

Butterfly Cloud Connection Setup Guide

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I. Brief

This document provides guidance on how to configure Butterfly Cloud Enterprise so that HeartFocus can send exams to a Butterfly Cloud Archive through Butterfly Link.

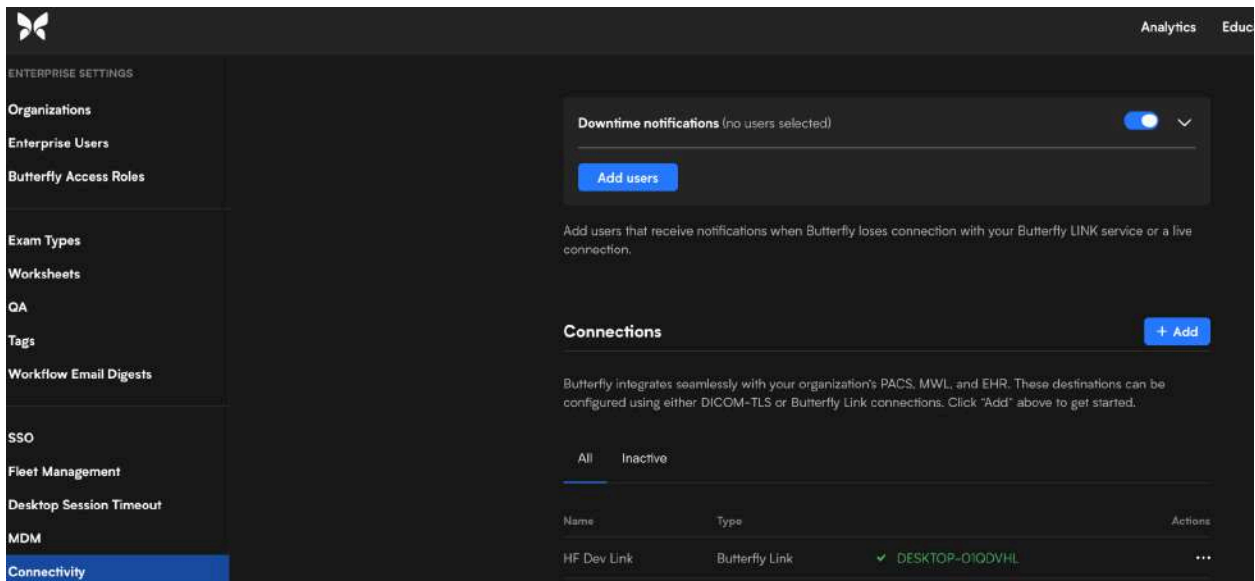
II. Prerequisites

- Butterfly Cloud Enterprise
- Butterfly Link running on a Windows machine and connected to the Butterfly Cloud Enterprise
- Being able to configure Windows Firewall on the Windows machine
- iPad connected to a Wi-Fi network that makes Butterfly Link reachable from the iPad

III. Steps

1) Butterfly Link runs and is detected by Butterfly Cloud

Go to <https://<YOUR DOMAIN>.butterflynetwork.com/-/enterprise/settings/connectivity>
In the Connections section, there should be an entry showing the name of the active Butterfly Link instance.



2) Configure the Archive settings

Each Butterfly Cloud Archive can be configured as a DICOM SCP (Service Class Provider), and receive exams sent by HeartFocus.

To enable the DICOM SCP capability, go to the archive settings and add a Third-party Integration:

The screenshot shows the 'Exams' management interface. On the left, a sidebar lists 'All Exams', 'HF Dev Images', 'HF Other Images', 'Favorites', and 'Unassigned' (with a count of 1). The main area is titled 'EHR Forwarding (Select up to 3)' and contains three rows for 'EHR 1', 'EHR 2', and 'EHR 3', each with a dropdown menu currently set to 'No EHR Selected'. Below this is the 'Third-party Integration' section, which includes a 'Type' dropdown set to 'Select a Butterfly Link', a 'Timezone' dropdown set to 'Timezone', and a 'Save' button. A 'Logs' link is also present.

Select the Connection name in the Type field.

Input a port number such as 48065 in the Port field.

Select your Timezone.

This screenshot shows the same interface as the previous one, but with specific values entered in the 'Third-party Integration' section. The 'Type' dropdown is now set to 'HF Dev Link', the 'Port' field contains the number '48065', and the 'Timezone' dropdown is set to '(UTC+01:00) Brussels, Copenhagen, Madrid, Paris'. The 'Save' button remains at the bottom right.

Click on Save

The screenshot displays the Butterfly Link configuration interface. On the left, a sidebar lists 'All Exams' with sub-items 'HF Dev Images' and 'HF Other Images', and 'Favorites' with 'Unassigned' (1). The main area is titled 'EHR Configuration' and contains three 'EHR' selection dropdowns, all currently set to 'No EHR Selected'. Below these is the 'Third-party Integration' section, which includes a 'Type' dropdown set to 'HF Dev Link', a 'Port' input field set to '48065', and a 'Timezone' dropdown set to '(UTC+01:00) Brussels, Copenhagen, Madrid, Paris'. A 'Save' button is located at the bottom right of the configuration area.

All these actions instruct to Butterfly Link to listen for incoming DICOM connection on the port 48065 on the Windows Machine.

3) Authorize connection on the port 48065

The Windows machine may be configured to block incoming connections on port 48065.

To authorize such a connection, open *Windows Defender Firewall with Advanced Security* application.

Click on *Create a new Rule*

Select Port

New Inbound Rule Wizard

Rule Type

Select the type of firewall rule to create.

Steps:

Rule Type

Protocol and Ports

Action

Profile

Name

What type of rule would you like to create?

☐ Program

Rule that controls connections for a program.

☒ Port

Rule that controls connections for a TCP or UDP port.

☐ Predefined:

@%systemroot%\system32\provsvc.dll,-202

Rule that controls connections for a Windows experience.

☐ Custom

Custom rule.

