



ASSERT-IQ™
INSERTABLE CARDIAC MONITOR (ICM)



MERLIN.NET™ PCN REMOTE PROGRAMMING GUIDE

FLEXIBLE WORKFLOW TO OPTIMIZE PATIENT CARE

The Assert-IQ™ Insertable Cardiac Monitor (ICM) features the longest lasting battery at full performance, delivering clinically actionable data, IQ insights that go beyond diagnostics, and remote programmability. Remote programming allows you to adjust the settings of the device, optimize performance, and limit unnecessary alerts or transmissions for connected devices - all without requiring the patient to visit the clinic.

REMOTE PROGRAMMING IN THE MERLIN.NET™ PCN IS EASY, INTUITIVE, AND SECURE



CLINICIAN INITIATES REPROGRAMMING REQUEST via Merlin.net PCN.

Reprogramming request is **TRANSMITTED TO THE PATIENT myMerlin™ Mobile App** on a connected device without the need for an office visit.

NEW SETTINGS ARE SENT TO THE CONNECTED DEVICE.

STEP 1: INITIATE A REMOTE PROGRAMMING SESSION

Once you have identified a patient who needs device optimization, **click on the patient name** to go to the **Patient Profile** tab.

The screenshot shows the Merlin.net Patient Care Network interface. At the top, it says "Signed in as A Grant" and "Merlin.net™ Patient Care Network". Below the navigation bar, there are tabs for "Recent Transmissions", "Patient List", "Tools", and "Clinic Administration". The "Patient List" tab is active, showing a table of patients. A callout box labeled "Jones, Samantha" points to the first row in the table.

Patient	Device	Implant Date	All Transmissions	Latest Transmission	Next Transmission	Latest Comments
Jones, Samantha	Assert-IQ™ EL+ ICM, DM5500-511002866	01-11-2023	25 Remote 0 In-clinic	04-07-2023 09:25 AM	none	

If you are viewing a transmission and want to make setting adjustments for that patient, the **Patient Profile** tab is on the left.

The screenshot shows the Merlin.net Patient Profile page for a patient named Jones, Samantha. A callout box labeled "Patient Profile" points to the "Patient profile" tab. The page displays transmission details for a session on 04-07-2023 at 09:25 AM. The "FastPath™ Summary" section provides a detailed overview of the patient's device settings and clinical status.

Transmission Date: 04-07-2023 09:25 AM **Key Episodes enabled**

FastPath™ Summary

Reason for Monitoring: Ventricular Tachycardia

Last Remote Session: Apr 6, 2023

Last Clinic Session: Jan 18, 2023

Implant Date: Jan 13, 2023

Last Cleared: Today (9:25 am)

Last Programmed: Today (9:25 am)

Remaining Battery Capacity: [Progress Bar]

Episode Counts and Settings		Programmed Settings	
	Since Last Session -1 day		
AF	0	6 min	Sensing
Tachy	0	180bpm * 12 intervals	ECM Dynamic Range ± 0.40 mV
Brady	0	30 bpm	Max Sensitivity 0.125 mV
Pause	0	3.0 sec	Sense Refractory Period 250 ms
Symptom (All)	0		
Symptom (with Detection)	0		

Alerts

- Clinical**
Pause Episode Detected Apr 7, 2023

Information

- Information**
The Patient Date of Birth has not been set

Click on **Remote Programming** from the left column then click **Edit** to initiate a remote programming session.

Remote Programming

Abbott Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assert-IQ™ EL+ ICM, DM5500 Patient List > Patient profile > Remote Programming

Patient profile **Remote Programming** [EDIT](#)

PRINT PROFILE

Parameters last checked on Connectivity Latest transmission Last Programming Reason for Monitoring

04-10-2023 02:01 AM 04-07-2023 09:25 AM 04-07-2023 09:25 AM Ventricular Tachycardia

