

# Sending Results to an LIS using BD FACSLink™ and BD FACSDuet™ Software

## Quick Reference Guide

This quick reference guide (QRG) contains instructions for sending results to a laboratory information system (LIS) using BD FACSLink™ software with the BD FACSDuet sample preparation system. BD FACSLink software provides an interface to an LIS. It is pre-installed and configured for you either on your server or on a small component that is connected by an Ethernet cable to both the BD FACSDuet™ computer and the computer on which BD FACSuite™ Clinical software is installed.

## Workflow Overview

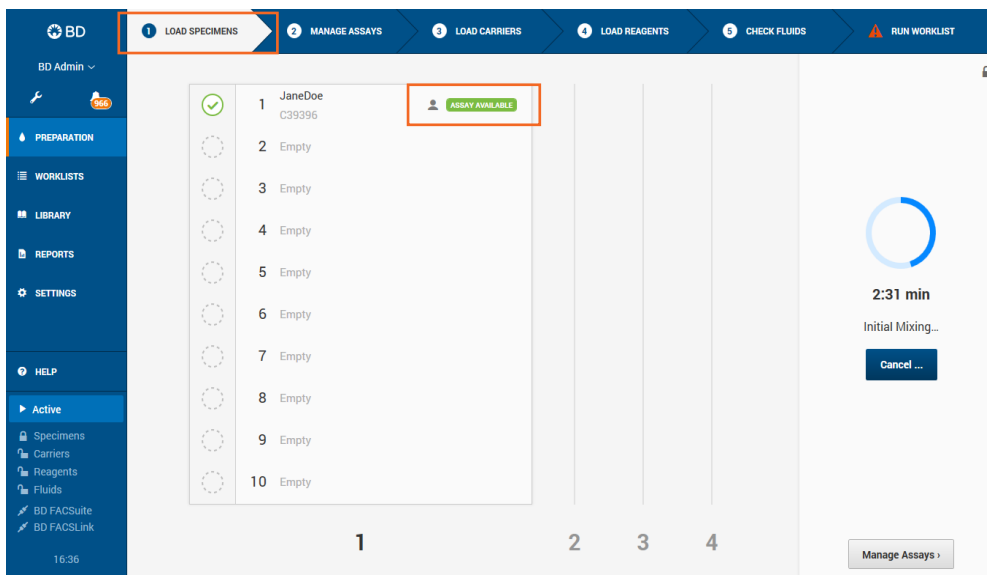


## Generate a worklist in BD FACSDuet software

Before you create the worklist, verify that you have a connection between BD FACSLink software, BD FACSuite Clinical software, and BD FACSDuet software. See page 3 of this QRG if you need more information.

System Status			
Cytometer	Universal Loader	Workstation	BD FACSLink
BD FACSLytic (SN:12345)	Installed	1381KC2	Connected
✓ Connected			✓ Connected

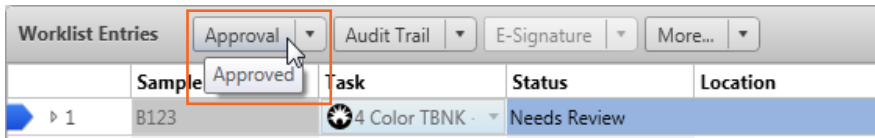
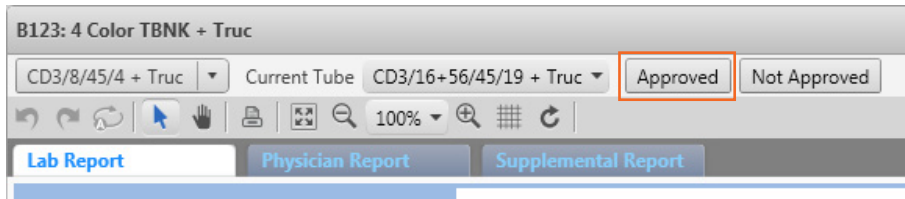
- 1 In the left navigation bar of BD FACSDuet software, tap **Preparation** and ensure that you are on the LOAD SPECIMENS tab.



- 2 Load a specimen rack and tap **LOAD SPECIMENS**.  
**Note:** If your specimens already have an LIS test order, the assay will auto-populate with the specimen name. To manually add an assay, tap **MANAGE ASSAYS**. See the instructions for use (IFU) for more information.
- 3 Continue by following the sequential workflow to run the worklist. Refer to the IFU for more information.

## Send results to the LIS

- 1 After sample acquisition, analyze the entry in BD FACSuite Clinical software, and mark the entry **Approved** in either the **Entry Details** panel or the **Worklist Entries** panel. The results are automatically sent to the LIS upon approval of an entry.



- 2 Select **Tools > BD FACLink Test Results History** to view information about when the results for all worklists were transferred.