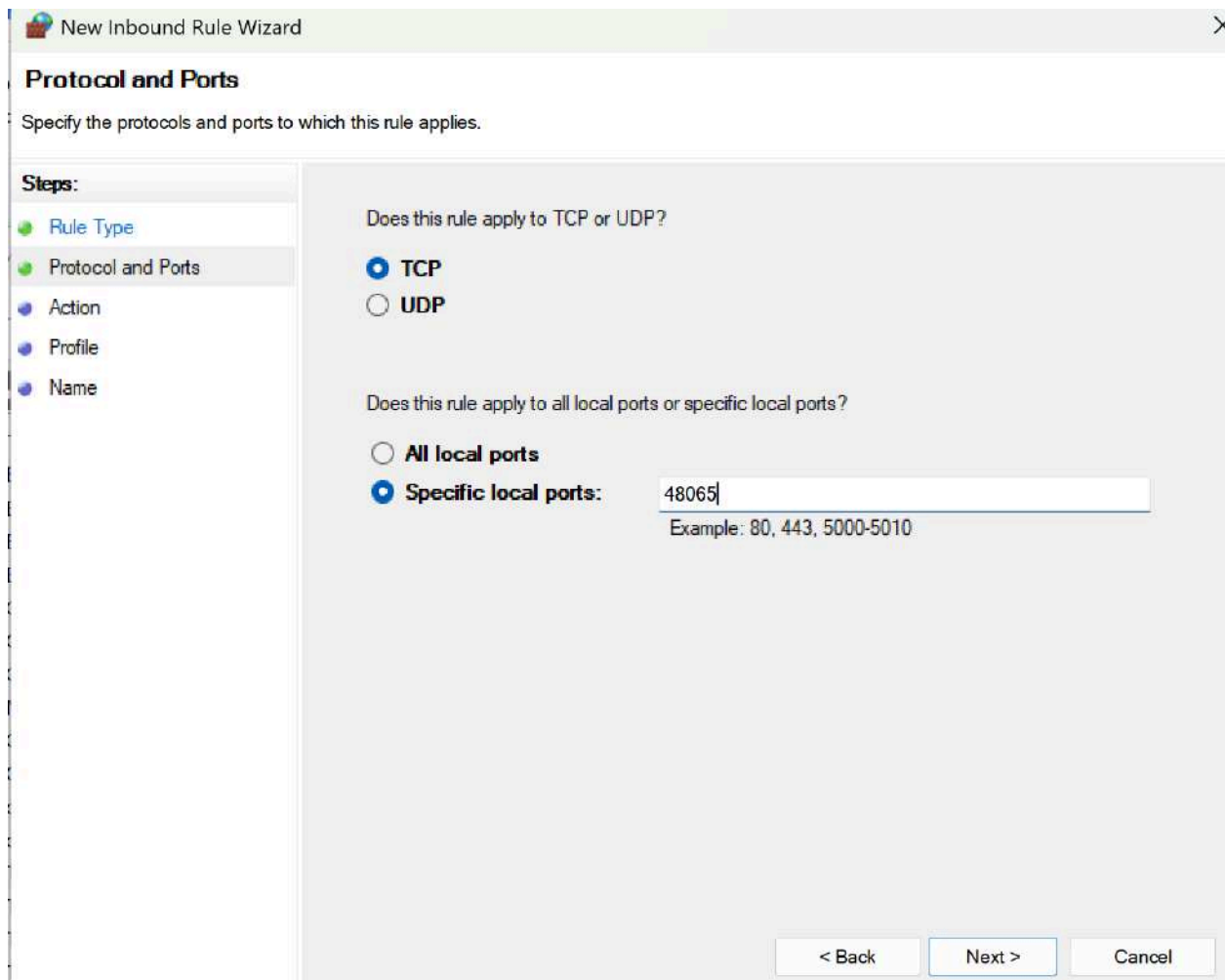
< Back

Next >

Cancel

Select TCP

Input 48065 in Specific Local Ports



The image shows a screenshot of the 'New Inbound Rule Wizard' window, specifically the 'Protocol and Ports' step. The window has a title bar with a close button. On the left, there is a 'Steps:' sidebar with five items: 'Rule Type' (highlighted in blue), 'Protocol and Ports' (highlighted in green), 'Action', 'Profile', and 'Name'. The main area of the wizard is titled 'Protocol and Ports' and contains the instruction 'Specify the protocols and ports to which this rule applies.' Below this, there are two sections of radio buttons. The first section asks 'Does this rule apply to TCP or UDP?' with 'TCP' selected. The second section asks 'Does this rule apply to all local ports or specific local ports?' with 'Specific local ports:' selected. A text input field next to 'Specific local ports:' contains the value '48065'. Below the input field, there is an example text: 'Example: 80, 443, 5000-5010'. At the bottom right of the wizard, there are three buttons: '< Back', 'Next >', and 'Cancel'.

New Inbound Rule Wizard

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

☒ TCP

☐ UDP

Does this rule apply to all local ports or specific local ports?

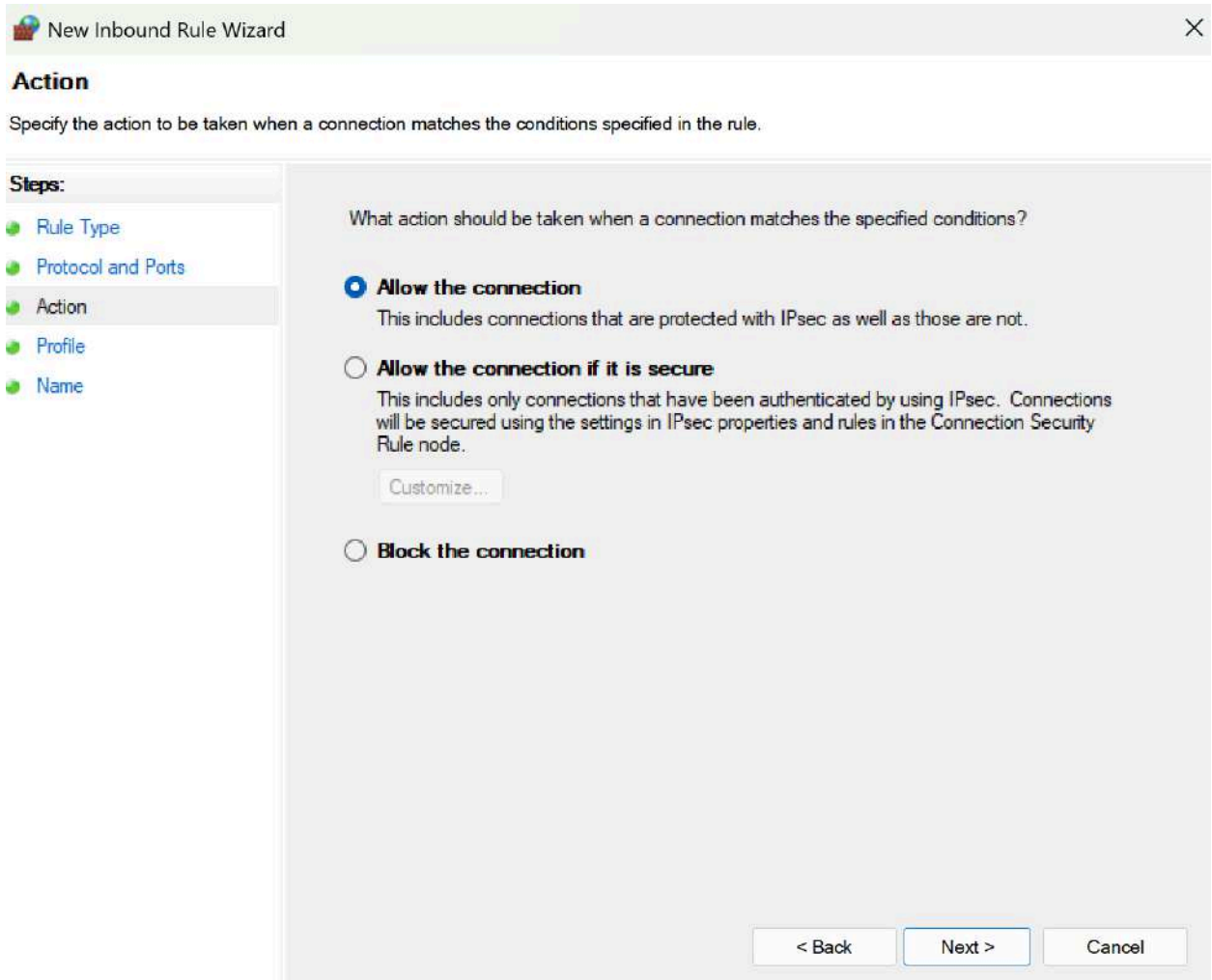
☐ All local ports

☒ Specific local ports:

Example: 80, 443, 5000-5010

< Back Next > Cancel

Select Allow the connection



The image shows a screenshot of the 'New Inbound Rule Wizard' window, specifically the 'Action' step. The window has a title bar with a close button. Below the title bar, the word 'Action' is displayed in bold. A subtitle reads: 'Specify the action to be taken when a connection matches the conditions specified in the rule.' On the left side, there is a 'Steps:' panel with a list of steps: 'Rule Type', 'Protocol and Ports', 'Action' (which is highlighted), 'Profile', and 'Name'. The main area of the wizard contains the question 'What action should be taken when a connection matches the specified conditions?'. There are three radio button options: 1. 'Allow the connection' (selected): This includes connections that are protected with IPsec as well as those are not. 2. 'Allow the connection if it is secure': This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Below this option is a 'Customize...' button. 3. 'Block the connection'. At the bottom right of the wizard, there are three buttons: '< Back', 'Next >', and 'Cancel'.

New Inbound Rule Wizard

Action

Specify the action to be taken when a connection matches the conditions specified in the rule.

Steps:

- Rule Type
- Protocol and Ports
- Action**
- Profile
- Name

What action should be taken when a connection matches the specified conditions?