Remote Programming 04-10-2023 02:01 AM Programming History

Baseline Clinical Data

SENSING

VEGM Dynamic Range Max Sensitivity

± 0.40 mV 0.125 mV

Sense Refractory Period Sense Refractory Decay Delay Threshold Start

250 ms 60 ms 75 %

EPISODE AND ALERTS SETTINGS

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	6 min	High	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	9 hours	n/a	
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	100 bpm for 6 hours	n/a	
Tachy Episode	<input checked="" type="checkbox"/>	180 bpm for 12 intervals	High	

Abbott Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assert-IQ™ EL+ ICM, DM5500 Patient List > Patient profile > Remote Programming

Patient profile **Remote Programming** [EDIT](#)

PRINT PROFILE

Parameters last checked on Connectivity Latest transmission Last Programming Reason for Monitoring

04-10-2023 02:01 AM 04-07-2023 09:25 AM 04-07-2023 09:25 AM Ventricular Tachycardia

Remote Programming 04-10-2023 02:01 AM Programming History

Baseline Clinical Data

SENSING

VEGM Dynamic Range Max Sensitivity

± 0.40 mV 0.125 mV

Sense Refractory Period Sense Refractory Decay Delay Threshold Start

250 ms 60 ms 75 %

EPISODE AND ALERTS SETTINGS

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	6 min	High	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	9 hours	n/a	
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	100 bpm for 6 hours	n/a	
Tachy Episode	<input checked="" type="checkbox"/>	180 bpm for 12 intervals	High	

STEP 2: TWO-FACTOR AUTHENTICATION

You can choose to complete the two-factor authentication process with a **text message or email**.

You will only complete this process once per Merlin.net™ PCN session.

This is a secure process to ensure only authorized personnel make programming changes.

Additional Log On Security

An Authentication Code is required to Remotely Program patients.

1. Select the delivery method
2. Press "Get Authentication Code"
3. Enter received code and press "Continue".

Select the delivery method to receive an Authentication Code.

Text message *****7890

Email n*****@gmail.com

Get Authentication Code

Authentication code **Continue** **Cancel**

STEP 3: MAKE SETTING ADJUSTMENTS REMOTELY & SAVE

Begin making the desired setting adjustments to optimize your patient's device.

Click Save.

Abbott Signed in as A Grant Help Switch to Sign Out
Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools Clinic Administration

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assert-IQ™ EL+ ICM, DM5500
Recent Transmissions > Patient profile > Remote Programming

Remote Programming CANCEL **SAVE**

Patient & Device Data
Transmitter
Follow-up Schedule Parameters last checked on Connectivity Latest transmission Last Programming Reason for Monitoring
DirectAlerts™ Notification 04-10-2023 02:01 AM 04-07-2023 09:25 AM 04-07-2023 09:25 AM Ventricular Tachycardia
Remote Programming 04-10-2023 02:01 AM Programming History
Baseline Clinical Data

SENSING

VEGM Dynamic Range ± 0.40 mV Max Sensitivity 0.125 mV
Sense Refractory Period 250 ms Sense Refractory Decay Delay 60 ms Threshold Start 75 %

EPISODE AND ALERTS SETTINGS

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	10 min	Low	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	9 hours	n/a	
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	100 bpm for 6 hours	n/a	

Click Accept.

You can record any notes for this remote programming session in the notes section.

The screenshot shows the Abbott Merlin.net Patient Care Network interface. A 'Remote Programming' dialog box is open, displaying 'EPISODE AND ALERTS SETTINGS' for patient Jones Samantha. The dialog box has columns for 'INITIAL' and 'PROPOSED' values. A 'Note' field is highlighted with a blue box, and a blue arrow points from the 'ACCEPT' button in the dialog to a blue box labeled 'ACCEPT' on the right side of the screen.

EPISODE AND ALERTS SETTINGS	INITIAL	PROPOSED
Continuous AF threshold	2 min	* 6 min
AF Duration	0.5 min	1 min

Note: All Episodes and Stored EGMs will be cleared.

Upon accepting Remote Programming updates, pending request cannot be cancelled and new requests cannot be sent until the programming is completed.

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	6 min	High	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	9 hours	n/a	

The pending status banner confirms the remote programming changes were sent to the patient's myMerlin™ Mobile App.

