



# **Aimetis Symphony Mobile Bridge**

## **2.7**

### **Installation Guide**

# Contents

---

Introduction.....	3
Installation.....	4
Install the Mobile Bridge.....	4
Upgrade the Mobile Bridge.....	4
Network configuration.....	4
Configuration.....	6
Configure the Mobile Bridge.....	6
Settings.....	7
Add a certificate for SSL.....	8
Add a mobile camera.....	8
Transmit video from an Android device.....	9
Transmit video from an iOS device.....	9
Legal information.....	10

# Introduction

---

The Aimetis Symphony Mobile Bridge connects mobile devices with a Symphony Server. The Mobile Bridge manages multiple user connections and supports SSL.

Mobile clients authenticate with the Mobile Bridge, and the Mobile Bridge sends commands or requests for video from mobile devices to the Symphony server. The Mobile Bridge acts as a proxy server for video that the Symphony server transcodes into a format for efficient transmission to and effective viewing on mobile devices.

# Installation

---

Install Mobile Bridge on the computer that hosts the Symphony server or on a separate computer in the same network.

## Install the Mobile Bridge

1. Download and run the installer.
2. Review the license terms and conditions, select **I accept the terms in the License Agreement**, and click **Next**.
3. Click **Install**.
4. To launch the configuration application, click **Launch**.
5. Configure the Mobile Bridge.
6. Click **Save**.

### Related tasks

[Configure the Mobile Bridge](#) on page 6

## Upgrade the Mobile Bridge

1. Download and run the installer.
2. Review the license terms and conditions, select **I accept the terms in the License Agreement**, and click **Next**.
3. Click **Install**.
4. Perform one of the following tasks:
  - a) To change the settings for Mobile Bridge, click **Launch**.
  - b) To use the settings from the previous installation of Mobile Bridge, click **Close**.
5. To change the settings for Mobile Bridge, perform the following tasks:
  - a) Configure Mobile Bridge.
  - b) Click **Save**.

### Related tasks

[Configure the Mobile Bridge](#) on page 6

## Network configuration

The table below describes the ports that Mobile Bridge uses by default.

Port	Protocol	Description
8433	TCP	Mobile Bridge uses this port to communicate with the Symphony Mobile Application. This port must be open on your firewall.
8488	TCP	Mobile Bridge uses this port to request and stream video to the Symphony Mobile Application. This port must be open on your firewall.

Port	Protocol	Description
49900	TCP	<p>Mobile Bridge uses this port to receive video from cameras on iOS mobile devices. For each subsequent iOS device that you add as a mobile camera, the port number increments by one. For example, the second iOS device that you add as a mobile camera uses port 49901.</p> <p>These ports must be open on your firewall.</p>
50001	TCP	<p>Mobile Bridge uses this port for control and notification communications with the Symphony Server.</p>

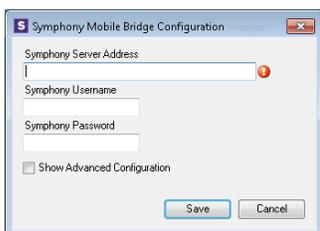
# Configuration

Configure the Mobile Bridge using the configuration application on the computer on which you installed Mobile Bridge.

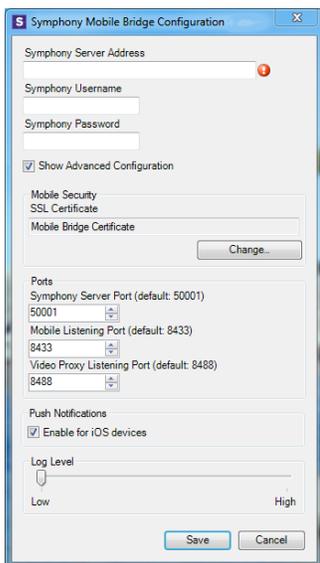
The configuration application starts automatically when the installation is complete. However, you can make changes at any time by running the configuration application.

## Configure the Mobile Bridge

1. To run the configuration application, click **Start > All Programs > Aimetis Symphony > Configure Mobile Bridge**.



2. Type the Symphony server address, username, and password.
3. To display mobile security, ports, and push notifications settings, select **Show Advanced Configuration**.



4. In the **Mobile Security** section, select the certificate that Mobile Bridge uses for communication with mobile devices.  
Mobile Bridge automatically creates a self-signed certificate for SSL communication with mobile devices or you can use your organization's certificate.
5. In the **Ports** section, configure the ports that Mobile Bridge uses to communicate with the Symphony Server and mobile devices.  
The ports that Mobile Bridge uses must be open on the firewall.
6. In the **Push Notifications** section, select whether Mobile Bridge sends push notifications to mobile devices.
7. Set the log level for Mobile Bridge.