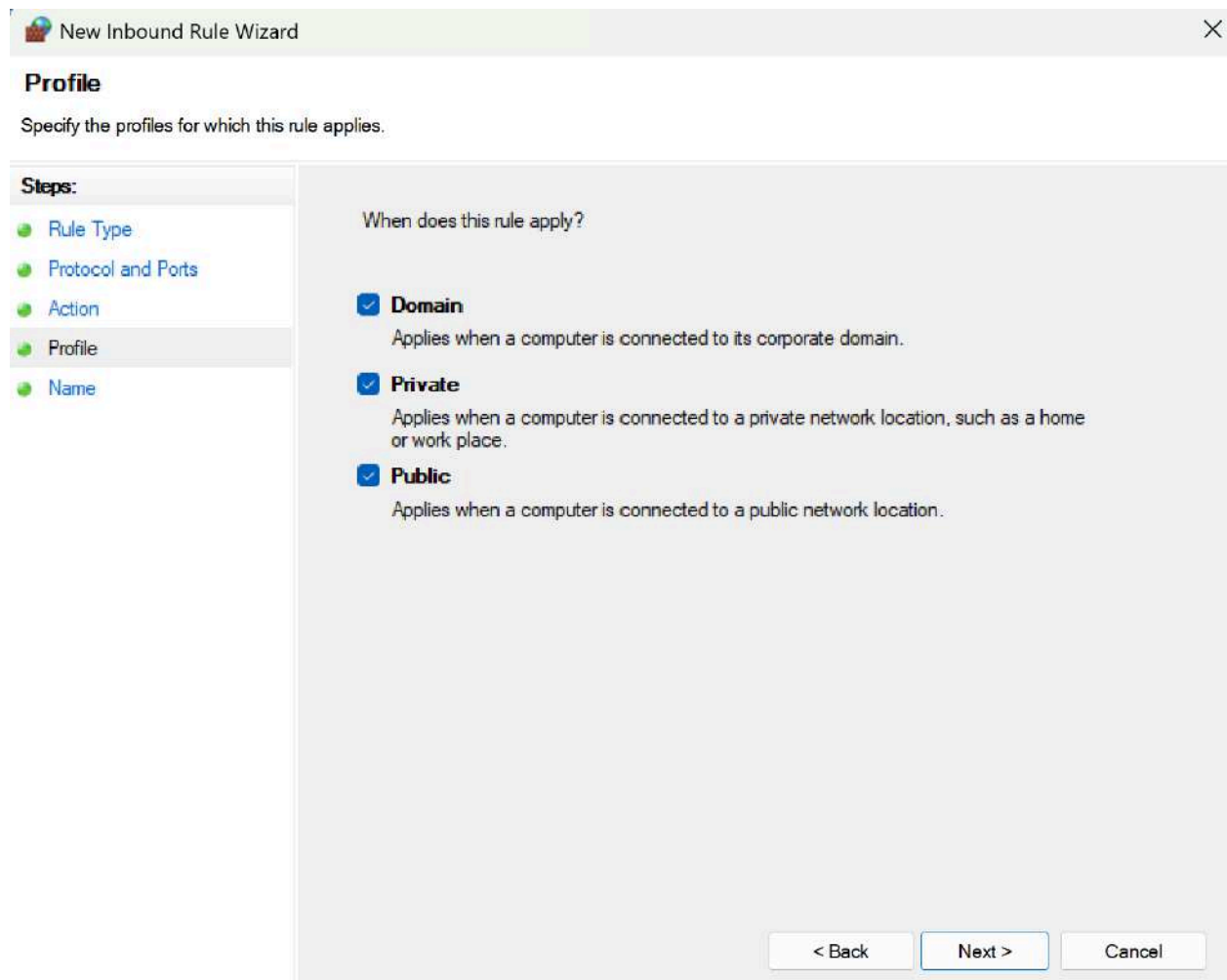
☒ **Allow the connection**
This includes connections that are protected with IPsec as well as those are not.

☐ **Allow the connection if it is secure**
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.
[Customize...](#)

☐ **Block the connection**

< Back Next > Cancel

Select the appropriate checkboxes based on your network



The image shows a screenshot of the 'New Inbound Rule Wizard' window, specifically the 'Profile' step. The window has a title bar with a close button. Below the title bar, the word 'Profile' is displayed in bold. A subtitle reads 'Specify the profiles for which this rule applies.' On the left side, there is a 'Steps:' panel with a list of steps: 'Rule Type', 'Protocol and Ports', 'Action', 'Profile' (which is highlighted), and 'Name'. The main area of the wizard is titled 'When does this rule apply?' and contains three checked options: 'Domain', 'Private', and 'Public'. Each option has a brief description of when the rule applies. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

New Inbound Rule Wizard

Profile

Specify the profiles for which this rule applies.

Steps:

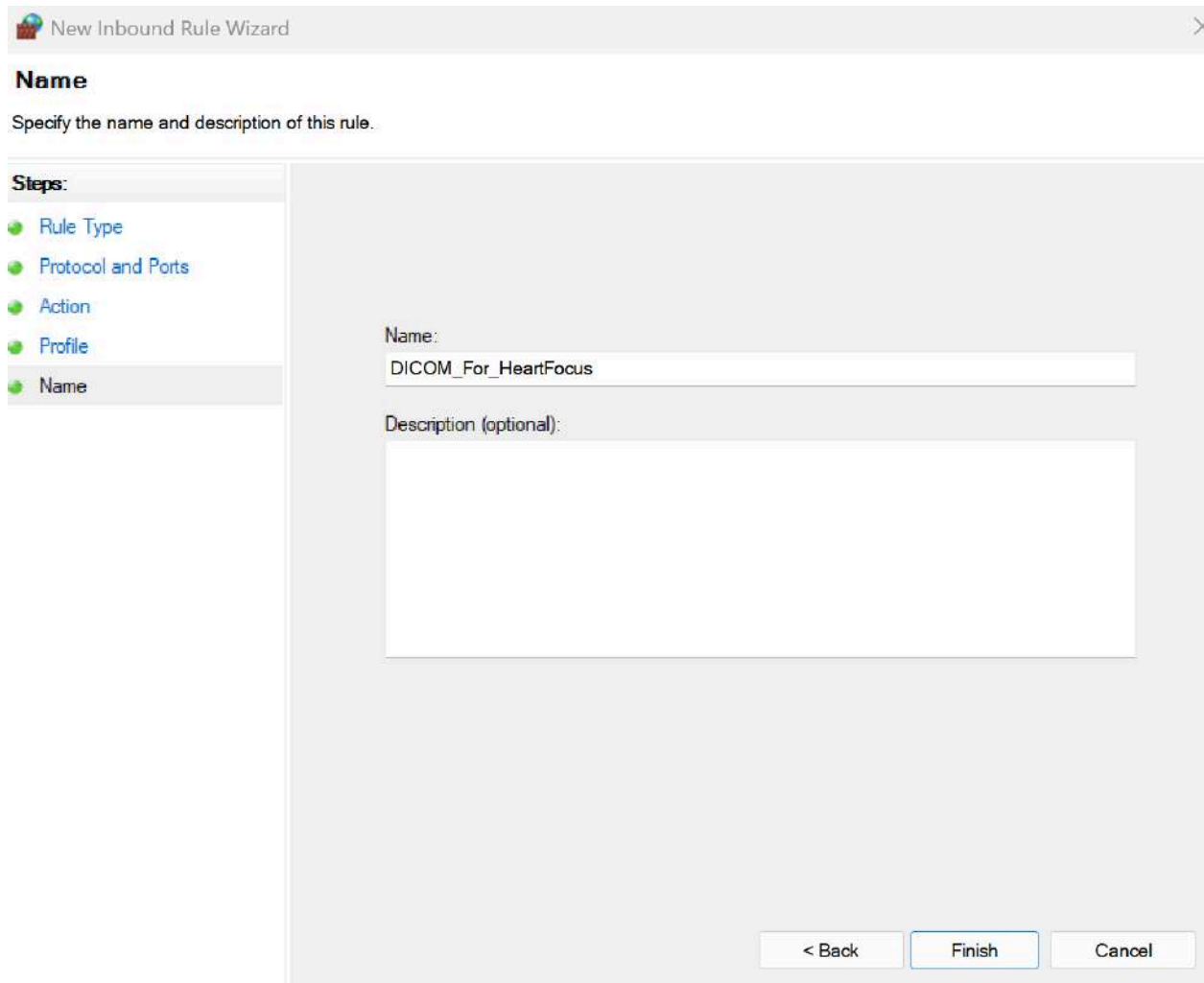
- Rule Type
- Protocol and Ports
- Action
- Profile**
- Name

When does this rule apply?

- ☒ **Domain**
Applies when a computer is connected to its corporate domain.
- ☒ **Private**
Applies when a computer is connected to a private network location, such as a home or work place.
- ☒ **Public**
Applies when a computer is connected to a public network location.

< Back Next > Cancel

Name the rule



The image shows a 'New Inbound Rule Wizard' dialog box. The title bar reads 'New Inbound Rule Wizard'. Below the title bar, the section is titled 'Name'. A subtitle says 'Specify the name and description of this rule.' On the left, a 'Steps:' pane lists five steps: 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name'. The 'Name' step is currently selected and highlighted. The main area of the wizard contains two input fields. The first is labeled 'Name:' and contains the text 'DICOM_For_HeartFocus'. The second is labeled 'Description (optional):' and is an empty text area. At the bottom right, there are three buttons: '< Back', 'Finish', and 'Cancel'.