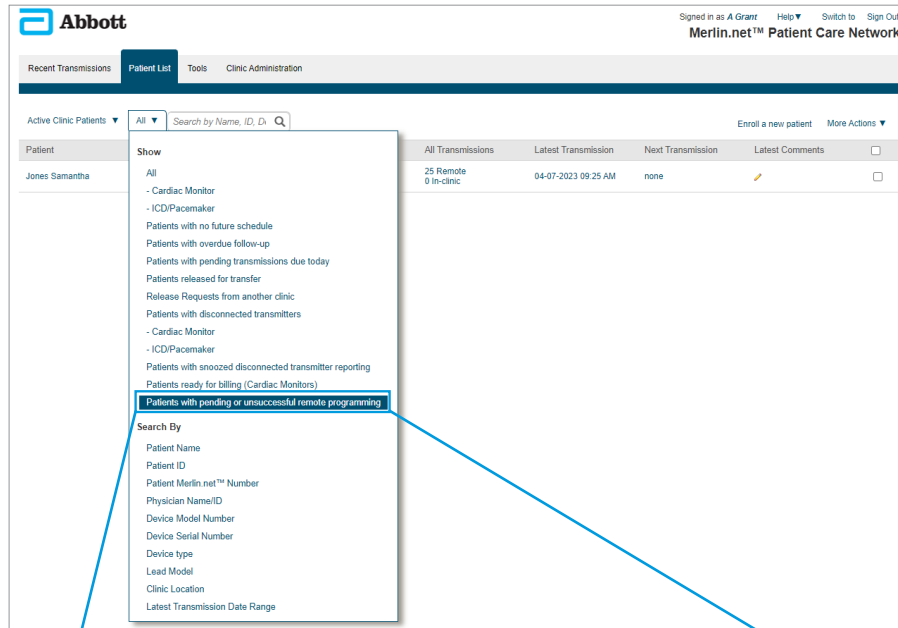
The screenshot shows the Abbott Merlin.net Patient Care Network interface. A purple banner at the top of the Remote Programming section reads: "The parameter values were sent on 04-24-2023 10:14 AM and are still pending. See Programming History for details." Below this, the "Remote Programming" section shows "Parameters last checked on" as 04-10-2023 02:01 AM and "Latest transmission" as 04-07-2023 09:25 AM.

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	6 min	High	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	9 hours	n/a	

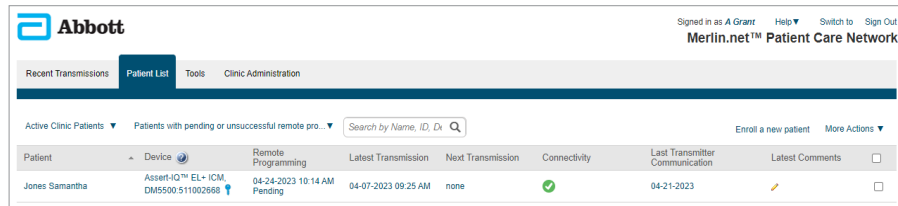
Once the myMerlin™ Mobile App is connected to the patient's Assert-IQ™ ICM, the adjustments will be made to the device.

You can view the status of all remote programming sessions by clicking on the **Patient List** tab and filtering the results by **Patients with pending or unsuccessful remote programming**.

Once the remote programming changes are made to the patient's Assert-IQ ICM, a transmission will show in the **Recent Transmission** tab with a date and time stamp.



Patients with pending or unsuccessful remote programming



The Merlin.net™ PCN will continuously attempt to send the remote programming adjustments to the patient's myMerlin Mobile App for 72 hours.

FAQs

1. Can the clinic administrator control who has access to conduct remote programming?

Yes, each clinic profile can have remote programming privileges toggled on or off by an administrator.

The screenshot displays the Merlin.net Patient Care Network interface. At the top, it shows the user is signed in as J. Smith. The main navigation bar includes 'Recent Transmissions', 'Patient List', 'Tools', and 'Clinic Administration'. The left sidebar lists various administration options, with 'Clinic Users' selected. The main content area shows a table of clinic users with columns for User Name, User type, Telephone No., and Department. Below the table is a 'User Profile' section for Tony Franklin, which includes fields for First name, Middle, Last name, User ID, Password, Confirm password, and a checkbox for 'Administrator'. The 'Remote Programming access' toggle is highlighted with a callout box, showing it is currently checked. The 'User contact information' section includes fields for Address 1, Address 2, Address 3, Country, City, State/Prov., Zip/Postal code, Main phone, Secondary phone, Fax, and Text message.