8. Click **Save**.

## Settings

### Basic settings

Setting	Description
Symphony Server Address	Type the IP address of the Symphony Server to which the Mobile Bridge connects.
Symphony Username	Type the username for the Symphony Server.
Symphony Password	Type the password for the Symphony Server.

### Mobile Security

Setting	Description
SSL Certificate	<p>Select the certificate that Mobile Bridge uses for SSL connections. Mobile Bridge automatically creates a self-signed certificate for SSL communication with mobile devices or you can use your organization's certificate.</p> <p> <b>Note:</b> Windows Server 2012 does not support sha512 certificates by default.</p>

### Ports

Setting	Description
Symphony Server Port	<p>Select the port that Mobile Bridge uses for control and notification communications with the Symphony Server.</p> <p>By default, this port is set to 50001.</p>
Mobile Listening Port	<p>Select the port that Mobile Bridge uses for communication with mobile devices. This port must be open on your firewall.</p> <p>By default, this port is set to 8433</p>
Video Proxy Listening Port	<p>Select the port that mobile devices use to request and stream video. This port must be open on your firewall.</p> <p>By default, this port is set to 8488.</p>

### Push Notifications

Setting	Description
Enable for iOS devices	Select whether to enable push notifications for iOS devices.

## Log Level

Setting	Description
Log Level	Select the log level for Mobile Bridge from error (low on the slider), basic information, more information, and verbose (high on the slider).

## Add a certificate for SSL

1. Install the certificate on the computer with Mobile Bridge.
2. Run the configuration application.
3. In the configuration application, select **Show Advanced Configuration**.
4. In the **Mobile Security** section, click **Change**.
5. In the **Windows Security** window, select the certificate and click **OK**.
6. Click **Save**.

## Add a mobile camera

You can add the camera on a mobile device to Symphony when you use Mobile Bridge. The mobile camera must be on for Symphony to receive video.

To use a mobile camera, you must open port 49900 on the firewall.

1. In the server configuration interface, click **Devices > Cameras**.
2. Click **Add Cameras**.
3. Click **Add Camera Manually**.
4. In the **Address** field, type 0 . 0 . 0 . 0 .
5. In the **Driver** field, select **Mobile**.
6. In the **User Name** and **Password** fields, type the credentials for the Mobile Bridge.
7. Click **Connect**.
8. In the **Camera Name** field, type a name for the mobile camera.
9. In the **Template** field, select a template for the mobile camera.
10. In the **Group** field, select the group for the mobile camera.
11. In the **Add-Ons** field, select **None**.



**Note:** Symphony video analytics do not support mobile cameras.

12. In the **Server** field, select the Symphony Server for the mobile camera.
13. Click **Add 1 Selected Camera**.
14. Configure the settings for the mobile camera.



**Note:** The resolution on the mobile device must match the resolution set in the server configuration interface to transmit video.

15. Click **Save**.

### Related tasks

[Transmit video from an Android device](#) on page 9

[Transmit video from an iOS device](#) on page 9

## Transmit video from an Android device

You can transmit video from the camera on an Android device to Symphony.

1. In the Symphony server configuration interface add a mobile camera for the Android device.
2. In the Symphony Mobile Application, tap **More Options > Settings > Resolution**.
3. Set the resolution to match the resolution that you set when you added the mobile camera to Symphony.
4. Tap **Back**.
5. Tap **More Options > Transmit**.
6. Tap the camera.
7. Tap **Play**.

### Related tasks

[Add a mobile camera](#) on page 8

## Transmit video from an iOS device

You can transmit video from the camera on an iOS device to Symphony.

To transmit video correctly, use the iOS device in landscape orientation with the home button to the right of the screen.

1. In the Symphony server configuration interface add a mobile camera for the iOS device.
2. In the Symphony Mobile Application, tap **More > Settings > Resolution**.
3. Tap the resolution that matches the resolution that you set when you added the mobile camera to Symphony.
4. Tap **More > Transmit**.
5. Tap the camera.
6. Tap **Play**.

### Related tasks

[Add a mobile camera](#) on page 8

## Legal information

---

Copyright © 2018 Aimetis Corp. and/or its Licensor(s). All rights reserved.

This material is for informational purposes only. Aimetis makes no warranties, express, implied or statutory, as to the information in this document.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Aimetis Corp.

Aimetis may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Aimetis, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

Aimetis® and Aimetis Symphony® are either registered trademarks or trademarks of Aimetis Corp. in the United States and/or other countries.

Portions of this software are based in part on the work of the Independent JPEG Group.

All other trademarks are the property of their respective owners.