browser cannot access specified media for its use. Make sure that the selected media devices are not being used by any other application on that system.

The WebRTC browser and the PowerMedia XMS should be successfully linked as shown.



4. Proceed to the WebRTC Verification Demos section for instructions on how to verify PowerMedia XMS WebRTC access using the verification demos.

3. PowerMedia XMS Demos

The **WebRTC Demo** page, as described in WebRTC Browser Access section, is used as an interface to the verification service and is recommended to verify system operation. It will handle a single demo instance on the system at any given time and is not intended to be used for load testing or production.

This section illustrates what is needed to verify the provided demos using WebRTC.

- WebRTC Verification Demos
- PowerMedia XMS Applications

WebRTC Verification Demos

The following WebRTC verification demos are available. These demos are installed by default on the system and are activated using a specific URI.

- Video Play Verification Demo plays a video clip into browser or SIP phone.
- Conference Verification Demo four (4) party conferencing demo that shows interoperability between Chrome, Firefox, and SIP. Inbound calls enter and leave the conference. Web page selections allow for playing a video clip into the conference and recording the conference and replaying the recording.
- Join Verification Demo two SIP or WebRTC inbound video calls are joined together and then unjoined when one hangs up.
- WebRTC to SIP Verification Demo allows a SIP URL to be dialed from a WebRTC screen. When the SIP call is answered, the two endpoints are joined together. When either call hangs up, the other caller will be disconnected and the demo reset.

To restart services through the Console, refer to the Services section for more information.

Video Play Verification Demo

This verification demo plays a video clip.

Initialize the browser as described in WebRTC Browser Access section.

Enter play_demo in the Name of person to call box and click Call button.



When the Call button is clicked, the status will display Calling play_demo. Connecting.



Once connected, the screen will show a video clip with race cars (if video is enabled).

You can hang up the call by clicking the red **Hang Up** button at the top of the screen or wait until the video clip finishes playing.

When the demo hangs up, it will display **Call disconnected**.

Conference Verification Demo

This verification demo provides an ad-hoc four (4) party video conference. Callers are immediately placed into conference on calling in, and leave the conference when hung up. Additional functions are conference recording, replaying the recording into the conference, and playing a video into the conference.

Note: A 4-port evaluation license is necessary for the callers in the conference.

Initialize the browser as described in WebRTC Browser Access section.

Enter **conf_demo** in the **Name of person to call** box and click **Call** button.



When the **Call** button is clicked, the status will display **Calling conf_demo. Connecting**.



Once connected, the screen will show an image of the caller.

The **DTMF Dial Pad** provides the following functions:

DTMF 1: Plays the **Dialogic Network Fuel** video clip into bottom right tile.

Note: There is not a stop button for video so let it play until the end.

DTMF 2: After a beep, the conference will record for ten (10) seconds which overwrites previous recording.

DTMF 3: Plays recorded conference into bottom right tile until completion.

DTMF 4: Plays recorded conference into full screen until completion, pre-empting conference.

DTMF 5: Plays the **Dialogic Network Fuel** video clip in full screen until completion, pre-empting conference.

The **Conference Demo Control** menu provides the same functions as the **DTMF Dial Pad**. The **Conference Demo Control** menu is accessible through the **View** drop-down list.

You can hang up the call by clicking the red **Hang Up** button at the top of the screen or wait until the video clip finishes playing.

When the demo hangs up, it will display **Call disconnected**.

Join Verification Demo

This verification demo joins two video calls together. It is intended to demonstrate audio and video transcoding between two different endpoints, either SIP or WebRTC. It expects two inbound calls, and will join the second call to the first when the second arrives. When either call hangs up, the other caller will be disconnected and the demo reset.

Initialize the browser as described in WebRTC Browser Access section.

Enter join_demo in the Name of person to call box and click Call button.



When the Call button is clicked, the status will display Calling join_demo. Connecting.

Once connected, the screen will show that each caller will see and hear the other. Video will be a single full screen of the other caller (if video is enabled).



You can hang up the call by clicking the red **Hang Up** button at the top of the screen or wait until the video clip finishes playing.

When the demo hangs up, it will display **Call disconnected**.

WebRTC to SIP Verification Demo

This verification demo allows a SIP URL to be dialed from a WebRTC screen. When the SIP call is answered, the two endpoints are joined together. When either call hangs up, the other caller will be disconnected and the demo reset.

Initialize the browser as described in WebRTC Browser Access section.

Enter the destination SIP URL in the Name of person to call box and click Call button.

The URL must be in the following format:



When the **Call** button is clicked, the status will display **Calling <SIP URL>. Connecting**.

Once connected, each caller will see and hear the other. Video will be a single full screen of the remote caller (if video is enabled).

🕑 Dialogic WebRTC Demo - Mozilla Firefox			
<u>File Edit View History Bookmarks Too</u>	ls <u>H</u> elp		
G G G https://192.168.195.12	:1080/webrtc.html	Google	
Favorites			
D Dialogic WebRTC Demo	+		
Dialogic		PowerMedia [™] X	MS
	VebRTC Demo		
Name of person to call :	sip:test@10.20.132.62	Call Hang Up	
		User◄	View •
In call			
Remote Video	 LIV.	DTMF DialPad 1 2 3 4 5 6 7 8 9 * 0 #	

You can hang up the call by clicking the red **Hang Up** button at the top of the screen or wait until the video clip finishes playing.

