



# cobas<sup>®</sup> infinity central lab

User Guide - Lab link module

Version 1.3

Software version 2.0

**cobas<sup>®</sup> infinity** lab link module



**cobas<sup>®</sup>**  
*Life needs answers*

## Publication information

Publication version	Software version	Revision date	Change description
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1.1	2.0	June 2016	New features of software version 2.0
1.2	2.0	June 2016	Minor updates
1.3	2.0	October 2016	New features of software version 2.0 and new chapters added

☰ Revision history of User Guide

### Edition notice

This publication is intended for operators of the **cobas<sup>®</sup> infinity** central lab.

Every effort has been made to ensure that all the information contained in this publication is correct at the time of publishing. However, the manufacturer of this product may need to update the publication information as output of product surveillance activities, leading to a new version of this publication.

### Where to find information

The **User Assistance** contains all information about the product, including the following:

- Safety
- Routine operation
- Configuration information

The **User Guide** focuses on routine operation. The chapters are organized according to the normal operation workflow.

### General attention

To avoid incorrect results, ensure that you are familiar with the instructions and safety information.

- ▶ Pay particular attention to all safety notices.
- ▶ Always follow the instructions in this publication.
- ▶ Do not use the software in a way that is not described in this publication.
- ▶ Store all publications in a safe and easily retrievable place.

### Training

Do not carry out operation tasks or maintenance actions unless you have received training from Roche Diagnostics. Leave maintenance, installation, or service that is not described in the manuals to trained Roche Service personnel.

### Screenshots

The screenshots in this publication have been added exclusively for illustration purposes. Configurable and variable data, such as tests, results, or path names visible therein must not be used for laboratory purposes.

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For conditions of warranty, contact your local sales representative or refer to your warranty contract partner.

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**Feedback** Every effort has been made to ensure that this publication fulfills the intended use. All feedback on any aspect of this publication is welcome and is considered during updates. Contact your Roche representative, should you have any such feedback.

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## Intended use

The cobas® infinity IT solutions application is intended to be used for:

- the configuration and connectivity management of instruments and software systems
- the management of data regarding
  - Samples
  - Technical validation including automatic release
  - Quality Control (both qualitative and quantitative)
  - Test results and their entry (offline workplaces)
- the management and storing of information, such as
  - Samples Archiving Storage information
  - Rule engine for technical validation
  - Notifications from any part of the system
  - Reagent and Calibrator management
  - Turn Around Time management
  - Production statistics

In addition to the above intended use, the cobas infinity IT solutions application is intended for:

- the management of data regarding
  - Order Data
  - Patient Data
  - Medical Validation support
  - Result Consolidation and Reporting
  - Billing support
- the management and storing of information, such as
  - General statistics (Data Warehouse)
  - Microbiology workflows and data for: (Microbiology module)
  - human samples
- Microbiology workflows and data for: (Microbiology module)
  - human samples

## Use environment and intended users

The **cobas<sup>®</sup> infinity** central lab software is intended for Clinical Laboratories.

You can find different user profiles using the **cobas<sup>®</sup> infinity** central lab software.

### Field Service Engineer (global and local)

Field Service Engineers configure the system and master data (test, test groups, senders, instruments, reports, interfaces, etc.) according to specific requirements of the customers with regards to connected hosts, instruments and sample workflow.

Access level depends on user rights.

### Lab Technician

Lab technicians utilize the solution to perform technical validation on patient and QC results, manually edit orders (add or remove tests, edit patient-demographic data), enter patient and QC results that have been obtained from off-line workplaces, print-out patient and QC reports, archive samples, retrieve samples from the archive, etc.

Access level depends on specific user rights.

### Lab IT Administrator

Lab IT Administrators maintain users and authorization, and maintain tests and senders.

Access level depends on specific user rights.

### GP/Hospital doctor/Hospital nurse/Community nurse

These users are not employers of the laboratory, thus their access is restricted to the Lab Link module only. Users enter orders manually within the Lab Link module, release print-outs of barcode labels for the tubes for positive patient/sample identification, release print-outs of reports for the patient for blood drawing, view and print the patient result report of their patients.

### Phlebotomist

These users are employers of the laboratory, but their access is restricted to the Lab Link module only.

Phlebotomists confirm in the system that the samples have been taken according to the order.

## Symbols and abbreviations

### Product names

Except where the context clearly indicated otherwise, the following product names and descriptors are used.



Product name	Descriptor
<b>cobas<sup>®</sup> infinity</b> central lab	software
<b>cobas<sup>®</sup> infinity</b> general lab	module
<b>cobas<sup>®</sup> infinity</b> emergency lab	module
<b>cobas<sup>®</sup> infinity</b> lab flow	module
<b>cobas<sup>®</sup> infinity</b> lab link	module
<b>cobas<sup>®</sup> infinity</b> microbiology	module
<b>cobas<sup>®</sup> infinity</b> total quality management	module

☰ Product names

## Symbols used in the publication

Symbol	Explanation
•	List item
📖	Related topics containing further information
💡	Tip. Extra information on correct use or useful hints.
▶	Start of a task
📌	Extra information within a task
➔	Result of an action within a task.
📅	Frequency of a task.
🕒	Duration of a task.
📦	Materials that are required for a task.
📋	Prerequisites of a task.
📖	Topic. Used in cross-references to topics.
▶	Task. Used in cross-references to tasks.
🖼️	Figure. Used in figure titles and cross-references to figures.
☰	Table. Used in table titles and cross-references to tables.
$\sqrt{xy}$	Equation. Used in cross-references to equations.
🔗	Code example. Used in code titles and cross-references to codes.
[ ]	Square bracket. Used in the elements name as defined by your system administrator

☰ Symbols used in the publication

## Abbreviations

The following abbreviations are used.

Abbreviation	Definition
ANSI	American National Standards Institute
EN	European standard
n/a	not applicable
UPS	Uninterruptible Power Supply

☰ Abbreviations

## Safety classifications

The safety precautions and important user notes are classified according to the ANSI Z535.6 standard. Familiarize yourself with the following meanings and icons.

These symbols and signal words are used for specific hazards:

### **WARNING**

#### **Warning...**

- ▶ ...indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- 

### **CAUTION**

#### **Caution...**

- ▶ ...indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- 

### **NOTICE**

#### **Notice...**

- ▶ ...indicates a hazardous situation that, if not avoided, may result in damage to the system.
- 

Important information that is not safety relevant is indicated with the following icon:

#### **Tip...**


...indicates additional information on correct use or useful tips.

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## System safety information

Roche Diagnostics has established a series of recommendations with the aim of allowing the user to work with the software under safe conditions and guaranteeing the correct operation and proper performance of the communication network in which this product has been installed.

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 Read the following recommendations carefully for the correct operation of the software.

---

### Security

#### **WARNING**

##### Secure infrastructure

Risk of privacy violations.

- ▶ A secure infrastructure must be established for the software network and security policies must be defined to address potential problems or system failures.
  - ▶ Access is controlled by a logon. Every access to the software is registered and logged, including the unsuccessful ones.
  - ▶ Pay special attention when configuring the number of logon attempts, the password expiry period, and session management.
- 

#### **WARNING**

##### Enabled security parameters

- ▶ All security parameters (profiles, access restrictions, etc.) are enabled by default. Remember that disabling security parameters may lead to potentially major risks, e.g. unqualified staff may change instruments or system configurations, or unauthorized users may access confidential information.
-

**UPS****⚠ WARNING****UPS usage and software shutdown**

Risk of data becoming lost or corrupted in the event of a power failure

- ▶ It is strongly recommended to use a UPS and to perform regular UPS maintenance.
  - ▶ It is strongly recommended to keep the journaling feature activated.
  - ▶ There should be a standard procedure to shut down the software. Users must exit the software before shutting down the computer on a daily basis. Having a UPS that can perform a safe shutdown installed mitigates the risk of data loss due to power failure.
- 

**⚠ CAUTION****UPS usage**

Risk of data loss in the event of a power failure

- ▶ It is strongly recommended to use a UPS.
  - ▶ It is strongly recommended to keep the journaling feature activated.
- 

**User settings****⚠ WARNING****Restricting access to critical functions**

Risk of confidential information being accessed

- ▶ It is recommended to grant users the minimum rights necessary to perform their tasks to protect confidential data and configuration items in the database.
- 

**⚠ WARNING****Access to the software and user accounts**

- ▶ Access to the software should only be granted to user who have been trained and assigned a user name and password. The password must be confidential and must comply with the usual security principles. It must be changed periodically to prevent unauthorized parties from gaining access.
  - ▶ There must be one account per user. Do not create generic user accounts to be used by more than one person. Create a different account for each user, even if they have the same access rights.
  - ▶ It is recommended that you develop SOP to ensure that only qualified staff access the software.
-

**⚠ WARNING****Passwords, access, and system shutdown**

- ▶ For security reasons and for patient confidentiality, all users must exit the software or lock their computer before leaving their workplace.
  - ▶ It is recommended to correctly configure the automatic log-off time.
- 

**⚠ CAUTION****System performance**

## Risk of delayed results

- ▶ To ensure the operation of the system at full capacity, avoid connecting more users or instruments than your infrastructure supports.
- 

**System configurations**

The preconfigured settings in the system must only be used as a reference. It is recommended that they are not used as default settings since they should be modified to suit the system and the health center requirements.

---

**General****⚠ CAUTION****Servers and software performance**

## Risk of delayed results

- ▶ Use servers that are correctly dimensioned to the needs of your installation to guarantee the best performance of the software.
  - ▶ It is recommended to configure the servers using a high availability and data redundancy system. The existence of a second server prevents data loss in the event of severe or critical failures in the system.
- 

**⚠ CAUTION****Alarms on validation screens and reports**

## Risk of incomplete results that could lead to a wrong diagnosis

- ▶ To prevent users from validating results without taking into account important information, always configure alarms for validation screens and reports.
-

**⚠ WARNING****SOP**


Risk of results becoming confused

- ▶ It is recommended to establish a suitable standard operating procedure (SOP) to prevent tubes from being mishandled.
- 

**⚠ CAUTION****Barcodes**

Risk of delayed results

- ▶ It is recommended to use barcodes for tubes and trays to easily identify and locate samples.
- 

 All the changes made in the software are recorded using an audit trace.

