



# epoc<sup>®</sup> Blood Analysis System with NXS Host

Administrator Guide



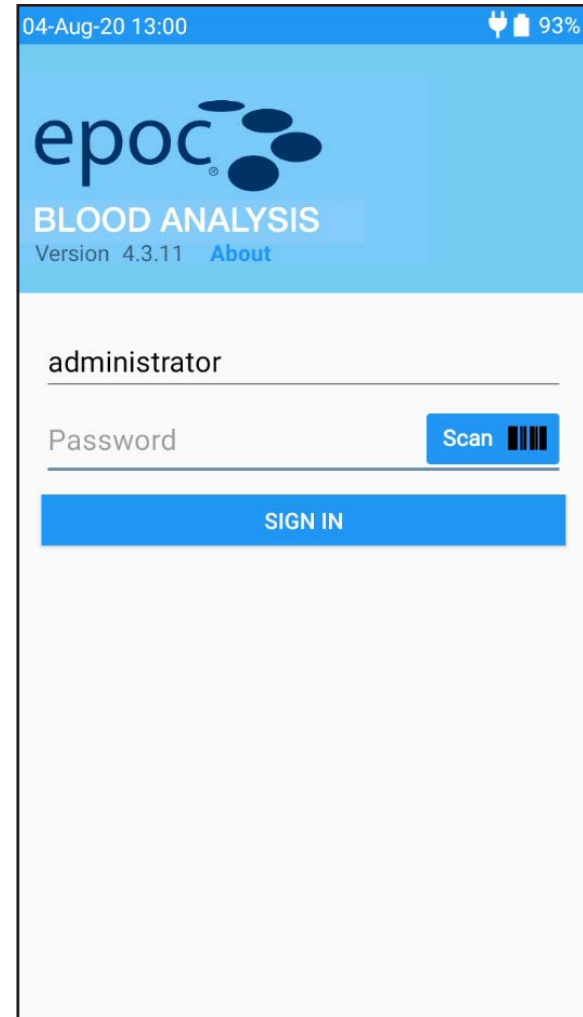
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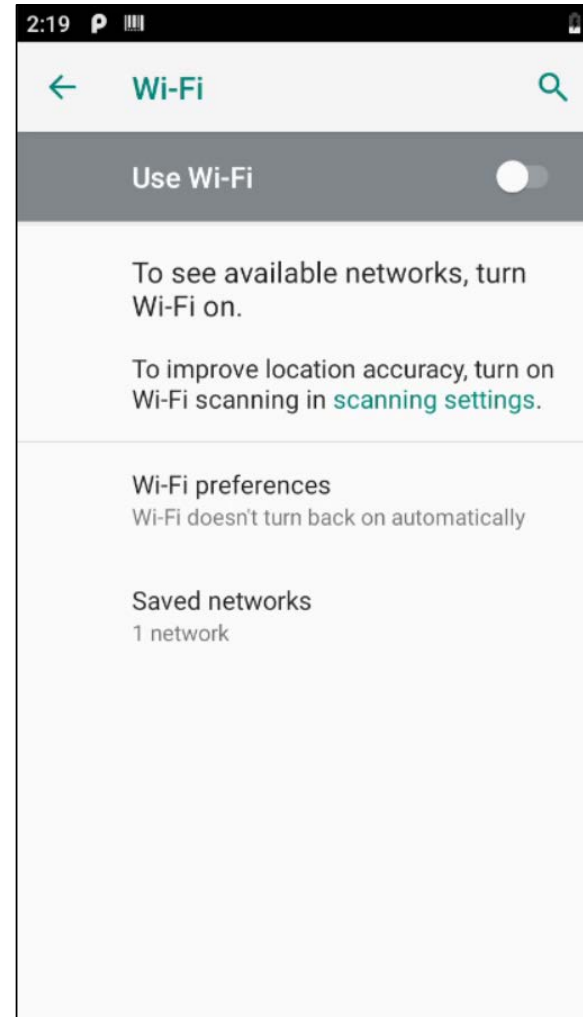
# Initial Setup

1. Reference the **epoc® with NXS Host Quick Start Guide** (found in original packaging) to perform the initial setup for the Host
  - Powering on the Host
  - Logging in as an administrator
  - Connecting the Host to Wi-Fi
  - Connecting the Host to a Data Manager (if present)
2. If connecting to a Data Manager, the initial setup can be performed in the Data Manager and synced to all Hosts. If NOT connecting to a Data Manager, initial setup must be repeated for all Hosts.



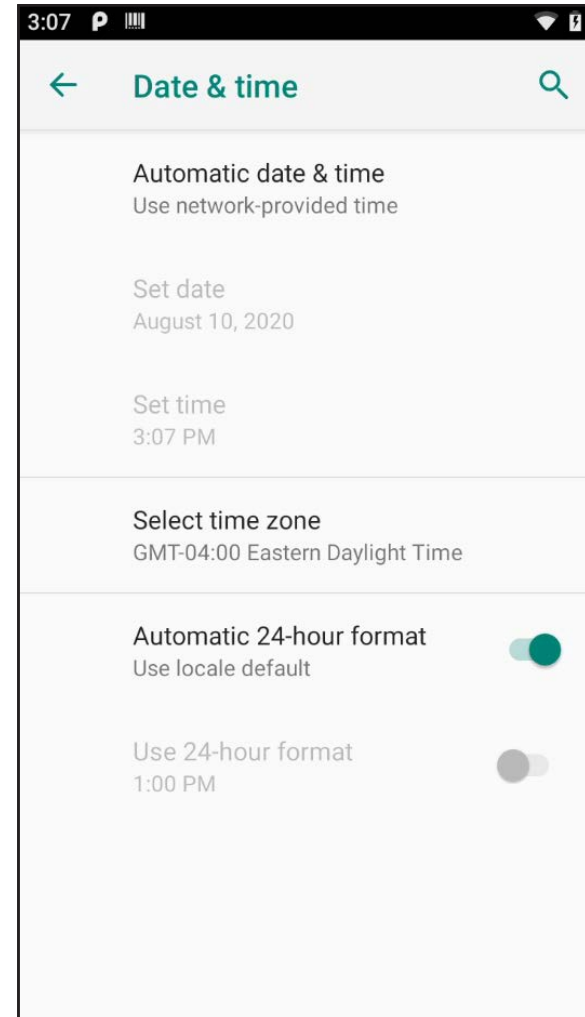
# Wi-Fi Settings

1. Use the toggle on the right side of the Host screen to enable **Use Wi-Fi**
2. For networks that broadcast their SSID: Find your network on the list and select it. Enter the required network security information and password provided by your facility's Information Technology department, then select **CONNECT**.
3. For networks that DO NOT broadcast their SSID: Scroll down to the end of the list and select **Add network**. Enter the required network security information as provided by your facility's Information Technology department, then select **SAVE**.



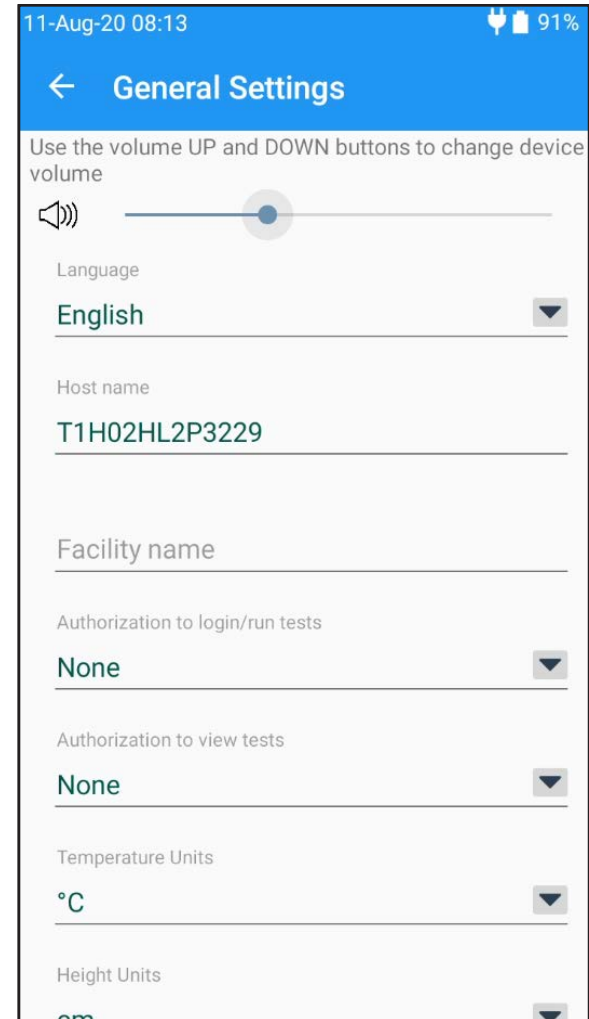
# Set Date/Time

1. Select **Automatic date & time**, **Use GPS-provided time**, or **Off** to choose automatic or manual time setting.
2. Select **Set date** and **Set time** if setting manually.
3. Use **Select time zone** to choose correct region and time zone.
4. Use the toggle on the right side of the Host screen to enable or disable **Automatic 24-hour format**, and **Use 24-hour format** for automatic or manual time setting.



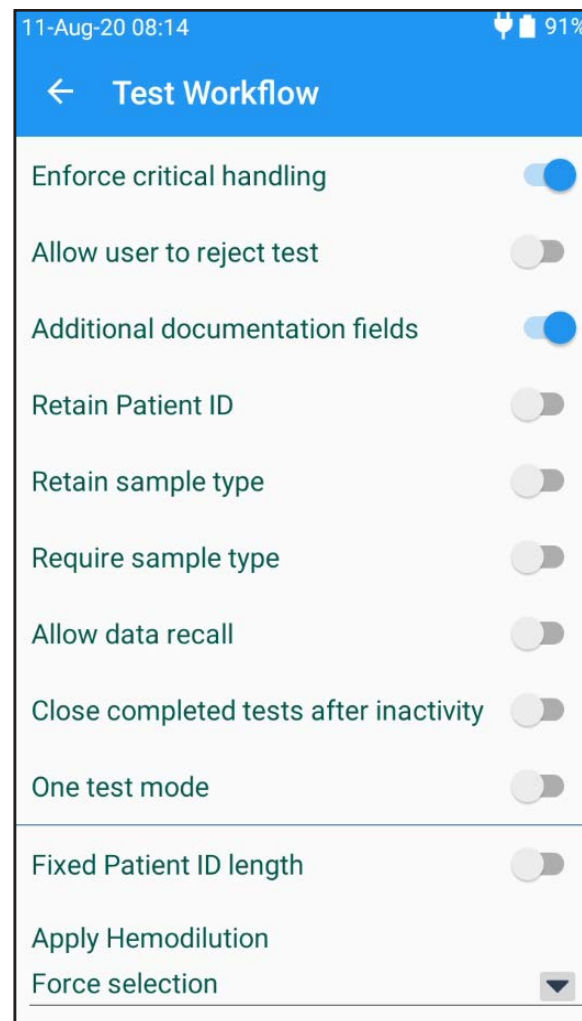
# General Settings

1. Select **Language** to choose the language displayed on the Host
2. **Host name:** Input desired Host name
3. **Facility Name:** Input desired facility name
4. **Authorization to login/run tests** and **Authorization to view tests:** Choose the requirements when logging into the Host and for viewing tests. ID and password is recommended for multiple user environments.
5. **Temperature Units:** Select Fahrenheit (°F) or Celsius (°C)
6. **Height Units:** Select inches or centimeters (cm)
7. **Allow expired Test Cards:** Training purposes only (results will not be shown)
8. **Save raw data:** When enabled, diagnostic data will be saved for all or failed tests only. Data saved is retrieved by Epocal authorized personnel only.
9. **Log out after inactivity?:** Toggle on to enable automatic log out
10. **Automatic logout timer:** Select number of minutes before logout
11. **Delete blood tests:** Select when blood test results will be deleted from the Host



# Test Workflow

1. **Enforce critical handling:** When enabled, the button REPORT CRITICAL RESULTS will display on the top of the screen when a critical result is generated.
2. **Allow user to reject test:** When enabled, displays a button above test results allowing users to mark a test as “rejected”
3. **Additional documentation fields:** When enabled, extra fields for recording additional test information will be available during blood testing
4. **Retain Patient ID:** When enabled, the Host will automatically recall the Patient ID from the previously run test.
5. **Retain sample type:** When enabled, the Host will automatically recall the Sample Type selection from the previously run test.
6. **Require sample type:** enforces sample type selection before displaying results
7. **Allow data recall:** When enabled, the Host retains all the information entered from the previous test if the previous test failed

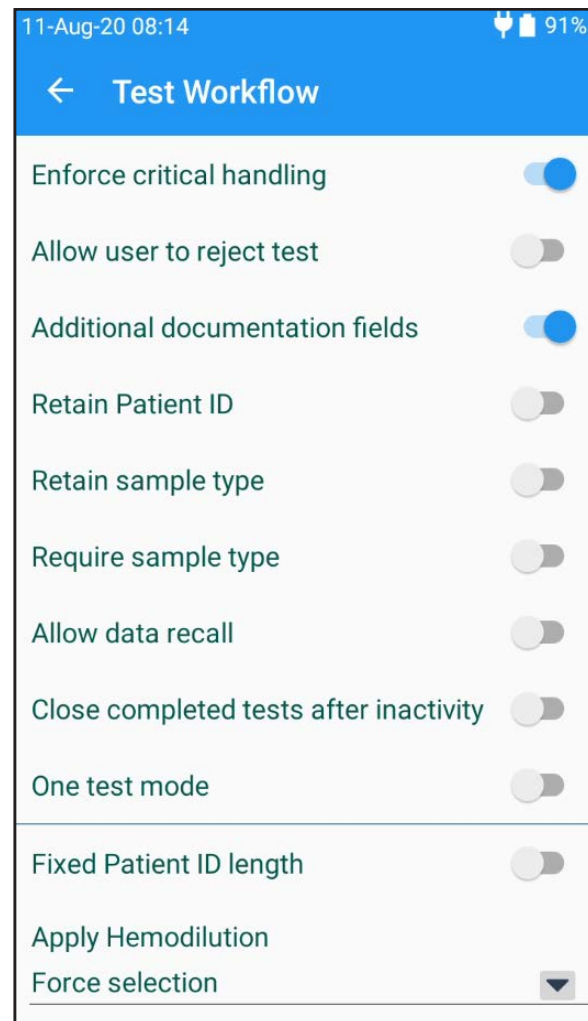


# Test Workflow

8. **Close completed tests after inactivity:** When enabled, the Host will automatically disconnect from epoc Reader and close the test after a set period of inactivity when a successful test has been completed. This allows for automatic synchronization with data managers if applicable.
9. **One test mode:** When enabled, the Host will automatically synchronize and logout after closing a test
10. **Fixed Patient ID length:** When enabled, a fixed length for the Patient ID field can be set
11. **Apply Hemodilution:** Use the ability to apply Hemodilution to correct hematocrit results for the amount of hemodilution in a patient sample.
12. **Select Sample Types:** Enable sample types from the list of supported sample types

**Note:**

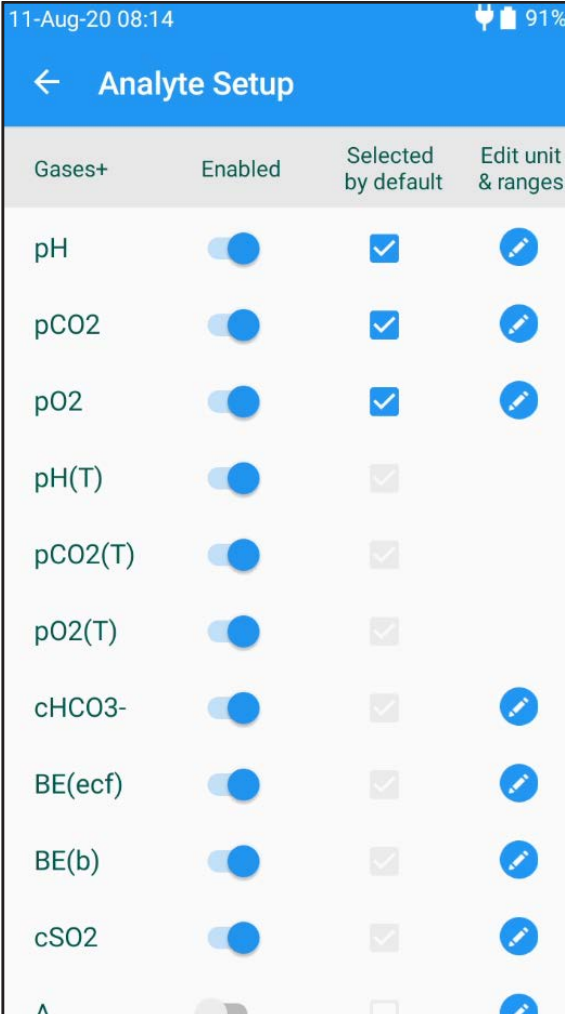
Hemodilution is used to correct hematocrit results for patients undergoing cardiopulmonary bypass, ECMO, or patients receiving large amounts of IV fluids. Please see section 12.15 in the epoc System Manual with epoc NXS Host for more information.





# Analyte Setup

1. Use the **Enabled** column to toggle the analyte selection as enabled or disabled
2. Use the **Selected by default** column to select the check box to enable the default ordering of an analyte for sample processing
3. Use the **Edit unit & ranges** column to edit the reportable range for an analyte as well as the critical and reference ranges by sample type. Select **COPY RANGES TO** to copy ranges to other sample types.

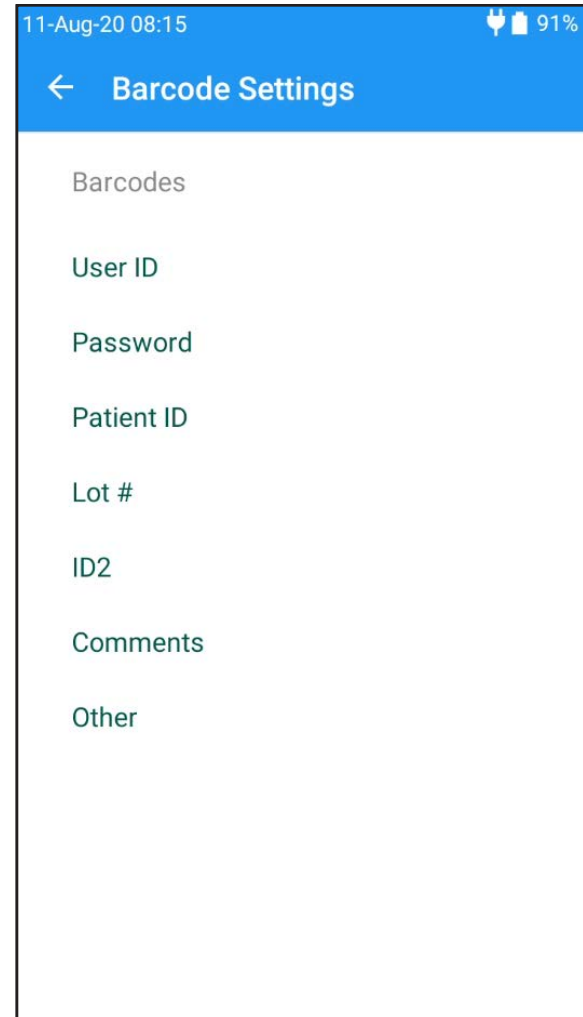


The screenshot shows the 'Analyte Setup' screen on a mobile device. The status bar at the top indicates the date and time as '11-Aug-20 08:14' and the battery level as '91%'. The screen title is 'Analyte Setup'. Below the title is a table with four columns: 'Gases+', 'Enabled', 'Selected by default', and 'Edit unit & ranges'. The table lists several analytes with their corresponding settings.


Gases+	Enabled	Selected by default	Edit unit & ranges
pH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
pCO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
pO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
pH(T)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
pCO2(T)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
pO2(T)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
cHCO3-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BE(ecf)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BE(b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
cSO2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

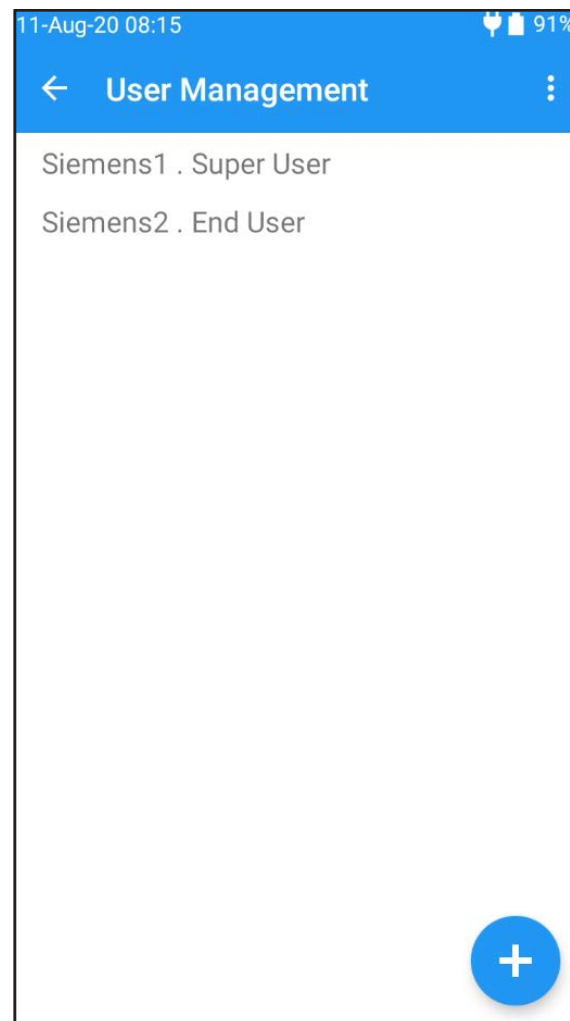
# Barcode Settings

1. Select **User ID, Password, Patient ID, Lot #, ID2, Comments, or Other**
2. Select **1D barcode symbologies** or **2D barcode symbologies**
3. Enter the desired number of digits to crop from the beginning or end of the specified barcode (optional)
4. Select which barcode types to enable by using the toggle on the right side of the Host screen



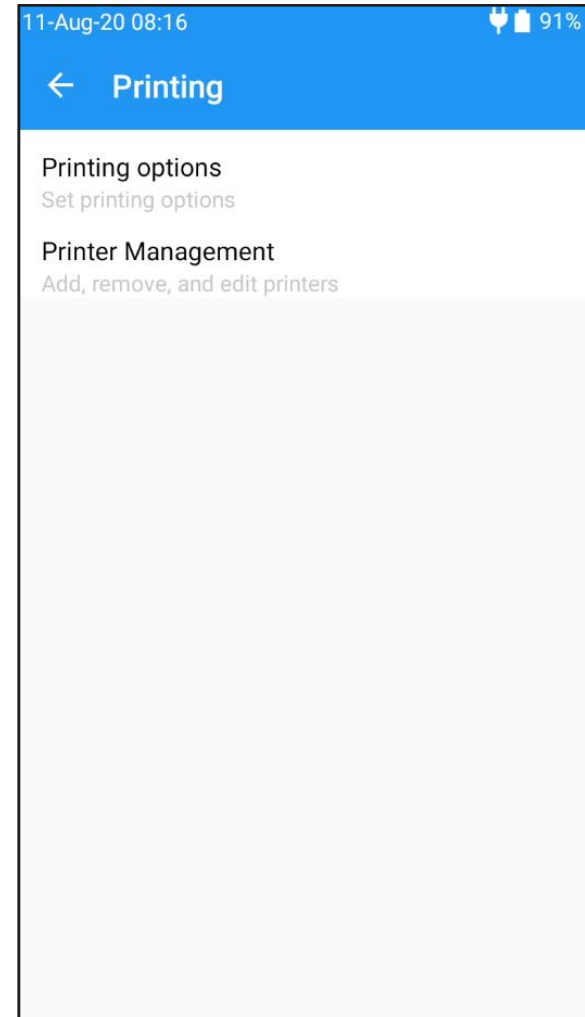
# User Management

1. Select  to add a new user
2. Enter User ID, User name and Password manually or select **Scan** to use a barcode
3. Use the toggle on the right side of the Host screen to enable the user
4. Use the toggle on the right side of the Host screen to allow the user to perform QA testing
5. Use the toggle on the right side of the Host screen to allow the user to perform Host software updates
6. Select the expiration date to set when the user account will expire
7. Select **SAVE**



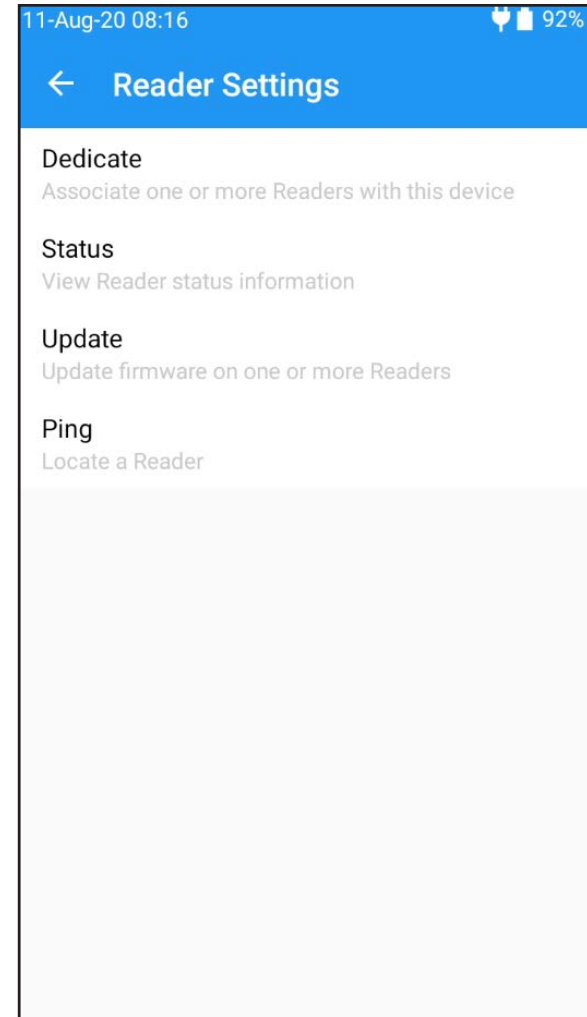
# Printing

1. Select **Printing options** to use the toggle on the right side of the Host screen to enable or disable print calculated results, print corrected results, print test info, print ranges only if low/high, print QA ranges, and print QA info.
2. Select **Printer Management**
3. Select **+** to add a printer
4. Select the field for **Printer name**. Select **Scan** or enter printer name manually
5. Select the field for **Address**. Select **Scan** or enter printer address manually
6. Select the drop down arrow for **Printer type**. Select **Martel LLP1880B-391** or **Other**



# Reader Settings

1. Select **Dedicate** to associate one or more Readers with the Host. This will enable an automatic connection between the Host and Reader after signing in to the Host when the Reader is on and within range.
2. Select **Status** to display information about the Reader on the Host
3. Select **Update** to update Reader(s) firmware
4. Select **Ping** to have the Reader generate an audible beep 5 times



# QA Schedules

QA Schedules can be configured to require a certain number of QC fluid levels or specific QC fluid levels to help meet the compliance requirements of your institution.

1. Select the drop down arrow for **Schedule type**. Select the QA option you would like to set a schedule for.
2. Select the drop down arrow for **Verification type**. Select **Lock** or **Ask**.
3. Select the drop down arrow for **Frequency**. Select **Fixed**, **Weekly**, **Monthly**, or **Bi-annual**.
4. Only if setting the Frequency to Fixed, select the drop down arrow for **Schedule time period**. Select **Hours**, **Days**, or **Weeks**. Enter the Schedule time period.
5. Only if setting the Frequency to Fixed, select the drop down arrow for **Warning period**. Select **Hours**, **Days**, or **Weeks**. Enter the Warning period
6. Only if setting the Verification type to Lock, select the drop down arrow for **Grace period**. Select **Hours**, **Days**, or **Weeks**. Enter the Grace period.

**Note:**

The schedule types Quality Control and Calibration Verification require the latest eVAD file installed on the epoc NXS Host. These options are not shown when eVAD is not present.

11-Aug-20 08:17 92%

← QA Schedules

Schedule type  
Electronic QC

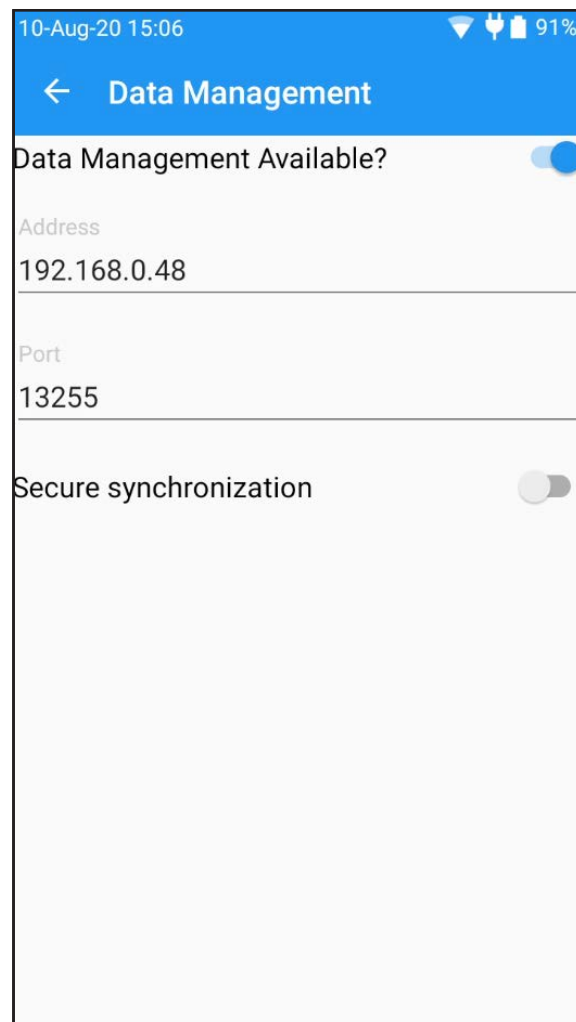
Verification type  
Lock

Frequency  
Fixed

Schedule time period  
8 Hours

# Data Management

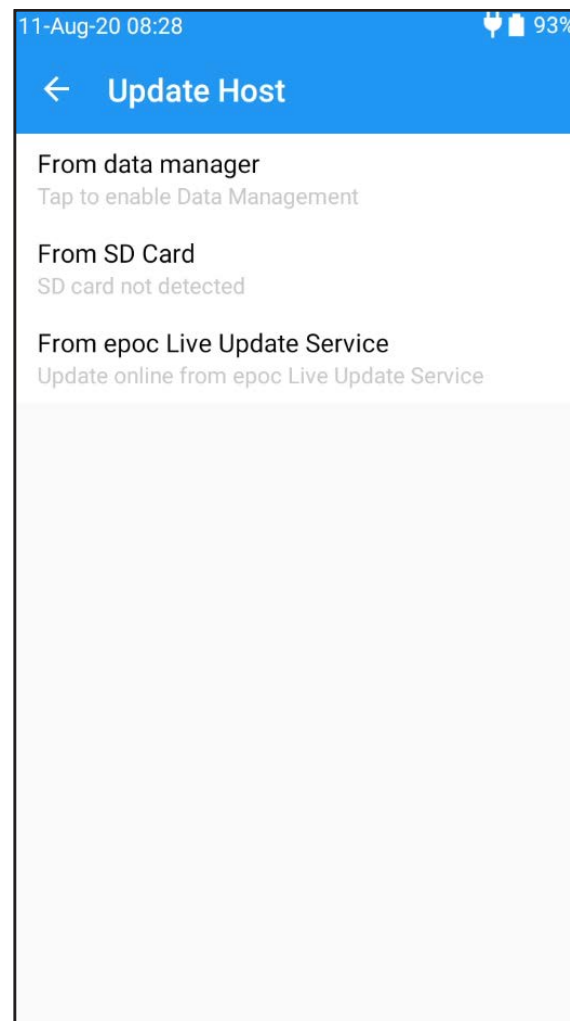
1. Use the toggle on the right side of the Host screen to enable **Data Management Available?**
2. Select the field **Address**. Select **Scan** or enter the Bluetooth or WiFi address of the data manager manually. The IP address must be set using the XXX.XXX.XXX.XXX format, each of the four XXX numbers ranging between 0 and 255
3. Select the field **Port**. Select **Scan** or enter the Port number of the data manager. The port number value must be between 1 and 65535
4. Select the toggle to right of the Host screen to enable **Secure synchronization**. This is available only when Transport Layer Security (TLS) is enabled on the data manager server.



# Update Host

epoc System software updates are required periodically. System software is delivered via an “upgrade” file. The System Administrator or ordinary user authorized to upgrade Host must be signed in to perform upgrades. Use one of the options listed below to download a new upgrade file

1. **From data manager:** When using a data manager to upgrade, the Data Management Available? must be set to “Yes”.
2. **From SD Card:** Access the SD Card slot on the side of the epoc NXS Host. Simply insert the SD Card (containing the correct upgrade file) into the SD Slot.
3. **From epoc Live Update Service:** When using the Live Update Service to upgrade, the Data Management Available? must be set to “No” and the NXS Host must be connected to a wireless network.





# Software and eVAD Updates

Siemens Healthineers releases updated **epoc System software and electronic Value Assignment Datasheets (eVADs)** several times per year. An eVAD file is a single file stored on the epoc Host that contains all current ranges and expiration dates for all valid quality control (QC) fluids, calibration verification (CV) fluids, and sensor configuration versions.

## Third Party Data Mangers

Consult your Data Manager provider for instructions for performing firmware upgrades to configured Point of Care devices. Software upgrade and eVAD update files for the epoc Host are available from Siemens Document Library.

## Siemens Healthineers Data Managers (POCcelerator™, UniPOC™)

Users that employ UniPOC or POCcelerator as a data management option will require assistance from Siemens to update both the **epoc System software and eVADs**. Additional information can be found in the **POCcelerator™ Configuration Manual for epoc Reader/Host** and **UniPOC™ Configuration Guide for epoc Reader/Host**, available from Siemens Document Library.

## No Data Manager Present

Follow the instructions found in section 7.19 of the epoc System Manual with epoc NXS Host, available from Siemens Document Library, to perform software upgrades and eVAD updates using the epoc Live Update Service or using an SD Card.

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