

Medtronic

Reveal LINQ Mobile Manager Online Help

Instructions for Use

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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CareLink, Medtronic, Quick Look, Reveal LINQ

1 Configuration

1.1 About Reveal LINQ Mobile Manager

Device Description

The Reveal LINQ™ Mobile Manager application (called the “app” from now on) is installed on a tablet with Internet access and is the software of the Reveal LINQ™ Mobile Manager system. The app communicates with the Medtronic 24965 Patient Connector or the Medtronic 24967 Patient Connector¹ (called the “patient connector” from now on) to program, interrogate, and transmit stored Reveal LINQ™ Insertable Cardiac Monitor (ICM) data to Medtronic’s proprietary CareLink™ Network for generating reports and to facilitate patient enrollment in the CareLink™ Network. The app should be used by healthcare professionals only in a clinical or hospital environment.

Intended Use

The Reveal LINQ™ Mobile Manager app is intended for programming and interrogating the Reveal LINQ™ Insertable Cardiac Monitor.

Contraindications

There are no known contraindications.

Electronic instructions for use/manuals

To view, download, print, or order manuals for this product, go to www.medtronic.com/manuals, or contact a Medtronic representative.

Software requirements

Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

Paper manuals

Paper manuals are available to customers free of charge. They should arrive in 3 - 7 days. To order, go to www.medtronic.com/manuals, or contact a Medtronic representative.






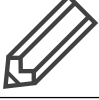
Applicable Model Numbers

MSW001



MSW002

Tap **Menu > ABOUT** to determine the model number for your app. All model numbers may not be available in your geography.

Symbols

	For US audiences only
	Patient Information icon
	Contextual Help icon
	Menu icon
	Remove button
	Add/Edit Alias icon

¹ All model numbers may not be available in your geography.

	Unauthenticated icon
	Authenticated icon

1.2 IT Network, Tablet, and Data Information

Required IT network characteristics and configuration

The use of this system requires your network to have Internet access for the following purposes:

- Install and update the app from the app store.
- Communicate with the CareLink™ Network.
- Complete authentication for patient enrollment and device registration.

The use of this system also requires that Bluetooth® is enabled on your tablet.²

Failure to provide IT network access results in the following effects:

- Installation and updates to the app cannot be completed if the tablet is unable to access the app store.
- The app is unauthenticated. Patient enrollment and device registration cannot be completed through the app.
- Comprehensive review of the Reveal LINQ™ ICM data and facilitation of patient enrollment in the CareLink™ Network cannot be completed if the app is unable to access the CareLink™ Network.
- The system cannot communicate with the implantable device if the tablet is unable to establish a Bluetooth connection with the patient connector.

Follow your organization's processes and policies to configure your network.

Supported tablets and technical specifications

For the list of supported tablets, and their specifications including network connectivity specifications, go to the following website:

www.medtronic.com/24965

Precautions when connecting to your IT network

Connecting the app to an IT network that includes other equipment could result in unforeseen risks to patients, operators, or third parties. Changes to your IT network could also introduce additional risks. Analyze, evaluate and control any risks identified.

Intended information flows

Reveal LINQ™ ICM data and system logs are sent for processing through the system components in the following sequential order:

1. Reveal LINQ™ ICM
2. Patient Connector
3. App installed on the tablet
4. Internet
5. CareLink™ Network

In response, a confirmation receipt is sent from the CareLink™ Network via the Internet to the app.

PDF report requests are sent from the app via the Internet to the CareLink™ Network. In response, the CareLink™ Network sends the PDF report via the Internet to the app.

The CareLink™ Clinic search criteria are sent from the app via the Internet to the CareLink™ Network. In response, the corresponding CareLink™ Clinic's details are sent by the CareLink™ Network via the Internet to the app.

All information in transit is protected for security.

1.3 Security

Data in the app is protected by application level encryption. The app does not provide data protection for data exported from it to another destination. Data exported from the app should be handled in accordance with your clinic's security policy for data handling and storage.

To help protect patient health information and to prevent unauthorized programming of the Reveal LINQ™ ICM, security measures for your tablet should include the following items:

² The Bluetooth® word mark is a registered trademark of Bluetooth SIG, Inc. and any use of this mark by Medtronic is under license.

- Implement a passcode and PIN to protect the tablet.
- Ensure that the tablet is installed with the latest operating system version that is compatible with the app. For the latest operating system version information, see Section 1.2, “IT Network, Tablet, and Data Information”, page 4.
- Enable Background App Refresh on the tablet so that the tablet can receive the latest available app version without a delay.
- Only use the app and the patient connector on a managed, trusted, and secured network.
- The app should be used by healthcare professionals only in a hospital or clinical environment. Monitor all user interactions with the tablet.

2 Setting Up the App

2.1 Pairing the Patient Connector

During the procedure, you may be asked to enter the model number, security code, or serial number of the patient connector. This information is found on the back of the patient connector. You can also refer to the instructions for use provided with the patient connector for help in locating this information.

1. Ensure that Bluetooth® is enabled on your tablet. For most tablets, tap **Settings > Bluetooth** to enable it.
2. Ensure that your tablet is connected to the Internet.
3. Open the app.
4. On the **Reveal LINQ MOBILE MANAGER** screen, tap **CONTINUE**.
5. Press the button on the patient connector you are using to turn it on.

The Bluetooth light on the patient connector first flashes when Bluetooth is discoverable, and then turns solid when the Bluetooth connection is established.

6. When prompted by the app, enter the patient connector model number you are using and tap **CONTINUE**.
7. When prompted, select the patient connector you are using from the list.
8. When prompted, enter the security key code and tap **CONTINUE**.
9. If you are prompted by the tablet to accept a Bluetooth Pairing Request, confirm that the serial number in the request matches the serial number on the back of the patient connector.
 - Decline the request if the serial number does not match the serial number on the back of the patient connector.
 - Accept the request to pair the patient connector with the app.

2.2 Authentication

2.2.1 Authentication

The **AUTHENTICATION** screen appears during first time setup of the app. On this screen, you can authenticate your clinic’s use of the app on the tablet with your Reveal LINQ™ Mobile Manager or CareLink™ Network credentials.

If the app is unauthenticated after first time setup, the **AUTHENTICATION** dialog appears the next time you launch the app or start an insertion to remind you to authenticate. The dialog also appears when you tap **UNAUTHENTICATED > AUTHENTICATE** from the app menu.

You can tap **SKIP AUTHENTICATION** to temporarily skip authentication. If you skip authentication, you will receive periodic reminders to authenticate while using the app. You must manually complete patient enrollment and device registration through the appropriate Medtronic websites until you decide to authenticate.

If you do not want to receive reminders to authenticate, you can turn off the reminders from the app menu. See Section 2.2.4.

2.2.2 Authenticating the App on the Tablet

1. Enter your **USER NAME**.
2. Enter your **PASSWORD**.
3. Select one of the following options:
 - Tap **NEXT** to authenticate.
 - Tap **SKIP AUTHENTICATION** to temporarily skip authentication and return to the **Reveal LINQ MOBILE MANAGER** screen.

Note: Access to the **Edit CareLink Clinics List** screen and **Edit Physicians List** screen is disabled if the information on the **Authentication** screen is not completed.

2.2.3 Verifying Authentication of the App with the Tablet

You can verify if the app is authenticated for use on the tablet from the options in the app Menu and from the top navigation bar.

1. Tap the **Menu** icon.

2. Verify if the Menu options display **AUTHENTICATED** or **UNAUTHENTICATED**.
 - If the Menu displays **AUTHENTICATED**, the app is authenticated for use on the tablet. The **Authenticated** icon appears in both the menu and top navigation bar.
 - If the Menu displays **UNAUTHENTICATED**, the app is not authenticated for use on the tablet. The **Unauthenticated** icon appears in both the menu and top navigation bar.
3. Select one of the following options:
 - If the Menu displays **AUTHENTICATED**, tap **AUTHENTICATED**.
A confirmation message appears. Tap **CLOSE** to return to the previous screen in your workflow.
 - If the Menu displays **UNAUTHENTICATED**, you can authenticate the app by tapping **UNAUTHENTICATED**.
On the **UNAUTHENTICATED** dialog, tap **AUTHENTICATE**. Then, enter your user name and password on the **AUTHENTICATION** dialog.
If this is your first time authenticating, you will also have to enter tablet registration information on the **TABLET REGISTRATION** dialog.

2.2.4 Turning off authentication reminders

If you skip authentication, the app periodically reminds you to authenticate. You can turn off these reminders from the app menu.

1. Tap the **Menu** icon.
2. Tap **UNAUTHENTICATED**.
3. Tap **TURN OFF REMINDERS**.

2.2.5 Resetting a Forgotten Password

Use the **Forgot Password?** link on the **AUTHENTICATION** screen to reset your password on the CareLink™ Network website if you have forgotten it.

The app locks after three failed password attempts. If the app locks, you must wait 10 min for the app to unlock before entering your password again.

1. Tap **Forgot Password?**
2. Follow the instructions on the CareLink™ Network website to reset your password.

2.2.6 Resetting an Expired Password

You can reset an expired password on the CareLink™ Network website.

If your password has expired, a notification message and link to reset your password displays on the **AUTHENTICATION** screen.

1. Tap **Reset Password**.
2. Follow the instructions on the CareLink™ Network website to reset your password.

2.3 Entering Tablet Registration Information

2.3.1 Tablet Registration

To complete authentication, you must authenticate the tablet on the **TABLET REGISTRATION** screen by entering a unique **TABLET NAME** and selecting your **HOSPITAL OR CLINIC**. Tablet registration information is used to manage access to the app and the tablet.

- You must enter a primary tablet name and primary location to continue with the tablet authentication. Skipping authentication redirects the app to the **Reveal LINQ MOBILE MANAGER** screen. If you skip authentication, you must manually complete patient enrollment and device registration through the appropriate Medtronic websites until you decide to authenticate.
- The tablet registration information is set up once. The **TABLET NAME** and **HOSPITAL OR CLINIC** settings cannot be changed after they are set.
- The clinics listed in the **HOSPITAL OR CLINIC** drop menu are associated with your clinic's Account Number.
- The **TABLET NAME** must be unique. You cannot use the same tablet name for multiple tablets in your clinic.

2.3.2 Setting Up Tablet Registration

1. Enter a unique tablet name in the **TABLET NAME** field.
2. Select a hospital or clinic name from the **HOSPITAL OR CLINIC** drop menu.
3. Select one of the following options:
 - Tap **AUTHENTICATE** to save the tablet registration information.
 - Tap **SKIP AUTHENTICATION** to exit the **TABLET REGISTRATION** screen and return to the **Reveal LINQ MOBILE MANAGER** screen. If you skip authentication, you must manually complete patient enrollment and device registration through the appropriate Medtronic websites until you decide to authenticate.

Note: Access to the **Edit CareLink Clinics List** screen and **Edit Physicians List** screen is disabled if the information on the **TABLET REGISTRATION** screen is not completed.