---

**Backups****⚠ CAUTION****Backup protocol**

Risk of data loss

- ▶ It is strongly recommended to activate regular cache backup and recovery features (preferably daily).
  - ▶ It is strongly recommended to store (daily) cache backup files in a safe place.
  - ▶ It is strongly recommended to use a hardware mirroring system
- 

**⚠ WARNING****Backups and updates**

- ▶ Before upgrading the software, make backups of all databases and system configurations.
-

## Instruments and reading devices

### **WARNING**

**The software is not prepared to receive different units for the same test and host, or from the same test and different hosts. When receiving the information, the software applies the test units that have been configured.**

Risk of incorrect results

- ▶ Be careful when configuring the test primary and secondary units. If the units in the software do not match the ones received from the external host or instrument, ensure that the correct modification is applied for every result received.
  - ▶ If the units change from one message to another for the same test, you must apply the necessary result modification in the system to match the test units.
- 

### **WARNING**

#### **Repeated values**

Risk of incorrect results

- ▶ In the event that instruments do not show the time when results were sent, there is the possibility that results could be repeated due to data being transmitted twice and not because a test was repeated.
- 



#### **Reading devices**

Risk of results being misinterpreted

- It is recommended that you use reading devices (optical readers, barcode readers, card readers, etc.) to take results. Check the reading devices are operating correctly before using them in real environments.
-

## 21 CFR Part 11 compliance

The Food and Drug Administration (FDA) of the United States under Title 21 of the US Code of Federal Regulation Part 11 (21 CFR Part 11) establishes the requirements to ensure that electronic records and electronic signatures are trustworthy, reliable and equivalent to paper records with traditional handwritten signatures.

**cobas<sup>®</sup> infinity** central lab provides the capability to meet the requirements of part 11 compliance if the system is configured and used properly within the customer's processes. This section describes the steps and settings that are necessary to ensure that the software is configured to meet the requirements of this regulation.

The final responsibility of 21 CFR Part 11 compliance relies on the adequate implementation from the customer ensuring both procedural controls (i.e. Standard Operating Procedures, training) and administrative controls.

In case customers need to be compliant with 21CFR Part 11 regulatory requirements the software should be configured according the customers policies and procedures. Otherwise, the following parameters are recommended:

### General parameters

[Administration > General > General parameters](#)

ID	Parameter	Description	Recommended value
1	Accessing to the application via Direct Access without having to log on	When accessing the software using a link or externally, this parameter allows you to access only the screens marked as accessible without having to enter the password and user name on the logon screen.	No (default value)
2	Backup path (Folder)	This parameter allows you to configure the directory where the backups of the application databases are stored.	Folder path configured
3	Session timeout (min)	This parameter allows you to specify how long the session is kept open (in minutes) since activity was last detected. Once this time is exceeded, the software logon screen appears, and the user name and password must be entered again.	15
4	Direct access session timeout (min)	This parameter only applies to sessions accessed from an external environment. This parameter allows you to specify how long the session is kept open (in minutes) since activity was last detected. Once this time is exceeded, the session closes.	15
5	Days configuration trace is kept	Indicates the days the configuration trace will be kept before deleting it.	9999
6	History retention period (d)	Days to delete the order traces.	9999

☰ Parameter configuration for 21 CFR Part 11 compliance



ID	Parameter	Description	Recommended value
7	Delete orders and patients after the retention period (h) has passed.	When deleting orders and patients, the application sends them to the recycle bin. These orders / patients remain in the recycle bin until they exceed the number of hours set in this parameter. The system then proceeds to permanently delete these items from the database via the end-of-day process.	24 (default value)
8	Number of logon attempts before the user is blocked.	Indicates the amount of consecutive mistakes that the user can do when logging in.	5
9	Password renewal period (d)	Period of time when the system will request to change the password for a user.	90 (default value)
10	Password expiry warning (d)	Period of time when the system will start reminding the user to change the password before the password renewal period.	10
11	Minimum number of uppercase letters in password.	Minimum number of uppercase letters that the password must contain.	1 (default value)
12	Minimum number of digits or symbols in password.	Minimum number of digits or symbols letters that the password must contain.	1 (default value)
13	Minimum password length.	Minimum length required for the password	6 (default value)
14	Request password when accessing the Validation screen (positive user identification) and the Rule Engine Administration screen.	Indicates if the password for the user will be requested when entering into the validation screen or Rule Engine validation screen.	Yes
15	Enable automatic data removal in database.	Indicates if the system will remove order's data automatically on the database.	No (default value)
16	Enable administration trace.	Indicates if configuration actions will be tracked or not.	Yes (default value)
17	Add comment when editing validated test (for all required applications: General Lab, Emergency Lab and Microbiology)	When enabling this parameter, the application forces the user who edits validated results and wants to save them, to enter a comment. The call out that appears for entering the comment cannot be left empty. It is possible to enter a coded comment.  These comments do not appear by default in the report. If the user want to view them there, the check box of the Imp./Host column on the Comments screen should be selected.	Yes
18	Request confirmation when changing results (for all required applications: General Lab and Emergency Lab)	If this parameter is enabled, the system requests the user to confirm whether the test result change should actually be saved in the database. This option helps the user to avoid mistakes.	Yes

#### Parameter configuration for 21 CFR Part 11 compliance


### Reports

### Administration > Reports > Definition

ID	Configuration	Procedure
19	Report configuration includes the user that validates the result.	<ol style="list-style-type: none"> <li>1. Choose the corresponding report.</li> <li>2. Choose the <b>Design</b> button.</li> <li>3. Include the <b>Validation user name list</b> field in the report.</li> </ol>

#### Report configuration for 21 CFR Part 11 compliance

The following settings must be properly configured to comply with this regulation:

ID	Configuration
20	Check Backup List (Database configuration)
21	Check Backup task (Database configuration)
22	The communication channel uses SSL or HTTPS between client and server
	Backup and communication configuration for 21 CFR Part 11 compliance

To ensure that these settings are properly configured, contact your Roche Service Representative.

It is recommended that customers keep evidences of this configuration according the required regulations.

# Interface overview

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# Interface overview

After accessing the software, you can perform basic tasks such as changing the module or the profile, or filtering and sorting the information displayed on your screen.

## In this chapter

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# Accessing the software

## In this section

- Logging on to the software (23)
- Logging off the software (24)
- Changing the password (24)

## Logging on to the software

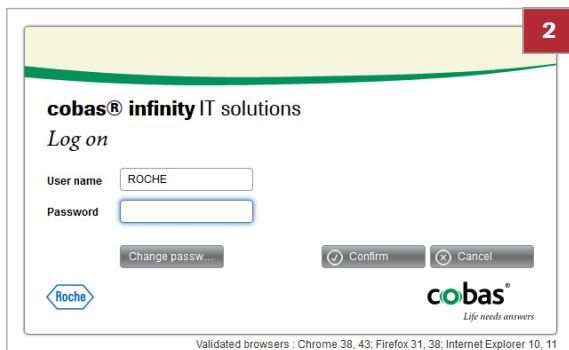
You need to log on to the software to carry out any tasks.



- A compatible browser
- A valid user name and password

### ► To log on to the software

- 1 Open the software or type the server address as provided by your administrator.
- 2 On the logon screen, fill in the following fields:
  - **User name**
  - **Password**
- 3 Choose the **Confirm** button.
  - ❶ If you exceed the number of logon attempts available, contact your system administrator.
- 4 If a Java callout appears, select the [Allow] option to be able to detect printers later on.

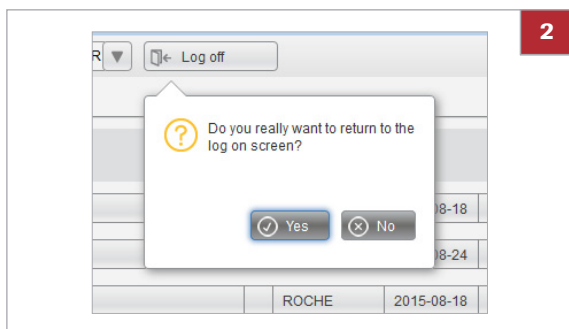


## Logging off the software

For safety reasons, you need to exit the software after completing your task.

### ► To log off the software

- 1 From any screen, choose the **Log off** button located in the information area.
- 2 To confirm that you want to exit the software, choose the **Yes** button from the callout.

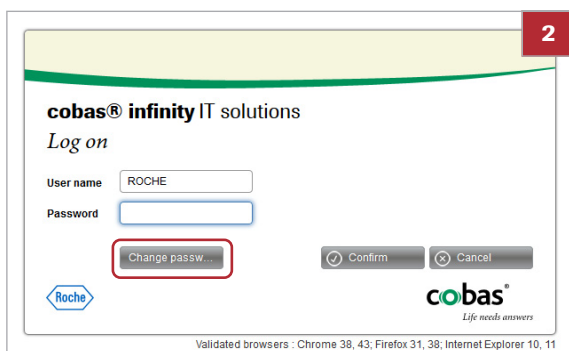


## Changing the password

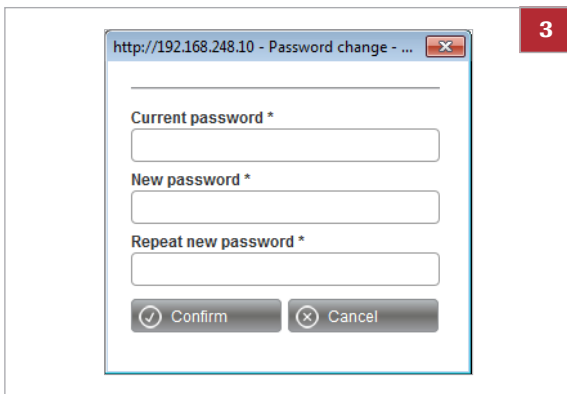
You can change the software password whenever you want, whenever the system requires it, or when your current password is about to expire or is no longer safe.

### ► To change the software password

- 1 On the logon screen, fill in the **User name** field, and then press the Tab key.
- 2 Choose the **Change password** button.



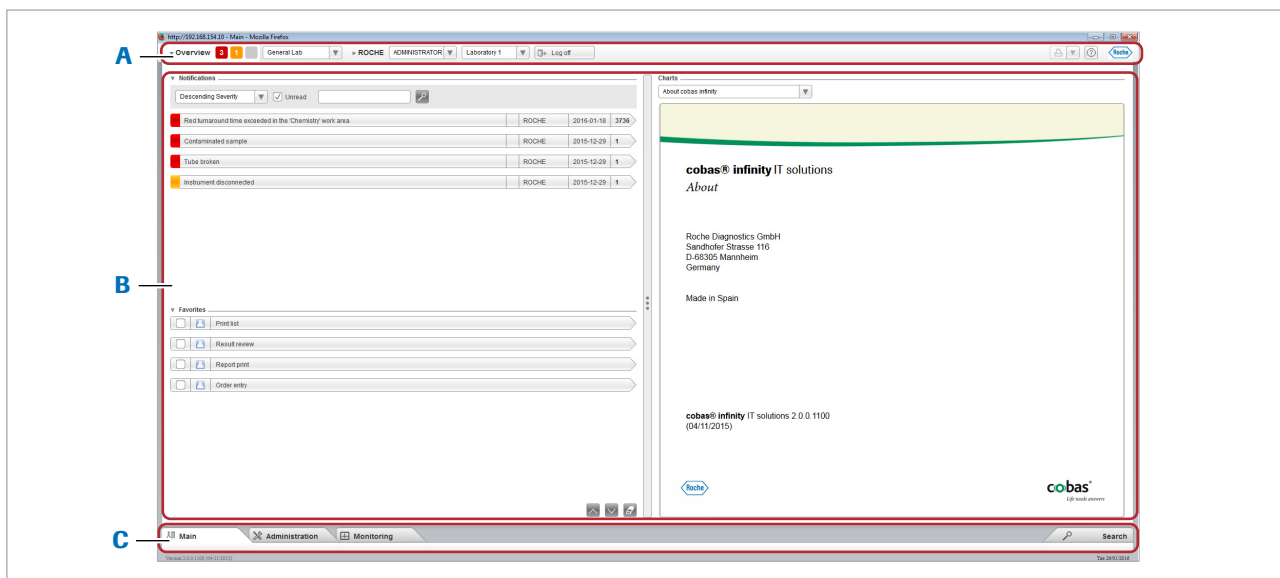




- 3 In the dialog box, enter your current password, enter the new password twice, and then choose the **Confirm** button.
- 4 Log onto the software using your new password.
  - ❗ If you have forgotten your password, contact your system administrator.