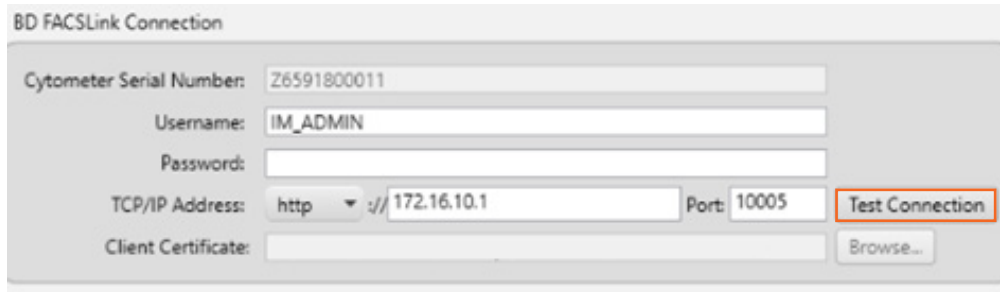
The screenshot shows the 'BD FACLink Test Results History' window. The window title is 'BD FACLink Test Results History'. Below the title is a table with columns: 'Status', 'Worklist Name', 'Sample ID', 'Task Name', 'Approved Time', and 'Delivered Time'. The table contains five rows of data. The first row is highlighted in blue and has the following data: 'Sent', 'Worklist\_001', 'B123', '3/16+56/45/19 + Truc', '10/21/2016 11:51:2:00', and '10/21/2016 11:51:23 AM'. The 'Approved Time' and 'Delivered Time' columns for the first row are highlighted with a red box. Below the table are three buttons: 'Refresh', 'Delete', and 'Close'.

Status	Worklist Name	Sample ID	Task Name	Approved Time	Delivered Time
Sent	Worklist_001	B123	3/16+56/45/19 + Truc	10/21/2016 11:51:2:00	10/21/2016 11:51:23 AM
Sent	Worklist_001	C123	3/16+56/45/19 + Truc	10/21/2016 11:51:2:00	10/21/2016 11:51:22 AM
Sent	Worklist_001	B123	4 Color TBNK + Truc	10/21/2016 11:51:1:00	10/21/2016 11:51:20 AM
Sent	Worklist_001	B123	4 Color TBNK + Truc	10/21/2016 11:46:3:00	10/21/2016 11:46:31 AM
Sent	Worklist_002	123	6 Color TBNK + Truc	09/13/2016 12:29:5:00	09/13/2016 12:29:54 PM

## Testing the connections

### Testing the connection to BD FACSLink software

- 1 Start BD FACSuite Clinical software.
- 2 Select **Tools > Preferences**, then select the **Worklist** tab.
- 3 Verify the following information, then click **Test Connection**.



BD FACSLink Connection

Cytometer Serial Number: Z6591800011

Username: IM\_ADMIN

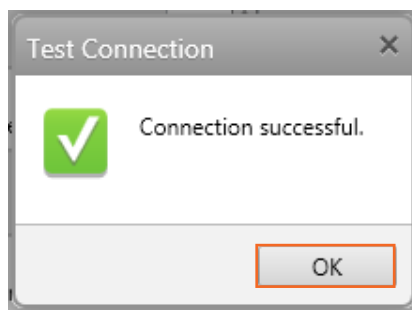
Password:

TCP/IP Address: http://172.16.10.1 Port: 10005 **Test Connection**

Client Certificate:  Browse...

**Note:** Only users with Administrator privileges can change connection settings.

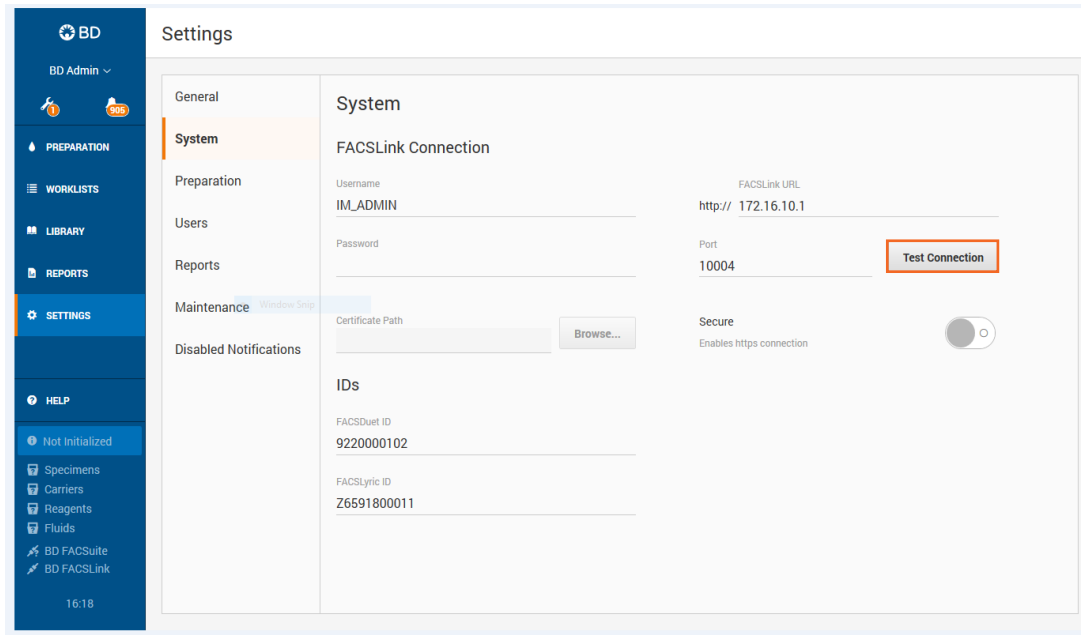
- 4 Click **OK**.
- Check the Troubleshooting table at the end of this QRG to resolve connection problems.