User Name	User type	Telephone No.	Department
Appleton, William	Physician	1 888 888 8888	Cardiology
Billings, Joseph	Physician	1 888 888 8888	Cardiology
Franklin, Tony	Allied Professional	1 888 888 8888	Cardiology
Glasser, Steven	Assistant	1 888 888 8888	Cardiology

Remote Programming access

User Profile

First name: Tony User ID: TonyP
Middle: Password: Confirm password: Administrator
Last name: Franklin

Remote Programming access

User contact information

Address 1: Country: USA Main phone: 1 888 888 8888 Security Stamp: 12345
Address 2: Area/City Code: Secondary phone: 1 After hours contact: None
Address 3: Phone Number: Fax: 1
City: Text message: Message and data rates may apply
State/Prov.: Email: jbillings@gmail.com
Zip/Postal code:

Note: Remote programming access is not available for users registered as **Assistants**.

2. How will a user know if a remote programming transmission is successful?

Once the parameter changes are successful, a remote programming transmission will be shown on the **Recent Transmissions** tab. A summary report with details of the changes and notes (if applicable) will be included.

The screenshot shows the Abbott myMerlin interface. On the left, the 'Recent Transmissions' tab is active, displaying a table with columns for Patient, Transmission, Schedule, Device, and Direction. A transmission for 'Smith, Sarah' on '01-10-2023, 04:42 PM' is highlighted, with a box around the transmission details. A line connects this box to the right-hand summary report.

The summary report, titled 'Remote Programming Summary Report', is for patient 'Smith, Sarah' (Assert-IQ™ 3+ ICM, DM5300: 511002658) on '01-10-2023 04:42 PM Remote'. It includes the following sections:

- Patient Information:** Date of birth (01-01-1957), Reason for Monitoring, and Other.
- Notes:** Episodes and Stored EGMs cleared, Diagnostics cleared, and Test Updates.
- Programming Changes:** A table comparing initial and present values for Sensing parameters.

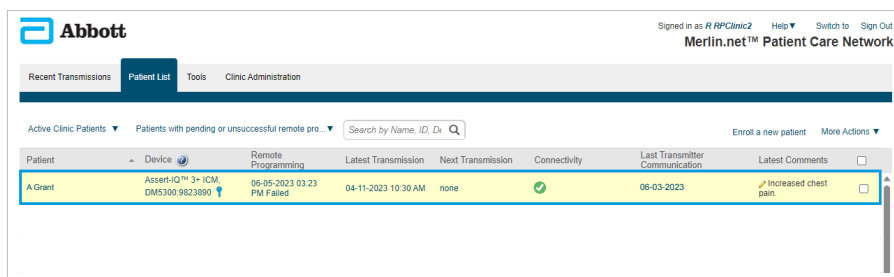
Parameter	Initial	Present
Max Sensitivity	0.125 mV	0.175 mV
Sense Refractory Decay Delay	60 ms	30 ms
Episode and Alerts Settings	Initial	Present
AF Duration	10 min	2 min
Continuous AF threshold	30 min	*6 min
- All Present Parameters:** A list of current parameter values, including Sensing (Present), Max Sensitivity (0.175 mV), Sense Refractory Decay Delay (30 ms), Sense Refractory Period (250 ms), Threshold Start (75%), VEGM Dynamic Range (± 0.40 mV), Episode and Alerts Settings (Present), AF Burden Alert (On), AF Burden: Total Time in AF (6 hours), AF Duration (2 min), AF EGM Trigger Priority (High), AF Episode Detection (On), Brady Cutoff Rate (30 bpm), Brady EGM Trigger Priority (High), Brady Episode Detection (On), Continuous AF Episode Alerts (On), Continuous AF threshold (6 min), High V Rate Threshold (100 bpm), and Pause Duration (3.0 sec).