2.4 Edit Physicians List

2.4.1 Setting Up the Physicians List

On the **EDIT PHYSICIANS LIST** screen, you can add a physicians to the **PHYSICIANS LIST**, or you can skip this step. Adding physicians to the **PHYSICIANS LIST** allows you to more easily assign physicians to patients on the **PERSONALIZE REVEAL LINQ > MONITORING INFORMATION** screen during a Reveal LINQ™ ICM insertion, or on the **PARAMETERS > MONITORING** screen during a **CHECK REVEAL LINQ** session.

Any physicians added to the **PHYSICIANS LIST** are available locally on the tablet running the app. If you have installed the app on more than one tablet, you will need to add physicians to the **PHYSICIANS LIST** for each additional tablet.

2.4.2 Edit Physicians List

1. Enter a physician's first name in the **FIRST NAME** field.
2. Enter a physician's last name in the **LAST NAME** field.
3. Enter one or more options for the physician's location information:
 - Enter a city name in the **CITY** field.
 - Select a state from the **STATE** drop menu.
 - Enter a zip code in the **ZIP CODE** field.
4. Select one of the following options:
 - Tap **SEARCH** to search for the physician.
 - Tap **CLEAR FIELDS** to clear all of the search fields.Tapping **SEARCH** displays the physician information in the **SEARCH RESULTS** field.
5. Select a physician or physicians from the **SEARCH RESULTS** field and tap **ADD TO LIST**.
A message displays when a physician or physicians have been successfully added to the **PHYSICIANS LIST**.

2.4.3 Manually Adding a Physician to the Physicians List

If the search for the physician did not return a result, you can manually add a physician to the **PHYSICIANS LIST**.

When a search for a physician did not return a result, the **SEARCH RESULTS** screen displays a message that no results were found for the physician.

1. In the **SEARCH RESULTS** field, select **I want to manually add the physician to the list**.
2. Tap **ADD TO LIST**.
The **MANUALLY ADD TO LIST** screen displays.
3. Enter additional optional physician information, if desired.
4. Select one of the following options:
 - Tap **ADD MANUALLY** to manually add the physician to the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **MANUALLY ADD TO LIST** screen.

2.4.4 Removing a Physician from the Physicians List

You can remove a physician from the **PHYSICIANS LIST**.

1. Tap **PHYSICIANS LIST** to view all physicians in your **PHYSICIANS LIST**.
2. Tap the **Remove** icon next to the physician's name you want to remove from the **PHYSICIANS LIST**.
 - Tap **REMOVE** to remove the physician from the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **REMOVE PHYSICIAN** screen.

2.4.5 Completing the Physicians List Setup

Tap one of the following buttons to save or skip adding physicians to your **PHYSICIANS LIST**:

Button	Result
SAVE AND CONTINUE	The physicians are saved to your PHYSICIANS LIST . The physicians you added to your PHYSICIANS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, in the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus, and in the PARAMETERS > MONITORING screen from the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus.
SKIP THIS STEP	No physicians are added or saved to your PHYSICIANS LIST .

2.5 CareLink Clinics

2.5.1 Setting Up CareLink Clinics

On the **EDIT CARELINK CLINICS LIST** screen, you can add a CareLink™ Clinic, or you can skip this step. Adding a CareLink™ Clinic allows you to more easily enroll patients in the CareLink™ Network during a Reveal LINQ™ ICM insertion, or during a **CHECK REVEAL LINQ** session.

Adding CareLink™ Clinics to your **CARELINK CLINICS LIST** allows you to assign a patient to a CareLink™ Clinic on the **PERSONALIZE REVEAL LINQ** screen, or on the **PARAMETERS > MONITORING** screen, from the **CARELINK CLINIC** drop menu.

Any CareLink™ Clinics added to the **CARELINK CLINICS LIST** are available locally on the tablet running the app. If you have installed the app on more than one tablet, you will need to add CareLink™ Clinics to the **CARELINK CLINICS LIST** for each additional tablet.

Contact your CareLink™ Network administrator or your Medtronic representative for questions about the CareLink User ID or Account Number.

2.5.2 Edit CareLink Clinics

1. Select **CareLink User ID** or **Account Number** from the **SEARCH BY** drop-down list.
2. Enter a CareLink User ID or Account Number in the **SEARCH ENTRY** field for the clinic where the patient will be enrolled. Contact your CareLink™ Network administrator or your Medtronic representative for questions about the CareLink User ID or Account Number.
3. Tap **SEARCH**.
The CareLink™ Network clinics are displayed in the **SEARCH RESULTS** field.
4. Select a clinic or clinics you want to add to your **CARELINK CLINICS LIST**.
5. Tap **ADD**.
Your selected CareLink™ Clinics are displayed in the **CARELINK CLINICS LIST** field.
6. To add additional CareLink™ Network clinics, enter a CareLink User ID or Account Number and repeat the search.

2.5.3 Renaming a CareLink Clinic

You can rename a CareLink™ Clinic with an alias.

1. Tap the **Add/Edit Alias** icon.
2. Enter an alias for the CareLink™ Clinic you want to rename in the **ALIAS** field next to the CareLink™ Clinic.
 - Tap **SET** to rename the CareLink™ Clinic.
Note: A CareLink™ Clinic alias must be a unique name. The **EXISTING CLINIC WITH ALIAS** screen displays if a duplicate alias is entered for a CareLink™ Clinic.
 - Tap **CANCEL** to exit the **ADD/EDIT ALIAS** screen.

2.5.4 Removing a CareLink Clinic from the CareLink Clinics List

Tap the **Remove** icon next to the CareLink™ Clinic you want to remove from the **CARELINK CLINICS LIST**.

- Tap **REMOVE** to remove the CareLink™ Clinic from the **CARELINK CLINICS LIST**.
- Tap **CANCEL** to exit the **REMOVE CARELINK CLINIC FROM LIST** screen.

2.5.5 Completing Edit CareLink Clinics List Setup

Tap one of the following buttons to add a CareLink™ Clinic to your **CARELINK CLINICS LIST**, or to skip this step:

Button	Result
SAVE AND CONTINUE	The CareLink™ Clinics are saved to your CARELINK CLINICS LIST . The clinics you added to your CARELINK CLINICS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, or on the PARAMETERS > MONITORING screen, from the CARELINK CLINIC drop menu.
SKIP THIS STEP	No clinics are added or saved to your CARELINK CLINICS LIST .

2.6 Initial Setup Results

The **Reveal LINQ MOBILE MANAGER** screen is displayed. The app and patient connector are ready to use.

3 Patient Connector

3.1 Adding a Patient Connector

The app will guide you through the following steps when you select **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** from the **Reveal LINQ MOBILE MANAGER** screen.

During the procedure, you may be asked to enter the model number, security code, or serial number of the patient connector. This information is found on the back of the patient connector. You can also refer to the instructions for use provided with the patient connector for help in locating this information.

1. Ensure that Bluetooth® is enabled on your tablet. For most tablets, tap **Settings > Bluetooth** to enable it.
2. Press the button on the patient connector to turn it on.
The Bluetooth light on the patient connector first flashes when Bluetooth is discoverable, and then turns solid when the Bluetooth connection is established.
3. Select the available option:
 - Tap **SELECT NEW PATIENT CONNECTOR**.
 - Tap **Cancel** from the pop-up dialog.
4. When prompted by the app, enter the patient connector model number you are using and tap **CONTINUE**.
5. When prompted, select the patient connector you are using from the list.
6. If prompted, enter the security key code and tap **CONTINUE**.
7. If you are prompted by the tablet to accept a Bluetooth Pairing Request, confirm that the serial number in the request matches the serial number on the back of the patient connector.
 - Decline the request if the serial number does not match the serial number on the back of the patient connector.
 - Accept the request to pair the patient connector with the app.

The patient connector is paired and ready to use.

3.2 Charging

Medtronic recommends that you charge the patient connector and your tablet fully before conducting Reveal LINQ™ ICM insertions or checks.

For information on charging the patient connector, refer to the instructions for use provided with the patient connector.

4 Insertion

4.1 Reveal LINQ ICM Insertion

4.1.1 Inserting a Reveal LINQ ICM

Before you begin, see the Reveal LINQ™ ICM instructions for use for the insertion procedure instructions.

Caution: Before inserting the Reveal LINQ™ ICM, verify that the patient connector and tablet are fully charged. The patient connector and tablet may run out of power during the insertion procedure if they are not fully charged. You will not be able to program or interrogate the patient's Reveal LINQ™ ICM until the patient connector and the tablet have power.

4.1.2 Pre-Insertion

- Do not open the Reveal LINQ™ ICM sterile package until the pre-insertion steps are completed.
 - Do not turn on data collection in the Reveal LINQ™ ICM before the insertion procedure is completed, or the Reveal LINQ™ ICM may detect the absence of cardiac signal ECG as episodes. Episodes cannot be cleared from the Reveal LINQ™ ICM using the app once they are detected.
 - If you intend to complete patient enrollment and device registration through the app, ensure that the app is authenticated.
1. Ensure that Bluetooth® is enabled on your tablet. For most tablets, tap **Settings > Bluetooth** to enable it.
 2. From the **Reveal LINQ MOBILE MANAGER** screen, tap **INSERT REVEAL LINQ**.
 3. Press the button on the patient connector you are using to turn it on.
The Bluetooth light on the patient connector first flashes when Bluetooth is discoverable, and then turns solid when the Bluetooth connection is established.
 4. The patient connector pairs with the app.
If prompted, select the patient connector you are using from the list.
If you are using a new patient connector, you will have to pair the app and the patient connector. See Section 3.1.
 5. Position the patient connector over the Reveal LINQ™ ICM sterile package.
The telemetry indicator light on the patient connector turns on when you have established telemetry with the Reveal LINQ™ ICM.
The patient connector interrogates the Reveal LINQ™ ICM.
If the Reveal LINQ™ ICM has been pre-programmed prior to insertion, a verification message confirms that it has been personalized for the patient.
The **PERSONALIZE REVEAL LINQ** screen displays. The app displays the Reveal LINQ™ ICM serial number and the model number on the **PERSONALIZE REVEAL LINQ** screen.
 6. Enter the patient information on the **PERSONALIZE REVEAL LINQ > STEP 1 OF 2: PATIENT DEMOGRAPHICS** screen.

Patient information is included in reports and used for CareLink™ Network patient enrollment.

Field	Description
FIRST NAME	Enter the patient's first name as you would like it to appear in the patient's record.
LAST NAME	Enter the patient's last name as you would like it to appear in the patient's record.
DATE OF BIRTH	Select the patient's date of birth from the picker. This setting is used to calculate the nominal Tachy Detection Interval setting.
GENDER	Select the patient's gender from the drop menu.
PATIENT TELEPHONE	Enter the patient's telephone number in the field.

7. Enter any additional optional patient demographics information.

Field	Description
ADDRESS	Enter the patient's address.
CITY	Enter the city where the patient lives.
STATE	Enter the state where the patient lives.
POSTAL CODE	Enter the patient's postal code.
COUNTRY	Enter the country where the patient lives.
PATIENT ID	Enter the patient's ID number from the patient ID card.

