Configure the Windows or Linux Player

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> Note
>
> If you use a different player, you can skip this article.

Before you configure the Windows or Linux Player for DOOH, ensure that you meet the following requirements:

- You've installed the standard Windows Player or Linux Player.

- You've connected the player to IXM One.

- You've installed the latest config settings for the player on the server.

Install the DOOH add-on

To use DOOH on the Windows or Linux Player, you must install the DoohPlaybackService add-on.

You can install this add-on from the server via an update package or locally on the player. For information on the update package, please contact your Grassfish account manager.

To install the add-on manually, perform the following steps:

1. Store the installation package in any folder on the player.

2. Open a command prompt as administrator.

3. To install the package, run a bootstrap command. Enter the command that matches your player's operating system:

   ○ For Windows, enter: *C:\GVClient\tools\current\gfBootstrap\gfBootstrap [path to] \DoohPlaybackService_version_win-x64.zip*

   ○ For Linux, enter: *sudo/opt/grassfish/tools/current/gfBootstrap/gfBootstrap [path to]/ DoohPlaybackService_version_linux-x64.zip*

4. Restart the player service or reboot the player for your changes to take effect.

Install Mosquitto for MQTT

The DOOH add-on communicates with the Windows or Linux Player via Message Queuing Telemetry Transport (MQTT). To enable this, Mosquitto needs to be installed as a broker for the MQTT protocol.

For the Linux Player, MQTT is already included in the installation package by default.

For the Windows Player, you can install MQTT from the server via an update package or locally on the player:
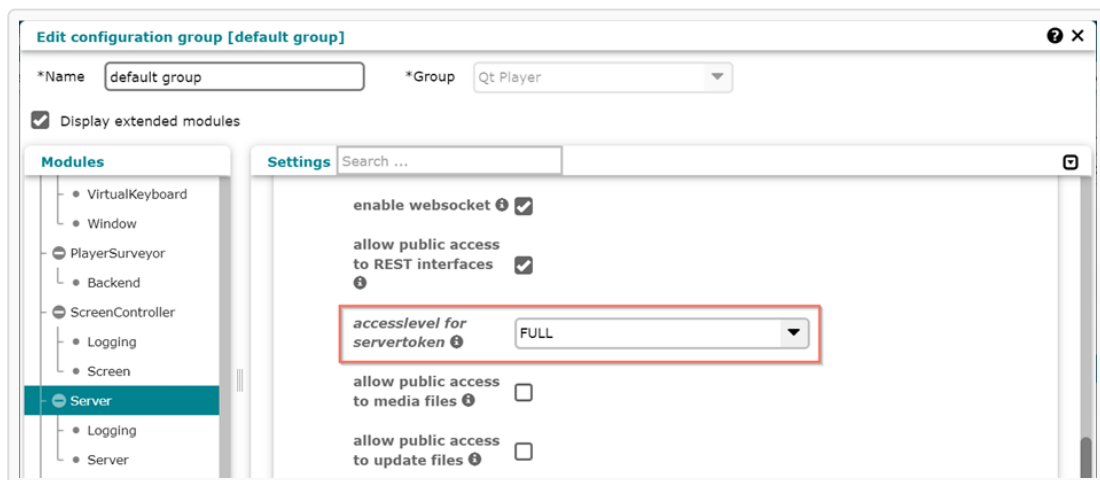
- For information on the update package, please contact your Grassfish account manager.

- To install Mosquitto manually on Windows, open the file mosquitto-1.6.9-install-windows-x64.exe from the installation package and install it.

Enable MQTT

To use DOOH on the Windows or Linux Player, you must enable the connection to the MQTT broker. To do so, perform the following steps:

1. In IXM One, go to go to the player configuration or configuration group:

   - For an individual player, go to **Channels > Location**. Double-click on your player and select **Edit** next to **Configuration** in the **Edit player** window.

   - For a configuration group, go to **Administration > Player > Configuration groups** and double-click on the configuration group.

