

# CONNECTING A SCALE TO A CUBISCAN 75-C

Below is a summary of the different ways a scale can be used with a Cubiscan 75-C. Each of these methods is described later in this document.

## Fairbanks Ultegra Scale

- Connect scale (USB) to Qbit-Xfer (also applies to Qbit-EDT)
  - *Using weight trigger*
  - *Using object detection trigger*
- Scale (USB) > Qbit-Link > Qbit-Xfer (also applies to EDT)
  - *Using weight trigger*
  - *Using object detection trigger*
- Connect the scale (USB) directly to your chosen software, such as UPS WorldShip, while using a Cubiscan connected to Qbit-Xfer
- Scale (USB) > Qbit-Link > Qbit-DB
  - *Using weight trigger*
  - *Using object detection trigger*

## Serial or Ethernet scale

- Connect scale to Qbit-Xfer (also applies to Qbit-EDT)
  - *Using weight trigger*
- Scale > Qbit-Link > Qbit-Xfer (also applies to Qbit-EDT)
  - *Using weight trigger*
- Connect the scale directly to your chosen software, such as UPS WorldShip, while using a Cubiscan connected to Qbit-Xfer
- Scale > Qbit-Link > Qbit-DB
  - *Using weight trigger*

## Troubleshooting

# Fairbanks Ultegra Scale

The Fairbanks Ultegra scale is the only scale that can be connected to a CS 75-C via USB. Any other scale must be connected via Ethernet or serial.

Make sure you calibrate the Cubiscan 75-C with the scale in place for accurate measurements.

## Connect scale (USB) to Qbit-Xfer (also applies to Qbit-EDT)

### *Using weight trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and disable the **Object detection trigger** option.
4. Open Qbit-Xfer. Go to **Tools > Options > Cubiscan**.
5. Select the **Cubiscan 75** as your Cubiscan model.
6. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
7. In Qbit-Xfer, enter the port number of **1050**.
8. Go to the **Weight Trigger > Mode** tab. Select the **Fairbanks Ultegra USB scale trigger** as your scale trigger option.
9. Close the Options window. Your scale should now be connected. If an object is on the scale a measurement will be triggered.

### *Using object detection trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and enable the **Object detection trigger** option.
4. Open Qbit-Xfer. Go to **Tools > Options > Cubiscan**.
5. Select the Cubiscan 75 as your Cubiscan model.
6. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
7. In Qbit-Xfer, enter the port number of **1050**.
8. Go to the **Data transfer > Mode** tab. Under External scale, select the **Fairbanks Ultegra USB scale** option.
9. Close the Options window. Your scale should now be connected.

## Scale (USB) > Qbit-Link > Qbit-Xfer (also applies to EDT)

### *Using weight trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and disable the Object detection trigger option.
4. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
5. Go to **Tools > Options > Cubiscan**.
6. Select the **Cubiscan 75** as your Cubiscan model.
7. Select the Network port as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
8. In Qbit-Link, enter the port number of **1050**.
9. Go to the Client connections tab and enable the Client 1 box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list.
10. Go to the **Weight Trigger > Mode** tab. Select the Fairbanks Ultegra USB scale trigger as your scale trigger option. You can now exit the Options window. A measurement will be triggered if there is an object on the scale.
11. Now open Qbit-Xfer. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the **Network port** as your communication method. Enter the IP address of **127.0.0.1** (or the IP of the computer where Qbit-Xfer is running) and the port number of **1054**.
12. Close the Options window. Your scale should now be connected.

### *Using object detection trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and enable the **Object detection trigger** option.
4. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
5. Go to **Tools > Options > Cubiscan**.
6. Select the **Cubiscan 75** as your Cubiscan model.
7. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
8. In Qbit-Link, enter the port number of **1050**.

9. Go to the Client connections tab and enable the **Client 1** box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list. Under External scale, select the **Fairbanks Ultegra USB scale** option.
10. You can now exit the Options window.
11. Now open Qbit-Xfer. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the Network port as your communication method. Enter the IP address of **127.0.0.1** (or the IP of the computer where Qbit-Xfer is running) and the port number of **1054**.
12. Close the Options window. Your scale should now be connected.

## Connect the scale directly to your chosen software, such as UPS WorldShip, while using a Cubiscan connected to Qbit-Xfer

1. In Qbit-Xfer, under **Tools > Options > Data transfer > Mode**, enable the **Weight captured from host application scale** option.
2. Contact your chosen software support directly if you need help connecting your scale to their software.