8. Enter additional patient information in the **PERSONALIZE REVEAL LINQ > STEP 2 OF 2: MONITORING INFORMATION** screen.

Field	Description
REASON FOR MONITORING	<p>Select the clinical reason the patient is being monitored. This information determines the initial parameter settings of the Reveal LINQ™ ICM. Select a choice from the menu:</p> <ul style="list-style-type: none"> • Syncope • Cryptogenic Stroke • Suspected AF • AF Ablation • AF Management • Palpitations • Ventricular Tachycardia • Seizures • Other <p>Additional parameters are automatically programmed according to the selected Reason for Monitoring. Refer to the Reason for Monitoring table in Section 4.4.2.</p>
PATIENT'S LOCAL DATE/TIME	The PATIENT'S LOCAL DATE/TIME sets the internal calendar and clock of the Reveal LINQ™ ICM. Set the time to the patient's local time to ensure successful daily wireless transmissions.
CARELINK CLINIC	<p>Select an option for assigning a patient to a CareLink™ Clinic:</p> <ul style="list-style-type: none"> • Select the patient's CareLink™ Clinic from the list and tap SET. • Tap DECLINE CARELINK ENROLLMENT if you do not wish to enroll the patient in CareLink™. • Tap CLOSE if there are no available CareLink™ Clinics in the list. <p>See Section 4.3.1 for instructions to add a CareLink™ Clinic.</p>
SLEEPING HOURS NEAR HOME MONITOR	<p>Select the range of time that the patient is expected to be asleep and in range of the home monitor. The patient's daily wireless transmissions occur during this time. The SLEEPING HOURS NEAR HOME MONITOR defaults to midnight in the patient's local time zone.</p> <p>Caution: The patient must avoid interacting with their home monitor during this time interval otherwise disruptions to the patient's daily wireless transmissions may occur.</p>
IMPLANTING PHYSICIAN	Select the implanting physician's name from the IMPLANTING PHYSICIAN drop menu.
FOLLOW-UP PHYSICIAN	Select the follow-up physician's name from the FOLLOW-UP PHYSICIAN drop menu.
PATIENT MONITOR DISTRIBUTION	<p>Select one of the following options:</p> <ul style="list-style-type: none"> • YES: Distributed at Implant. • NO: Not Distributed at Implant.
PATIENT HISTORY	Enter any desired patient history.

9. Select the displayed checkbox if the app is not authenticated.

If you skipped authentication, you must manually complete patient enrollment and device registration through the appropriate Medtronic websites.

10. Select one of the following options:

- Tap **SAVE AND CONTINUE** to save the information entered in the **PERSONALIZE REVEAL LINQ** screen to the Reveal LINQ™ ICM.
- Tap **BACK** to return to the **PERSONALIZE REVEAL LINQ > STEP 1 OF 2: PATIENT DEMOGRAPHICS** screen.

11. Confirm that the patient information entered on the **PERSONALIZE REVEAL LINQ** screens is correct.

12. Tap **SAVE AND CONTINUE**.

13. After the patient information is programmed to the Reveal LINQ™ ICM, move the patient connector away from the Reveal LINQ™ ICM sterile package.

4.1.3 Insertion

Insert the Reveal LINQ™ ICM.

Refer to the instructions for use for the Reveal LINQ™ ICM for insertion procedure instructions.

4.1.4 Post-Insertion

Complete these steps after the Reveal LINQ™ ICM is inserted in the patient.

Caution: Do not place the tablet directly over the implanted cardiac device. Keep the tablet at least 6 in (15 cm) away from the implanted cardiac device.

1. Tap **CONTINUE** when the insertion is complete.
2. Place a sterile sleeve over the patient connector.
3. Hold the patient connector over the inserted Reveal LINQ™ ICM.
4. Select the **I have inserted the Reveal LINQ device.** check box.
5. Tap **ENABLE REVEAL LINQ** to turn on the Reveal LINQ™ ICM and begin collecting data. Data collection cannot be disabled once the Reveal LINQ™ ICM is turned on.

When data collection is turned on, Tachy, Brady, Pause, AT/AF, and Symptom detection are also turned on.

6. On the **INSERTION SUMMARY** screen, verify that the data is correct.

Field	Description
REASON FOR MONITORING	The clinical reason the patient is being monitored. This information determines the initial settings of the Reveal LINQ™ ICM based on the programmed value. This information is populated from the information that was entered in the PERSONALIZE REVEAL LINQ screen.
INSERTION DATE	This date is automatically filled in based on the date the implant procedure occurred.
SLEEPING HOURS NEAR HOME MONITOR (DAILY WIRELESS TRANSMISSION TIME)	Verify that this range is set to a time when the patient is expected to be near their home monitor for an extended period of time, for example while the patient is asleep. Program this setting after consulting with the patient on their sleep pattern.
PATIENT'S LOCAL DATE/TIME	Verify that the PATIENT'S LOCAL DATE/TIME is set to the patient's local time to ensure successful daily wireless transmissions.
LINQ BATTERY	The Reveal LINQ™ ICM battery status is displayed in one of the following values. <ul style="list-style-type: none"> • Good: The battery has not yet reached Recommended Replacement Time or End of Service. • RRT: The battery has reached the Recommended Replacement Time (RRT). The date displayed indicates when the battery reached RRT. • EOS: The battery has reached End of Service (EOS). The date displayed indicates when the battery reached EOS.
HISTORY	This information is populated from the OPTIONAL FIELDS tab of the PERSONALIZE REVEAL LINQ screen.

7. Tap **EDIT PARAMETERS** to change the parameter settings.
8. Tap **VIEW REPORT** to view the Quick Look Report.
9. Tap **END SESSION** to end the session and return to the **Reveal LINQ MOBILE MANAGER** screen.

The data is sent to the CareLink™ Network when the tablet is connected to the Internet.

4.2 Editing the Physicians List

4.2.1 Adding Physicians to the Physicians List

You can add physicians to the **PHYSICIANS LIST** during an **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

Tap **Menu > SETTINGS > PHYSICIANS LIST**

The **EDIT PHYSICIANS LIST** screen is displayed.

4.2.2 Edit Physicians List

1. Enter a physician's first name in the **FIRST NAME** field.
2. Enter a physician's last name in the **LAST NAME** field.
3. Enter one or more options for the physician's location information:
 - Enter a city name in the **CITY** field.
 - Select a state from the **STATE** drop menu.
 - Enter a zip code in the **ZIP CODE** field.
4. Select one of the following options:
 - Tap **SEARCH** to search for the physician.
 - Tap **CLEAR FIELDS** to clear all of the search fields.

Tapping **SEARCH** displays the physician information in the **SEARCH RESULTS** field.

5. Select a physician or physicians from the **SEARCH RESULTS** field and tap **ADD TO LIST**.

A message displays when a physician or physicians have been successfully added to the **PHYSICIANS LIST**.

4.2.3 Manually Adding a Physician to the Physicians List

If the search for the physician did not return a result, you can manually add a physician to the **PHYSICIANS LIST**.

When a search for a physician did not return a result, the **SEARCH RESULTS** screen displays a message that no results were found for the physician.

1. In the **SEARCH RESULTS** field, select **I want to manually add the physician to the list**.
2. Tap **ADD TO LIST**.
The **MANUALLY ADD TO LIST** screen displays.
3. Enter additional optional physician information, if desired.
4. Select one of the following options:
 - Tap **ADD MANUALLY** to manually add the physician to the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **MANUALLY ADD TO LIST** screen.

4.2.4 Removing a Physician from the Physicians List

You can remove a physician from the **PHYSICIANS LIST**.

1. Tap **PHYSICIANS LIST** to view all physicians in your **PHYSICIANS LIST**.
2. Tap the **Remove** icon next to the physician's name you want to remove from the **PHYSICIANS LIST**.
 - Tap **REMOVE** to remove the physician from the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **REMOVE PHYSICIAN** screen.

4.2.5 Completing the Physicians List Setup

Tap one of the following buttons to save or skip adding physicians to your **PHYSICIANS LIST**:

Button	Result
SAVE AND CONTINUE	The physicians are saved to your PHYSICIANS LIST . The physicians you added to your PHYSICIANS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, in the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus, and in the PARAMETERS > MONITORING screen from the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus.
SKIP THIS STEP	No physicians are added or saved to your PHYSICIANS LIST .

4.3 Editing CareLink Clinics

4.3.1 Adding CareLink Clinics

Adding a CareLink™ Clinic allows you to enroll patients in the CareLink™ Network after a REVEAL LINQ™ ICM insertion.

1. Tap **Menu > SETTINGS > CARELINK CLINICS LIST**.
Note: You may be prompted to select or pair with a patient connector before adding a CareLink™ Clinic.
2. Select **CareLink User ID** or **Account Number** from the **SEARCH BY** drop-down list.

3. Enter your CareLink User ID or Account Number in the **SEARCH ENTRY** field for the clinic where the patient will be enrolled. Contact your CareLink™ Network administrator or your Medtronic representative for questions about the CareLink User ID or Account Number.
4. Tap **SEARCH**.
The CareLink™ Network clinics associated with the CareLink User ID or Account Number are displayed in the **SEARCH RESULTS** field.
5. Select a clinic or clinics you want to add to your **CARELINK CLINICS LIST**.
6. Tap **ADD**.
Your selected CareLink™ Clinics are displayed in the **CARELINK CLINICS LIST** field.
7. To add additional CareLink™ Network clinics, enter an additional CareLink User ID or Account Number and repeat the search.

4.3.2 Renaming a CareLink Clinic

You can rename a CareLink™ Clinic with an alias.

1. Tap the **Add/Edit Alias** icon.
2. Enter an alias for the CareLink™ Clinic you want to rename in the **ALIAS** field next to the CareLink™ Clinic.
 - Tap **SET** to rename the CareLink™ Clinic.
Note: A CareLink™ Clinic alias must be a unique name. The **EXISTING CLINIC WITH ALIAS** screen displays if a duplicate alias is entered for a CareLink™ Clinic.
 - Tap **CANCEL** to exit the **ADD/EDIT ALIAS** screen.

4.3.3 Removing a CareLink Clinic from the CareLink Clinics List

Tap the **Remove** icon next to the CareLink™ Clinic you want to remove from the **CARELINK CLINICS LIST**.

- Tap **REMOVE** to remove the CareLink™ Clinic from the **CARELINK CLINICS LIST**.
- Tap **CANCEL** to exit the **REMOVE CARELINK CLINIC FROM LIST** screen.

4.3.4 Completing Edit CareLink Clinics List Setup

Tap one of the following buttons to add a CareLink™ Clinic to your **CARELINK CLINICS LIST**, or to skip this step:

Button	Result
SAVE AND CONTINUE	The CareLink™ Clinics are saved to your CARELINK CLINICS LIST . The clinics you added to your CARELINK CLINICS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, or on the PARAMETERS > MONITORING screen, from the CARELINK CLINIC drop menu.
SKIP THIS STEP	No clinics are added or saved to your CARELINK CLINICS LIST .