2. In the **Edit configuration group** window, select **Display extended modules**.

3. Under **Common > Backend** and select **Enable connection to mWindows & Linuxt broker**.

4. Under **Overseer > Tool**, select **Control installed mosquito service**.

5. Under **Server**, set **accesslevel for servertoken** to **Standard** or **Full**.
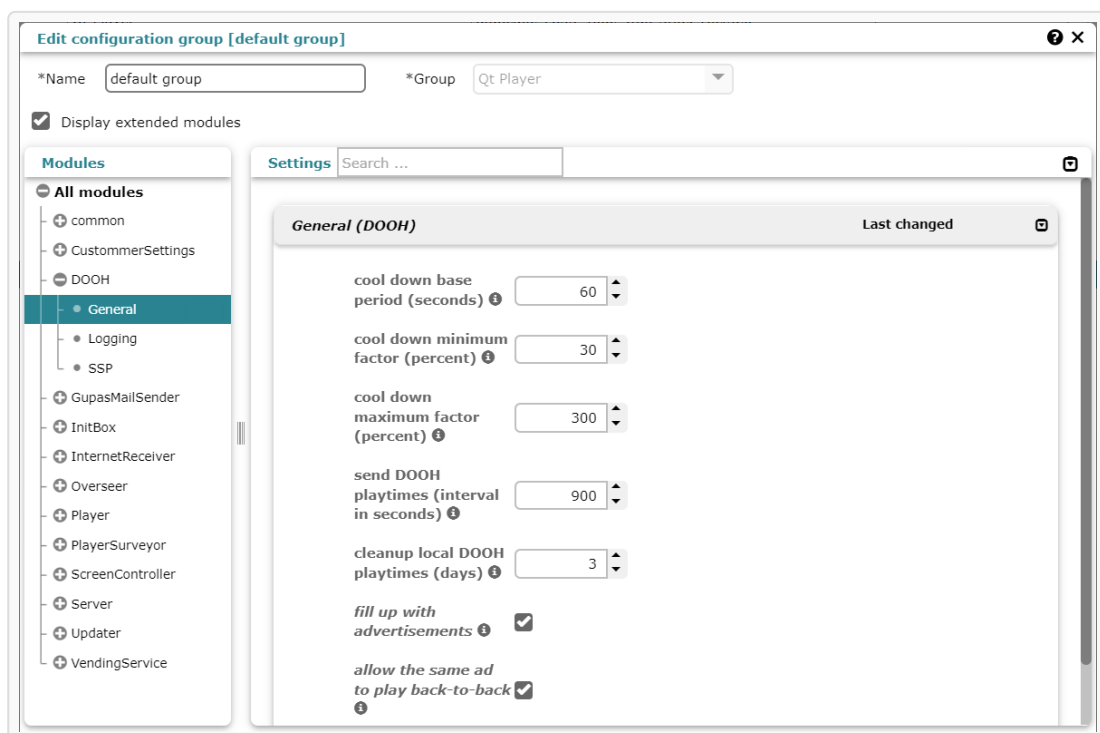

6. Click **Save** to save your changes.

7. Restart the player service or reboot the player for your changes to take effect.

Configure DOOH settings

To optionally configure DOOH-specific settings, perform the following steps:

1. In IXM One, go to the player configuration or the configuration group:

   - For an individual player, go to **Channels > Location**. Double-click on your player and select **Edit** next to **Configuration** in the **Edit player** dialog.

- For a configuration group, go to **Administration > Player > Configuration groups** and double-click on the configuration group.

2. In the **Edit configuration group** window, select **Display extended modules**.

3. Under **Modules**, select **DOOH**.

4. Optionally, change the **cool down base period (seconds)**. The cooldown time for live tag spots is based on this base period.

5. Optionally, change the **cool down minimum factor (percent)**. That is the base time before the same programmatic advertisement runs again.

6. Optionally, change the **cool down maximum factor (percent)**. That is the maximum time before the same programmatic advertisement runs again.

7. Optionally, change **send DOOH playtimes (interval in seconds)**. That is how often DOOH playtimes are sent to the server.

8. Optionally, change **cleanup local DOOH playtimes (days)**. That is how often DOOH playtimes are deleted from the add-on database.

9. Optionally, enable **fill up with advertisements** to fill available advertising time with random DOOH spots. This happens if there's airtime left on the player and no other DOOH spot needs to be played back.

10. Optionally, enable **allow the same ad to play back-to-back** to allow the same advertisement to play consecutively. This can be useful, for example, if you only have one DOOH spot and don't want the system to play too much filler content or nothing at all.

11. Optionally, switch to **Logging** and set the **Log level** to specify which notifications are collected:

- Debug

- Info

- Notice

- Warning

- Error

12. Click **Save** to save your changes.

13. Restart the player service or reboot the player for your changes to take effect.

An add-on is a software extension or enhancement that adds new features or functionality.