Atellica® VT Li
Immunoassay Analyzer

Advanced User Guide
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Atellica® VTLi Immunoassay Analyzer

Advanced User Guide
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CHAPTER 1
Exploring the Atellica VTLi Service Software Client
About this User Guide

This user guide describes the Atellica VT Li Immunoassay Analyzer advanced configuration features and explains how to use them. You should carefully read this user guide before using the device. Make sure to keep this user guide for future reference.

The following conventions are used throughout this guide:

Symbols Description

- Indicates additional information about a feature or screen.
- Indicates important operations or safety information.

Next > Finish  In instructions, indicates a series of commands you use to reach a screen.

Installing the Service Software

The service software server component runs in the background on your IT infrastructure, and communicates with docked analyzers to retrieve anonymized service-related data and update each analyzer.

Atellica Analyzer VT Li service software installation is done by a Siemens Healthineers service engineer. For more information, see Appendix A on page 31.

Starting the Service Software user interface

INSTRUCTIONS

1. On the Windows desktop, double-click.

   The service software starts and the login screen appears.

   You can also open Start > All Apps > Atellica VT Li Service Software Client.

   Starting or closing the service software client does not affect the process of monitoring analyzers. The service software remains active, even when a user is not logged in. The analyzer will still connect and transfer data to the service software and to the hospital information system, even when there are no users logged in.

Logging in

Siemens Healthineers recommends each service software user have a unique user name and password.
INSTRUCTIONS

1. Type your user name in the **User ID** field.

2. Type your password in the **Password** field.
   - You must wait 5 minutes to login after 5 incorrect password attempts.

3. The **Server** field shows the last used server location and a list of previously entered values for the server hostname(:port).

4. Click **Log In**.
   - When logging in for the first time during the installation process, the system prompts you to change your password.

**Service software overview**

The service software provides for configuring analyzers, monitoring analyzer status, managing users, and managing supported cartridges and cartridge lots.

The service software client component enables you to group and configure analyzers, monitor analyzer status, and manage user accounts if no middleware software is available. The service software also allows you to manage the supported cartridges and cartridge lots.

**Exploring the user interface**

<table>
<thead>
<tr>
<th></th>
<th>Configuration tabs:</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td><strong>Analyzer</strong> - View status, group and configure settings and workflow, release or remove cartridge lots from analyzer groups. See Chapter 2, page 7.</td>
</tr>
<tr>
<td></td>
<td><strong>Inventory</strong> - Install cartridge protocols, manage cartridge lots. See Chapter 3, page 17.</td>
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<td><strong>Users</strong> - Manage user accounts. See Chapter 4, page 21.</td>
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<tr>
<th></th>
<th>Status bar icons</th>
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<tbody>
<tr>
<td>2</td>
<td>Workspace - displays the information and messages for the current task you are performing (for example, analyzer and group settings, reagent cartridge and QC lots).</td>
</tr>
</tbody>
</table>
Common icons and buttons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Icon" /></td>
<td>Status bar icon displays when new unassigned analyzers are available. The number in the icon provides information about the number of new analyzers detected. Click to select the new analyzer.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Icon" /></td>
<td>Status bar icon you click to access system settings and preferences.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Icon" /></td>
<td>Status bar icon displays the current user. Move the mouse pointer over the icon to see the user information. Click to log out as the current user.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Icon" /></td>
<td>Analyzer is ready for use. No error conditions.</td>
</tr>
<tr>
<td><img src="image5.png" alt="Icon" /></td>
<td>Analyzer can be used but has a warning condition that requires attention.</td>
</tr>
<tr>
<td><img src="image6.png" alt="Icon" /></td>
<td>Analyzer has an error condition and cannot be used until resolved.</td>
</tr>
</tbody>
</table>

**Finding Service Software information**
Click the Siemens Healthineers logo in the status bar to display the About screen to view the software release number, software release date, and other information.

**Logging out**

**INSTRUCTIONS**

1. Click ![Icon](image7.png).
2. Click Log out.

An automatic log out feature ends the current user session after a default time of inactivity. You can set the default inactivity time in system settings.

**Exiting the Service Software**

Click the Close button in the upper right corner of the screen.

Exiting the service software closes the user interface. The service software remains active, even when a user is not logged in. The analyzer can still connect and transfer data to the service software and to the hospital information system when a user is not logged in.
Backing up and restoring the service software

Backing up the service software

INSTRUCTIONS
1. Stop the Atellica VTLi Immunoassay Analyzer service.
2. Copy the SERVER.DB and server-settings.xml files in location %ProgramData%\Atellica VTLi Immunoassay Service Software Server to your backup location (preferably identifying date, time, and version of the software in use when the backup was made).
3. Start the service.

Restoring the service software

INSTRUCTIONS
1. Stop the Atellica VTLi Immunoassay Analyzer service.
2. Copy the SERVER.DB and server-settings.xml from your backup location to: %ProgramData%\Atellica VTLi Immunoassay Service Software Server\.
3. Start the service.
CHAPTER 2
Using the Analyzer Tab
About the Analyzer Tab

Use the Analyzer tab to manage settings for individual analyzers or a group of analyzers. All analyzers in a group share the same configuration. Adding an analyzer to a group configures the analyzer according to group settings and removes any existing settings.

The Analyzers tab has two main sections:

- Analyzer pane
- Properties pane

Analyzer pane

The Analyzer pane displays all analyzers and groups currently managed by the application. It also shows the status of each analyzer.

The assigned analyzer name is shown above each analyzer icon. The last synchronization date or Connected (if the analyzer is online and network connected) is shown below the analyzer icon.