New Inbound Rule Wizard

Name

Specify the name and description of this rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name**

Name:
DICOM_For_HeartFocus

Description (optional):

< Back Finish Cancel

Click Finish.

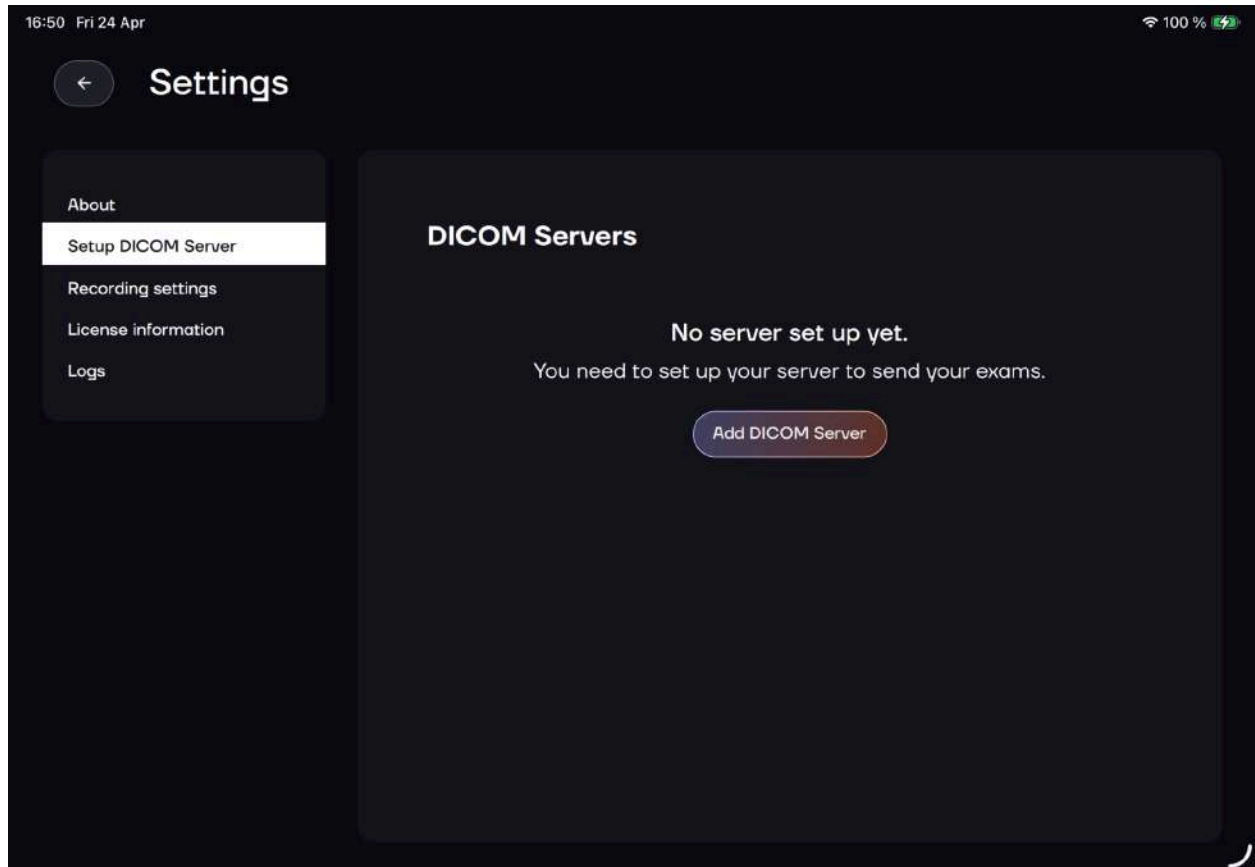
4) Configure HeartFocus with a DICOM Server Configuration

Here is a walkthrough on how to configure HeartFocus and send an exam to a Butterfly Link DICOM configuration.

Create a DICOM Server Configuration

Go into *Settings>Setup DICOM Server*

Click on *Add DICOM Server*



Input The Server Details

Server application entity title is always set to BFLY_SCP.

Client application entity title takes any value (Test is good).

Input your Butterfly Link IP or domain name

Input the port configured at the Archive level (48065)

Uncheck “Enable TLS”

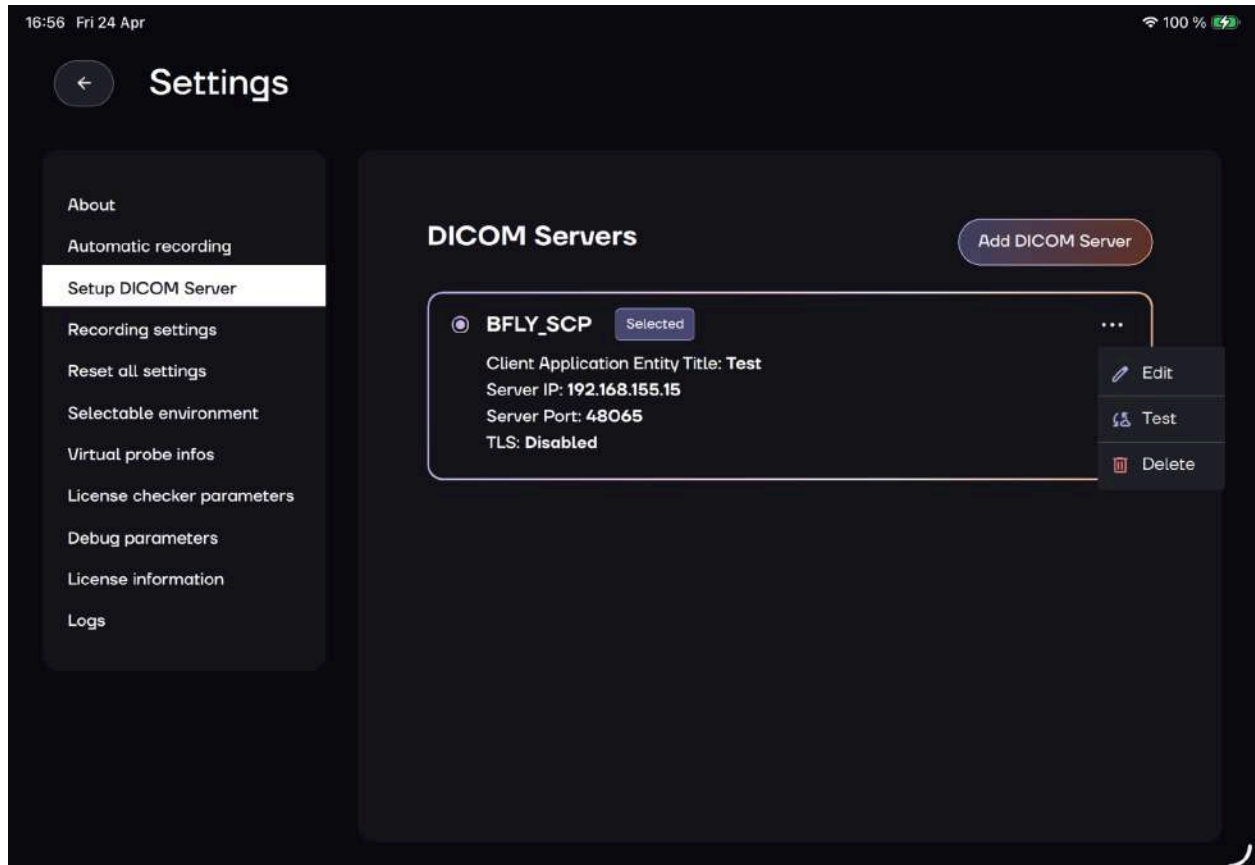
Click save

The screenshot shows a mobile application interface with a dark theme. At the top, the status bar displays '16:54 Fri 24 Apr' and '100 %' battery. The app's 'Settings' menu is on the left, with 'Setup DICOM Server' highlighted. The main screen is titled 'Edit DICOM Server'. It contains four text input fields: 'Server application entity title*' (pre-filled with 'BFLY_SCP'), 'Client application entity title*' (pre-filled with 'Test'), 'Server address*' (pre-filled with '192.168.155.15'), and 'Server port*' (pre-filled with '48065'). Below these fields is a toggle switch for 'Enable TLS', which is currently turned off. At the bottom of the modal are 'Cancel' and 'Save' buttons. In the background, an 'Add DICOM Server' button and a list of servers (one with '...') are visible.