## Scale (USB) > Qbit-Link > Qbit-DB

### *Using weight trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and disable the **Object detection trigger** option.
4. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
5. Go to **Tools > Options > Cubiscan**.
6. Select the **Cubiscan 75** as your Cubiscan model.
7. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
8. In Qbit-Link, enter the port number of **1050**.
9. Go to the Client connections tab and enable the **Client 1** box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list.
10. Go to the **Weight Trigger > Mode** tab. Select the **Fairbanks Ultegra USB scale trigger** as your scale trigger option. You can now exit the Options window.
11. Now open Qbit-DB. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the Network port as your communication method. Enter the IP address of **127.0.0.1** and the port number of **1054**.

12. Close the Options window. Your scale should now be connected. Remember to add an item number and then tab or enter before measurements are accepted.

### *Using object detection trigger*

1. Plug the Fairbanks scale USB cable into a port on your computer.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and enable the **Object detection trigger** option.
4. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
5. Go to **Tools > Options > Cubiscan**.
6. Select the **Cubiscan 75** as your Cubiscan model.
7. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
8. In Qbit-Link, enter the port number of **1050**.
9. Go to the Client connections tab and enable the **Client 1** box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list. Under External scale, select the **Fairbanks Ultegra USB scale** option.
10. You can now exit the Options window.
11. Now open Qbit-DB. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the **Network port** as your communication method. Enter the IP address of **127.0.0.1** and the port number of **1054**.
12. Close the Options window. Your scale should now be connected. Remember to add an item number and then tab or enter before measurements are accepted.

## Serial or Ethernet scale

Make sure you calibrate the Cubiscan 75-C with the scale in place for accurate measurements

### Connect scale to Qbit-Xfer (also applies to Qbit-EDT)

#### *Using weight trigger*

1. If you are using a serial connection
  - a. Plug the serial cable into a port on your computer. You may need a serial to USB adapter to plug the cable into your computer if you don't have an available serial port. You may also need to use a null modem adapter to connect to the scale. Check the troubleshooting section for more information.

If you are using an Ethernet connection

- b. Plug the Ethernet cable into a port on your computer. You may need an Ethernet to USB adapter if you don't have an available Ethernet port.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. On the Cubiscan screen, go to **Configure > Operation** and disable the **Object detection trigger** option.
4. Open Qbit-Xfer. Go to **Tools > Options > Cubiscan**.
5. Select the **Cubiscan 75** as your Cubiscan model.
6. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
7. In Qbit-Xfer, enter the port number of **1050**.
8. Go to the **Weight Trigger > 3<sup>rd</sup> Party Scale** tab.
  - If you are using an Ethernet connection
    - a. Select the **Network port** option. Enter the IP address and port number of the scale into the appropriate fields.

If you are using a serial connection

- b. Select the **RS232 Serial port** option. You will need to find out what port your scale is connected to. Open your computer's Device Manager and click on Ports. Find out which port the scale is using and then enter the port number into the PC Port # field.
9. Enter the Baud rate, Parity, Word Length, Stop bits, Start String, End string or Packet size, Weight start position, and any other information you want to customize on this screen. Information such as Baud rate can typically be found in the scale's manual. Contact the scale manufacturer if necessary to find out this information.
10. The Request mode is the recommended mode.
11. Close the Options window. Your scale should now be connected.

## Scale > Qbit-Link > Qbit-Xfer (also applies to Qbit-EDT)

### *Using weight trigger*

1. If you are using a serial connection
  - a. Plug the serial cable into a port on your computer. You may need a serial to USB adapter to plug the cable into your computer if you don't have an available serial port. You may also need to use a null modem adapter to connect to the scale. Check the troubleshooting section for more information.

If you are using an Ethernet connection

  - b. Plug the Ethernet cable into a port on your computer. You may need an Ethernet to USB adapter if you don't have an available Ethernet port.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).

3. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
4. Go to **Tools > Options > Cubiscan**.
5. Select the **Cubiscan 75** as your Cubiscan model.
6. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
7. In Qbit-Link, enter the port number of **1050**.
8. On the Cubiscan screen, go to **Configure > Operation** and disable the **Object detection trigger** option.
9. Go to the **Weight Trigger > Mode** tab. Select the **3<sup>rd</sup> Party Scale Trigger** option.
10. Go to the **Weight Trigger > 3<sup>rd</sup> Party Scale** tab.
  - If you are using an Ethernet connection
    - a. Select the **Network port** option. Enter the IP address and port number of the scale into the appropriate fields.
  - If you are using a serial connection
    - b. Select the **RS232 Serial port** option. You will need to find out what port your scale is connected to. Open your computer's Device Manager and click on Ports. Find out which port the scale is using and then enter the port number into the PC Port # field.
11. Enter the Baud rate, Parity, Word Length, Stop bits, Start String, End string, Packet size, Weight start position, and any other information you want to customize on this screen. Information such as Baud rate can typically be found in the scale's manual.
12. Go to the Client connections tab and enable the **Client 1** box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list.
13. Close the Options window. Your scale should now be connected to Qbit-Link.
14. Now open Qbit-Xfer. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the Network port as your communication method. Enter the IP address of **127.0.0.1** and the port number of **1054**.
15. Close the Options window. Your scale should now be connected.
16. In Qbit-Xfer, under **Tools > Options > Data transfer > Mode**, enable the **Weight captured from host application scale** option.
17. Contact your chosen software support directly if you need help connecting your scale to their software.

## Scale > Qbit-Link > Qbit-DB

### *Using weight trigger*

1. If you are using a serial connection
  - a. Plug the serial cable into a port on your computer. You may need a serial to USB adapter to plug the cable into your computer if you don't have an available serial

port. You may also need to use a null modem adapter to connect to the scale. Check the troubleshooting section for more information.

If you are using an Ethernet connection

- b. Plug the Ethernet cable into a port on your computer. You may need an Ethernet to USB adapter if you don't have an available Ethernet port.
2. Plug the CS 75-C Ethernet cable into a port on your computer, use an Ethernet to USB adapter if needed (see the Cubiscan 75-C Ethernet Setup Quick Reference Guide).
3. Open Qbit-Link. Link runs minimized in the background, so you will need to then open it from your taskbar.
4. Go to **Tools > Options > Cubiscan**.
5. Select the **Cubiscan 75** as your Cubiscan model.
6. Select the **Network port** as your communication method and enter the IP address of the Cubiscan, which is typically **10.1.100.100**. The IP address of the Cubiscan can be found on the **Configure > Ethernet** tab of the Cubiscan. Make sure the Ethernet status box is enabled on this screen.
7. In Qbit-Link, enter the port number of **1050**.
8. On the Cubiscan screen, go to **Configure > Operation** and disable the **Object detection trigger** option.
9. Go to the **Weight Trigger > Mode** tab. Select the **3<sup>rd</sup> Party Scale Trigger** option.
10. Go to the **Weight Trigger > 3<sup>rd</sup> Party Scale** tab.

If you are using an Ethernet connection

- a. Select the **Network port** option. Enter the IP address and port number of the scale into the appropriate fields.

If you are using a serial connection

- b. Select the **RS232 Serial port** option. You will need to find out what port your scale is connected to. Open your computer's Device Manager and click on Ports. Find out which port the scale is using and then enter the port number into the PC Port # field.
11. Enter the Baud rate, Parity, Word Length, Stop bits, Start String, End string, Packet size, Weight start position, and any other information you want to customize on this screen. Information such as Baud rate can typically be found in the scale's manual.
12. Go to the Client connections tab and enable the **Client 1** box. Enter the port number of **1054** into the IP port field. Under the Default client option, select **Client 1** from the drop-down list.
13. Close the Options window. Your scale should now be connected to Qbit-Link.
14. Now open Qbit-DB. Go to **Tools > Options > Cubiscan**. Select the **Cubiscan 75** as your Cubiscan model. Select the Network port as your communication method. Enter the IP address of **127.0.0.1** and the port number of **1054**.
15. Close the Options window. Your scale should now be connected.

# Troubleshooting

- If you are using a serial connection, you may need to use a null modem adapter. Check the scale manual for information on the serial cable type that you should use.
- If the system freezes or stops detecting objects, click on the **Manual Measure** button in Qbit-Xfer.
- If you have recently changed settings in Qbit-Xfer and the application is not functioning properly, try restarting the application.
- Make sure you calibrate the Cubiscan 75-C with the scale in place for accurate measurements.
- Make sure the End String and the Packet Size fields don't both have entries. One of the fields must be blank.
- You cannot select the Fairbanks scale option under Tools > Options > Data Transfer > Mode if you have selected any option other than **None** under Weight Trigger > Mode > Scale Trigger Options.