An information message displays when no analyzers or groups are available.

Viewing analyzer status

Analyzers are shown as icons in the Analyzer pane. The icon’s color and symbol indicates the current status of each analyzer.
Analyzer is working normally; no special conditions.

Analyzer can be used, but requires attention. A yellow exclamation mark symbol also appears in the analyzer icon on the Analyzer pane. Typically, this occurs when synchronization is pending and the system is waiting for the analyzer to be docked.

Analyzer cannot be used at all. A red X symbol also appears in the analyzer icon on the Analyzer pane. Typically, this occurs when the analyzer is locked for testing by the Administrator, when a QC has failed, or when a QC is overdue.

Properties pane
The Properties pane provides additional information on the analyzer or group selected in the Analyzer pane.

![Properties pane](image)

The content of the Properties pane changes depending on whether you select an analyzer or a group. Clicking on the right side of the pane allows you to access either analyzer or group settings, depending on the selection.

When you select (highlight) an analyzer that is not part of a group, you can only view basic properties in the properties pane.

Adding a new analyzer
When a new analyzer is detected on the network and there is at least one existing group, the analyzer appears in the Analyzer pane. The “new analyzer detected” icon appears in the status bar.
Working with groups

You can create groups of analyzers for ease of identifying and managing settings. For example, Emergency Room, Cardiology, and so on. All analyzers in a group are configured automatically.

Groups are ordered alphabetically by the group name, and the order cannot be rearranged. Within each group, the analyzers are also ordered alphabetically by the analyzer ID.

If the strip length extends beyond the available space on the screen, a scroll bar appears at the bottom of the Analyzer pane.

You can also use the keyboard left and right arrow keys to move through groups and analyzers.

Creating a new group

INSTRUCTONS

1. Click + in the top-right corner of the screen to create a new group.

   ![Create new group dialog](image)

   The Create new group dialog appears.

2. Enter the name of the new group.

3. Select the language and software properties for the group.

4. Click Create.

   You can use the Create a copy of this group option to quickly create a new group.

Using group properties

If a group is highlighted, the Properties pane displays the following information:

- Group settings (such as Analyzer login, User ID and Patient ID entry, Sound, etc.)
- Cartridge protocols and applicable QC lots for the group

Using the Group properties menu

You can define settings for a group by using the Group settings menu.

You can also right-click on a group to open the properties menu.
Renaming an existing group

INSTRUCTIONS
1. Select the group you want to rename in the Analyzer pane.
2. Click  > Rename group.
3. Enter the new group name.
4. Click OK to save the new group name.

Editing group settings

INSTRUCTIONS
1. Select the group you want to change in the Analyzer pane.
2. Click  > Edit group settings.
3. In the Edit settings dialog box, modify the settings as necessary:
   - Analyzer login: Select the level of user authentication required.
   - User ID entry: Select the method for entering the user ID.
   - Patient ID entry: Select the method for entering the patient ID.
   - Sound: Enable or disable analyzer sound.
   - Date format: Select the format in which the analyzers display dates.
   - Time format: Select the format in which the analyzers display time.
   - Memory full handling: Configure when the analyzer application overwrites existing measurement data.
   - POC administrator: Enter contact information for the analyzer administrator. Data in this field is not anonymized and is part of the logfile(s) as entered in this dialog.
   - Automatic logout: Set the period of inactivity allowed before the current user is logged out.
4. Click OK to confirm the changes.

Changing group settings triggers synchronization for all analyzers in the selected group.

Copying group settings

Use this feature to copy settings from an existing group to a new group.

INSTRUCTIONS
1. Select the group you want to copy in the Analyzer pane.
2. Click  > Create a copy of this group.
   The Create group copy dialog displays.
3. Enter a name for the new group.
   The default name is the original group name with an incremented number.
4. Click the check-boxes for cartridge protocols and lots (cartridge and QC) linked to the original group.
5. Click Create to create the group.
   The new group is added to the Analyzers pane.

Updating analyzer language and software

Use this option to upgrade and downgrade the analyzer software.
INSTRUCTIONS
1. Select the group you want to update or downgrade in the Analyzer pane.
2. Click > Update analyzer language and software.
3. Select the installed language and software version.
   - You might not be able to select all software versions, depending on the current version of the analyzers already present in the group.
4. Be sure to confirm that all analyzers in the group are updated.
5. Click OK to start the update.

Deleting a group

INSTRUCTIONS
1. Select the group you want to delete in the Analyzer pane.
2. Click > Delete group.
3. Click Yes to confirm the selection.
   - The group and associated analyzers disappear from the Analyzer pane.
   - Deleted analyzers do not need to be undocked and docked to become visible again in the Analyzer pane.

Cartridge protocols and lots
The Cartridge protocols and lots area shows the available cartridges for all analyzers within the selected group.

![Cartridge protocols and lots]

- When no cartridge protocols are assigned to a group, an information message displays.

Adding a cartridge protocol to a group

INSTRUCTIONS
1. Select a group in the Analyzer pane.
2. Click + on the right side of the Properties pane.
3. Select a cartridge protocol from the drop-down list.
4. Click Add to add the cartridge protocol to the group.
   - Only cartridge protocols that have been registered on the Inventory tab and can be added to a group. See Inventory tab on page 17.
   - Adding a cartridge protocol to a group triggers synchronization for all analyzers in the selected group.

Cartridge lots
The cartridge lots are color coded for quick visual status. Green means lot is ready to use. Yellow means lot is about to expire. Red means lot is expired.
Lots can be removed by clicking the minus (-) symbol behind the lot number.
Removing a cartridge protocol from a group

Removing a cartridge protocol from an analyzer group means that the assay can no longer be performed on any of the analyzers in that group.