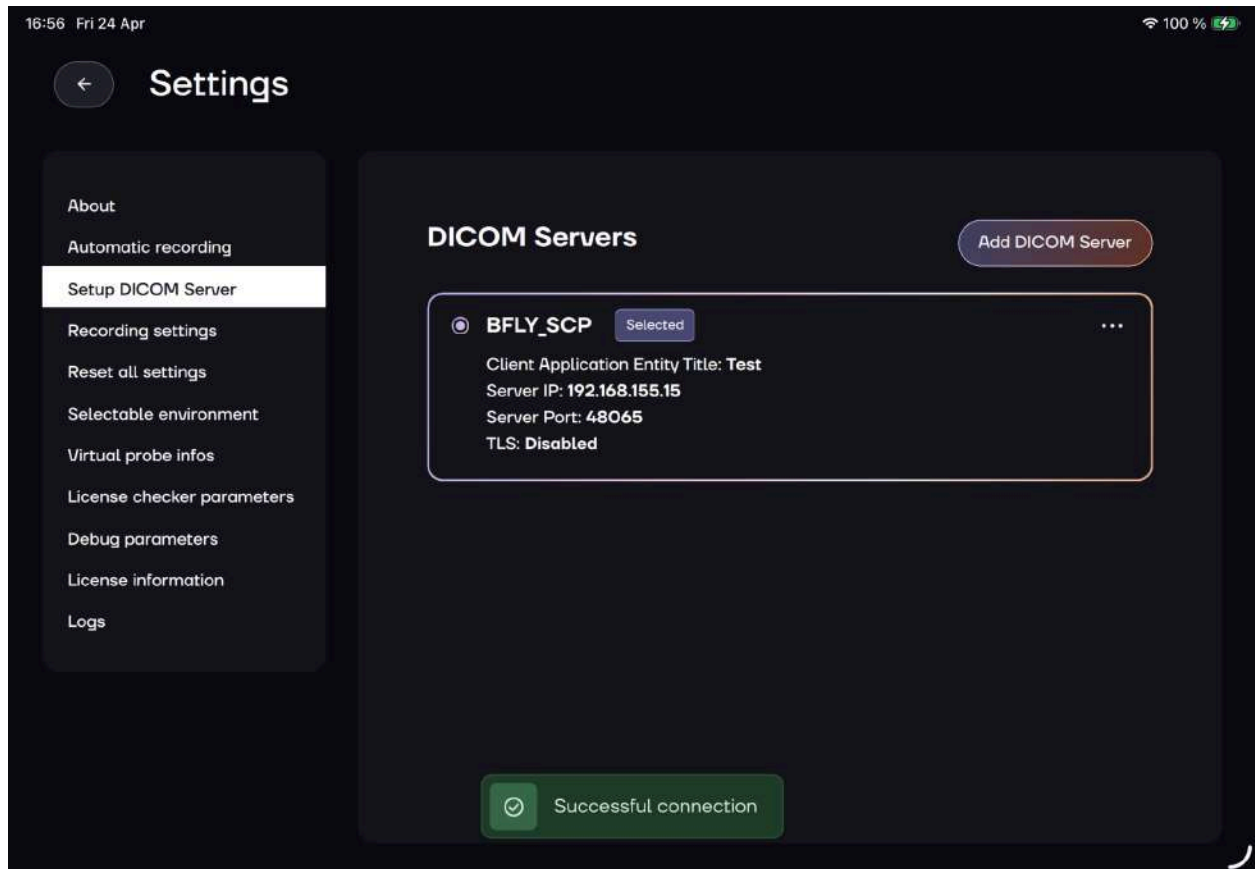
Test The Server Connection

After saving the new DICOM server configuration, it should be listed in the DICOM Servers page.

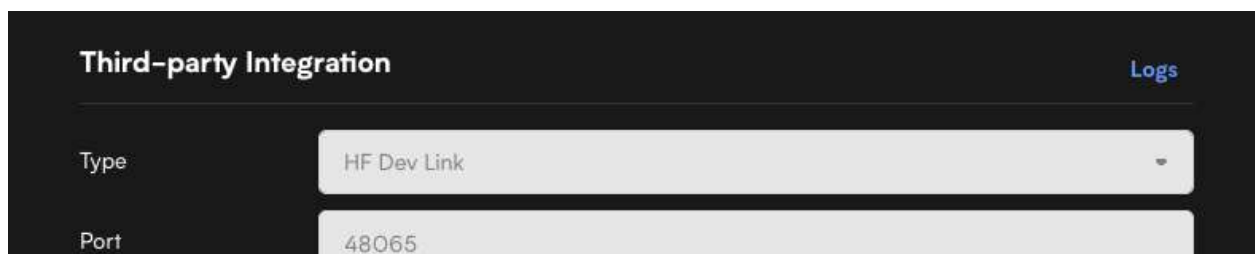
To test the connection, click on the 3 dots and select Test.

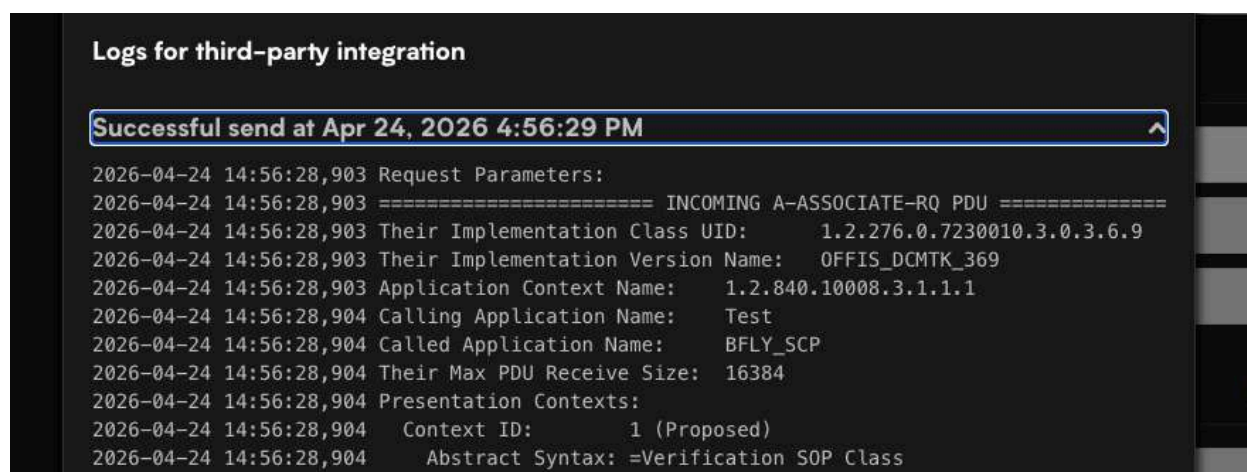


A green notification should appear if the connection with the DICOM server is ok. Red otherwise.