When the demo hangs up, it will display **Call disconnected**.

PowerMedia XMS Applications

There are additional PowerMedia XMS applications that can be invoked through the **WebRTC Demo** browser page:

- NETANN
- RESTful

NETANN

No separate verification application is needed.

Initialize the browser as described in WebRTC Browser Access section.

To use the NETANN announcement service, enter one of the following in the **Name of person to call** box.

Audio-only ("Video Call" option should be unchecked):

```
annc@xms;play=file://verification/greeting.wav
```

or

annc@xms;play=file://verification/greeting.wav;locale=en-US;repeat=2;delay=1;duration=infinite

Audio and Video:

annc@xms;play=file://verification/greeting

Click the **Call** button to hear the greeting.

To use the NETANN conference service (audio and video), enter the following in the **Name** of **person to call** box:

conf=1234@xms

Click the **Call** button to join conference 1234.

RESTful

The PowerMedia XMS RESTful interface works with the XMS RESTful Verification Demo and XMS RESTful Tool. These two demos are delivered on PowerMedia XMS and can be accessed from the **Tools** page via **Downloads** menu.

Tools Window Logger Manager Tool Window Logger Manager Tool XMS RESTful Verification Demo XMS RESTful Verification Demo XMS RESTful Tool

XMS RESTful Verification Demo

Prepare for the demo as follows:

The downloaded *XMSVerificationDemo.zip* file should be downloaded to a system with a Java runtime and a Windows environment.

Unzip the file that contains source code of the demo. Navigate to *XMSVerificationDemo.jar* in the **dist** subfolder.

From the command prompt, run the following command:

java -jar XMSVerificationDemo.jar

Specify the correct PowerMedia XMS Server IP address and then click the **Run Inbound Demo** button.

File Help	
XMS Server IP 192.168.1.142	XMS Server Port 81 AppID app
Called URI sip:ipdocn0192.168102	
Call State WAITING TO RUN	Run Outbound Demo Run Inbound Demo
Last Result	\wedge
Messages Sent	<u>۲</u>

Additional information about the demo can be found in the *Dialogic*® *PowerMedia*™ *XMS Quick Start Guide*.

To run the demo from **WebRTC Demo** browser page, specify **rest** in **Name of person to call** and click the **Call** button ("Video Call" option should be unchecked).

Dialogic WebRTC Demo - Mozilla Firefox		Contraction of the second	_ - X
<u>Eile Edit View History B</u> ookmarks <u>T</u> oo	ls <u>H</u> elp		
🔄 🗢 🏫 🔜 🎽 https://192.168.195.12	:1080/webrtc.html	🟫 🗢 😋 🛃 👻 Google	الۍ <mark>ج</mark> 🔍 🔍
🔒 Favorites			
Dialogic WebRTC Demo	+		
Dialogic		PowerMedia [™] X	(MS
	VebRTC Demo		
Name of person to call :	rest	Call Hang Up	
		User▼	View •

XMS RESTful Tool

Prepare for the demo as follows:

The downloaded *XMSTool.zip* file should be downloaded to a system with a Java runtime and a Windows environment.

Unzip *XMSTool.zip* file. This will create an **XMSTool** directory. From the command line, navigate to that directory and run the following command:

java -jar dist/XMSTool.jar -g -m <xms ip address>

Note: It is necessary to be in the directory up from **dist**.

Refer to the *Dialogic ® PowerMedia*[™] *XMS Installation and Configuration Guide* for detailed instructions on running the demo.

Select the type of a demo you want XMSTool application to run by selecting it from the drop-down menu:

Menu	
Media Server IP 146, 152, 122, 147	Media Server Port 81
Select the demo you wish to run	
record 🗸	
None	
collect	
confolay	
join	
play	
record	
Clear Input:	

Menu				
Media Server IP 146. 152. 122. 147 Med	ia Server Port 81 Call Co	ntrol 1PCC 👻	App Id: app]
Conferences Eventhandler NodeControl	lei Macios Demos			0 Sip Connections
Create Features	0 Calls	0 Transa	ctions	
Delete Call 🗸				
Update				
Get All				
Get				
Initialize Input				
				Disconnect
Clear Input:				

To run the demo from **WebRTC Demo** browser page, specify **rest** in **Name of person to call** and click the **Call** button ("Video Call" option should be unchecked).

🛃 Dialogic WebRTC Demo - Mozilla Firefox				
<u>Eile Edit View History B</u> ookmarks <u>T</u> oo	s <u>H</u> elp			
🔄 🗢 🏠 📕 🎽 https://192.168.195.12	1080/webrtc.html	🟫 🗢 🤁 😽 🗧 Google	€ ⊽⊡ ۹	
📙 Favorites				
Dialogic WebRTC Demo	+			
Dialogic		PowerMedia [™] XMS		
	VebRTC Demo			
Name of person to call :	rest	Call Hang Up	11	
		U	lser▼ View ▼	