System Status			
Cytometer	Universal Loader	Workstation	BD FACSLink
BD FACSLyric (SN:12345)	Installed	1381KC2	Connected
✓ Connected			✓ Connected ←

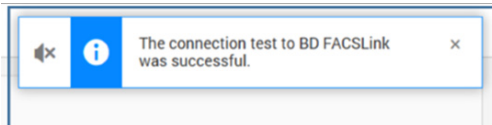
## Testing the connection to BD FACSDuet software

- 1 Start BD FACSDuet software.
- 2 Select **Settings > System**.
- 3 Verify the following information, then click **Test Connection**.



**Note:** Only users with Administrator privileges can change connection settings.

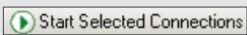
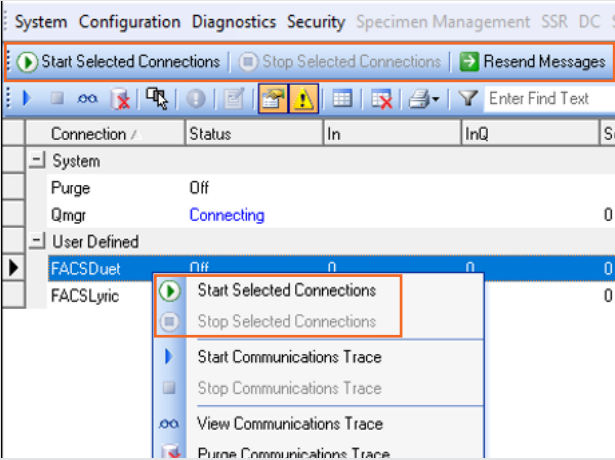
**Note:** Consult the Troubleshooting table for help with resolving connection problems.



## Troubleshooting Connection Issues

As a workaround until you resolve a connection issue with BD FACSLink software, you can export your worklists and import them into BD FACSuite Clinical software. See [Exporting Worklists in the BD FACSDuet IFU](#).

**Note:** Only users with Administrator privileges can change connection settings.

Observation	Possible causes	Recommended solutions
<p>Unable to send orders down or results up to the LIS</p>	<p>Connection error</p>	<ol style="list-style-type: none"> <li>1. Log into Data Innovations Instrument Manager™ as an Administrator.</li> <li>2. Select <b>System &gt; Status</b>.</li> <li>3. Check if the Status column shows Off for either FACSDuet, FACSLyric, or both.</li> </ol> <p>If the Status is:</p> <p><b>Off</b> → </p>  <p>If the <b>Status</b> shows <b>Connecting</b> and then turns off, read the error message and select either <b>Start Selected Connections</b>, <b>Stop Selected Connections</b>, or <b>Resend Messages</b>.</p>
<p>BD FACSLink software is not connected</p>	<p>If BD FACSLink software connects through an Ethernet cable, the cable might be disconnected.</p> <p>The BD FACSLink connection settings are invalid.</p>	<ul style="list-style-type: none"> <li>• Check the Ethernet cable connection on the back of the BD FACSDuet computer and on the BD FACSLink computer.</li> <li>• Check the Ethernet cable connection on the BD FACSLyric computer and on the BD FACSLink computer.</li> </ul> <p>After the BD FACSDuet system is installed, it should not be necessary to change the BD FACSLink connection settings. If you suspect that the connection settings need to be changed, contact BD Technical Support. In preparation, do the following steps:</p> <ol style="list-style-type: none"> <li>1. With Administrator privileges, tap <b>Settings &gt; System</b> and check the connection settings.</li> <li>2. Ensure that there are no obvious issues that you can easily correct, such as empty fields or wrong instrument IDs.</li> <li>3. Make a note of the settings so that you can provide this information to BD Technical Support.</li> </ol>

This material is for training purposes.

BD FACSuite Clinical Software and BD FACSDuet Software are CE marked For In Vitro Diagnostic Use.

BD FACSLink software is CE marked For In Vitro Diagnostic Use.

23-21441-00

Becton, Dickinson and Company, BD Biosciences, 2350 Qume Drive, San Jose, CA 95131 USA

[bdbiosciences.com](http://bdbiosciences.com)

BD, the BD Logo, FACSDuet, FACSLink, FACSLyric, and FACSuite are trademarks of Becton, Dickinson and Company or its affiliates. All other trademarks are the property of their respective owners. © 2019 BD. All rights reserved.