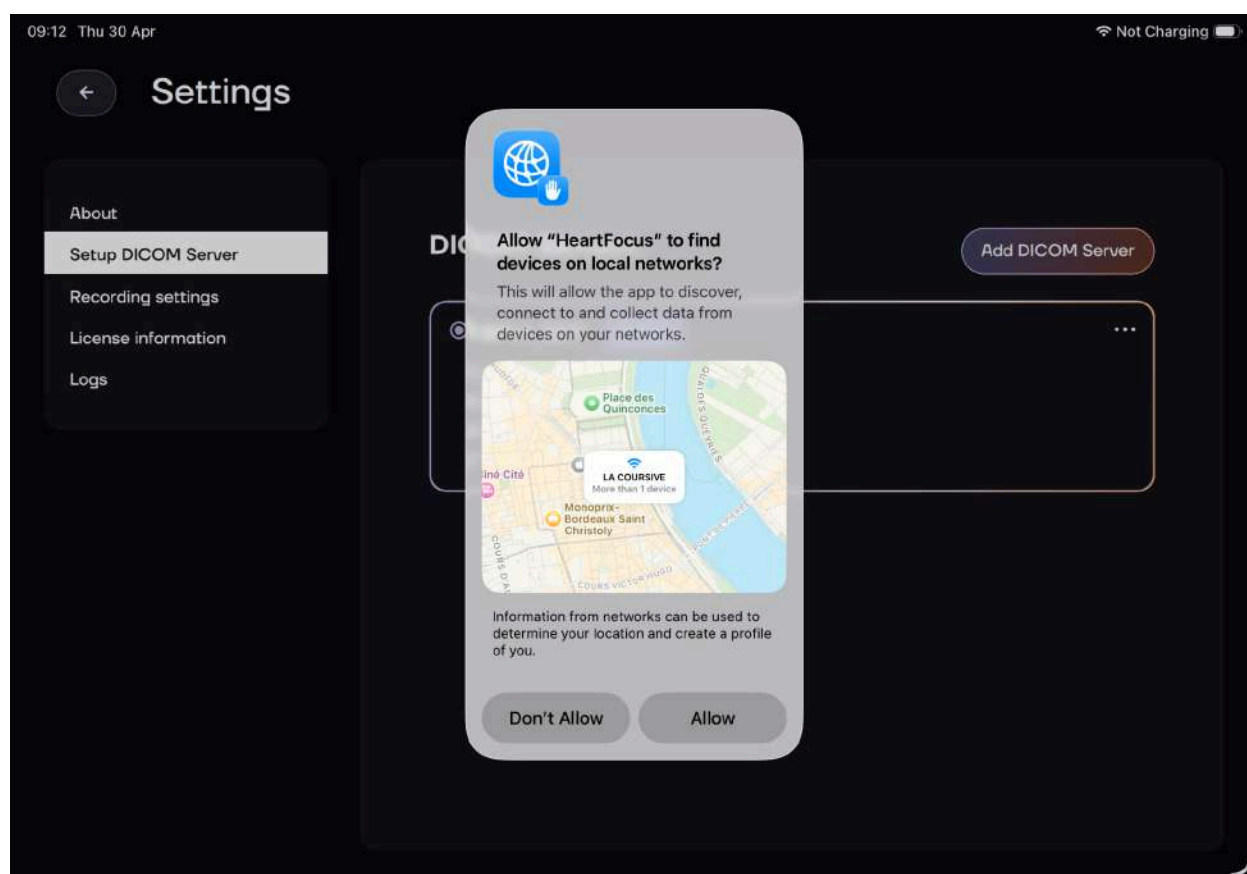


In case of a red connection, Butterfly Cloud provides logs at the Third-party Integration level of the Archive settings. It may provide hints about the issue if the iPad has been able to contact Butterfly Link.

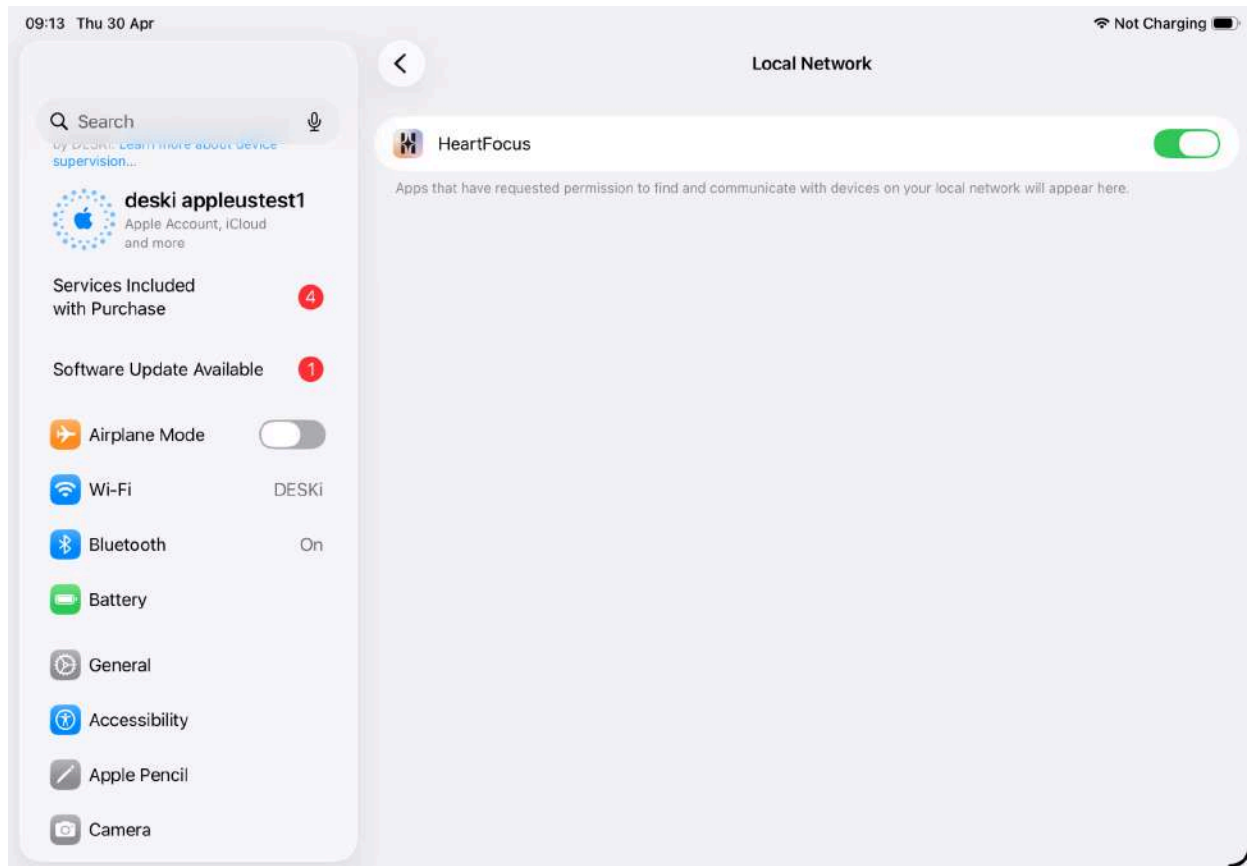




On iOS 26, you may be prompted to authorize the test if the DICOM server address is on the local network, click allow.

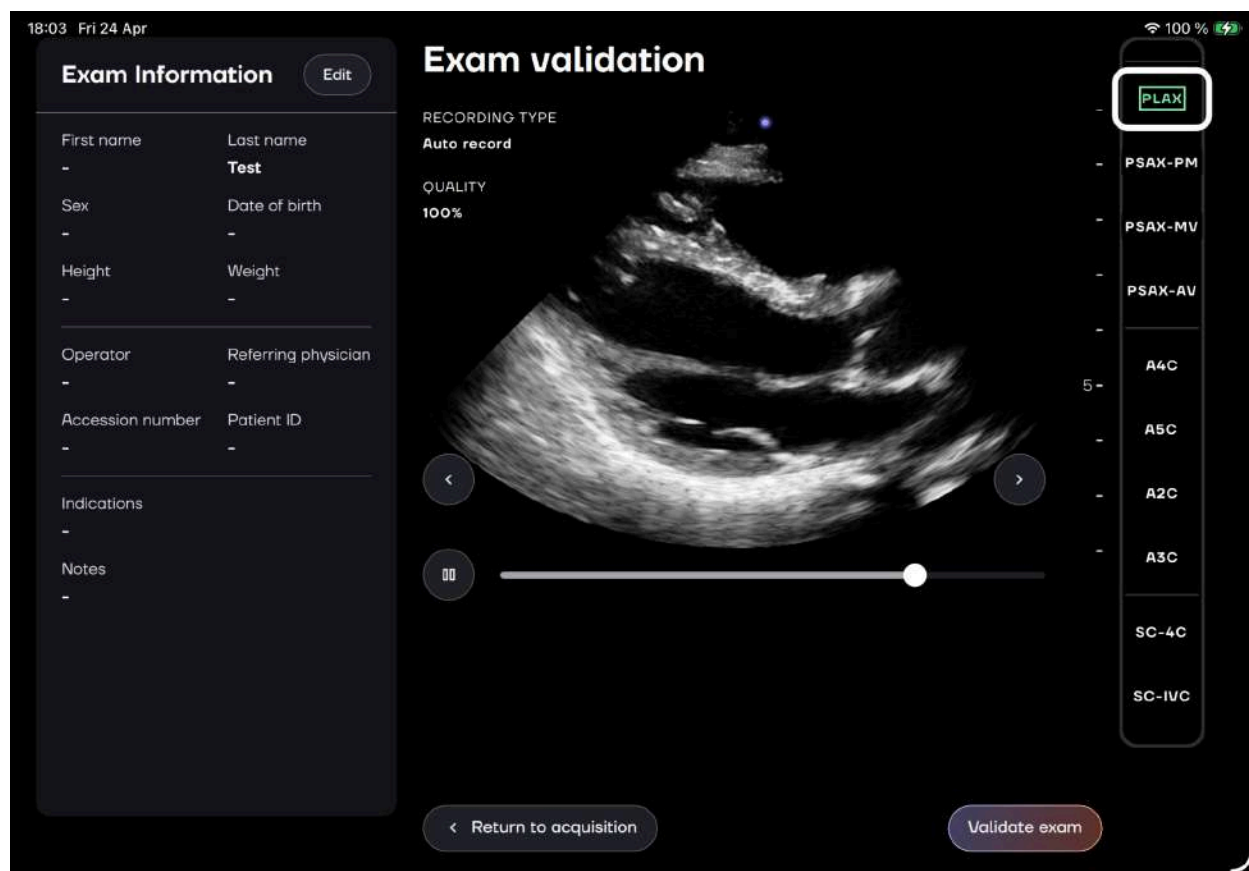


If you've click "Don't Allow", go into iOS Settings, and authorize the Local Network permission for HeartFocus because the Allow popup won't appear again.