At the bottom of the report, it states: 'Assert-IQ™ 3+ ICM, DM5300(511002658 pr04.20.71.00) myMerlin™APP1000 v2.0.0 MN7000 v0.21.rev3' and 'Remote Programming Summary Report Page 1 of 2 01-10-2023 04:42 PM'.

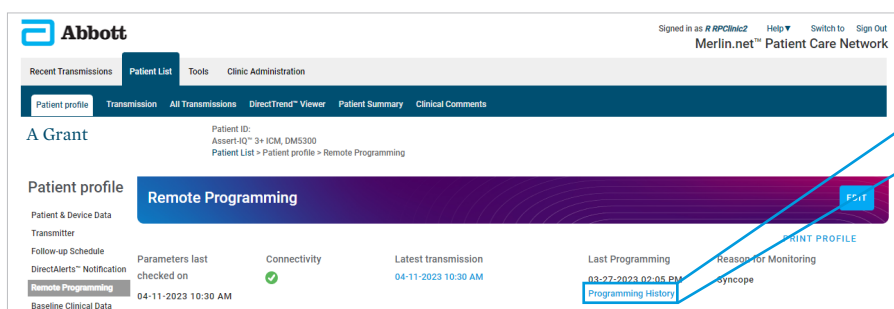
3. What should a user do if a remote programming transmission is unsuccessful?

If the remote programming request is unsuccessful, a user can resubmit the parameter changes without having to re-enter each change. To retry a remote programming session, follow the steps below.

STEP 1: SELECT AN UNSUCCESSFUL REMOTE PROGRAMMING REQUEST



STEP 2: CLICK ON PROGRAMMING HISTORY



STEP 3: REVIEW THE REMOTE PROGRAMMING REQUEST, MAKE ANY NECESSARY NOTES, AND SELECT “RETRY”

Programming History

Programming Changes (Remote)

06-05-2023 3:23 PM Unsuccessful - verify patient's Connectivity.

SENSING	INITIAL	PROPOSED
Sense Refractory Decay Delay	95 ms	190 ms
Sense Refractory Period	250 ms	350 ms

* Auto-programmed

Note:

CLOSE RETRY

RETRY

For any questions, please reach out to your Abbott Sales Representative.

For technical support please contact the Remote Care Technical Support Team.

United States and Canada

1 877-696-3754, or email myMerlin@abbott.com

Monday-Friday 8 a.m.-8 p.m. EST



Scan the QR code to watch the Remote Programming Video.

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

Indications for Use: The Assert-IQ™ ICM is indicated for the monitoring and diagnostic evaluation of patients who experience unexplained symptoms that may be cardiac-related such as: dizziness, palpitations, chest pain, syncope, and shortness of breath, as well as patients who are at risk for cardiac arrhythmias such as bradycardia, tachycardia, and sinus pauses.

The Assert-IQ ICM is also indicated for patients who have been previously diagnosed with atrial fibrillation (AF) or who are susceptible to developing AF. The Assert-IQ ICM is intended to be inserted subcutaneously in the left pectoral region, also described as the left anterior chest wall. The Assert-IQ ICM has not been specifically tested for pediatric use.

Intended Use: The Assert-IQ ICM is intended to help physicians and clinicians monitor, diagnose and document the heart rhythm in patients who are susceptible to cardiac arrhythmias and unexplained symptoms by detecting arrhythmias and transmitting data for review.

Contraindications: There are no known contraindications for the insertion of the Assert-IQ ICM. However, the patient's particular medical condition may dictate whether or not a subcutaneous, chronically inserted device can be tolerated.

Potential Adverse Events: Possible adverse events (in alphabetical order) associated with the device, include the following: allergic reaction, bleeding, chronic nerve damage, erosion, excessive fibrotic tissue growth, extrusion, formation of hematomas or cysts, infection, keloid formation and migration.

Refer to the User's Manual for detailed indications for use, contraindications, warnings, precautions and potential adverse events.

Remote Programming with Merlin.net PCN is available for DM5500 and DM5300 models.

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