INSTRUCTIONS

1. Select a group in the Analyzer pane.
2. Click on the top-right side of the cartridge protocol you want to remove.
3. Select Remove cartridge protocol from group.
4. Click Yes to the confirmation message.
   The cartridge is removed from the group.

Removing a cartridge protocol from a group triggers synchronization for all analyzers in the selected group.

Changing Quality Control (QC) Workflow settings

The system supports regular testing of Quality Control (QC) samples. QC samples can be used to monitor reliability of a system and provide ongoing feedback that results are sufficiently reliable. The QC workflow can also be disabled if needed.

With the QC workflow enabled, the system mandates regular QC testing and guides users through the process, including QC due warning messages. If a QC test is not successfully done within the configured time, the analyzer is locked from testing with the relevant cartridge lot(s).

QC samples also provide a stable source for use in releasing new cartridge lots. The system supports the release of new cartridge and QC lots by testing a QC sample. This process is fully guided. Failing to register new cartridge lots or QC lots (can be configured separately) means that the lot cannot be used for patient testing.

INSTRUCTIONS

1. Select a group in the Analyzer pane.
2. Click on the top-right side of the selected cartridge protocol.
4. In the Workflow settings dialog, modify the following as necessary:
   - Unknown cartridge lots: Select whether unknown cartridge lots can be used or whether they must be registered first.
   - QC guidance: Select whether QC is enabled or disabled.
   - Unknown QC lots: Select whether unknown QC lots can be used. Only available when QC guidance is enabled.
   - QC interval: Select the interval between subsequent QC tests. Only available when QC guidance is enabled.
   - QC interval due warning: Select when the system will notify the user before the next QC test is due. Only available when QC guidance is enabled.
5. Click OK to confirm changes.

Changing workflow settings triggers synchronization for all analyzers in the selected group.
Adding a cartridge lot to a cartridge protocol within a group

To make cartridge lots available on analyzers, the lot must be first added to the cartridge protocol on the Inventory tab (see Inventory tab on page 17). After that, the cartridge lot can be made available to the analyzers in the selected group by adding it as described in this section.

- Adding a cartridge lot to a cartridge protocol within the group makes the protocol available on all analyzers in the group.
- Expired cartridge lots are removed from the drop-down list.

INSTRUCTIONS

1. Select a group in the Analyzer pane.
2. Click the Add lot button on the selected cartridge protocol.
3. Select the cartridge lot from the drop-down list.
4. Click Add.

   The cartridge lot is added to the cartridge protocol.

   The drop-down list only shows cartridge lots that have been registered on the Inventory tab.

Removing a cartridge lot from a cartridge protocol within a group

INSTRUCTIONS

1. Select a group.
2. Click the minus (-) symbol on the cartridge lot that should be removed from the cartridge protocol.
3. Click Yes to remove the cartridge protocol from the group.

   Removing a cartridge protocol from the group removes the cartridge file from all analyzers in the group.

Working with a Single Analyzer

If a single analyzer is selected, the Properties overview displays the following analyzer information:

- Analyzer settings for the selected analyzer.
- Cartridge protocols and lot information for the selected analyzer.

Moving an analyzer to a group configures the analyzer to the settings for that group. When the analyzer is selected, the analyzer properties are displayed and more detailed cartridge lot information is shown (for example, lot status).

If you remove an analyzer from the docking station while it is synchronizing with a group, the analyzer may not fully synchronize with all configured group settings. This is not visible on the analyzer itself, but the analyzer is displayed with the warning status (orange) in the service software until it is docked again and successfully completes the pending synchronization.
Using the analyzer properties menu

You can also right-click on an analyzer to open the menu.

**Cartridge lot details**
Lot availability is color-coded.

- Green lots are available for testing.
- Orange lots have QC tests scheduled but can still be used.
- Red lots can not be used for testing because, for example, QC is overdue or the lot has expired.

If a single analyzer is highlighted, you can not add or remove lots. This action can only be performed at the group level.

**Renaming an analyzer**

**INSTRUCTIONS**
1. Select the analyzer you want to rename.
2. Click > Rename analyzer.
3. Enter the new analyzer name.
4. Press OK to save your changes.

**Deleting an analyzer**

**INSTRUCTIONS**
1. Select the analyzer you want to delete.
2. Click > Delete analyzer.
3. Click Yes to delete the analyzer.

The analyzer can also be deleted from the group by dragging its icon outside the group.

**Locking an analyzer**

If for whatever reason you wish to prevent users from using a particular analyzer it can be locked remotely.

The analyzer must be connected to the service software for locking.

**INSTRUCTIONS**
1. Select the analyzer you want to lock.
2. Click > Lock analyzer.

The analyzer lock status is shown in the analyzer Properties overview.

When the analyzer is locked, the analyzer Properties overview displays “Locked by admin” and the analyzer icon in the Analyzer overview changes to error status (red).
Unlocking an analyzer

The analyzer must be connected to the service software for unlocking.

INSTRUCTIONS
1. Select the analyzer you want to unlock.
2. Click > Unlock analyzer.
   The analyzer unlock status is shown in the analyzer Properties overview.

Resetting an analyzer to factory defaults

You can restore an analyzer to the factory default settings. When you do this:
- All data stored on the analyzer is deleted.
- The analyzer is removed from its assigned group and communication with the service software is lost.

INSTRUCTIONS
1. Select the analyzer you want to reset.
2. Click > Reset analyzer to factory defaults.
3. Click the checkbox in the confirmation dialog box.
4. Click Yes to reset the analyzer to the factory defaults.
Change the communication settings on the analyzer to restore communication with the service software.

Removing patient data

A best practice is remove patient data when an analyzer is removed from service.

INSTRUCTIONS
1. Select the analyzer you want to remove all patient data.
2. Click > Remove patient data.
3. Click Confirm action? checkbox.
4. Click Yes to remove all data on the analyzer.
   The analyzer can no longer be used for testing.

After removing patient data, the analyzer is removed from its assigned group and communication with the service software is lost.
CHAPTER 3
Using the Inventory Tab
About the Inventory Tab

Use the Inventory tab to manage cartridge protocols, lots, quality control kits, analyzer languages and software.

Whenever a new or upgraded cartridge protocol is available, it must be loaded on the Inventory tab before it can be downloaded to an analyzer group or multiple analyzer groups. Similarly, cartridge lots must first be loaded via the Inventory tab.

Installing cartridge protocols

The Inventory tab contains an overview of the installed cartridge protocols and lots. New cartridge protocols can be installed and new lots can be registered in this area as well as old protocols and lots removed.

INSTRUCTIONS

1. Under Cartridge lots, click +.
2. In the dialog box, select one or more cartridge protocol files to import.

The file is validated and added to the Cartridge protocols and lots area on the Inventory tab.

Cartridge lot information

In this area, a list of installed cartridge lots is displayed for each cartridge protocol.
Registering a new cartridge lot

INSTRUCTIONS
1. Click the Register new lot button.
2. Enter the lot ID to be added.

Removing/uninstalling a cartridge protocol or lot
Cartridge lots remain on the analyzer until they are removed. Removing cartridge lots that are no longer in use helps keep a clear working environment on the analyzer. This is especially important when the QC regime is enabled. Lots no longer in use appear in red because the analyzer recognizes that QC testing is overdue.

INSTRUCTIONS
1. Click next to the name of the cartridge protocol.
   - A warning message displays if the cartridge protocol is still in use by at least one analyzer.
2. Click the minus (-) button next to remove a lot.
3. Confirm you want to remove the item.
   - You cannot remove a lot if the lot is still assigned to a cartridge protocol within a group. Go to the Analyzers tab to remove the lot from the assigned group.

Modifying ranges for quality control lots
When a cartridge protocol is selected, the quality control (QC) kits that are linked to that cartridge protocol become visible. Each QC kit, which is a combination of a QC product and level, contains a separate list of QC lots. A QC lot can then be modified, so that for each analyte linked to the current cartridge protocol, the range can be modified.

For more on QC testing workflow, see the Atellica VTLi Immunoassay Analyzer User Guide.

INSTRUCTIONS
1. Select a cartridge protocol.
2. Click the browse button (...) next to a QC lot and select Set QC Range.
3. Modify the QC range for one or more analytes listed on the left.
   - In the Set QC Range window, the upper and lower limits can be adjusted.
     - If the upper limit is left empty, it is set to infinity.
     - When the lower limit is left empty, it is set to 0.
     - When both values are left empty or when the Use default values button is clicked, default values are used.
     - Default values are retrieved from the analyzer after synchronization.
   - If no limits are entered, an analyzer will not begin a QC test for that lot.
Registering a new QC lot

You can also add QC lots using the analyzer. For more information, see the Atellica VTLi Immunoassay Analyzer User Guide.

INSTRUCTIONS
1. Click the Register lot button.
2. Enter the QC lot ID in the text field.
3. Set the QC ranges for each analyte. Follow the Instructions for Use of the QC sample to obtain the QC acceptance limits for each lot and level.

Removing a QC lot

QC lots remain on the analyzer until they are removed (similar to cartridge lots)

INSTRUCTIONS
1. Click the browse button (...) next to the QC lot and select Remove this lot.
2. Confirm you want to remove the lot.

It is not possible to remove a QC lot if the lot is still assigned to a QC kit within a group. Use the Analyzers tab to remove the QC lot from the assigned QC kit.

Installing analyzer software and languages

The Inventory tab contains an overview of the installed analyzer software and language packages. New software and language packages can be registered here.

INSTRUCTIONS
1. Under Analyzer software and languages, click + to add one or more inventory packages.
2. Select analyzer software or language packages.
3. Click Open to install the selected packages.

Removing an inventory package

1. Click the minus (-) button next to an item to remove the selected package.
2. Click Yes to confirm removal of the inventory package.
CHAPTER 4
Using the Users Tab
About the Users Tab

You can use the **Users** tab to create and maintain a list of operators for the analyzer. You can:

- View existing user details
- Change details for a user
- Create a new user
- Delete a user

Only Administrator users can access the **User** tab options.

**View existing users**

To view the current list of users, click the **User** tab. Current users are listed alphabetically.

Click a column header to sort the display by that column.

**Adding a new user**

**INSTRUCTIONS**

1. Click the **User** tab.
2. Click **Create New User** button.
3. Enter the following details in the **Create New User** dialog box:
   - **User name**: The name of the operator.
   - **User ID**: The alphanumeric identifier for the operator.
   - **Role**: Click **User** or **Administrator** to assign that role to the operator.
   - **Password**: The login password for the operator. Password rules are:
     - Minimum password length is 12 characters
     - Password must contain 3 of the following 4 types of characters: uppercase letters, lowercase letters, numbers, and symbols (limited set of symbols allowed)
     - No part of the password should contain the Operator ID
   - **Account**: Click the **Enabled** checkbox to activate the user.
   - **Active from/until**: Choose the start and end dates for operator ID.
4. Do one of the following:
   - Click **Create user** to accept your changes.
   - Click **Cancel** to close the dialog box without making changes.
Change details for an existing user
Follow the instructions below to view and change information about an existing user.

INSTRUCTIONS
1. Click the User tab.
2. Click the user name in the list you want to change.
3. Click the Edit User button.
   The User Details dialog box displays.
4. Change the information as necessary.
5. Do one of the following:
   - Click OK to accept your changes.
   - Click Cancel to close the dialog box without making changes.

Delete a user
Follow the instructions below to delete a user.

INSTRUCTIONS
1. Click the User tab.
2. Click the user name in the list you want to delete.
3. Click Delete User button.
4. Do one of the following:
   - Click OK to accept your changes.
   - Click Cancel to close the dialog box without making changes.
Chapter 5
System Settings
About System Settings

Use the System Settings options to control the service software.

Changing Analyzer settings

The options in this area deal with synchronizing information in the service software with the analyzers.

INSTRUCTIONS

1. Click ⌁ in the top bar to open the System settings dialog box.
2. Under Analyzer, select one or more of the following:
   – Sync date and time: This option controls the date, time, and time zone. The default is Off.
   - Sync date and time should not be On when using middleware.
   – Sync users: This option controls synchronizing users. The default is On.
   – Manage lots: Synchronizes lot information. When On, registered lots on a single analyzer are also synchronized with all analyzers in the same group. QC measurements do not have to be performed on one analyzer only.
   – Warn if not connected for: Set the time frame when a warning message displays if an analyzer is not docked.
3. Do one of the following:
   – Click OK to accept your changes.
   – Click Cancel to close the dialog box without making changes.

Changing Service Software settings

INSTRUCTIONS

1. Click ⌁ in the top bar to open the System settings dialog box.
2. Under Service Software, select one or more of the following:
   – Automatic logout after: Select the inactivity timeout period to automatically log out a user.
   – User active until period increment: Select the user active time frame length.
3. Do one of the following:
   – Click OK to accept your changes.
   – Click Cancel to close the dialog box without making changes.
Chapter 6
Network Connectivity
About Network Connectivity

You must have information from your network administrator about whether the IP address used for the analyzer is a static address or assigned dynamically by a Dynamic Host Configuration Protocol (DHCP) server.

‒ In case of a static address you must have the IP address of the subnet mask and default gateway for the network you plan to use for connections.

‒ You must have an IP address assigned for the analyzer that falls within the IP address range allowed by the network. The IP address must be unique.

‒ You must have the IP address of the service software. See Appendix A, page 32 for installation information.

‒ You must have Administrator rights to configure the analyzer and service software.

You must configure analyzer connectivity on the analyzer before you can transfer data to and from the service software. The service software must be connected to the network you want the analyzer connected to.

You should work with your IT department to ensure proper network configuration settings for procedures in this chapter.

Configuring the Atellica VTLi Immunoassay Analyzer with a static IP address

INSTRUCTIONS
1. If required, log in to the analyzer.
2. On the Home screen, tap > Connectivity Settings> Analyzer LAN Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. To enter the static IP address details, perform the following steps:
   ‒ Select Static.
   ‒ Tap Next.
   ‒ Enter the IP address, using the displayed numeric pad, and then tap Next.
   ‒ Enter the Subnet mask, using the displayed numeric pad, and then tap Next.
   ‒ Enter the default gateway, using the displayed numeric pad, and then tap Next.
6. Do one of the following:
   ‒ Tap OK to restart the analyzer and apply the changes.
   ‒ Tap Cancel to discard the changes.

You can now proceed to the configuration procedure for the service software to complete the configuration.

Configuring the Atellica VTLi Immunoassay Analyzer with a DHCP server

Follow this procedure on the analyzer if your network uses a Dynamic Host Configuration Protocol (DHCP) server.

INSTRUCTIONS
1. If required, log in to the analyzer.
2. On the Home screen, tap > Connectivity Settings> Analyzer LAN Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. Select DHCP.
6. Tap Next.
7. Do one of the following:
   - Tap OK to restart the analyzer and apply the changes.
8. Tap Cancel to discard the changes.

**Configuring Wireless connectivity to an existing network**

**INSTRUCTIONS**
1. If required, log in to the analyzer.
2. On the Home screen, tap > Connectivity Settings> Analyzer WLAN Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. Select On and tap Next.
6. Tap the Wifi network name you want to use and then tap Next.
7. Enter the password and tap Next.
8. Do one of the following:
   - To keep the existing IP address, tap No. Tap Yes on the confirmation screen and then tap Next to return to the Connectivity Settings screen.
   - To change the IP address, tap Yes then tap Next. Continue with step 9.
9. On the Address Type screen, tap DHCP or Static, and then tap Next.
10. For DHCP:
   - Tap OK to restart the analyzer or Cancel to discard the changes and return to the Address Type screen.
11. For Static:
   - Enter the IP address and tap Next.
   - Enter the Subnet Mask and tap Next.
   - Enter the Default gateway and tap Next.
   - Tap OK to restart the analyzer or Cancel to discard the changes and return to the Address Type screen.

**Configuring Wireless connectivity to a new network**

**INSTRUCTIONS**
1. If required, log in to the analyzer.
2. On the Home screen, tap > Connectivity Settings> Analyzer WLAN Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. Select On and tap Next.
6. Tap + Add network and then tap Next.
7. On the Add Network SSID screen, enter the Wifi network name and then tap Next.
8. Tap the security type and then tap Next.
9. Enter the password and tap Next.
10. Follow steps 8-11 in the Configuring Wireless connectivity to an existing network section on this page.
Configuring Service Software connectivity

You perform the following steps on the analyzer to establish a connection between the Atellica VT Li Immunoassay Analyzer and service software.

**INSTRUCTIONS**

1. If required, log in to the system.
2. On the Home screen, tap ➔ Connectivity Settings ➔ Service Software Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. Select Enabled and tap Next.
6. Enter the service software server IP address and tap Next.
7. Tap Next to confirm the connection IP port.
8. Tap Next to confirm the watchdog IP port.
9. Tap OK to confirm the command IP port.
10. Do one of the following:
    - Tap Yes to apply the changes.
    - Tap Cancel to discard the changes.

In most cases, the settings in steps 7–9 should remain unmodified. These settings should only be modified in special configurations (when the ports are not available). When changing these settings on the analyzer, make sure that they are also correctly configured in service software or communication between the analyzer and service software will not be possible.

Configuring middleware software connectivity

Follow the steps below to establish a connection between the Atellica VT Li Immunoassay Analyzer and POCT1-A middleware software.

**INSTRUCTIONS**

1. If required, log in to the analyzer.
2. On the Home screen, tap ➔ Connectivity Settings ➔ Middleware Settings.
3. Tap Change.
4. Read the warning message and tap OK.
5. Select Enabled and tap Next.
6. Enter the middleware server IP address and tap Next.
7. Tap OK to confirm the modified connectivity settings.
8. Do one of the following:
    - Tap Yes to apply the changes.
    - Tap Cancel to discard the changes.
APPENDIX A
Specifications and Installation
Appendix A - Specifications and Installation

Service Software Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Microsoft Windows 10, or Windows Server 2012</td>
</tr>
<tr>
<td>RAM</td>
<td>4GB minimum</td>
</tr>
<tr>
<td>Free disk space</td>
<td>100GB minimum</td>
</tr>
<tr>
<td>Drive</td>
<td>USB</td>
</tr>
<tr>
<td>Network connection</td>
<td>LAN or Wifi</td>
</tr>
<tr>
<td>Monitor</td>
<td>Color monitor with 1280x960 resolution minimum</td>
</tr>
<tr>
<td>Processor</td>
<td>2.6 GHz, 32-bit (x86) or 64-bit (x64) minimum</td>
</tr>
<tr>
<td>Accessories</td>
<td>Mouse and keyboard</td>
</tr>
</tbody>
</table>

Installation Workflow

Initial Atellica Analyzer VT Li service software installation is done by a Siemens Healthineers service engineer. The information provided here is for reference only and should only be changed after consulting with both your IT and Siemens Healthineers technical representatives.

⚠️ Use a fixed IP address for the Atellica VT Li Service Software.

Installing the server

1. Double click ssw-service-1.0.0.msi and follow the on-screen steps.
   - By default the software is installed in C:\Program Files (x86)\Siemens Healthcare Diagnostics\Atellica VT Li Service Software Server 2.0

Generate new certificate with additional SANs (Optional)

The client can reach the server by its hostname (and localhost when client is installed on the same host). During installation a certificate is being generated bound to this hostname. When this machine should be reached through an alternative name, a new certificate is needed. This certificate is being extended with one or more SAN(s) (Subject Alternative Names).

INSTRUCTIONS

The following steps describe the process of adding one or more SANs.

1. Open a command prompt with administrator privileges in the following directory: C:\Program Files (x86)\Siemens Healthcare Diagnostics\Atellica VT Li Service Software Server 2.0
2. Enter the command:
   certgen -d <alternativename> <alternativename>
   where <alternativename> can be any name (i.e. a FQDN) through which this host can be reached. Multiple alternative names are allowed.
   As a result a new certificate is generated, registered and exported into the %PROGRAMDATA%\Siemens Healthcare Diagnostics\Atellica VT Li Service Software Client\Certificates’ folder.
3. Copy the exported certificate to the %PROGRAMDATA%\Siemens Healthcare Diagnostics\Atellica VT Li Service Software Server\redist’ folder for ease of distribution along with the client installer.
Deploy client certificates manually (Optional)
You might to do this in the following situations:
- Exported certificate needs to be deployed to an already installed client.
- IT department has a deployment strategy for deploying trusted certificates.
The certificate must be deployed in following certificate stores on the client:
- Local Computer\Personal\Certificates
- Local Computer\Trusted Root Certification Authorities\Certificates

Installing the client
During installation of the server, a special folder ("%PROGRAMDATA%\Atellica\VTLi Service Software Server\redist") is created. All files needed for client installation are placed in this folder.
When the client installer needs to be moved, be sure to move the ServiceURL.txt and *.cer files along with it. If these files are available the following actions take place during client installation:
- ServiceURL.txt: When the client is installed (and no client settings have remained from a previous installation) the service URL is being set correctly. This will prefill the correct ‘Server’ field upon client startup.
- *.cer. All available certificates will be registered into the necessary certificate stores on the client. Normally a single certificate should exist.

INSTRUCTIONS
1. Double click ssw-client-2.0.0.msi, located within the redist directory (created during Server install) and follow the on-screen steps.
- By default the software is installed in ‘C:\Program Files (x86)\Siemens Healthcare Diagnostics\Atellica VTLi Service Software Server 2.0

Uninstalling the Service Software Client/Server

INSTRUCTIONS
1. Go to the Control Panel> Programs and Features.
2. Select the VTLi Service Software Client entry and click the Uninstall button.
3. Go to the Control Panel> Programs and Features.
4. Select the VTLi Service Software Server entry and click the Uninstall button.
APPENDIX B
Error Codes
### Appendix B - Error Codes

#### Listing of Error Codes

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<tr>
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<th>Description</th>
</tr>
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<td>150</td>
<td>Unexpected failure during test. Test failed.</td>
</tr>
<tr>
<td>350</td>
<td>Cartridge protocol invalid.</td>
</tr>
<tr>
<td>450</td>
<td>Analyzer cover not closed in time.</td>
</tr>
<tr>
<td>455</td>
<td>Cartridge use expired.</td>
</tr>
<tr>
<td>451</td>
<td>Temperature controller error.</td>
</tr>
<tr>
<td>452</td>
<td>Sample detector error.</td>
</tr>
<tr>
<td>453</td>
<td>Cartridge reader error.</td>
</tr>
<tr>
<td>454</td>
<td>Cartridge not recognized.</td>
</tr>
<tr>
<td>550</td>
<td>Unexpected failure during test. Test failed.</td>
</tr>
<tr>
<td>551</td>
<td>Analyzer cover opened during test. Test aborted.</td>
</tr>
<tr>
<td>552</td>
<td>Unexpected failure during test. Test failed.</td>
</tr>
<tr>
<td>553</td>
<td>Unexpected failure during test. Test failed.</td>
</tr>
<tr>
<td>554</td>
<td>Cartridge moved during sample addition or closing of cartridge lid.</td>
</tr>
<tr>
<td>555</td>
<td>Cartridge moved during closing of cartridge lid.</td>
</tr>
<tr>
<td>556</td>
<td>Cartridge moved during test. Test aborted.</td>
</tr>
<tr>
<td>557</td>
<td>Cartridge removed during test. Test aborted.</td>
</tr>
<tr>
<td>558</td>
<td>Insufficient sample or a blockage in cartridge.</td>
</tr>
<tr>
<td>559</td>
<td>No result available (data processing failed).</td>
</tr>
<tr>
<td>560</td>
<td>No result available (temperature (°C) out of range).</td>
</tr>
<tr>
<td>561 - 562</td>
<td>Detection error.</td>
</tr>
<tr>
<td>563</td>
<td>Cartridge hardware error.</td>
</tr>
<tr>
<td>564</td>
<td>Power button error.</td>
</tr>
<tr>
<td>565</td>
<td>Cover detector error.</td>
</tr>
<tr>
<td>566</td>
<td>Docking station connection error.</td>
</tr>
<tr>
<td>567</td>
<td>Battery or charging hardware error.</td>
</tr>
<tr>
<td>568</td>
<td>Cartridge error.</td>
</tr>
<tr>
<td>569</td>
<td>Cartridge moved during test. Test aborted.</td>
</tr>
<tr>
<td>570</td>
<td>Too much movement or analyzer not horizontal. Test failed.</td>
</tr>
<tr>
<td>571</td>
<td>Tilt sensor error.</td>
</tr>
<tr>
<td>572</td>
<td>QC result is out of range.</td>
</tr>
<tr>
<td>573</td>
<td>Test performance deviation detected. Test failed.</td>
</tr>
<tr>
<td>576</td>
<td>Detection error.</td>
</tr>
<tr>
<td>577</td>
<td>Test performance deviation detected. Test failed.</td>
</tr>
<tr>
<td>Error Number</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>578</td>
<td>Display hardware error.</td>
</tr>
<tr>
<td>579</td>
<td>Cartridge error.</td>
</tr>
<tr>
<td>650</td>
<td>Result calculation failed. Test failed.</td>
</tr>
<tr>
<td>651 - 657</td>
<td>Invalid result.</td>
</tr>
<tr>
<td>950</td>
<td>Analyzer stopped working.</td>
</tr>
<tr>
<td>951 - 952</td>
<td>Service access failure.</td>
</tr>
</tbody>
</table>

**General Errors**

<table>
<thead>
<tr>
<th>Error Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 - 1017</td>
<td>Analyzer problem.</td>
</tr>
<tr>
<td>1200</td>
<td>Analyzer problem.</td>
</tr>
<tr>
<td>1202</td>
<td>Cartridge not removed or inserted too early.</td>
</tr>
<tr>
<td>1203</td>
<td>Analyzer not horizontal during self-test.</td>
</tr>
<tr>
<td>1400 - 1401</td>
<td>System update failed.</td>
</tr>
<tr>
<td>1402</td>
<td>User should first charge battery.</td>
</tr>
<tr>
<td>1600</td>
<td>Battery not charged in time.</td>
</tr>
<tr>
<td>1601</td>
<td>Incompatible RFId.</td>
</tr>
<tr>
<td>1602</td>
<td>RFID incorrectly programmed.</td>
</tr>
<tr>
<td>1603</td>
<td>No RFId detected /More than one RFId present.</td>
</tr>
<tr>
<td>1604</td>
<td>Expired cartridge used.</td>
</tr>
<tr>
<td>1605</td>
<td>Cartridge already used.</td>
</tr>
<tr>
<td>1606</td>
<td>RFId incorrectly programmed.</td>
</tr>
<tr>
<td>1607</td>
<td>Incorrect cartridge type tested.</td>
</tr>
<tr>
<td>1608</td>
<td>System failure.</td>
</tr>
<tr>
<td>1609</td>
<td>Sample added too early.</td>
</tr>
<tr>
<td>1610</td>
<td>Cartridge failure.</td>
</tr>
<tr>
<td>1611</td>
<td>User removed cartridge during test</td>
</tr>
<tr>
<td>1612</td>
<td>Battery not charged in time.</td>
</tr>
<tr>
<td>1613</td>
<td>Cartridge failure.</td>
</tr>
<tr>
<td>1614</td>
<td>Initial cartridge insertion not correct.</td>
</tr>
<tr>
<td>1615</td>
<td>Cartridge lot not released for testing.</td>
</tr>
<tr>
<td>1616</td>
<td>Failed QC locked analyzer.</td>
</tr>
<tr>
<td>1617</td>
<td>QC not tested in time.</td>
</tr>
<tr>
<td>1618</td>
<td>Incorrect cartridge lot tested.</td>
</tr>
<tr>
<td>Error Number</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>1619</td>
<td>Wrong QC menu option chosen.</td>
</tr>
<tr>
<td>1800</td>
<td>Sample not added in time.</td>
</tr>
<tr>
<td>1801</td>
<td>Sample added too early.</td>
</tr>
<tr>
<td>1802</td>
<td>Analyzer cap not closed in time.</td>
</tr>
<tr>
<td>1803</td>
<td>RFID incorrectly programmed.</td>
</tr>
<tr>
<td>1804</td>
<td>Sample added too early.</td>
</tr>
<tr>
<td>2000</td>
<td>Analyzer cap opened during test.</td>
</tr>
<tr>
<td>2001 - 2002</td>
<td>Cartridge failure or handling error.</td>
</tr>
<tr>
<td>2003</td>
<td>Cartridge moved during measurement.</td>
</tr>
<tr>
<td>2004</td>
<td>Cartridge failure or handling error.</td>
</tr>
<tr>
<td>2005</td>
<td>Non filling cartridge/ Not enough sample.</td>
</tr>
<tr>
<td>2008</td>
<td>Temperature out of range.</td>
</tr>
<tr>
<td>2009</td>
<td>Cartridge failure or handling error.</td>
</tr>
<tr>
<td>2010</td>
<td>Cartridge moved during measurement.</td>
</tr>
<tr>
<td>2011</td>
<td>Analyzer tilted out of range during test.</td>
</tr>
<tr>
<td>2012</td>
<td>Analyzer problem.</td>
</tr>
<tr>
<td>2015</td>
<td>Analyzer problem.</td>
</tr>
<tr>
<td>2016 - 2017</td>
<td>Cartridge error.</td>
</tr>
<tr>
<td>2200</td>
<td>Result is invalid.</td>
</tr>
<tr>
<td>2700</td>
<td>Analyzer not docked when requested.</td>
</tr>
<tr>
<td>4001 - 4002</td>
<td>Incompatible barcode scanned</td>
</tr>
<tr>
<td>4051</td>
<td>No users have been send by SSW or MW.</td>
</tr>
<tr>
<td>4052</td>
<td>Invalid access code.</td>
</tr>
<tr>
<td>4053</td>
<td>Account not activated in SSW or MW.</td>
</tr>
<tr>
<td>4054</td>
<td>Expiration data in SSW or MW past.</td>
</tr>
<tr>
<td>4055</td>
<td>Training overdue in MW.</td>
</tr>
<tr>
<td>4056</td>
<td>Wrong password used.</td>
</tr>
<tr>
<td>4057</td>
<td>Wrong user permission.</td>
</tr>
<tr>
<td>4103 - 4104</td>
<td>Incompatible barcode scanned.</td>
</tr>
<tr>
<td>4105 - 4106</td>
<td>Incorrect QC sample.</td>
</tr>
<tr>
<td>4107 - 4108</td>
<td>System failure.</td>
</tr>
<tr>
<td>4109</td>
<td>Expired QC sample.</td>
</tr>
<tr>
<td>4110</td>
<td>Unknown QC lot.</td>
</tr>
<tr>
<td>4111</td>
<td>Incompatible barcode scanned.</td>
</tr>
</tbody>
</table>
### General Errors

<table>
<thead>
<tr>
<th>Error Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4112 - 4114</td>
<td>Incorrect QC sample.</td>
</tr>
<tr>
<td>9000</td>
<td>Fatal system problem.</td>
</tr>
<tr>
<td>9001 - 9003</td>
<td>System failure.</td>
</tr>
<tr>
<td>9004</td>
<td>Analyzer problem.</td>
</tr>
<tr>
<td>9005</td>
<td>Anonimise function used in SSW. Analyzer needs service.</td>
</tr>
<tr>
<td>9006</td>
<td>System failure.</td>
</tr>
<tr>
<td>9007</td>
<td>Direct Access timer is past due.</td>
</tr>
<tr>
<td>9910</td>
<td>I2c error.</td>
</tr>
<tr>
<td>9920</td>
<td>Cover detection error.</td>
</tr>
<tr>
<td>9930</td>
<td>Too high ambient temp. Too many measurements in sequence.</td>
</tr>
</tbody>
</table>

### Communication Errors

<table>
<thead>
<tr>
<th>Error Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1201</td>
<td>Connectivity error.</td>
</tr>
<tr>
<td>2400</td>
<td>Connectivity error.</td>
</tr>
<tr>
<td>2600</td>
<td>Network error.</td>
</tr>
<tr>
<td>2650</td>
<td>Network error.</td>
</tr>
<tr>
<td>2699</td>
<td>Network error.</td>
</tr>
<tr>
<td>4150 - 4153</td>
<td>HHA configuration changes in network settings.</td>
</tr>
<tr>
<td>4154 - 4157</td>
<td>HHA SSW configuration changes in settings.</td>
</tr>
<tr>
<td>9900</td>
<td>Connectivity error.</td>
</tr>
</tbody>
</table>
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