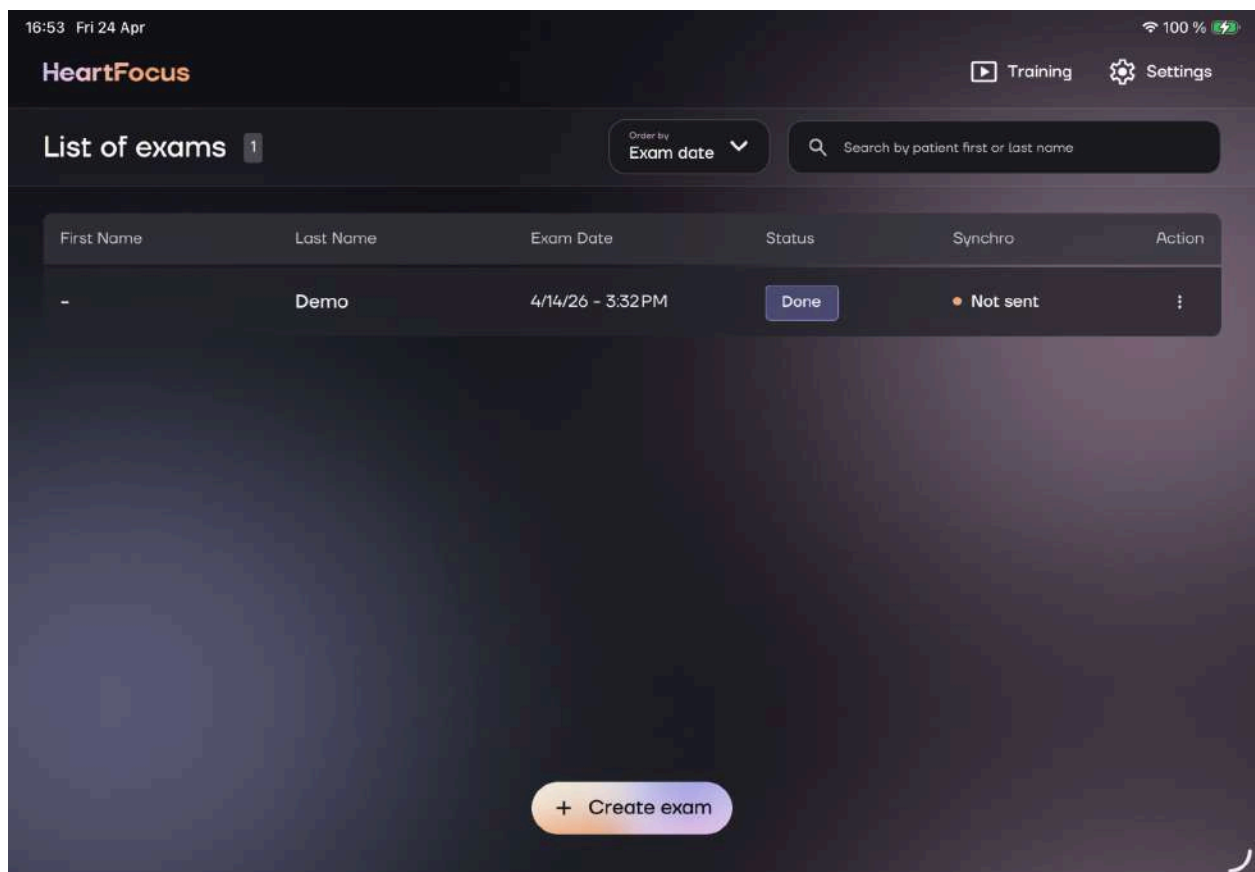


5) Send an Exam to the DICOM Server

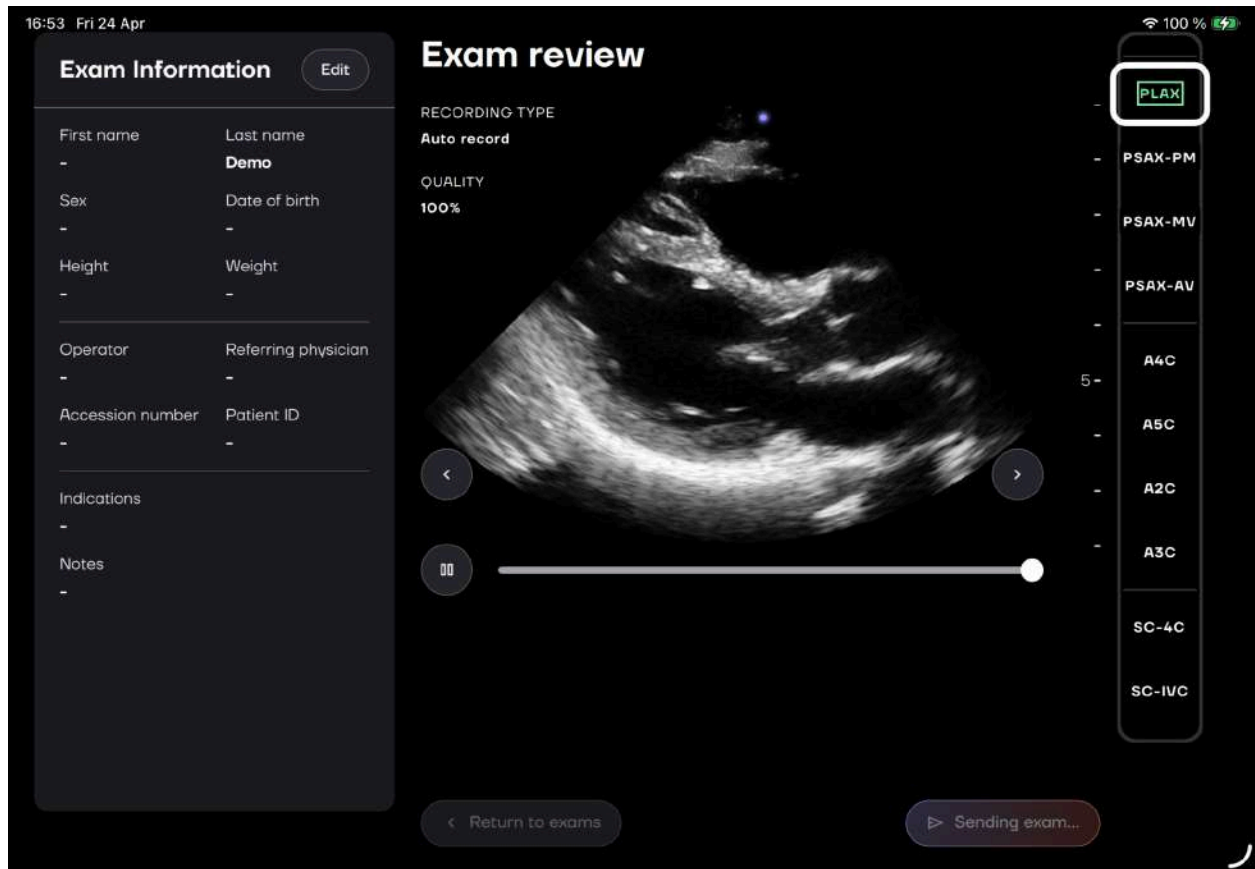
To send an Exam to a DICOM server, an exam has to be validated first with at least one clip being recorded (automatically or manually).