# About the software framework

The software framework consists of different areas that allow you to perform several tasks.



**A** Global information area

**B** Overview area

**C** Working space

Software framework

## Global information area

From this area, you can do the following:

- Change the software module
- Change the user profile
- Change the profile location
- Export tables
- Print barcode labels

## Overview area

From this area, you can do the following:

- View notifications
- Assign and manage shortcuts
- View work area and monitoring charts
- View the software information

## Working space

From this area, you can do the following:

- Perform a quick search
- Navigate through tabs, menus, and screens

**•☰ Related topics**

- Changing the software module (28)
- Changing the user profile (28)
- Changing the profile location (29)
- Exporting tables (37)
- Printing barcode labels manually (51)
- Viewing notifications (32)
- Assigning and managing shortcuts (33)
- Searching for general information (35)
- Navigating through tabs, menus, and screens (34)

# Performing basic tasks in the software

From the main page, you can access the various modules and tabs of the software, as well as perform some basic tasks.

## In this section

- Changing the software module (28)
- Changing the user profile (28)
- Changing the profile location (29)
- About location and multisite (30)
- Viewing notifications (32)
- About the Notifications screen (33)
- Assigning and managing shortcuts (33)
- Navigating through tabs, menus, and screens (34)
- Searching for general information (35)

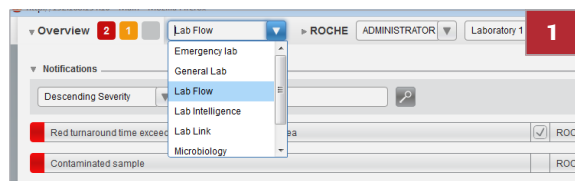
## Changing the software module

If you need to perform any tasks in a different module, you can switch to it without logging off the software.

For example, to print both General Lab and Microbiology worklists, you can easily switch from one module to the other, if you have access rights.

### ► To change the software module

- 1 From the drop-down list located in the global information area, choose the desired module.
  - The **Main** tab menu is refreshed with the options available for the selected module.
- 2 If you log off the software and log on again, the last module used is displayed.



## Changing the user profile

You can switch to a different user profile to perform some tasks without logging off the software.

Your user ID can be associated with more than one profile with different access and work rights. You can easily switch from a profile to another to carry out some tasks in the software.



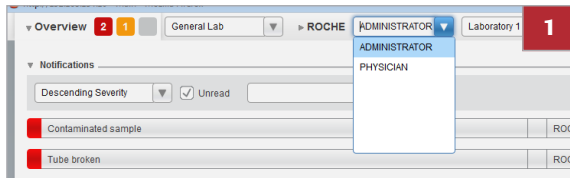
- More than one profile assigned to your user ID

### ► To change the user profile

- 1 On any screen, look for the profile drop-down list located in the global information area.
- 2 Open the drop-down list and choose the desired profile.
  - ❗ If you log off the software and log on again, the last profile used is displayed.

#### 📖 Related topics

- Changing the profile location (29)



## Changing the profile location

If you are working in more than one health center or in different services, you can select one of the locations associated with your profile.

---

💡 When you log on to the software, the last location used is displayed.

---



- More than one location assigned to your user ID

### ► To change the profile location

- 1 On any screen, look for the location drop-down list located in the global information area.
- 2 Open the drop-down list and choose the desired location.
  - The **Main** tab menu is displayed.

#### 📖 Related topics

- About location and multisite (30).

## About location and multisite

### About location


A multisite environment allows you to access patient information from any of the locations you are working in.

A multisite environment consists on having patient information accessible from different locations. A location can be a laboratory area or a hospital service and each user profile can log on to one or more locations.

In the software, a location is a configurable demographic that can have one or more values. Consider the following:

- All the user profiles must be associated at least one location.
- All the tests and orders in the database must be assigned a location.

---

 In **Main > Queries > Order traces**, you can check the location of orders and tests at any time.

---

### Selecting the profile location

If your profile is associated with more than one center or service, you can select the location you are working in. This affects the assignment of location to orders and tests.


➤ Changing the profile location (29).

### Manual or automatic location assignment to orders and tests

When you perform manual tasks such as entering orders, tests, or test results, a location is assigned to orders and tests. In some cases, you can change the order location.

Some automatic actions performed by hosts, instruments or by the rule engine also result in the assignment of a location to orders, tests, and test results.

---

 If you are not working in a multisite environment, you do not have any location associated with your profile. In this case, all the tests and orders in the database are automatically assigned to the default location Laboratory1.

---

Type of task or action	Task or action	Location assignment	Reference
Creating orders	You create an order from <b>Main &gt; Order entry &gt; Order entry</b> .	<ul style="list-style-type: none"> <li>The order gets the profile location. However, you can change the order location by selecting it from the <b>[Location]</b> drop-down list in the <b>Demographics</b> group box (if displayed).</li> <li>All the tests entered at this time get the same location as the order.</li> </ul>	
	You create a pre-order from <b>Main &gt; Order entry &gt; [Pre-order entry]</b> .	<ul style="list-style-type: none"> <li>The order gets the profile location. However, you can change the location by selecting it from the <b>[Location]</b> drop-down list in the <b>Order details</b> group box (if displayed).</li> <li>All the tests entered at this time get the same location as the order.</li> </ul>	☞ Creating a pre-order (66).
	You retrieve a pre-order from <b>Main &gt; Order entry &gt; Collection</b> .	The order gets the pre-order location and cannot be edited.	☞ Collecting a sample (69).
	An instrument sends an order.	The order and all its tests get the instrument location.	Contact your Roche Service representative.
	A host creates an order.	The order and test locations depend on the host configuration.	Contact your Roche Service representative.
	The rule engine creates an order based on an existing order.	The new order and all its tests get the location of the existing order.	Contact your system administrator.
Adding tests	You add a test to an existing order from <b>Main &gt; Order entry &gt; Order entry</b> .	The added test gets the profile location, regardless of the order location.	
	You add a test to an existing order from a validation screen.	The added test gets the profile location, regardless of the order location.	
	You retrieve a test affected by a rejection rule.	The retrieved test gets the order location.	
	The rule engine adds a test to an existing order.	The added test gets the order location.	Contact your system administrator.
		💡 This action also applies in the case of rejection rules.	
Entering or editing test results	You enter or edit the results of a test from a validation screen.	The test gets the profile location.	
	The rule engine reruns a test or assigns an automatic result to a test.	The test location does not change.	Contact your system administrator.
	The rule engine enters or edits the results of a test.	The test location does not change.	Contact your system administrator.
	An instrument sends test results or makes a query.	The test gets the instrument location	Contact your Roche Service representative.
	A host sends the results of a test.	The test location depends on the host configuration.	Contact your Roche Service representative.
☒	Manual or automatic location assignment to orders and tests		

### Filtering work areas by location

Since all the orders and tests have an assigned location, you can use this demographic to filter your work area items. This way, you can narrow down the number of items displayed.

## Viewing notifications



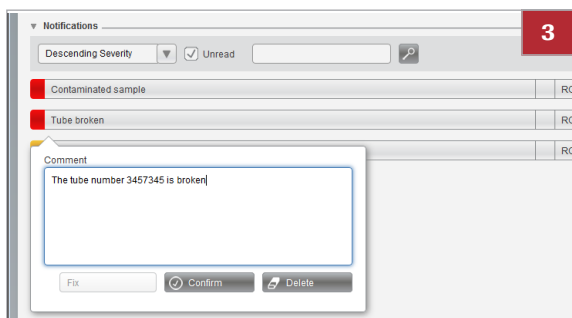
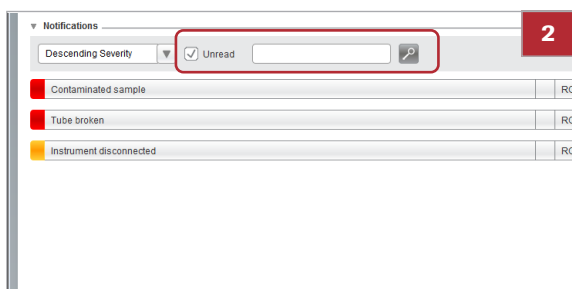
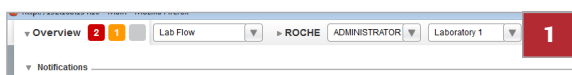
- Notification severity conditions configured by your system administrator

### ► To view notifications

- From the global information area, choose the **Overview** button to display all the available notifications.
- To filter the notifications, do one of the following:
  - Enter a search term in the search field.
  - Select the **Unread** check box.
- Choose the desired notification to see its description, and then do one of the following:
  - To access the screen where the error is detected and solve the issue, choose the **Fix** button, if enabled.
  - To confirm that you have read the notification, choose the **Confirm** button.
  - To delete the notification, choose the **Delete** button.

→ If you choose the **Confirm** button, the notification is marked as read and the notification icon is displayed without any number or with the number of remaining pending notifications.

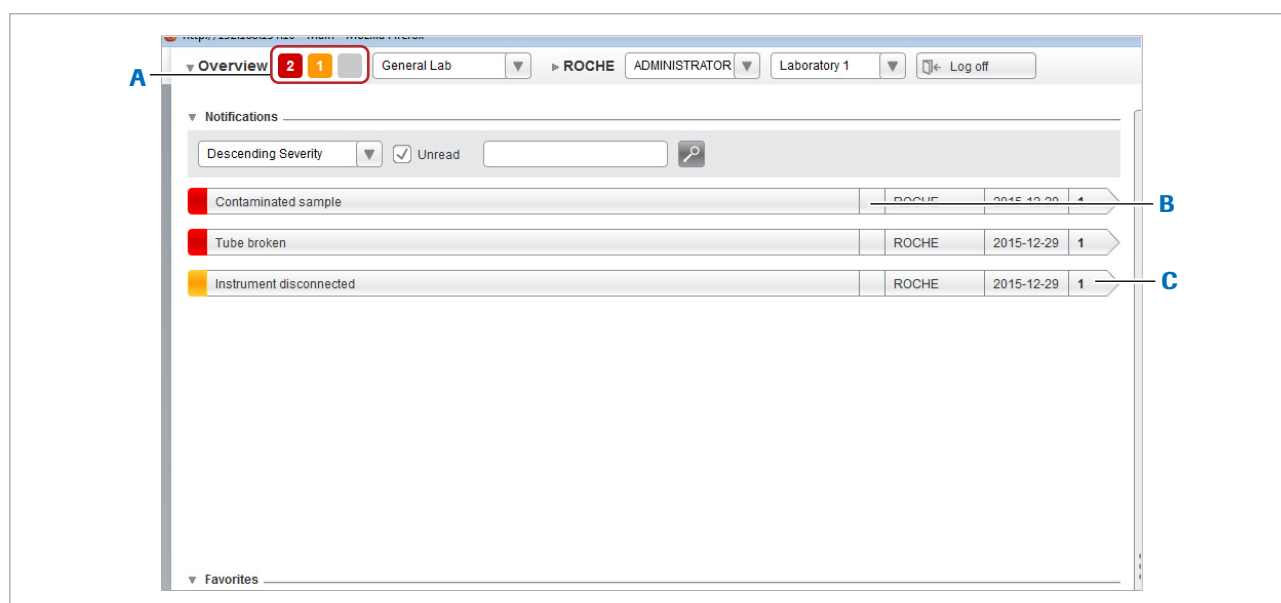
→ If you choose the **Delete** button, the notification disappears.





## About the Notifications screen

From the **Notifications** screen, you can view the number and type of pending notifications, as well as any related comments.



**A** Number of unread notifications of each type:

- Red: high-severity notifications
- Orange: medium-severity notifications
- Gray: low-severity notifications

**B** Check box indicating that the notification has been read.

**C** Number of items affected by the corresponding notification.

Notification screen

### Related topics

- Warning management (629)


## Assigning and managing shortcuts

You can assign up to 25 shortcuts to your most frequently used screens to be able to access them quickly from the **Overview** screen.



### ► To assign or delete a shortcut

- 1 Go to the screen that you want to assign to your favorites list, and then choose the icon.
  - A bookmark for the selected screen is displayed in the **Favorites** panel of the **Overview** screen.
  - The star icon turns black.



- 2 To delete the shortcut, choose it from the **Favorites** panel in the **Overview** screen, and then choose the  button.

### ► To sort shortcuts

- 1 In the **Overview** screen, go to the **Favorites** panel.
- 2 Select the check box of the item that you want to move.
- 3 Choose the   buttons to move it up or down in the list.

### ► **Related topics**

- List of common icons (40)

## Navigating through tabs, menus, and screens

You can navigate through tabs, menus, and working screens to perform tasks.

You can access the tabs, menus, and screens associated with your user profile. Therefore, some of the described items may not be visible to you.

### **Tabs**


The working space includes four tabs to perform different actions:

- **Main**: it allows you to perform daily tasks, such as entering, processing, and printing orders.
- **Administration**: it allows you to perform configuration tasks.
- **Monitoring**: it allows you to check the software performance.
- **Search**: it allows you to quickly find orders and patients.

## Keyboard shortcuts for tab and menu navigation

Use the following keyboard shortcuts to navigate through tabs and menus:

Item	Key	Action
Tabs	Ctrl+Page Down	Move to the right tab
	Ctrl+Page Up	Move to the left tab
Menus	Up Arrow	Move to the upper menu point
	Down Arrow	Move to the lower menu point
	Right Arrow	Open the submenu
	Left Arrow	Close the submenu
	Enter	Access the selected screen
	Esc	Close the menu

 Keyboard shortcuts to navigate through tabs and menus

## Searching for general information

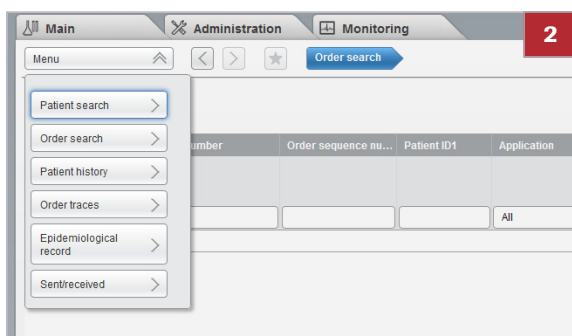
You can search for patients and orders from the main screen without needing to access the corresponding submenus.

### ► To search for general information

- From the working space, choose the **Search** tab.
- From the **Menu** drop-down list, choose one of the following options:
  - Patient search**: search for a given patient in the software.
  - Order search**: search for a given order in the software.
  - Patient history**: search for orders and tests associated with a given patient.
  - Order traces**: check the actions performed on a given order or on all the orders of a given patient.
  - Epidemiological record**: search for existing epidemiological records, declared microorganisms, etc.
  - Sent/received**: search for samples already sent or pending to be sent to health centers, as well as sample results received by health centers.

### Related topics

- Searching for an order (58)
- Viewing order traces (59)



# Filtering, sorting and exporting table information

Several screens in the software, such as work area or validation screens, include tables displaying orders, patients, and tests, among others. You can filter and sort the items displayed on such tables to see only the information you need, as well as export them to a convenient format.

## In this section

Sorting table information (36)

Filtering table information (37)


Exporting tables (37)

Saving a filter (38)

Deleting a saved filter (39)

## Sorting table information

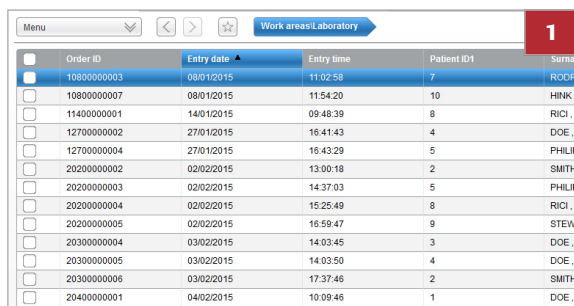
You can quickly sort table items in ascending or descending order.

 Table items are sorted using the ASCII-code order. Therefore:

- Digits come before letters.
- Numbers are sorted as strings. For example, 02, 2, 10 are sorted as follows: 02, 10, 2.
- Non-ASCII characters, such as ñ, are placed at the end.

### ► To sort table items

- 1 Choose the column header to sort the desired items in ascending order.
- 2 Choose the column header again to sort the items in descending order.



Order ID	Entry date	Entry time	Patient ID#	Surname
10800000003	08/01/2015	11:02:58	7	RODR
10800000007	08/01/2015	11:54:20	10	HINK
11400000001	14/01/2015	09:48:39	8	RICI
12700000002	27/01/2015	16:41:43	4	DOE
12700000004	27/01/2015	16:43:29	5	PHILIP
20200000002	02/02/2015	13:00:18	2	SMITH
20200000003	02/02/2015	14:37:03	5	PHILIP
20200000004	02/02/2015	15:25:49	8	RICI
20200000005	02/02/2015	16:59:47	9	STEW
20300000004	03/02/2015	14:03:45	3	DOE
20300000005	03/02/2015	14:03:50	4	DOE
20300000006	03/02/2015	17:37:46	2	SMITH
20400000001	04/02/2015	10:09:46	1	DOE

## Filtering table information

### Wild-card characters in filter fields

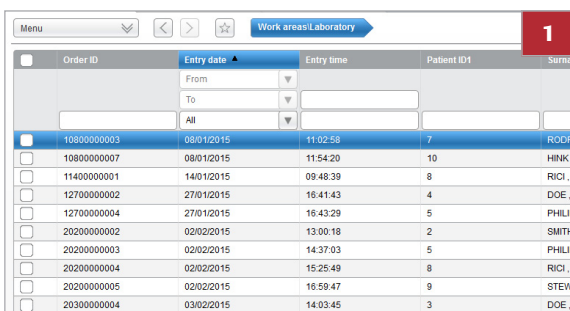
You can reduce the information displayed on tables to see only the items you need.

When entering text in filter fields, you can use the following wild-card characters:

- \* matches one or more characters. For example, in the **Order ID** filter field, enter GL201307\* to obtain the available Order IDs starting with this sequence number, such as GL20130710 and GL20130711.
- ? matches a single character. For example, in the **First name** filter field, enter J?an if you do not know if the patient's name is Joan or Juan.

### ► To filter table information

- 1 From any screen, choose the **Filter** button.
  - The available filter fields and drop-down lists are displayed.
- 2 Choose the desired filters, and then choose the **Apply** button.



Order ID	Entry date	Entry time	Patient ID	Summary
10800000003	08/01/2015	11:02:58	7	RODR
10800000007	08/01/2015	11:54:20	10	HINK
11400000001	14/01/2015	09:48:39	8	RICI
12700000002	27/01/2015	16:41:43	4	DOE
12700000004	27/01/2015	16:43:29	5	PHILIP
20200000002	02/02/2015	13:00:18	2	SMITH
20200000003	02/02/2015	14:37:03	5	PHILIP
20200000004	02/02/2015	15:25:49	8	RICI
20200000005	02/02/2015	16:59:47	9	STEW
20300000004	03/02/2015	14:03:45	3	DOE

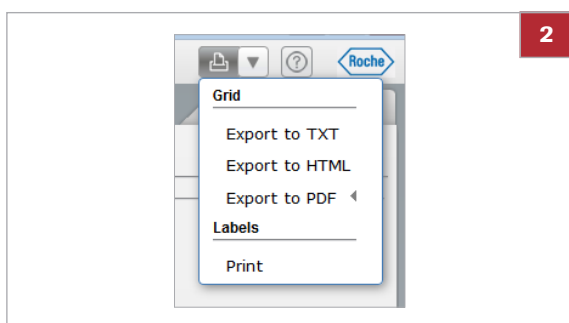
## Exporting tables

From the global information area, you can export the information displayed on a table to different file formats.


### ► To export tables

- 1 From the global information area, choose the Print drop-down list.





2 From the **Grid** group box, choose one of the following options:

- **Export to TXT**: to produce a text file using the current browser.
- **Export to HTML**: to produce a web file using the current browser.
- **Export to PDF** in **Vertical** or **Horizontal** format: to produce a PDF file using the current PDF viewer.
- ❶ The  button performs the last selected action. To print tables again, choose it or press F5.

## Saving a filter

You can save frequently used search configurations to easily apply them when you access the screen again.

### ► To save a filter

Patient ID#	Surnames, Name	WA Status	P. T.	Te
		All		All
7	RODRIGUEZ, DAMIAN	████████	2	Urinary Sedim
10	HINK, JOSHUA	██████	0	Catalogue
8	RICI, DANIEL	██████	27	Hemogram, Pl
4	DOE, JOHN	██████	1	Catalogue, Co
5	PHILIPS, PETER	██████	0	Catalogue, Bio
2	SMITH, SAM	██████	2	Catalogue, Bio
5	PHILIPS, PETER	██████	1	Catalogue

1 From any screen, choose the desired filters. Then, choose the **Apply** button.

2 Choose the **Capture filter** button.

**Name \***  
Pending Res|

View orders without tests

By default

**Application \***

Confirm Cancel

27/01/2015 16:43:29 5

3 In the callout, enter the following:

- **Name** of the filter.
- **By default** check box: the filter is automatically applied whenever you access the screen.
- **View orders without tests** check box and **Application** drop-down list (only for work areas): the filter shows the orders belonging to the selected module that do not contain tests.

4 Choose the **Confirm** button.

- The new filter is displayed in the **Filter** drop-down list.

### 📖 Related topics

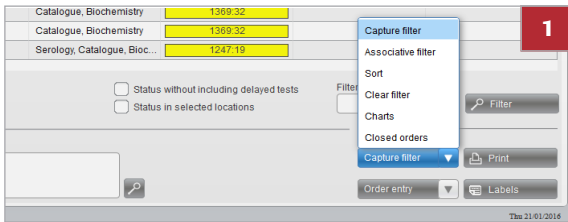
- Deleting a saved filter (39)

## Deleting a saved filter

You can delete a saved filter when you no longer need to apply it or you have to make changes in the search configuration.

### ► To delete a captured filter

- 1 From the **Filter** drop-down list, choose the filter you want to delete.
- 2 Choose the **Clear filter** button, and then confirm that you want to delete the filter.
  - ❶ The **Clear filter** button can be displayed in a drop-down list depending on the type of screen.



# About the common interface items

## In this section

List of common function keys (40)

List of common icons (40)




## List of common function keys


Use your keyboard to perform a series of actions in the software.

### Common function keys

You can use these function keys to perform tasks throughout the software.

Screen-specific function keys are described in the corresponding tasks.




Key	Corresponding buttons	Action
F1	-	Opens the User Assistance.
F2	<b>Confirm</b> or <b>Save</b> buttons	Saves data.
F3	<b>Delete</b> button	Deletes data.
F4	<b>Cancel</b> button	Undoes changes.
F5	 button	Performs the last action selected from the  drop-down list, that is, printing labels or tables.
F6	 button	Returns to the previous screen.
F7	<b>Add</b> button	Enables the configuration area to assign a new item in the <b>Administration</b> tab.
F8	<b>Filter</b> and <b>Apply</b> buttons	Enables or applies filters.
F9	-	Enables the configuration area to edit a new item in the <b>Administration</b> tab.
F10	<b>Menu</b> drop-down list	Opens and closes the main menu.


 Common function keys

## List of common icons





### Module icons

These icons indicate that the adjacent item belongs to a specific software module.

Icon	Description
	General Lab module
	Microbiology module
	Shared between the General Lab and the Microbiology module

 Module icons



Icon	Description
	Emergency Lab module
	Lab Flow module
	Total Quality Management module
	Module icons



# Routine tasks

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2	General tasks .....	45
3	Pre-analysis .....	63
4	Post-analysis .....	73



# General tasks

## In this chapter

**2**

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# Viewing and assigning comments

You can provide additional information about a patient, order, or test to a Microbiology tree item so that it is taken into account when validating results.

You can assign comments from various screens in the software, such as the **Order entry** or **Validation** screens. Such information can be accessed whenever the relevant comment icon is displayed.

## In this section




Assigning coded comments (47)

Assigning rich-text comments (48)

List of comment icons (49)


## Assigning coded comments

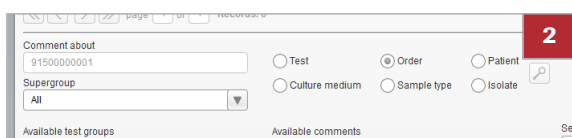
You can quickly assign standard comments, previously configured, to tests, orders, patients, culture media, samples, and isolates.

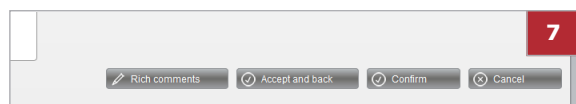
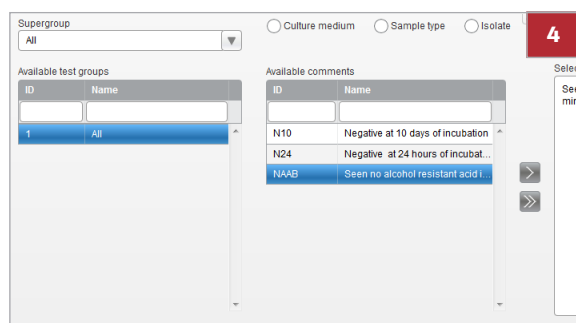
You can assign comments from various screens in the software, such as the **Order entry** or **Validation** screens. Such information can be accessed from one of the following comment icons: , , .

### ► To assign coded comments

- 1 Choose the **Comment** button.
- 2 From the **Comment** screen, choose one of the following options to decide where the comment is assigned:
  - **Patient**
  - **Order**
  - **Test**  
or, only for Microbiology:
  - **Culture medium**
  - **Sample type**
  - **Isolate**

❗ This option will be automatically filled according to the icon you choose to enter the screen.
- 3 If necessary, choose the  button to search for the specific item you want to assign the comment to.





- 4 From the **Supergroup** drop-down list, choose the relevant comment supergroup.
  - The **Available test groups** and **Available comments** group boxes display the available comments.
- 5 Double-click the comment you want to assign.
- 6 Optionally, attach a file.
- 7 Do one of the following:
  - Choose the **Accept and back** button to save the comment and return to the working screen.
  - Choose the **Confirm** button to save the comment and perform other actions, such as assigning another comment, viewing the comment attachment, sending the comment to the printer or host, and so on.

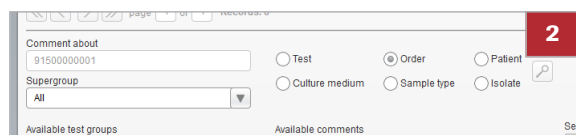
## Assigning rich-text comments

You can enter free-text comments or customize available coded comments.

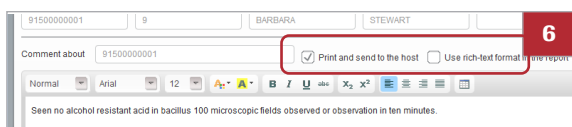
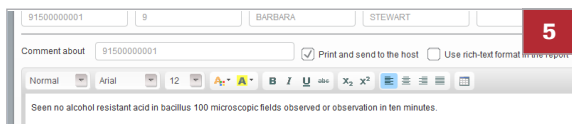
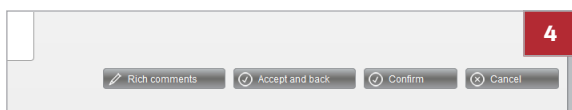
You can assign comments from various screens in the software, such as the **Order entry** or **Validation** screens. Such information can be accessed whenever the relevant comment icon is displayed.


### ► To assign rich-text comments

- 1 Depending on your configuration, choose one of these buttons:
  - **Comment**: proceed with step 2.
  - **Rich text comments**: proceed with step 5.
- 2 From the **Comment** screen, choose one of the following options to decide where the comment is assigned:
  - **Patient**
  - **Order**
  - **Test**  
or, only for Microbiology:
  - **Culture medium**
  - **Sample type**
  - **Isolate**
  - ❶ This option will be automatically filled according to the icon you choose to enter the screen.













- 3 If necessary, choose the  button to search for the specific item you want to assign the comment to.
- 4 Choose the **Rich text comments** button.
- 5 Do one of the following:
  - In the comment panel, enter your free-text comment and edit its format.
  - If you want to edit an available coded comment, choose the **Cod. comments** button, double-click the desired comment, and then choose the **Confirm** button.
- 6 Optionally, select the following check boxes:
  - **Print/Send to host** to print the comment and send it to the host.
  - **Use rich-text format in the report** to display rich text format in the printed report.
- 7 Optionally, attach a file.
- 8 Choose the **Confirm** button to save the comment and return to the **Comment** screen.





## List of comment icons


Comment icons are displayed next to the order, test or patient ID, or in the **C** or **Type** columns if shown on a table.

Choose the relevant comment icon to access the **Comment** screen and assign a new comment or display the ones already available. You can also place the mouse pointer over the relevant comment icon to display a tooltip with the full comment.

Icon	Action performed or meaning	Screens where it can be found
	Assigns a comment to an order.	<b>Validation</b> screens
	Assigns a comment to a patient.	<b>Validation</b> screens.
	Assigns a comment to a test.	<b>Validation</b> screens.
	Displays the order comment and allows you to assign a comment to an order.	<b>Validation</b> and <b>Queries</b> screens.
	Displays the patient comment and allows you to assign a comment to a patient.	<b>Validation</b> and <b>Queries</b> screens.
	Displays the test comment and allows you to assign a comment to a test.	<b>Validation</b> and <b>Queries</b> screens.

### Comment icons

Icon	Action performed or meaning	Screens where it can be found
	Displays the test, sample type, culture medium, or isolate comment when you hover over it.	<b>Seeding</b> , and <b>Validation</b> screens.
	Indicates that the comment comes from an instrument.	<b>Type</b> column on the <b>Comment</b> , and <b>Validation</b> screens.
	Indicates that the comment has been entered manually by a user.	<b>Type</b> column on the <b>Comment</b> , and <b>Validation</b> screens.
	Indicates that the comment has been entered automatically by the system.	<b>Type</b> column on the <b>Comment</b> , and <b>Validation</b> screens.

 Comment icons

# Printing barcode labels manually

From the global information area, you can manually print or reprint barcode labels for a batch of orders, tubes, or trays at any time.

You can also manually print barcode labels for the orders, tubes, or trays you are working with from other screens in the software.

## In this section

Printing order labels (51)

Printing tube labels (52)

Printing tray labels (53)

List of manual print options for barcode labels (55)

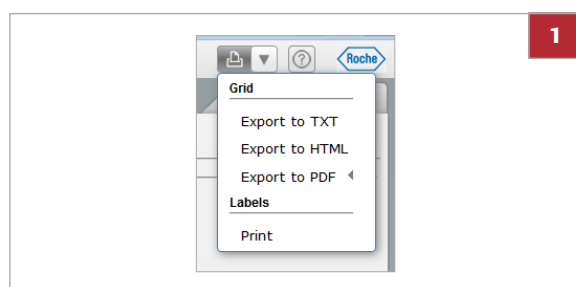
## Printing order labels

From the global information area, you can manually print or reprint barcode labels for a batch of orders at any time.



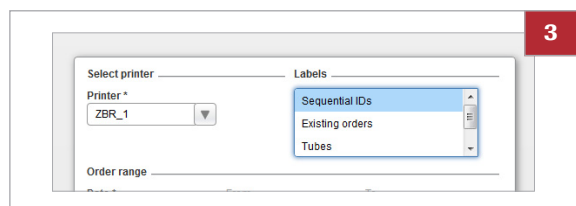
- Label printers and label printing options configured by the administrator

### ► To print order labels manually



**1** From the global information area, choose the drop-down list with the print options.

**2** From the **Labels** group box, choose the **Print** option.



**3** From the **Printer** drop-down list, choose the default printer.

**4** From the **Labels** group box, choose one of the following options:

- **Sequential IDs:** to print all the order labels included in the range, regardless of whether the orders exist or not.
- **Existing orders:** to print all the labels corresponding to existing orders included in the range.

5

5 From the **Order range** group box, choose the date and order ID ranges.

- ❶ In the **Order ID from** and **Order ID to** fields, you must enter sequence numbers, instead of full order IDs.

6

6 Do one of the following:

- Choose the type of label and the number of copies to be printed for each order.
- Choose the **Depending on configuration** option to print the type of label and the number of copies configured by the administrator (only available for existing orders).
- ❶ This latter option allows you to print order and container labels, as well as labels for Microbiology items, such as culture media, secondary tests, and so on.

7 Optionally, choose the **Only pending** option to print labels only for pending orders.

8 Choose the **Print** button.

#### Related topics

- List of manual print options for barcode labels (55)

## Printing tube labels



From the global information area, you can manually print or reprint tube labels for existing orders.

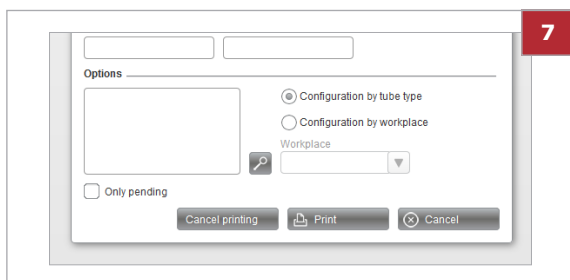
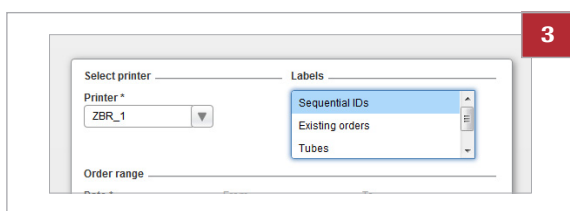
- Label printers and label printing options configured by the administrator
- Workplaces configured by the administrator (for some options)


### ▶ To print tube labels manually

1 From the global information area, choose the drop-down list with the print options.

2 From the **Labels** group box, choose the **Print** option.

1



- 3 From the **Printer** drop-down list, choose the default printer.
- 4 From the **Labels** group box, choose the **Tubes** option.
- 5 From the **Order range** group box, choose the date and order ID ranges.
- 6 To select the types of tube to be labeled, choose the  button
- 7 Choose one of the following options:
  - **Configuration by tube type**: to print labels according to the configuration performed by the administrator for order entry.
  - **Configuration by workplace**: to print labels according to the configuration performed by the administrator for the selected Lab Flow workplace.
- 8 Optionally, choose the **Only pending** option to print labels only for pending tubes.
- 9 Choose the **Print** button.

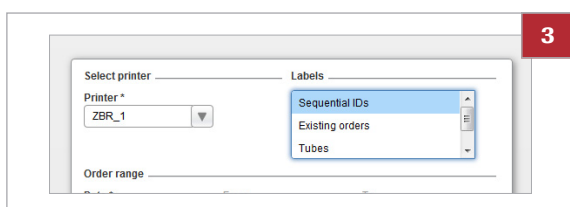
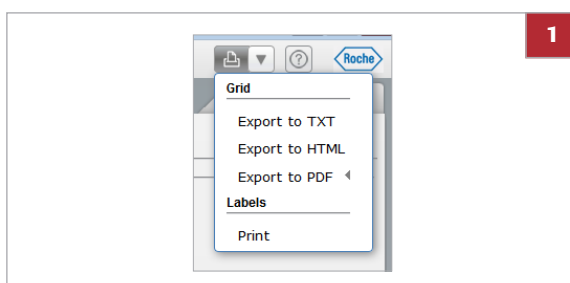
## Printing tray labels

From the global information area, you can manually print or reprint tray labels for the desired target and workplace.

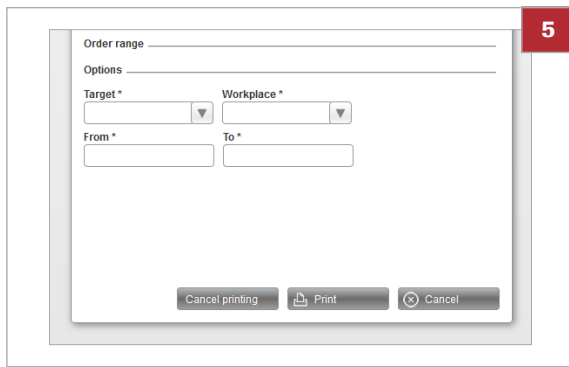


- Label printers configured by the administrator

### ► To print tray labels manually



- 1 From the global information area, choose the drop-down list with the print options.
- 2 From the **Labels** group box, choose the **Print** option.
- 3 From the **Printer** drop-down list, choose the default printer.
- 4 From the **Labels** group box, choose the **Tray** option.



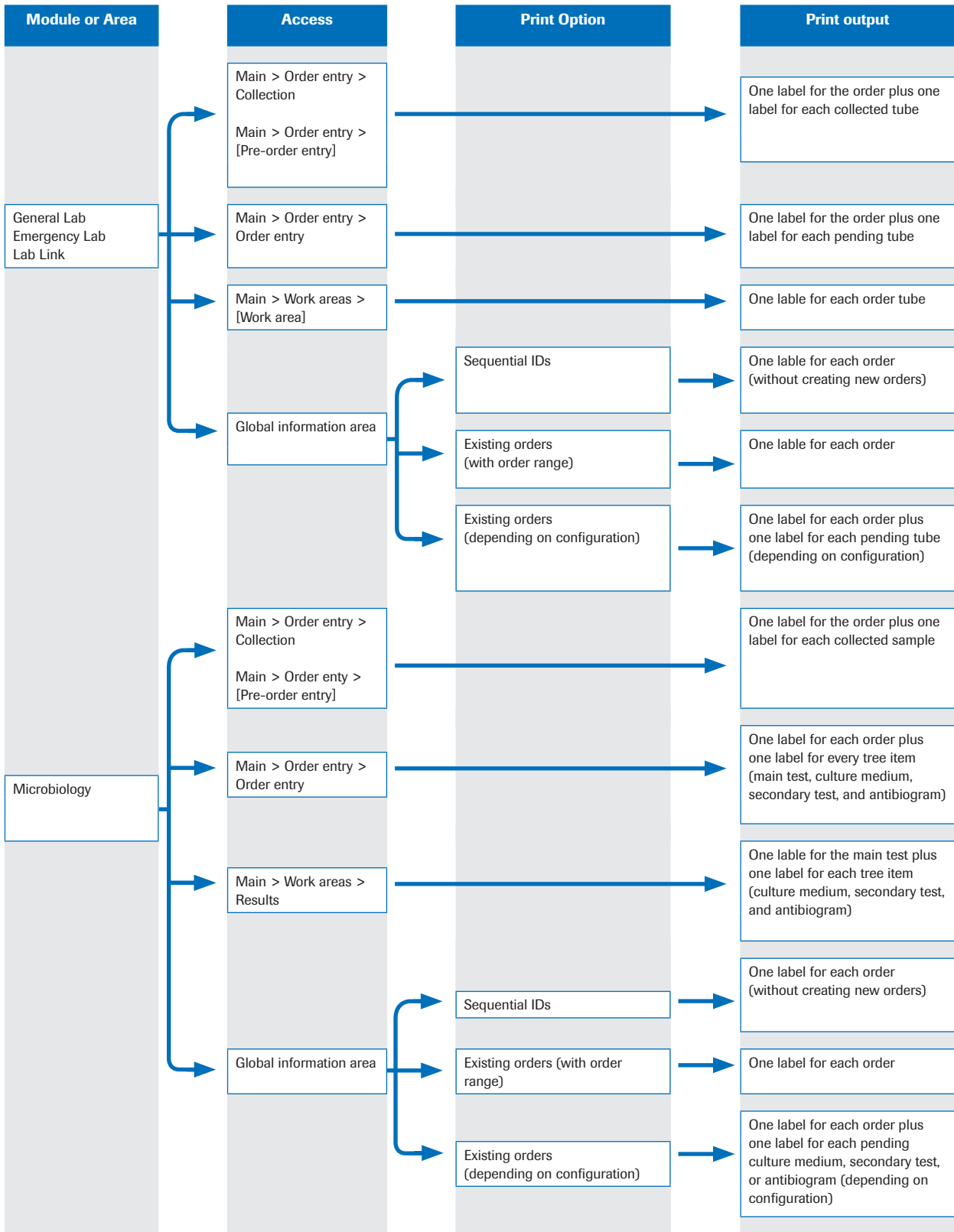
The screenshot shows a dialog box for manual printing. It has a red tab with the number '5' in the top right corner. The dialog contains the following elements:

- Order range**: A text input field.
- Options**: A text input field.
- Target \***: A dropdown menu.
- Workplace \***: A dropdown menu.
- From \***: A text input field.
- To \***: A text input field.
- Buttons**: Three buttons at the bottom: 'Cancel printing', 'Print' (with a printer icon), and 'Cancel' (with a close icon).

- 5 From the **Target** and **Workplace** drop-down lists, choose the Lab Flow target and workplace in which tray labels are printed.
- 6 From the **From** and **To** drop-down lists, choose the initial and final tray barcodes.
- 7 Choose the **Print** button.

## List of manual print options for barcode labels

You can manually print barcode labels for the orders, tubes, and samples you are working with in different ways, depending on the module and screen you are in.





# Checking connections

## In this section

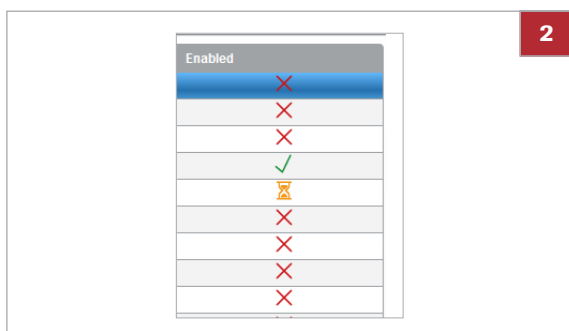
Checking the host connection (57)

## Checking the host connection

Occasionally you may need to check the connection between hosts and the software. In most cases, you can fix connection problems yourself.

### ► To check the host connection

- 1 Choose **Monitoring > HCA > Host status**.
- 2 To view the status of each host, look at the **Enabled** column.
  - If there is a green tick, the host is connected and you do not have to do anything.
  - If there is a sand clock, the host is waiting to establish the definitive connection. Stop the connection and start again.
  - If there is a red cross, double-click the host to enable it.
    - The host is connected.



# Searching for order and patient information

## In this section

- Searching for a pre-order (58)
- Searching for an order (58)
- Viewing order traces (59)

## Searching for a pre-order

You may need to check a pre-order to see which tests were ordered, which samples were extracted and when, and which samples are pending.

### ► To search for a pre-order

- 1 Choose **Main > Queries > Pre-orders search**.
- 2 To search for a pre-order, press Enter or choose the **Apply** button. Optionally, fill in the information fields to search for an specific pre-order.

#### 📖 Related topics

- Collecting a sample (69)

## Searching for an order

You can check information and the status of a previously created order to see which tests were performed and which are pending.

### ► To search for an order

- 1 Choose **Main > Queries > Order search**.
- 2 From the **Supergroup** drop-down list, choose the supergroup the order belongs to.
- 3 Enter the year the order was created.
  - ❶ By default the current year shows up. You can edit it if necessary.

Local data...	*Year	*Order number	Order sequence nu...	Patient ID1	Application	Group
All	2015	25000*			All	All
No results						

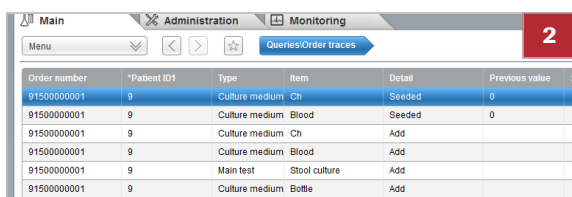
- 4 Enter either the order ID, patient ID, or tube ID, and then press Enter.
  - ❶ If you are unsure of the data, enter an asterisk (\*) in any of these fields to search for all information.
- 5 To view the desired order, select it and choose the **Results** button.

## Viewing order traces

You may need to consult the order traces to view the status of an order or see which analyzers the samples passed through. You can also check if any errors occurred during any part of the process.

### ► To view order traces

- 1 Choose **Main > Queries > Order traces**.
- 2 Enter the patient and/or order demographics you have available, and then press Enter. Select also one of the following actions:
  - All: shows all orders actions taken.
  - Without CON: show all orders actions taken excepting the consulting actions.
  - ACT: shows the opening orders actions.
  - ADD: shows the adding orders information actions.
  - CON: shows the consulting actions excepting consulted demographics orders not automatically assigned.
  - DIS: shows the closing orders actions.
  - DEL: shows the deleting orders actions.
  - MOD: shows the modifying orders actions. Includes the change of location.
  - REC: shows the retrieving orders of recycle bin actions.
  - PREJ: shows the pending to reject tests actions.
  - REJ: shows the rejecting tests actions.
  - DPER: shows the deleting orders permanently actions.
  - PRW: shows the previewing order actions. To preview an order, choose the **Preview** button, or choose the **Overview** button in Microbiology module.
  - ❶ You can track tubes at test level by viewing the **[Location]**. The **[Location]** lets you know where the test is performed.




Order number	*Patient ID1	Type	Item	Detail	Previous value
9150000001	9	Culture medium	Ch	Seeded	0
9150000001	9	Culture medium	Blood	Seeded	0
9150000001	9	Culture medium	Ch	Add	
9150000001	9	Culture medium	Blood	Add	
9150000001	9	Main test	Stool culture	Add	
9150000001	9	Culture medium	Bottle	Add	

**•📄 Related topics**

- About location and multisite (30)

# Releasing tests or orders

Processing an order from any screen in the software can cause one or several tests to become disabled. The software allows you to release the orders or tests that are automatically locked.

 In the General Lab module, any user with the correct rights can perform this action.

In the Microbiology module, only a user with administration rights can perform this action.



- A user profile with the correct rights

## ▶ To unlock tests or orders

- 1 Choose **Monitoring > Order release**.
  - 2 In the **Order** field, enter the order ID of an order with locked tests.
  - 3 Choose the **Apply** button to display the locked order and its tests.
  - 4 Select the check box next to the desired order or test, and choose one of the following buttons:
    - **Release order**: to restore the order.
    - **Release**: to restore the selected tests.
- !** Remember that the released tests or orders can be processed by both the first user accessing them after their release and the user who caused them to become locked.



# Pre-analysis

## In this chapter

**3**

Order and pre-order management. ....	65
Creating a pre-order .....	66
Editing a pre-order .....	67
Canceling a single pre-order .....	67
Deleting or restoring pre-orders. ....	68
Handling samples. ....	69
Collecting a sample .....	69
Marking samples as received .....	70





# Order and pre-order management

Pre-orders and orders must be created for patients existing in the database before tests can be performed. If tests are required urgently, you can create orders without patients but these tests cannot be medically validated until a patient is assigned.


## **⚠ CAUTION**

### **Order IDs**


Risk of patient results being confused with another patient's results.

- ▶ The system allows you to define the fields forming the order ID (fixed texts, dates, prefixes...) and the modules where they are used. To enter and retrieve orders correctly, remember to use the specified format for the module you are in.

---

 Remember that the software does not recognize any zeros leading an ID.

---

 Due to the recycling of order IDs, you may get more than one result when you enter an order ID. A callout displays any matching orders in chronological order. Choose the desired order to continue.

## **⚠ CAUTION**

### **Reusing tube IDs**

Risk of results being confused.

- ▶ It is recommended to define a different tube ID for each sample.  
Tube IDs can only be reused once the maximum time period configured in the automatic order closing parameter is exceeded, otherwise patient information and results could become confused.

## **⚠ WARNING**

### **Entering erroneous order demographic data**

Risk of delayed or wrong results

- ▶ Ensure that the mandatory demographic fields are entered correctly.

## Creating a pre-order

### ⚠ CAUTION

#### Deleting orders

Risk of results and data being confused with results and data belonging to another patient.

- ▶ When deleting an order, all samples and tubes belonging to this order must also be removed from the laboratory and the system.


💡 It is recommended to use reading devices (optical readers, barcode readers, card readers, etc.) to enter data. Check these devices are operating correctly before using them in real environments

#### In this section

- Creating a pre-order (66)
- Editing a pre-order (67)
- Canceling a single pre-order (67)
- Deleting or restoring pre-orders (68)

Physicians must give patients a pre-order with the list of tests to be performed. This form is delivered to the laboratory so the samples can be collected.

### ▶ To create a pre-order

- 1 Choose **Main > Order entry > Pre-orders**.
- 2 To fill in the patient demographics, enter the following data in the **Patient ID1** field:
  - Enter the patient ID, and then, press Enter.
  - Enter the patient surname, and then choose the  button.
- 3 In the demographics tab, enter the order demographics.
- 4 Depending on the configuration in your center, the remaining tabs may vary. Choose each of the remaining tabs, and then fill in the corresponding test information.
  - If applicable, answer the questions concerning the patient.

- 5 To give the patient a printout of the form, Select the **Patient's form** check box.
- 6 Choose the **Save** button.

## Editing a pre-order

If you want to assign more tests, delete any unnecessary tests, or change information in a pre-order, you can edit it.

### ► To edit a pre-order

- 1 Choose **Main > Order entry > Pre-orders**.
- 2 Enter the pre-order ID, and then press Enter.
- 3 In each tab, assign or delete the necessary tests, and then choose the **Save** button.

## Canceling a single pre-order

Sometimes samples cannot be extracted or a patient forgets to bring a sample and so you decide to cancel the pre-order. You can only cancel open pre-orders. Once extractions are performed, the pre-order is closed.

### ► To cancel a single pre-order

- 1 Choose **Main > Order entry > Preorders**.
- 2 Fill in the Order ID field, and then press Enter.
- 3 Choose the **Delete** button.

## Deleting or restoring pre-orders

If a pre-order could not be completed because not all of the samples could be collected, you can delete it. Save time by deleting several as a batch. If you need to check information in a deleted pre-order e.g. the samples requested, patient information, you can restore it.

### ► To delete or restore pre-orders

Orders belonging to...

Application \*  
Lab Link

Preorder collection status

Not collected  
 Partly collected  
 Fully collected

Entry From Date

Status

Open Orders  
 Closed Orders

Local database  History

Entry date


From \*  
Date to \*

Order ID selection

By batches  
 Specific

Initial sequence num. \* Final sequence num. \*

Order

- 1 Choose **Monitoring > Delete/restore orders**.
- 2 In the **Application** field, select the module where the pre-orders were created.
- 3 Indicate the status of the pre-orders by choosing at least one of the following options:
  - **Not collected**: no samples were collected.
  - **Partly collected**: some samples were collected.
  - **Fully collected**: all samples were collected.
- 4 Indicate whether the pre-orders are open or closed.
- 5 If you chose the **Closed orders** option in step 4, choose one of the following options:
  - **Local database**: if the pre-orders are stored locally.
  - **History**: if the pre-orders were moved to the historical database.
- 6 Enter the date or range of dates that the pre-orders were created on.
- 7 Choose one of the following options:
  - **By batches**: to delete or restore several pre-orders.
  - **Specific**: to delete or restore a specific pre-order.
- 8 If you chose the **By batches** option in step 7, enter the initial and final sequence number of the pre-orders to be deleted or restored.
- 9 If you chose the **Specific** option in step 7, enter the order ID, and then choose the  button.
- 10 Choose one of the following options:
  - **Delete**: to delete the select pre-orders.
  - **Restore**: to restore the selected pre-orders.

# Handling samples

## Collecting a sample

### In this section

Collecting a sample (69)

Marking samples as received (70)

Samples must be collected from patients according to the tests ordered by the physician. Once all samples are collected for a pre-order, you can enter this information in the system to close the pre-order and enable the analysis.






#### ⚠ CAUTION

##### Reusing pre-order IDs

Risk of the ID being linked to the patient who was previously assigned this ID instead of the current patient, producing incorrect results.

- ▶ Choose the **Collect** button before printing and attaching sample labels.
- ▶ It is recommended to refresh the screen to ensure you are viewing the most up-to-date data.

💡 If you create a pre-order with a test associated with a tube, and afterwards you create a different version of this test associated with a different tube, the test created with the pre-order will still be associated with the first tube.

Collected tubes: 0			
Color	Order	Tube ID	Collection
	9281000000	 9281000000	<input type="checkbox"/>
	9281000000	9281000000	<input type="checkbox"/>
	9281000000	 9281000000	<input type="checkbox"/>

### ▶ To collect a sample

- 1 Choose **Main > Order entry > Collection**.
- 2 Scan the barcode or enter the pre-order ID, and then press Enter. The following information for each tube is displayed in the **Collection** column:
  - A red box: the sample was not collected. To change it to green, select the box.
  - A green box: the sample can be collected. If you do not want to collect this sample yet, select the box. It changes to red.
  - A gray box: the sample was already collected. This option cannot be modified.

- 3 Choose the **Collect** button.
  - ❶ You might be asked to answer open questions concerning the patient. Enter the answers, and then choose the **Collect** button

## Marking samples as received

The technician must check that the right amount of samples are received to perform the tests requested by the doctor.

Some Instruments or workflows cannot process different tubes or sample types with a shared ID. To differentiate them, you can assign a different tube ID for each sample received.



- At least one order
- Configured printer

### ► To mark samples as received

- 1 Choose **Main > Order entry > Reception**.
  - ❶ You can also access this screen from the **Main > Order entry > Order entry** screen.
- 2 Scan the barcode or enter the order ID, and then press Enter.
  - If the software does not automatically load the tube ID in the **Tube ID** column, enter or scan a tube ID.
  - The status is automatically changed to green.
- 3 The boxes displayed in the **Received** column indicate the status of the tube. If necessary, choose each box to change its color to one of the following:
  - Green: Tube received.
  - Red: Tube not received.
  - Gray: Tube already received. This option cannot be modified.
  - If you change the status of a tube, the software automatically changes the status of the tests associated with that tube, which are displayed below.

- 4 To save the samples status and print the labels of the received samples, choose one of the following buttons:
  - **Receive & Next**: the information of the order is cleared and you can proceed with the next order.
  - **Receive**: the same order is reloaded with the updated information. The status of samples marked as received is displayed in gray.
- 5 Optionally, choose the **Reprint label** to reprint the labels.
- 6 Optionally, choose the **Add issue** button to report any issues in the **Total Quality Mgt.** module.





# Post-analysis

## In this chapter

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Creating report templates.....	76
Generating a report manually.....	77



# Reports

## In this section

---

About report printing (75)

Creating report templates (76)

Generating a report manually (77)

## About report printing

Once patient results are entered in the system, a report must be sent to the physician. The physician can then make a diagnosis and prescribe medication if necessary. A report can also be sent to the patient.

Reports can be generated manually or automatically, for a single order, or for a batch of orders. A final report is always printed by default for single orders unless the order status prevents it e.g. the order contains unvalidated tests. You can print reports from various screens and choose whether to print all tests or certain tests. This feature is useful for example if you have a shared order and you only need the results from one module.

You can set up a filter to store your settings and speed up the report printing process.




Due to recycling order IDs, when you enter an order ID or sequence number, if more than one order is found, a callout appears displaying the orders in chronological order. The most recent is automatically selected but you can choose a different order if you want.

---

The following types of reports are available:

- **Pre-report:** to see the status of the order that you want to create a report for. You can select this option as many times as desired until a final report is printed or everything in the order is validated. In this case, a final report is printed.
- **Final report:** to print the report for the desired order. This option can only be selected once and only if all tests were medically validated.
- **Result reprint:** to make a copy of the final report. You can make as many copies as desired.

## Creating report templates

 The “\*\*\*\*\*” character is displayed in a report in the following situations:

- When a test has a result, but the user does not have rights to view its specific information.
- When a test result is pending and the **Print non-validated tests as pending when the user is only allowed to view validated tests.** general parameter is disabled. To enable this parameter, contact your system administrator.

### WARNING

#### Results

Risk of incomplete or delayed results.

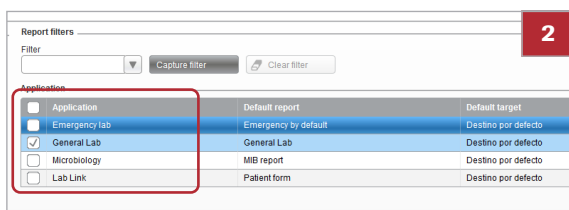
- ▶ Check reports are configured correctly before starting to use the system.

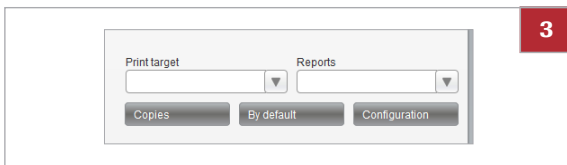
Report templates allows you to print reports for tests and orders as quickly as possible.

Report templates allows you to configure a default printer so that by choosing the **Print** button on any screen, the report is sent to that printer, regardless of where you are. This feature is available on the validation, patient search and order search screens, the **Microbiology** module, and work areas.

### ▶ To create a report template

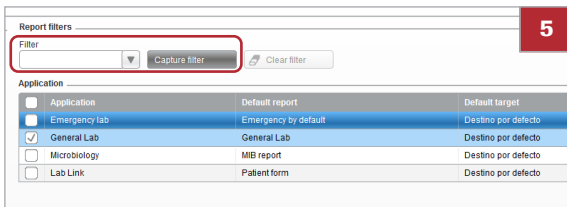
- 1 Do one of the following:
  - From the report printing screen, choose **Main > Reports > Report print.**
  - From any other screen where report printing is available, choose the **Print** button.
- 2 Select the modules where you want to be able to print reports.





3 From the **Print target** drop-down list, choose the printer you want to set as the default printer.


4 From the **Reports** drop-down list, choose the desired template.



5 Choose the **Capture filter** button, and then enter the name you want to give this filter. To make this the default filter, select the **Default filter** check box.

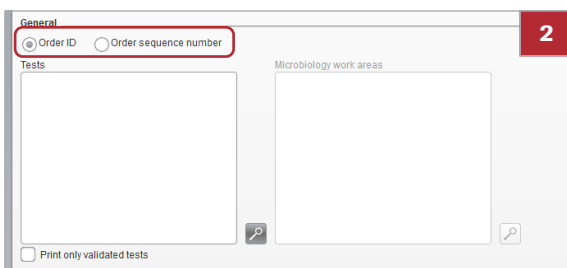
## Generating a report manually

Once patient results are entered in the system, a report must be sent to the physician. Reports can be generated manually or automatically, for one order or for a batch of orders. The physician can then make a diagnosis and prescribe medication if necessary.

 Reports can be printed from many different screens containing the **Print** button including the **Microbiology** module, validation screens, work areas, and order search screens.

### ► To generate a report manually

- Do one of the following:
  - From the report print screen, choose **Main > Reports > Report print**.
  - From any other screen where report printing is available, choose the **Print** button.
- In the general section, select whether you will enter the order ID or sequence number for the orders you want to print reports for.



Single orders

Order  Year

By batches

Dates  From  Date to

From  To   All orders

Pre-report  Final report  Result reprint

3 Do one of the following:

- To print a single report, in the order field, enter the order ID or sequence number and the year the order was created.
- To print a batch of reports, enter the date or date range, and then enter the initial and final order IDs or sequence numbers or select the **All orders** check box.

Single orders

Order  Year

By batches

Dates  From  Date to

From  To   All orders

Pre-report  Final report  Result reprint


4 Select the type of report you want to print.

General

Order ID  Order sequence number

Tests  Microbiology work areas

Print only validated tests

5 Choose the  button.

Supergroup

ID  Abbr.  Name

Available test groups

- General Lab module
- Microbiology module

Available tests

- General Lab module - All
- 115 - A1 - ALFA 1 GLOBULIN
- 116 - A2 - ALFA 2 GLOBULIN
- 311 - ALARMSYS - ALARMSYS
- 900 - ALBU - ALBUMIN
- 403 - APTT - ACTIVATED PARTIAL THROMBIN TIME
- 405 - APTTR - APTT RATIO
- 406 - AT3C - ANTI-THROMBIN III

Group - Tests

- 114 - ALB - ALBUMIN

6 From the **Supergroup** drop-down list, select the desired supergroup, and then do one of the following:

- To search for a specific test group or test, select ID, abbreviation, or name, and then enter the information in the **Available test groups** box or the **Available tests** box.
- From the list of test groups, choose the type of test group you want.

General

Order ID  Order sequence number

Tests  Microbiology work areas

Print only validated tests

7 Double-click the tests you want to include in the report, and then choose the **Confirm** button.

- To only include validated tests in the report, select the **Print only validated tests** check box.

Print target  Reports

8 To send the report to a specific target, from the **Print target** drop-down list, choose the desired option.

9 From the **Reports** drop-down list, choose the desired template.

- 10 To access the printing control page, choose the **Print** button.
  - If you selected PDF as the print target, you can double-click the PDF button to view the report on-screen.





# QC

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# QC

## In this chapter

**5**

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# QC result review













## In this section

List of Result review screen items (85)








## List of Result review screen items


The **Result review** screen displays extensive data on the control or calibrator results, as well as on the test status.

The columns displaying control or calibrator results and the test status are the following:

Column	Column description	Icon	Icon description
<b>Range</b>	Compares the actual control result with the expected result.		The control result is correct, since it is less than 1 standard deviation away from the expected value.
			The control result triggers an alarm, since it is between 1 and 2 standard deviations from the expected value.
			The control result triggers an error, since it is between 2 and 3 standard deviations from the expected value.
			The control results is more than 3 standard deviations away from the expected value (it is less than the expected value).
			The control results is more than 3 standard deviations away from the expected value (it is greater than the expected value).
		<b>Result review</b>	Indicates whether the control or calibrator result is accepted or rejected (either automatically or manually).
	The control or calibrator result is pending review and has to be accepted or rejected manually.		
	The control or calibrator result has been manually or automatically rejected.		
<b>Multi-rule QC</b>	Indicates whether the control result violates the rule configured for that instrument-test and, in that case, which rule is violated.		The control result does not violate the rule configured for that instrument-test.
			The control result violates the rule configured for that instrument-test and triggers an alarm.
			The control result violates the rule configured for that instrument-test and triggers an error.
			The channel to the instrument is blocked if the  icon appears next to this icon. The test should be sent to another instrument.

 List of Result review screen items

Column	Column description	Icon	Icon description
Status	Indicates the current status of the test and affects the validation of the test result.		The tests status is correct.
			The test status triggers an alarm, because one or more controls violate the rule configured for that instrument-test.
			The test status triggers an error, because one or more controls violate the rule configured for that instrument-test.
		 	The channel to the instrument is blocked if the  icon appears next to this icon. The test should be sent to another instrument.
			The period is pending closure, therefore no status can be assigned to the test until the following control result is received.

 List of Result review screen items

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