4.4 Programmable Parameters

4.4.1 Programmable Parameters

You can edit parameters from the **INSERTION SUMMARY** or **QUICK LOOK** screens by tapping **EDIT PARAMETERS**. When you change a parameter value, the new value is shown as pending. You can change several parameter values together. To undo your pending changes and revert to the last programmed values, tap **UNDO**. The values remain pending until you tap **SAVE**.

DEMOGRAPHICS PARAMETERS

Tap the **DEMOGRAPHICS** tab or the **Patient Information** icon to edit patient demographics parameters.

Table 1. Required Demographics Parameters

Parameter	Editable Values
FIRST NAME	Enter the patient's first name as you would like it to appear in the patient's record.
LAST NAME	Enter the patient's last name as you would like it to appear in the patient's record.
DATE OF BIRTH	Select the patient's date of birth from the picker. This setting is used to calculate the nominal Tachy Detection Interval setting.
GENDER	Select the patient's gender from the drop menu.
PATIENT TELEPHONE	Enter the patient's telephone number.

Table 2. Optional Demographics Information

Parameter	Editable Values
PATIENT ID	Enter the patient's ID number from the patient ID card
ADDRESS	Enter the patient's address.
CITY	Enter the city where the patient lives.
STATE	Enter the state where the patient lives.
POSTAL CODE	Enter the patient's postal code.
COUNTRY	Enter the patient's country of residence.

MONITORING PARAMETERS

Tap the **MONITORING** tab to edit the monitoring parameters.

Table 3. Monitoring Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
REASON FOR MONITORING	Syncope	Syncope	Syncope
	Cryptogenic Stroke		
	Suspected AF		
	AF Ablation		
	AF Management		
	Palpitations		
	Ventricular Tachycardia		
	Seizures		
	Other		
PATIENT'S LOCAL DATE/TIME	Month, Date, Year Hour, Minute, AM, PM	This field defaults to the tablet's date and time.	Jan 01, 1994
CARELINK™ CLINIC	Available options set on the EDIT CARELINK CLINICS screen.	-	-
SLEEPING HOURS NEAR HOME MONITOR (DAILY WIRELESS TRANSMISSION TIME)	12:00 AM - 5:00 AM	12:00 AM - 5:00 AM	12:00 AM - 5:00 AM
	1:00 AM - 6:00 AM		
	2:00 AM - 7:00 AM		
	3:00 AM - 8:00 AM		
	4:00 AM - 9:00 AM		
	5:00 AM - 10:00 AM		
	6:00 AM - 11:00 AM		
	7:00 AM - 12:00 PM		
	8:00 AM - 1:00 PM		
	9:00 AM - 2:00 PM		
	10:00 AM - 3:00 PM		
	11:00 AM - 4:00 PM		
	12:00 PM - 5:00 PM		
	1:00 PM - 6:00 PM		
	2:00 PM - 7:00 PM		
	3:00 PM - 8:00 PM		
	4:00 PM - 9:00 PM		
	5:00 PM - 10:00 PM		
	6:00 PM - 11:00 PM		
	7:00 PM - 12:00 AM		
	8:00 PM - 1:00 AM		
	9:00 PM - 2:00 AM		
	10:00 PM - 3:00 AM		
	11:00 PM - 4:00 AM		
IMPLANTING PHYSICIAN	Available options set on the EDIT PHYSICIANS LIST screen.	-	-

Table 3. Monitoring Parameters (continued)

Parameter	Programmable Values	Shipped Value	Reset Value
PATIENT HISTORY	No selectable values. Enter any desired patient history information in the field.	-	-
WIRELESS DATA PRIORITY	Tachy, Brady, Pause;	Pause, Tachy, Brady	Pause, Tachy, Brady
	Tachy, Pause, Brady;		
	Brady, Tachy, Pause;		
	Brady, Pause, Tachy;		
	Pause, Tachy, Brady;		
	Pause, Brady, Tachy		

DETECTION

Tap the **DETECTION** tab to edit the detection parameters.

Table 4. Detection Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
TACHY			
DETECTION	On; Off	Off	On
INTERVAL (RATE)	270 ms (222 bpm)	340 ms (176 bpm)	340 ms (176 bpm)
	280 ms (214 bpm)		
	290 ms (207 bpm)		
	300 ms (200 bpm)		
	310 ms (194 bpm)		
	320 ms (188 bpm)		
	330 ms (182 bpm)		
	340 ms (176 bpm)		
	350 ms (171 bpm)		
	360 ms (167 bpm)		
	370 ms (162 bpm)		
	380 ms (158 bpm)		
	390 ms (154 bpm)		
	400 ms (150 bpm)		
	410 ms (146 bpm)		
	420 ms (143 bpm)		
	430 ms (140 bpm)		
	440 ms (136 bpm)		
	450 ms (133 bpm)		
	460 ms (130 bpm)		
	470 ms (128 bpm)		
	480 ms (125 bpm)		
	490 ms (122 bpm)		
	500 ms (120 bpm)		
	510 ms (118 bpm)		
	520 ms (115 bpm)		
DURATION	5; 12; 16; 24; 32; 48 beats	16 beats	16 beats
BRADY			
DETECTION	On; Off	Off	On
INTERVAL (RATE)	2000 ms (30 bpm)	2000 ms (30 bpm)	2000 ms (30 bpm)
	1500 ms (40 bpm)		
	1200 ms (50 bpm)		
	1000 ms (60 bpm)		
DURATION	4; 8; 12 beats	4 beats	4 beats
PAUSE			

Table 4. Detection Parameters (continued)

Parameter	Programmable Values	Shipped Value	Reset Value
TACHY			
DETECTION	On; Off	Off	On
DURATION	1.5; 3; 4.5 s	3 s	3 s
AT/AF...			
AT/AF DETECTION	On; Off; AF Only	Off	On
AF DETECTION SENSITIVITY	Least Sensitive; Less Sensitive; Balanced Sensitivity; More Sensitive	Less Sensitive	Less Sensitive
ECTOPY REJECTION	Off; Nominal; Aggressive	Off	Off
AT/AF RECORDING THRESHOLD	All Episodes; Episodes >=6 min; Episodes >=10 min; Episodes >=20 min; Episodes >=30 min; Episodes >=60 min; Only Longest Episode	Episodes >=10 min	Episodes >=10 min
DETECT VERY REGULAR AT RHYTHMS	Off; On - All Rates; On - Rates >= 67 bpm; On - Rates >= 100 bpm	Off	---
SYMPTOM			
DETECTION	Four 7.5 min Episodes; Three 10 min Episodes; Two 15 min Episodes	Four 7.5 min Episodes	Four 7.5 min Episodes

SENSING

Tap the **SENSING** tab to edit the sensing parameters.

Table 5. Sensing Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
SENSITIVITY	0.025 mV (25 µV)	0.035 mV (35 µV)	0.035 mV (35 µV)
	0.035 mV (35 µV)		
	0.05 mV (50 µV)		
	0.075 mV (75 µV)		
	0.1 mV (100 µV)		
	0.125 mV (125 µV)		
	0.15 mV (150 µV)		
	0.175 mV (175 µV)		
	0.2 mV (200 µV)		
BLANK AFTER SENSE	130; 150; 170; 200; 250; 300; 400 ms	150 ms	150 ms
SENSING THRESHOLD DECAY DELAY	130; 150; 200; 300; 400; 500 ms	150 ms	150 ms

4.4.2 Reason for Monitoring

Reason for Monitoring is used to recommend certain nominal settings.

You can edit parameters from the **INSERTION SUMMARY** or **QUICK LOOK** screens by tapping **EDIT PARAMETERS**.

When you select a **REASON FOR MONITORING**, parameter values for **AF Detection Sensitivity**, **Ectopy Rejection**, **AT/AF Recording Threshold**, and **Wireless Data Priority** are automatically set to default settings. You can change these default settings after you select a **REASON FOR MONITORING**.

When you change a parameter value, the new value is shown as pending. You can change several parameter values together. The values remain pending until you tap **SAVE**.

To undo your pending changes and revert to the last programmed values, tap **UNDO**.

REASON FOR MONITORING ^{a,b}	AF Detection Sensitivity ^c	Ectopy Rejection ^c	AT/AF Recording Threshold ^c	Wireless Data Priority ^c
Syncope	Least Sensitive	Aggressive	Only Longest Episode	Pause, Tachy, Brady
Cryptogenic Stroke	Balanced Sensitivity	Aggressive	All Episodes	Tachy, Pause, Brady
Suspected AF	Less Sensitive	Nominal	Episodes >= 6 min	Tachy, Pause, Brady
AF Ablation	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
AF Management	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
Palpitations	Less Sensitive	Nominal	Episodes >= 6 min	Tachy, Pause, Brady
Ventricular Tachycardia	Least Sensitive	Aggressive	Episodes >= 10 min	Tachy, Pause, Brady
Seizures	Least Sensitive	Aggressive	Episodes >= 10 min	Pause, Tachy, Brady
Other	Less Sensitive	Aggressive	Episodes >= 10 min	Pause, Tachy, Brady

^aFor all Reasons for Monitoring, Tachy Detection Interval is programmed automatically to the closest value less than or equal to 230 bpm minus the patient's age, as calculated from the information entered in the patient's Date of Birth.

^bFor all Reasons for Monitoring, AT/AF Detection is set to AF Only.

^cAF Detection Sensitivity, Ectopy Rejection, AT/AF Recording Threshold, and Wireless Data Priority parameters are set to pending automatically according to the selected Reason for Monitoring.

4.5 Reports

4.5.1 Quick Look Report

The Quick Look Report is the only report available after a Reveal LINQ™ ICM insertion. It is available for up to 7 days if a new **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session is not performed. After an insertion, the app transmits the data to the CareLink™ Network when it is connected to the Internet.

Quick Look Report

The Quick Look Report provides an overview of the Reveal LINQ™ ICM data. The patient information in the Quick Look Report is obtained from the Reveal LINQ™ ICM.

The Quick Look Report is only available in the app; it is not available from the CareLink™ Network. The Quick Look Report is available without a connection to the Internet.

Tap **VIEW REPORT** after a Reveal LINQ™ ICM insertion to open Quick Look Report PDF.

Report Information	Quick Look Report
Patient Information	X
History	X
Current ECG	X
Key Observations	X
Observations	-
Counters	X
Comments	X
Cardiac Compass	-
Episode List	-
Episode Details (text, interval/rate, ECG)	-
Parameters	X

4.5.2 View Past Reports

You can view reports created during your previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

Reports from the previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session are deleted after 7 days or when a new **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session is performed.

Tap **Menu > VIEW PAST REPORTS** to view reports created during your previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

5 Check Reveal LINQ Session

5.1 Check Reveal LINQ Session

After a Reveal LINQ™ ICM insertion, it is important to schedule regular patient sessions to read collected data and, if necessary, to adjust sensing and episode detection parameters.

Medtronic recommends that you schedule the first patient session 3 months after device insertion. The frequency of subsequent sessions depends on the patient's condition and the number of arrhythmia episodes that occur. To ensure that you do not miss episode information by overwriting of older episodes, schedule a session before the device memory is full. You can also instruct the patient to contact you when he or she has activated the Patient Assistant to record symptoms.

5.2 Conducting a Check Reveal LINQ Session

Caution: Do not place the tablet directly over the implanted cardiac device. Keep the tablet at least 6 in (15 cm) away from the implanted cardiac device.

1. Ensure that Bluetooth® is enabled on your tablet. For most tablets, tap **Settings > Bluetooth** to enable it.

2. From the **Reveal LINQ MOBILE MANAGER** screen, tap **CHECK REVEAL LINQ**.

3. Press the button on the patient connector you are using to turn it on.

The Bluetooth light on the patient connector first flashes when Bluetooth is discoverable, and then turns solid when the Bluetooth connection is established.

4. The patient connector pairs with the app.

If prompted, select the patient connector you are using from the list.

If you are using a new patient connector, you will have to pair the app and the patient connector. See Section 3.1.

5. Hold the patient connector over the patient's implanted device.

The telemetry indicator light on the patient connector turns on when you have established telemetry with the implanted device. The device is interrogated and the **QUICK LOOK** screen is displayed.

The **QUICK LOOK** screen provides a summary of the data from the current collection period. This is the data collected since the last in-clinic session.

6. Review the data displayed in the **QUICK LOOK** screen.

7. On the **QUICK LOOK** screen, choose an action.

Option	Description
EDIT PARAMETERS	Tap EDIT PARAMETERS to edit the patient's device parameters. When you change a parameter value, the new value is shown as pending. You can change several parameter values together. To undo your pending changes and revert to the last programmed values, tap UNDO . The values remain pending until you tap SAVE .
VIEW REPORT	Tap VIEW REPORT to open a PDF of a report. Select QUICK LOOK REPORT for an overview of the Reveal LINQ™ ICM data, or FULL REPORT for a comprehensive view of the Reveal LINQ™ ICM data.
PATIENT INFORMATION	Tap the PATIENT INFORMATION icon to edit patient information on the EDIT PARAMETERS > DEMOGRAPHICS screen.
END SESSION	Tap END SESSION to end the current CHECK REVEAL LINQ session and return to the Reveal LINQ MOBILE MANAGER screen.

The data is sent to the CareLink™ Network when the tablet is connected to the Internet.

5.3 Programmable Parameters

5.3.1 Programmable Parameters

You can edit parameters from the **INSERTION SUMMARY** or **QUICK LOOK** screens by tapping **EDIT PARAMETERS**. When you change a parameter value, the new value is shown as pending. You can change several parameter values together. To undo your pending changes and revert to the last programmed values, tap **UNDO**. The values remain pending until you tap **SAVE**.

DEMOGRAPHICS PARAMETERS

Tap the **DEMOGRAPHICS** tab or the **Patient Information** icon to edit patient demographics parameters.

Table 6. Required Demographics Parameters

Parameter	Editable Values
FIRST NAME	Enter the patient's first name as you would like it to appear in the patient's record.
LAST NAME	Enter the patient's last name as you would like it to appear in the patient's record.
DATE OF BIRTH	Select the patient's date of birth from the picker. This setting is used to calculate the nominal Tachy Detection Interval setting.
GENDER	Select the patient's gender from the drop menu.
PATIENT TELEPHONE	Enter the patient's telephone number.

Table 7. Optional Demographics Information

Parameter	Editable Values
PATIENT ID	Enter the patient's ID number from the patient ID card
ADDRESS	Enter the patient's address.
CITY	Enter the city where the patient lives.
STATE	Enter the state where the patient lives.
POSTAL CODE	Enter the patient's postal code.
COUNTRY	Enter the patient's country of residence.

MONITORING PARAMETERS

Tap the **MONITORING** tab to edit the monitoring parameters.

Table 8. Monitoring Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
REASON FOR MONITORING	Syncope	Syncope	Syncope
	Cryptogenic Stroke		
	Suspected AF		
	AF Ablation		
	AF Management		
	Palpitations		
	Ventricular Tachycardia		
	Seizures		
	Other		
PATIENT'S LOCAL DATE/TIME	Month, Date, Year Hour, Minute, AM, PM	This field defaults to the tablet's date and time.	Jan 01, 1994
CARELINK™ CLINIC	Available options set on the EDIT CARELINK CLINICS screen.	-	-
SLEEPING HOURS NEAR HOME MONITOR (DAILY WIRELESS TRANSMISSION TIME)	12:00 AM - 5:00 AM	12:00 AM - 5:00 AM	12:00 AM - 5:00 AM
	1:00 AM - 6:00 AM		
	2:00 AM - 7:00 AM		
	3:00 AM - 8:00 AM		
	4:00 AM - 9:00 AM		
	5:00 AM - 10:00 AM		
	6:00 AM - 11:00 AM		
	7:00 AM - 12:00 PM		
	8:00 AM - 1:00 PM		
	9:00 AM - 2:00 PM		
	10:00 AM - 3:00 PM		
	11:00 AM - 4:00 PM		
	12:00 PM - 5:00 PM		
	1:00 PM - 6:00 PM		
	2:00 PM - 7:00 PM		
	3:00 PM - 8:00 PM		
	4:00 PM - 9:00 PM		
	5:00 PM - 10:00 PM		
	6:00 PM - 11:00 PM		
	7:00 PM - 12:00 AM		
	8:00 PM - 1:00 AM		
	9:00 PM - 2:00 AM		
	10:00 PM - 3:00 AM		
	11:00 PM - 4:00 AM		
IMPLANTING PHYSICIAN	Available options set on the EDIT PHYSICIANS LIST screen.	-	-

Table 8. Monitoring Parameters (continued)

Parameter	Programmable Values	Shipped Value	Reset Value
PATIENT HISTORY	No selectable values. Enter any desired patient history information in the field.	-	-
WIRELESS DATA PRIORITY	Tachy, Brady, Pause;	Pause, Tachy, Brady	Pause, Tachy, Brady
	Tachy, Pause, Brady;		
	Brady, Tachy, Pause;		
	Brady, Pause, Tachy;		
	Pause, Tachy, Brady;		
	Pause, Brady, Tachy		

DETECTION

Tap the **DETECTION** tab to edit the detection parameters.

Table 9. Detection Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
TACHY			
DETECTION	On; Off	Off	On
INTERVAL (RATE)	270 ms (222 bpm)	340 ms (176 bpm)	340 ms (176 bpm)
	280 ms (214 bpm)		
	290 ms (207 bpm)		
	300 ms (200 bpm)		
	310 ms (194 bpm)		
	320 ms (188 bpm)		
	330 ms (182 bpm)		
	340 ms (176 bpm)		
	350 ms (171 bpm)		
	360 ms (167 bpm)		
	370 ms (162 bpm)		
	380 ms (158 bpm)		
	390 ms (154 bpm)		
	400 ms (150 bpm)		
	410 ms (146 bpm)		
	420 ms (143 bpm)		
	430 ms (140 bpm)		
	440 ms (136 bpm)		
	450 ms (133 bpm)		
	460 ms (130 bpm)		
	470 ms (128 bpm)		
	480 ms (125 bpm)		
	490 ms (122 bpm)		
	500 ms (120 bpm)		
	510 ms (118 bpm)		
	520 ms (115 bpm)		
DURATION	5; 12; 16; 24; 32; 48 beats	16 beats	16 beats
BRADY			
DETECTION	On; Off	Off	On
INTERVAL (RATE)	2000 ms (30 bpm)	2000 ms (30 bpm)	2000 ms (30 bpm)
	1500 ms (40 bpm)		
	1200 ms (50 bpm)		
	1000 ms (60 bpm)		
DURATION	4; 8; 12 beats	4 beats	4 beats
PAUSE			

Table 9. Detection Parameters (continued)

Parameter	Programmable Values	Shipped Value	Reset Value
TACHY			
DETECTION	On; Off	Off	On
DURATION	1.5; 3; 4.5 s	3 s	3 s
AT/AF...			
AT/AF DETECTION	On; Off; AF Only	Off	On
AF DETECTION SENSITIVITY	Least Sensitive; Less Sensitive; Balanced Sensitivity; More Sensitive	Less Sensitive	Less Sensitive
ECTOPY REJECTION	Off; Nominal; Aggressive	Off	Off
AT/AF RECORDING THRESHOLD	All Episodes; Episodes >=6 min; Episodes >=10 min; Episodes >=20 min; Episodes >=30 min; Episodes >=60 min; Only Longest Episode	Episodes >=10 min	Episodes >=10 min
DETECT VERY REGULAR AT RHYTHMS	Off; On - All Rates; On - Rates >= 67 bpm; On - Rates >= 100 bpm	Off	---
SYMPTOM			
DETECTION	Four 7.5 min Episodes; Three 10 min Episodes; Two 15 min Episodes	Four 7.5 min Episodes	Four 7.5 min Episodes

SENSING

Tap the **SENSING** tab to edit the sensing parameters.

Table 10. Sensing Parameters

Parameter	Programmable Values	Shipped Value	Reset Value
SENSITIVITY	0.025 mV (25 μ V)	0.035 mV (35 μ V)	0.035 mV (35 μ V)
	0.035 mV (35 μ V)		
	0.05 mV (50 μ V)		
	0.075 mV (75 μ V)		
	0.1 mV (100 μ V)		
	0.125 mV (125 μ V)		
	0.15 mV (150 μ V)		
	0.175 mV (175 μ V)		
	0.2 mV (200 μ V)		
BLANK AFTER SENSE	130; 150; 170; 200; 250; 300; 400 ms	150 ms	150 ms
SENSING THRESHOLD DECAY DELAY	130; 150; 200; 300; 400; 500 ms	150 ms	150 ms

5.3.2 Reason for Monitoring

Reason for Monitoring is used to recommend certain nominal settings.

You can edit parameters from the **INSERTION SUMMARY** or **QUICK LOOK** screens by tapping **EDIT PARAMETERS**.

When you select a **REASON FOR MONITORING**, parameter values for **AF Detection Sensitivity**, **Ectopy Rejection**, **AT/AF Recording Threshold**, and **Wireless Data Priority** are automatically set to default settings. You can change these default settings after you select a **REASON FOR MONITORING**.

When you change a parameter value, the new value is shown as pending. You can change several parameter values together. The values remain pending until you tap **SAVE**.

To undo your pending changes and revert to the last programmed values, tap **UNDO**.

REASON FOR MONITORING ^{a,b}	AF Detection Sensitivity ^c	Ectopy Rejection ^c	AT/AF Recording Threshold ^c	Wireless Data Priority ^c
Syncope	Least Sensitive	Aggressive	Only Longest Episode	Pause, Tachy, Brady
Cryptogenic Stroke	Balanced Sensitivity	Aggressive	All Episodes	Tachy, Pause, Brady
Suspected AF	Less Sensitive	Nominal	Episodes >= 6 min	Tachy, Pause, Brady
AF Ablation	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
AF Management	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
Palpitations	Less Sensitive	Nominal	Episodes >= 6 min	Tachy, Pause, Brady
Ventricular Tachycardia	Least Sensitive	Aggressive	Episodes >= 10 min	Tachy, Pause, Brady
Seizures	Least Sensitive	Aggressive	Episodes >= 10 min	Pause, Tachy, Brady
Other	Less Sensitive	Aggressive	Episodes >= 10 min	Pause, Tachy, Brady

^aFor all Reasons for Monitoring, Tachy Detection Interval is programmed automatically to the closest value less than or equal to 230 bpm minus the patient's age, as calculated from the information entered in the patient's Date of Birth.

^bFor all Reasons for Monitoring, AT/AF Detection is set to AF Only.

^cAF Detection Sensitivity, Ectopy Rejection, AT/AF Recording Threshold, and Wireless Data Priority parameters are set to pending automatically according to the selected Reason for Monitoring.

5.3.3 Patient Information

You can access the **PARAMETERS > DEMOGRAPHICS** screen and edit patient parameters by tapping the **Patient Information** icon.

1. Select one of the following options:
 - Tap the **Patient Information** icon from the **INSERTION SUMMARY, QUICK LOOK, or PARAMETERS** screen.
 - Navigate to the **PARAMETERS > DEMOGRAPHICS** screen after an **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.
2. Enter the required patient information on the **DEMOGRAPHICS** tab.
See Section 5.3.1 for information on patient information parameters.
3. Tap **SAVE** to save the patient demographics parameters to the Reveal LINQ™ ICM.

5.4 Editing the Physicians List

5.4.1 Adding Physicians to the Physicians List

You can add physicians to the **PHYSICIANS LIST** during an **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

Tap **Menu > SETTINGS > PHYSICIANS LIST**

The **EDIT PHYSICIANS LIST** screen is displayed.

5.4.2 Edit Physicians List

1. Enter a physician's first name in the **FIRST NAME** field.
2. Enter a physician's last name in the **LAST NAME** field.
3. Enter one or more options for the physician's location information:
 - Enter a city name in the **CITY** field.
 - Select a state from the **STATE** drop menu.
 - Enter a zip code in the **ZIP CODE** field.
4. Select one of the following options:
 - Tap **SEARCH** to search for the physician.
 - Tap **CLEAR FIELDS** to clear all of the search fields.

Tapping **SEARCH** displays the physician information in the **SEARCH RESULTS** field.
5. Select a physician or physicians from the **SEARCH RESULTS** field and tap **ADD TO LIST**.
A message displays when a physician or physicians have been successfully added to the **PHYSICIANS LIST**.

5.4.3 Manually Adding a Physician to the Physicians List

If the search for the physician did not return a result, you can manually add a physician to the **PHYSICIANS LIST**.

When a search for a physician did not return a result, the **SEARCH RESULTS** screen displays a message that no results were found for the physician.

1. In the **SEARCH RESULTS** field, select **I want to manually add the physician to the list**.
2. Tap **ADD TO LIST**.

The **MANUALLY ADD TO LIST** screen displays.

3. Enter additional optional physician information, if desired.
4. Select one of the following options:
 - Tap **ADD MANUALLY** to manually add the physician to the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **MANUALLY ADD TO LIST** screen.

5.4.4 Removing a Physician from the Physicians List

You can remove a physician from the **PHYSICIANS LIST**.

1. Tap **PHYSICIANS LIST** to view all physicians in your **PHYSICIANS LIST**.
2. Tap the **Remove** icon next to the physician's name you want to remove from the **PHYSICIANS LIST**.
 - Tap **REMOVE** to remove the physician from the **PHYSICIANS LIST**.
 - Tap **CANCEL** to exit the **REMOVE PHYSICIAN** screen.

5.4.5 Completing the Physicians List Setup

Tap one of the following buttons to save or skip adding physicians to your **PHYSICIANS LIST**:

Button	Result
SAVE AND CONTINUE	The physicians are saved to your PHYSICIANS LIST . The physicians you added to your PHYSICIANS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, in the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus, and in the PARAMETERS > MONITORING screen from the IMPLANTING PHYSICIAN or FOLLOW-UP PHYSICIAN drop menus.
SKIP THIS STEP	No physicians are added or saved to your PHYSICIANS LIST .

5.5 Editing CareLink Clinics

5.5.1 Adding CareLink Clinics

Adding a CareLink™ Clinic allows you to enroll patients in the CareLink™ Network after a REVEAL LINQ™ ICM insertion.

1. Tap **Menu > SETTINGS > CARELINK CLINICS LIST**.
Note: You may be prompted to select or pair with a patient connector before adding a CareLink™ Clinic.
2. Select **CareLink User ID** or **Account Number** from the **SEARCH BY** drop-down list.
3. Enter your CareLink User ID or Account Number in the **SEARCH ENTRY** field for the clinic where the patient will be enrolled.
Contact your CareLink™ Network administrator or your Medtronic representative for questions about the CareLink User ID or Account Number.
4. Tap **SEARCH**.
The CareLink™ Network clinics associated with the CareLink User ID or Account Number are displayed in the **SEARCH RESULTS** field.
5. Select a clinic or clinics you want to add to your **CARELINK CLINICS LIST**.
6. Tap **ADD**.
Your selected CareLink™ Clinics are displayed in the **CARELINK CLINICS LIST** field.
7. To add additional CareLink™ Network clinics, enter an additional CareLink User ID or Account Number and repeat the search.

5.5.2 Renaming a CareLink Clinic

You can rename a CareLink™ Clinic with an alias.

1. Tap the **Add/Edit Alias** icon.
2. Enter an alias for the CareLink™ Clinic you want to rename in the **ALIAS** field next to the CareLink™ Clinic.
 - Tap **SET** to rename the CareLink™ Clinic.
Note: A CareLink™ Clinic alias must be a unique name. The **EXISTING CLINIC WITH ALIAS** screen displays if a duplicate alias is entered for a CareLink™ Clinic.
 - Tap **CANCEL** to exit the **ADD/EDIT ALIAS** screen.

5.5.3 Removing a CareLink Clinic from the CareLink Clinics List

Tap the **Remove** icon next to the CareLink™ Clinic you want to remove from the **CARELINK CLINICS LIST**.

- Tap **REMOVE** to remove the CareLink™ Clinic from the **CARELINK CLINICS LIST**.
- Tap **CANCEL** to exit the **REMOVE CARELINK CLINIC FROM LIST** screen.

5.5.4 Completing Edit CareLink Clinics List Setup

Tap one of the following buttons to add a CareLink™ Clinic to your **CARELINK CLINICS LIST**, or to skip this step:

Button	Result
SAVE AND CONTINUE	The CareLink™ Clinics are saved to your CARELINK CLINICS LIST . The clinics you added to your CARELINK CLINICS LIST are now available as options on the PERSONALIZE REVEAL LINQ screen, or on the PARAMETERS > MONITORING screen, from the CARELINK CLINIC drop menu.
SKIP THIS STEP	No clinics are added or saved to your CARELINK CLINICS LIST .

5.6 Reports, Exporting Data, and Pending Uploads

5.6.1 Reports

Reports from your last Reveal LINQ™ ICM interrogation are available in the app for up to 7 days if a new **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session is not performed. After an interrogation or programming session, the app transmits the data to the CareLink™ Network when it is connected to the Internet. The Full Report is available on CareLink™ if the patient is enrolled for remote monitoring.

Quick Look Report

The Quick Look Report provides an overview of the Reveal LINQ™ ICM data. The patient information in the Quick Look Report is obtained from the Reveal LINQ™ ICM.

The Quick Look Report is only available in the app; it is not available from the CareLink™ Network. The Quick Look Report is available without a connection to the Internet.

Tap **VIEW REPORT** and then tap **QUICK LOOK REPORT** to open the PDF.

Full Report

The Full Report provides you a comprehensive view of the Reveal LINQ™ ICM data. This report is created by the CareLink™ Network. An Internet connection is needed during a **CHECK REVEAL LINQ** session to generate this report. The Full Report is created during a **CHECK REVEAL LINQ** session.

The patient information in the Full Report is obtained from the Reveal LINQ™ ICM if the patient is not enrolled in CareLink™. The patient information is obtained from the CareLink™ Network if the patient is enrolled in CareLink™.

To view the Full Report, perform the following steps:

Tap **VIEW REPORT** and then tap **FULL REPORT** to open the PDF.

Tap **RETRY** if the Full Report is not created.

Report Information	Report Type	
	Quick Look Report	Full Report
Patient Information	X	X
History	X	X
Current ECG	X	X
Key Observations	X	-
Observations	-	X
Counters	X	X
Comments	X	X
Cardiac Compass	-	X
Episode List	-	X
Episode Details (text, interval/rate, ECG)	-	X
Parameters	X	-

5.6.2 View Past Reports

You can view reports created during your previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

Reports from the previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session are deleted after 7 days or when a new **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session is performed.

Tap **Menu > VIEW PAST REPORTS** to view reports created during your previous **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session.

5.6.3 Save Reveal LINQ ICM Data to Tablet

Select **Menu > SAVE REVEAL LINQ DATA TO TABLET** to save interrogated Reveal LINQ™ ICM data to your tablet.

5.6.4 Pending Uploads

Data transmissions from an **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session to the CareLink™ Network remain pending for 7 days under certain conditions.

Data transmissions from an **INSERT REVEAL LINQ** session remain pending for 7 days under the following conditions:

- The tablet is authenticated.
- No device registration error was received.
- The tablet is not connected to a Wi-Fi or cellular network.

Data transmissions from a **CHECK REVEAL LINQ** session to the CareLink™ Network remain pending for 7 days under the following conditions:

- The tablet is not connected to a Wi-Fi or cellular network.

Tap **Menu > PENDING UPLOADS** to view any pending data transmissions to the CareLink™ Network.

The **PENDING UPLOADS** screen displays the following information for a pending data transmission:

- **DATE:** The date the data from the **INSERT REVEAL LINQ** or **CHECK REVEAL LINQ** session was collected.
- **PATIENT NAME:** The patient's name associated with the data.
- **DAYS LEFT TO RETRY:** The number of days remaining for the data to be transmitted to the CareLink™ Network.

The app will automatically transmit the data to the CareLink™ Network when a Wi-Fi or cellular network connection is established. After 7 days of no connectivity to a Wi-Fi or cellular network, the data will be deleted.

6 Troubleshooting

6.1 Issue and System Messages

Table 11. Issue Messages

Issue Code	Message	Description	How to fix
0056	Integrity Check Failure Error	The app has had an error.	Contact your Medtronic Representative and tap X .
0060	Compatibility check error	The app has had an error.	Contact your Medtronic Representative and tap X to close the app.
2108	CareLink™ is currently unavailable	Adding a new CareLink™ Clinic or Full Reports is not available because the CareLink™ Network is unavailable.	Try one or more of the following items to resolve the issue: <ul style="list-style-type: none">• Retry adding a new CareLink™ Clinic.• Retry accessing CareLink™ Clinics or generating a Full Report.• Check that your Wi-Fi is enabled and connected to the Internet.• Contact your CareLink™ Network administrator.
2108	Authentication Unsuccessful	Authentication is unsuccessful because the CareLink™ Network is unavailable.	Retry or skip authentication. If you skip authentication, you must manually complete patient enrollment and device registration through the appropriate Medtronic websites until you authenticate.
2112	Report generation failed	A report request was made but was unable to generate.	Tap RETRY to regenerate the Full Report. If the report does not regenerate, perform the following steps: <ol style="list-style-type: none">1. Tap END SESSION to end the current CHECK REVEAL LINQ session.2. Tap CHECK REVEAL LINQ from the Reveal LINQ MOBILE MANAGER screen to initiate a new

Table 11. Issue Messages (continued)

Issue Code	Message	Description	How to fix
			CHECK REVEAL LINQ session, and regenerate the report.
2316	Serious system error	The app has had an error.	Contact your Medtronic Representative and tap X to close the app.
3230	Bluetooth® connection lost	Bluetooth pairing failed. The app is unable to connect to the requested patient connector at the beginning of a session.	Tap CANCEL and try pairing again.
3269	Connection interrupted	Ensure the patient connector is turned on and reposition the patient connector over the Reveal LINQ™ ICM to resume the connection, or end the session and connect to a different patient connector. Ending the session will cause any pending parameter changes to be lost.	To reconnect the patient connector to the Reveal LINQ™ ICM, perform the following steps: <ul style="list-style-type: none"> • Tap CLOSE to close the message. • Tap RETRY. If the patient connector is unable to reconnect to the Reveal LINQ™ ICM, tap END SESSION to close the session.
3517	Operation unsuccessful	The connection to the Reveal LINQ™ ICM was lost.	Reposition the patient connector over the patient's Reveal LINQ™ ICM and tap RETRY . If the patient connector is unable to reconnect to the Reveal LINQ™ ICM, select the available option: <ul style="list-style-type: none"> • Tap END SESSION to end the session. • Tap CANCEL to close the message.
4514	Serious Device Error	Warning: Device Electrical Reset. This alert indicates that the patient's device has been electrically reset and may require reprogramming. This can result in the loss of stored data and changes in the settings of some programmed parameters.	Contact your Medtronic Representative. Tap CLEAR to clear previously interrogated data in the programmer or END SESSION to close the session.
4514	Unknown device	A Reveal LINQ™ ICM with a different serial number, model number, or software version was detected by the patient connector.	<ul style="list-style-type: none"> • Tap END SESSION. • Repeat the interrogation. • Contact your Medtronic representative.
4522	Serious Device Error	Warning: Device Electrical Reset. This alert indicates that the patient's device has been electrically reset and may require reprogramming. This can result in the loss of stored data and changes in the settings of some programmed parameters.	Contact your Medtronic Representative. Tap CLEAR to clear previously interrogated data in the programmer or END SESSION to close the session.
5506	Check Internet connection	Certain features of this software require a connection to the Internet. You cannot authenticate, complete patient enrollment, complete device registration, transmit data to the CareLink™ Network, add a new CareLink™ Clinic, generate detailed reports, or receive software updates.	To enable all features, ensure that Wi-Fi or cellular data service is enabled and connected.
7299	Report generation failed	A report request was made but was unable to generate.	Tap RETRY to regenerate the Full Report. If the report does not regenerate, perform the following steps: <ol style="list-style-type: none"> 1. Tap END SESSION to end the current CHECK REVEAL LINQ session.

Table 11. Issue Messages (continued)

Issue Code	Message	Description	How to fix
			2. Tap CHECK REVEAL LINQ from the Reveal LINQ MOBILE MANAGER screen to initiate a new CHECK REVEAL LINQ session, and regenerate the report.
7313	Registration Unsuccessful	The systems for patient enrollment and device registration activities are currently unavailable.	Complete patient enrollment and device registration activities through the appropriate Medtronic websites.
8218	Bluetooth connection lost	The firmware update failed.	Tap CANCEL and try one or more of the following items to reestablish the Bluetooth connection and complete the firmware update: <ul style="list-style-type: none"> • Move the patient connector closer to the tablet and then tap CHECK REVEAL LINQ on the Reveal LINQ MOBILE MANAGER screen. • Uninstall and reinstall the app.
8241	Bluetooth connection lost	The Bluetooth connection failed. The app is unable to connect to the patient connector during a firmware update.	Tap CANCEL and try one or more of the following items to reestablish the Bluetooth connection and complete the firmware update: <ul style="list-style-type: none"> • Verify that the patient connector is turned on. • Move the patient connector closer to the tablet. • Tap CHECK REVEAL LINQ on the Reveal LINQ MOBILE MANAGER screen to try to reestablish the Bluetooth connection between the app and the patient connector.
8423	Could not Save	The Reveal LINQ™ ICM data could not be saved to the tablet.	Ensure that your tablet has sufficient storage space and try saving again. Tap OK .
8434	Could not Save	Reveal LINQ™ ICM data could not be saved to the tablet. Some parameters have unknown values.	End the current session and initiate a new CHECK REVEAL LINQ session.

Table 12. System Messages

Message	Description	How to fix
Clear Electrical Reset	Clearing this Electrical Reset indication will also clear any previously interrogated data in the programmer.	Tap CONTINUE to complete the clear. Tap CANCEL to go back.
Values not programmed	Continuing will cause pending parameter changes to be lost.	<ul style="list-style-type: none"> • Tap CONTINUE to end session. The pending values will not be programmed. • Tap CANCEL to close the message.
Data will be cleared	Changing SYMPTOM EPISODE DURATION will clear all SYMPTOM episodes from the Reveal LINQ™ ICM.	Tap CONTINUE to clear the Symptom Episode Data on the programmer and the device or tap CANCEL .
Data collection enabled	Data collection is enabled on this Reveal LINQ™ ICM.	Tap OK to proceed to CHECK REVEAL LINQ .
Data collection not enabled	Data collection is not enabled on this Reveal LINQ™ ICM.	Tap OK to proceed to INSERT REVEAL LINQ .
A newer version of the application is available.	Application update available	Tap UPDATE to install the update now. Tap CANCEL to install the update later.
Not enough free space	There is not enough data memory available to run the app.	Verify that there is a minimum 10 MB of internal storage available to run the app.

Table 12. System Messages (continued)

Message	Description	How to fix
Pending uploads	Wi-Fi or cellular data service is unavailable. The app cannot send the patient data to the CareLink™ Network.	<ul style="list-style-type: none"> Tap CLOSE. Enable Wi-Fi or cellular data service on the tablet.
Tablet permissions required	The app requires permission to access the Reveal LINQ™ ICM components to function correctly.	<ul style="list-style-type: none"> Tap CLOSE. Restart the app and allow permissions when prompted by the app. Locate the app settings on the tablet and enable the permissions.
You must update the application to continue.	Application update available	Tap UPDATE to install the update and continue. Tap CANCEL to close the app and install the update later.

6.2 Charging

Table 13. Patient Connector Messages

Issue Code	Message	Description	How to fix
3248	Connect charger	The patient connector battery is less than 20% charged.	Charge the patient connector battery before it becomes too low to use or switch to a different patient connector and follow the prompts on the app.
3248	-	The patient connector battery is below 5% charged and cannot be used.	Connect the patient connector to the Medtronic-supplied charger or switch to a different patient connector and follow the prompts on the app.

6.3 Updates

Medtronic will periodically push updates to the app on the tablet and software on the patient connector.

If an app update is available, you will be prompted to update the app when you launch the app unless you have enabled automatic updates on your tablet. Medtronic recommends accepting all app updates when they are available if automatic updates are not enabled on your tablet.

Standard App Updates

If the app displays a message that a newer version of the app is available, select one of the following options:

- Accept the update to update the app to the latest version.
- Decline the update to keep the app at the same version.

If you decline the app update, you will not have the most current version of the app. You will continue to receive the notification to update the app until you accept the update.

Required App Updates

If the app displays a message that the app must be updated, select one of the following options:

- Accept the update to update the app to the latest version.
- Decline the update to keep the app at the same version.

If you decline the update, the app will close. You can not use the app until you accept the app update.

Patient Connector Software Updates

When an update to the patient connector software is available, the update begins automatically after the patient connector pairs with the app.

The patient connector software update process occurs automatically. You do not need to take any action for the process to start or complete.

When the software update initiates, ensure that the patient connector has sufficient power. Plug in the patient connector if the software update initiates and the amber indicator light is lit.

When the patient connector software is updating, a software update screen displays and a progress bar shows the status of the software update. When the progress bar fills completely, the patient connector software is updated and the software update screen closes.

If you close the app or navigate away from the patient connector software update screen during the software update, the software update continues until the patient connector software update completes. You can not cancel the patient connector software update.

7 Parameter Field Descriptions

7.1 Parameter Field Descriptions

The parameter field descriptions for the contextual help in the app are listed below.

Amplitude Gauge

The amplitude gauge displays the sensed signal of the Reveal LINQ™ ICM and indicates if the Reveal LINQ™ ICM has a strong or weak sensed signal.

The amplitude gauge displays a strong sensed signal with the following indicators:

- The sensed signal is ≥ 0.20 mV.
- The sensed signal value is displayed in green.

The amplitude gauge displays a weak sensed signal with the following indicators:

- The sensed signal is < 0.20 mV.
- The sensed signal value is displayed in red.

Reason for Monitoring

Reason for Monitoring is used to recommend certain nominal settings.

You can edit parameters from the **INSERTION SUMMARY** or **QUICK LOOK** screens by tapping **EDIT PARAMETERS**.

When you select a **REASON FOR MONITORING**, parameter values for **AF Detection Sensitivity**, **Ectopy Rejection**, **AT/AF Recording Threshold**, and **Wireless Data Priority** are automatically set to default settings. You can change these default settings after you select a **REASON FOR MONITORING**.

When you change a parameter value, the new value is shown as pending. You can change several parameter values together. The values remain pending until you tap **SAVE**.

To undo your pending changes and revert to the last programmed values, tap **UNDO**.

REASON FOR MONITORING^{a,b}	AF Detection Sensitivity^c	Ectopy Rejection^c	AT/AF Recording Threshold^c	Wireless Data Priority^c
Syncope	Least Sensitive	Aggressive	Only Longest Episode	Pause, Tachy, Brady
Cryptogenic Stroke	Balanced Sensitivity	Aggressive	All Episodes	Tachy, Pause, Brady
Suspected AF	Less Sensitive	Nominal	Episodes ≥ 6 min	Tachy, Pause, Brady
AF Ablation	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
AF Management	Balanced Sensitivity	Nominal	All Episodes	Tachy, Pause, Brady
Palpitations	Less Sensitive	Nominal	Episodes ≥ 6 min	Tachy, Pause, Brady
Ventricular Tachycardia	Least Sensitive	Aggressive	Episodes ≥ 10 min	Tachy, Pause, Brady
Seizures	Least Sensitive	Aggressive	Episodes ≥ 10 min	Pause, Tachy, Brady
Other	Less Sensitive	Aggressive	Episodes ≥ 10 min	Pause, Tachy, Brady

^aFor all Reasons for Monitoring, Tachy Detection Interval is programmed automatically to the closest value less than or equal to 230 bpm minus the patient's age, as calculated from the information entered in the patient's Date of Birth.

^bFor all Reasons for Monitoring, AT/AF Detection is set to AF Only.

^cAF Detection Sensitivity, Ectopy Rejection, AT/AF Recording Threshold, and Wireless Data Priority parameters are set to pending automatically according to the selected Reason for Monitoring.

Date of Birth

Date Of Birth is used to calculate the nominal Tachy Detection Interval setting.

Patient's Local Date/Time

- Changes to the **PATIENT'S LOCAL DATE/TIME** will be applied to new data only. Timestamps of previously stored data will not be modified.
- Changing the **PATIENT'S LOCAL DATE/TIME** may cause temporary errors in CareLink™ Network reporting.
- Any episodes awaiting wireless transmission to the CareLink™ Network when the **PATIENT'S LOCAL DATE/TIME** is changed will not be sent unless a manual transmission is requested.

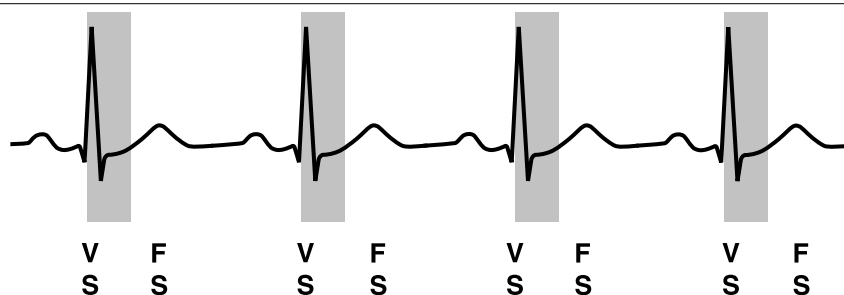
Blank after Sense

BLANK AFTER SENSE can minimize R-wave oversensing.

BLANK AFTER SENSE temporarily suspends sensing after R-wave detection for the duration of the programmed value. (Nominal setting=150 ms)

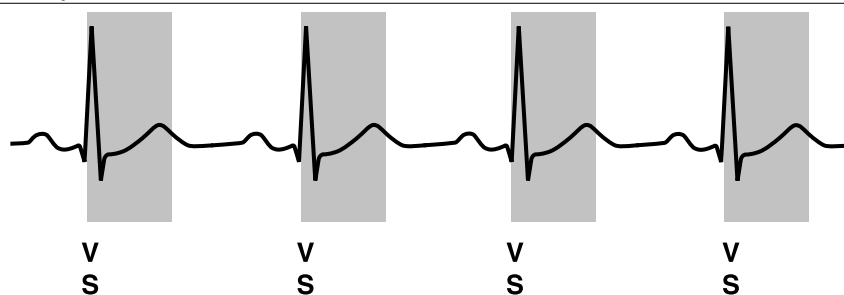
The following figure shows T-waves that are inappropriately sensed as R-waves by the Reveal LINQ™ ICM due to a low Blank after Sense setting.

Figure 1. T-Wave sensed as R-Wave



The following figure shows the elimination of T-wave sensing after programming Blank after Sense to a higher setting.

Figure 2. ECG sensed correctly



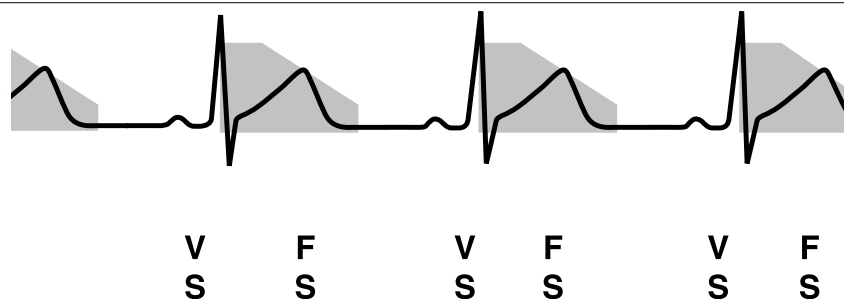
Sensing Threshold Decay Delay

SENSING THRESHOLD DECAY DELAY can minimize R-wave oversensing.

Normally, after a sensed-R-wave, sensitivity is temporarily reduced. **SENSING THRESHOLD DECAY DELAY** delays the return of sensitivity to the programmed value after a sensed R-wave. (Nominal setting = 150 ms)

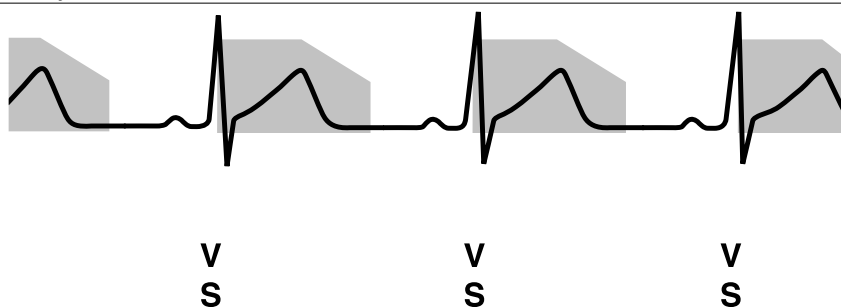
The following figure shows T-waves that are inappropriately sensed as R-waves by the Reveal LINQ™ ICM due to a low Sensing Threshold Decay Delay setting.

Figure 3. T-Wave sensed as R-Wave



The following figure shows the elimination of T-wave sensing after programming Sensing Threshold Decay Delay to a higher setting.

Figure 4. ECG sensed correctly



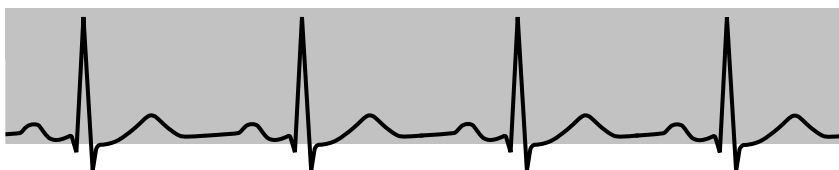
Sensitivity

Set **SENSITIVITY** to determine the amplitude threshold for R-wave detection. The nominal **SENSITIVITY** setting is 0.035 mV (35 μ V).

- Select a lower **SENSITIVITY** setting to make the Reveal LINQ™ ICM more sensitive. A lower **SENSITIVITY** setting makes the Reveal LINQ™ ICM more sensitive by detecting smaller amplitude signals.
- Select a higher **SENSITIVITY** setting to make the Reveal LINQ™ ICM less sensitive. A higher **SENSITIVITY** setting makes the Reveal LINQ™ ICM less sensitive by detecting larger amplitude signals.

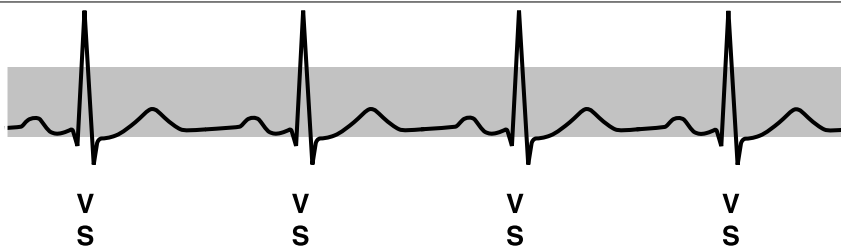
The following figure shows R-waves that are not sensed by the Reveal LINQ™ ICM due to a high Sensitivity setting.

Figure 5. ECG undersensing example



The following figure shows optimal sensing of R-waves by the Reveal LINQ™ ICM after programming Sensitivity to a lower setting.

Figure 6. ECG sensed correctly



Sleeping Hours Near Home Monitor (Daily Wireless Transmission Time)

SLEEPING HOURS NEAR HOME MONITOR (DAILY WIRELESS TRANSMISSION TIME) determines the start time for daily wireless transmissions. Select a time when the patient is expected to be near their home monitor for at least the next 5 hours (for example, during sleep). Note that the patient must avoid interacting with their home monitor during this time interval in order to avoid disrupting their daily wireless transmissions. For example, the patient must refrain from pushing any buttons on the home monitor.

Wireless Data Priority

WIRELESS DATA PRIORITY determines the selection of episodes for wireless transmission to the CareLink™ Network. The nominal setting for **WIRELESS DATA PRIORITY** is determined by **REASON FOR MONITORING**. However, the nominal setting can be overridden by selecting a different value. This setting is unrelated to Episode Priority, which affects episode storage on the Reveal LINQ™ ICM.

Implanting Physician

Select the **IMPLANTING PHYSICIAN** from the drop menu.

The implanting physician information is entered on the **EDIT PHYSICIANS LIST** screen during the setup of the app. If this step was skipped during the setup of the app, or if the tablet is not authenticated, then no implanting physician names are available in the **IMPLANTING PHYSICIAN** drop menu.

Physician information that is manually added is periodically removed. If the implanting physician is not available in the **IMPLANTING PHYSICIAN** drop menu and the tablet is authenticated, tap **Menu > SETTINGS > PHYSICIANS LIST** to add physician information. If the tablet is not authenticated, tap **Menu > UNAUTHENTICATED** to authenticate it, or enter the physician information in the field.

Follow-Up Physician

Select the **FOLLOW-UP PHYSICIAN** from the drop menu.

The follow-up physician information is entered on the **EDIT PHYSICIANS LIST** screen during the setup of the app. If this step was skipped during the setup of the app, or if the tablet is not authenticated, then no follow-up physician names are available in the **FOLLOW-UP PHYSICIAN** drop menu.

Physician information that is manually added is periodically removed. If the follow-up physician is not available in the **FOLLOW-UP PHYSICIAN** drop menu and the tablet is authenticated, tap **Menu > SETTINGS > PHYSICIANS LIST** to add physician information.

If the tablet is not authenticated, the **FOLLOW-UP PHYSICIAN** drop menu is disabled. Tap **Menu > UNAUTHENTICATED** to authenticate the tablet and enable it.

Patient Monitor Distribution

Select an option from the **PATIENT MONITOR DISTRIBUTION** drop menu:

- **YES: Distributed at Implant.**
- **NO: Not Distributed at Implant.**

If the tablet is not authenticated, the **PATIENT MONITOR DISTRIBUTION** drop menu is disabled. Tablet authentication must be completed before the **PATIENT MONITOR DISTRIBUTION** drop menu is enabled.

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