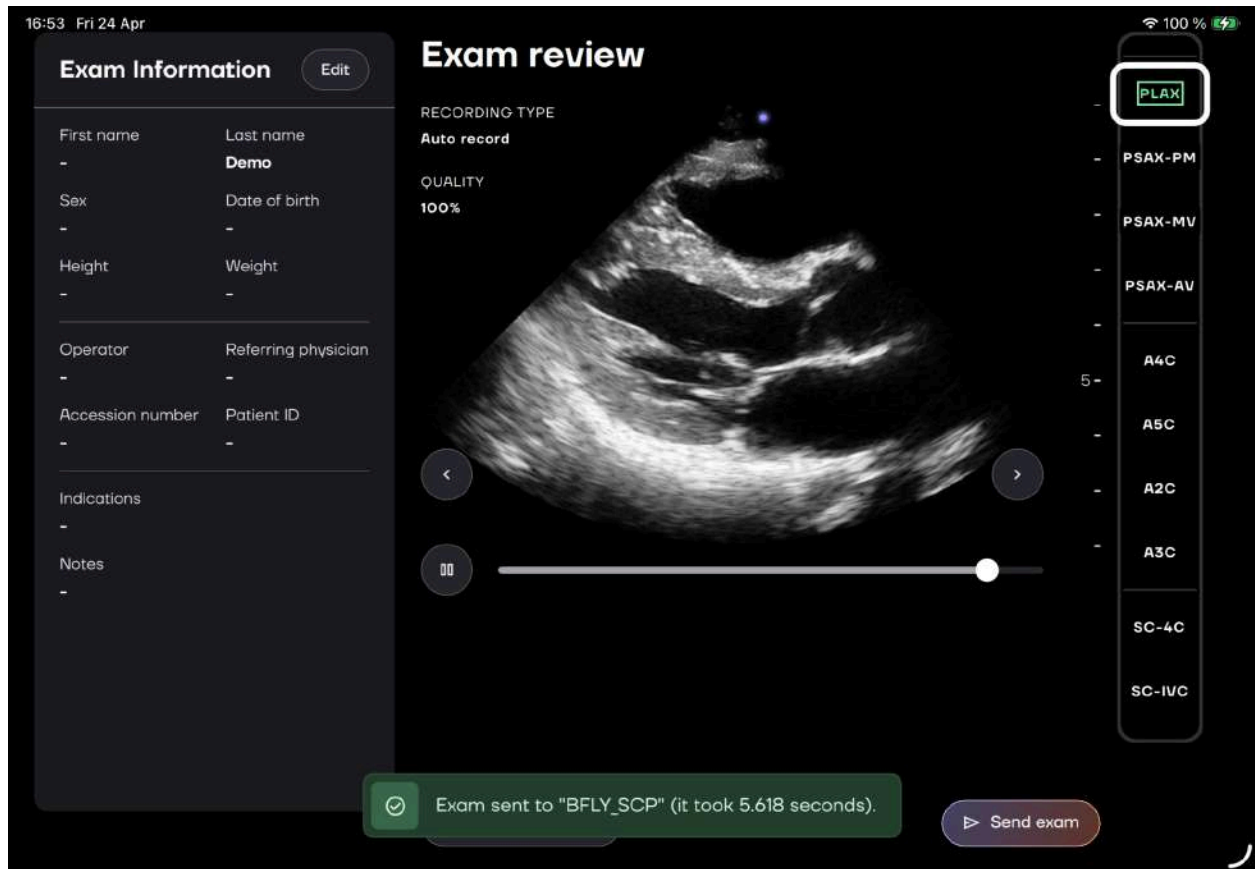
When the exam is validated, it is listed as Done in the Exam List:



Click on the Exam done to access the Exam review page:

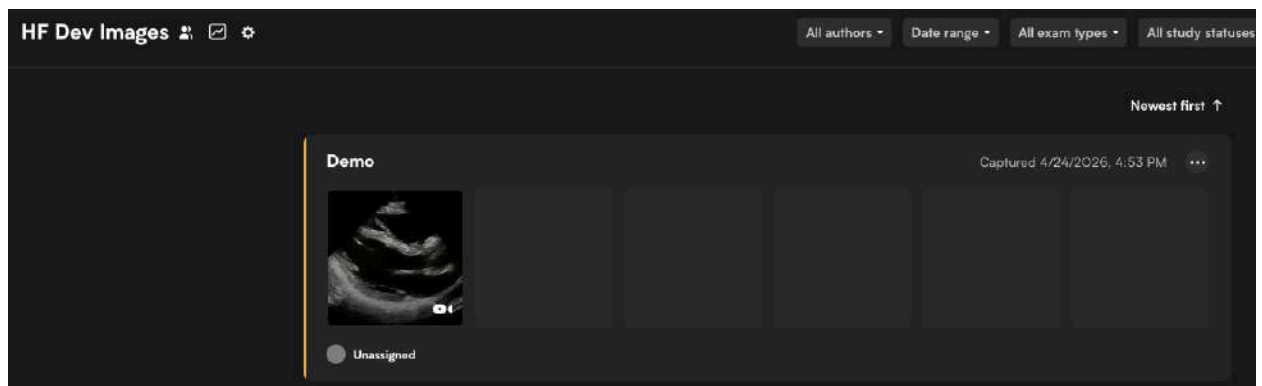


Click on *Send exam* button to transmit the exam to the DICOM server

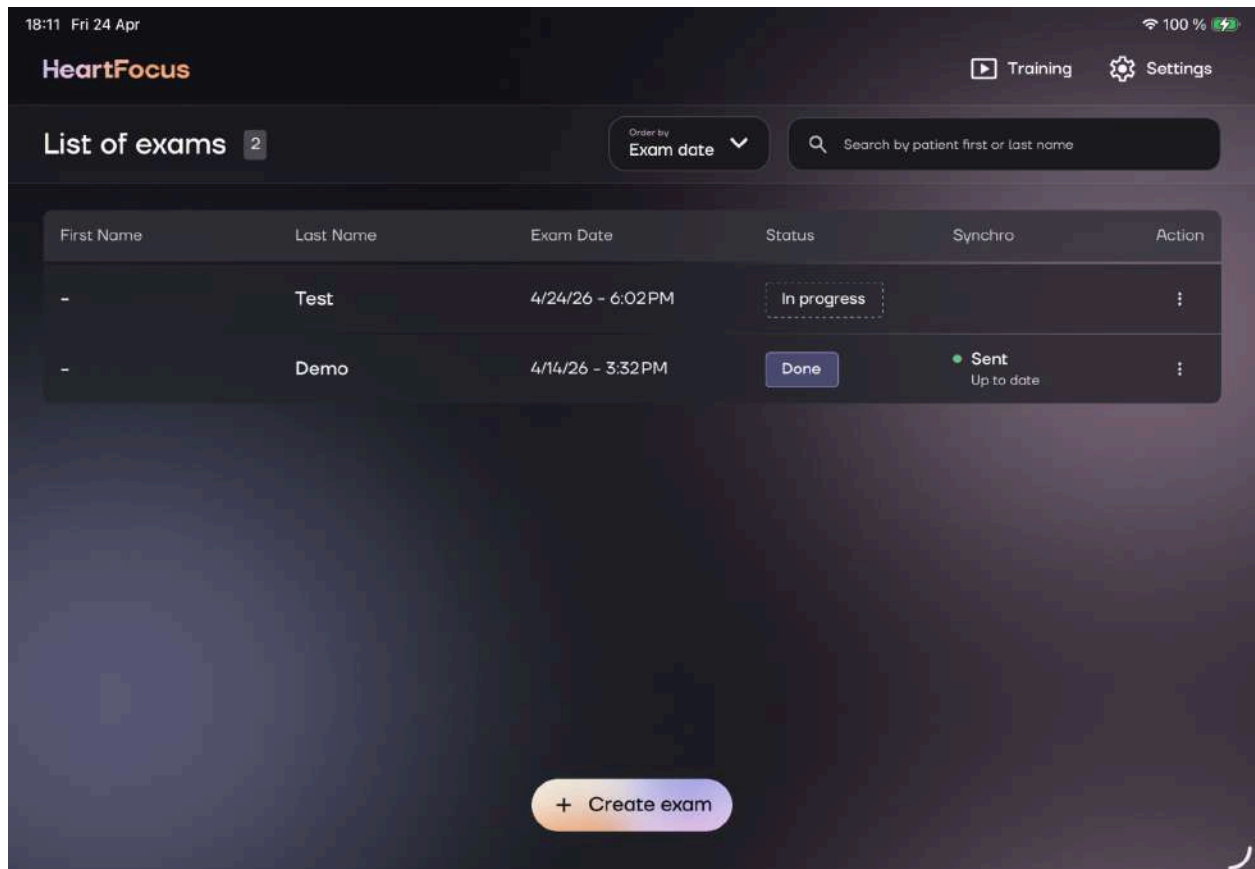


A green notification is displayed when the transfer is complete.

The exam should appear in the Butterfly Cloud Archive:



And the exam is listed as being sent in the Exam List



When an exam is sent, consider deleting it:

