

# BIOTRONIK

## Home Monitoring<sup>®</sup>

### Step-By-Step Guide



**BIOTRONIK**  
excellence for life



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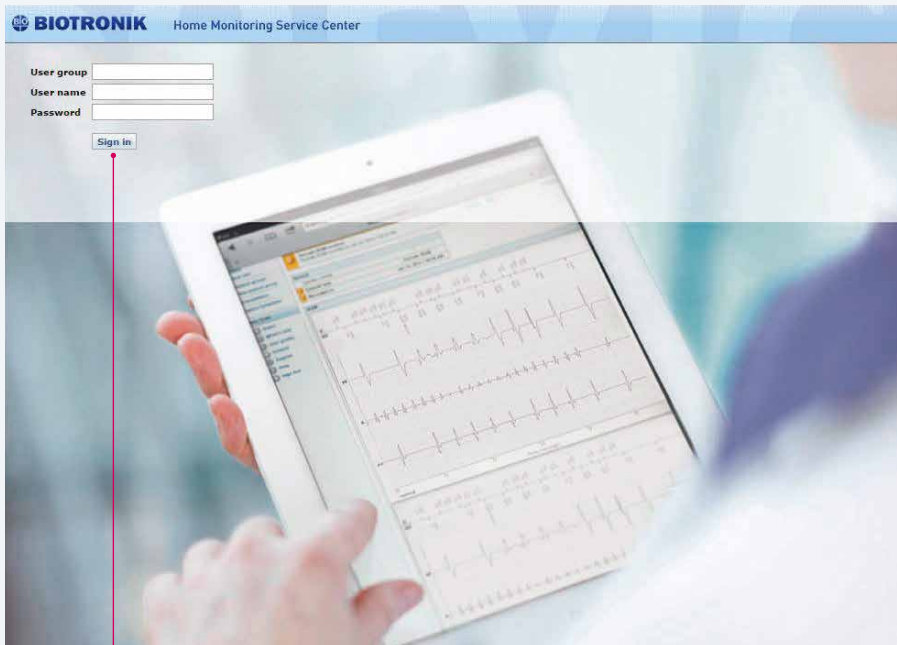
Log in to Site

## Log in to Site

**Please enter user group, user name and password.  
All three items are case-sensitive.**

- The password for new users will be sent by email as noted on the registration form.
- After successfully signing in to the system for the first time, you are prompted to change your password. The change password view opens automatically.

**1** Click on "Sign in".





A woman with short brown hair, wearing a white lab coat over a purple collared shirt, is looking down at a tablet computer she is holding with both hands. She is standing on a balcony with a metal railing, and a blurred cityscape is visible in the background. The image is part of a presentation slide, with a decorative blue wavy line graphic on the right side.

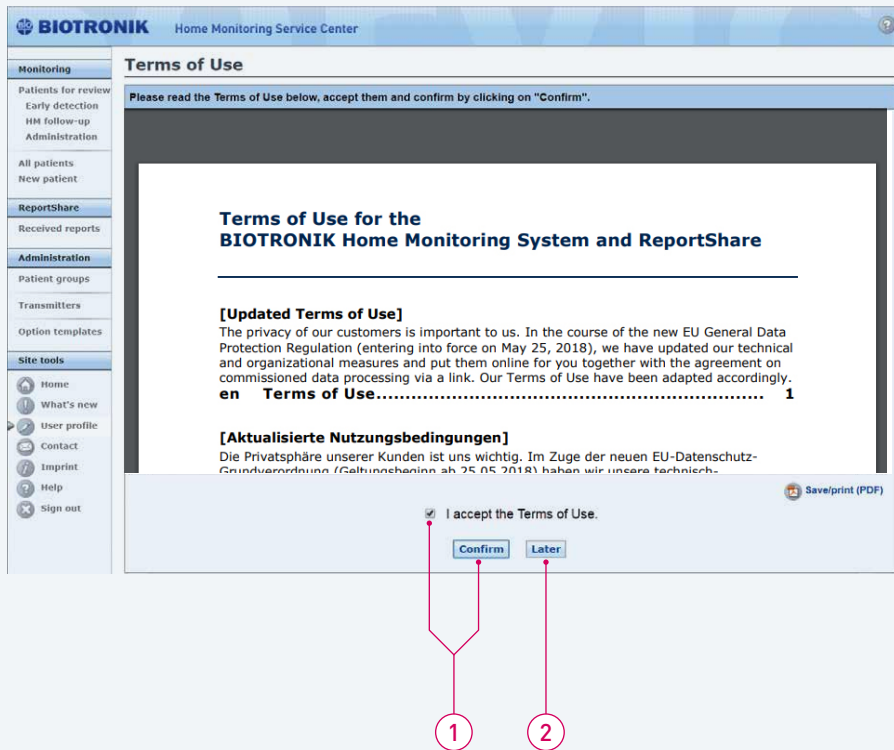
**Agree to Terms of Use**

## Terms of Use

After login for the first time, you are requested to agree to the terms of use.

Terms of use are available in five languages.

- 1 Accept the terms of use and continue.
- 2 Seven days after choosing „Later“, you will be requested to agree to the terms again.





## How to Add a New Patient



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## How to Add a New Patient

Enter basic patient data the first time  
you register a new patient:

- 1 Type a patient identifier code or record number.
- 2 Select the patient group to which the new patient should be assigned.
- 3 Type in the serial number and PID\* of the device and click on "Identify".
- 4 By acknowledging the patient's declaration of consent, you may continue adding additional patient information.
- 5 Click here to continue.

**BIOTRONIK** Home Monitoring Service Center

**New patient**

**Patient data**

All fields with (\*) must be filled out.

**General settings**

Patient ID \*

Patient group \*

Device SN \*

Device PID  (entering the PID is not required for older devices)

Device model

Implantation date

Patient profile comment

**Personal patient data**

Patient consent ☐ Patient has agreed that BIOTRONIK may store his/her personal data.



## How to Configure Remote Scheduling



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ONLY FOR SELECTED  
DEVICES

## How to Configure Remote Scheduling

With Remote Scheduling, you can set the transmission interval of Home Monitoring follow-ups via the Home Monitoring Service Center:

- 1 Click on "Enable" or "Disable" Remote Scheduling.
- 2 Set the date of the next Home Monitoring follow-up.
- 3 Set the minimum period of time that shall exist between two Home Monitoring follow-ups.
- 4 Select the day of the week when you would like to receive the Home Monitoring follow-up. The day to be selected depends on your clinic's organization.  
→ Your next five scheduled Home Monitoring follow-ups will appear automatically. Note that further Home Monitoring follow-ups are scheduled beyond these dates without any further actions.
- 5 Click here to continue.

**BIOTRONIK** Home Monitoring Service Center

**New patient**

**Remote Scheduling**

Below you can configure Home Monitoring-supported follow-ups for this device. Please consider that the configuration needs a few days to be activated in the device.

Configuration

Remote Scheduling ☐ Disable ☒ Enable

Next HM follow-up November 21 2017

Days between two HM follow-ups 91

HM follow-ups shall occur on Tuesdays

Next HM follow-ups Tue Nov 21, 2017 Tue Feb 20, 2018 Tue May 22, 2018 Tue Aug 21, 2018 Tue Nov 20, 2018

<< Back Continue >>



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ONLY FOR SELECTED  
DEVICES

## How to Change the Patient's Notification Options



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## How to Change the Patient's Notification Options

After adding a new patient, the system will redirect you to the notification options. Click on “Edit” to see all options:

1 Options

2 Edit

The screenshot shows the Biotronik Home Monitoring Service Center interface. The patient ID is I2-7-HFTQP-8680. The status is 'Status on Nov 7, 2017 4:39 PM'. The device is 'Iperia 7 HF-T QP / SN: 60798680'. The 'Options' tab is selected, showing various settings for the device, including 'Device', 'Lead', and 'Atr. arrhythmia'. The 'Edit' button is highlighted with a red circle and arrow.

1 2 3 4 5

Device			
			Off
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Special device status, ICD therapy disabled, Emergency brady active, Backup mode, EOS, Shock impedance < 20 ohm
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	MRI mode active
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	ERI
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Programmer triggered message received
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Atrial tachy therapy disabled
Lead			
			Off
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	RA pacing impedance: < 250 ohm ▼ or > 1500 ohm ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	RA sensing amplitude (daily mean): < 0.5 mV ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	RA pacing threshold: > 2.0 V ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	RA capture control repetitively failed for 7 times ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	R/V pacing impedance: < 250 ohm ▼ or > 1500 ohm ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	R/V sensing amplitude (daily min.): < 2.0 mV ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	R/V pacing threshold: > 2.0 V ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	R/V capture control repetitively failed for 7 times ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	LV pacing impedance: < 250 ohm ▼ or > 1500 ohm ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	LV sensing amplitude (daily mean): < 2.0 mV ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	LV pacing threshold: > 2.0 V ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	LV capture control repetitively failed for 7 times ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Daily shock impedance: < 30 ohm ▼ or > 125 ohm ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shock impedance: < 30 ohm ▼ or > 125 ohm ▼
Atr. arrhythmia			
			Off
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Atrial burden: > 25% of day ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mean ventricular rate during atrial burden > 130 bpm ▼ for > 10% of day ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Long atrial episode detected
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Atrial monitoring episode: every ▼
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Atrial therapy episode: every ▼

## How to Change the Patient's Notification Options

On the “Options” tab, select a notification parameter for each finding for each patient:

- 1 + If this option is selected for a finding, the patient status becomes red and a notification is sent to the recipients specified for the patient's patient group.
- 2 + If this option is selected for a finding, the patient status becomes at least yellow (if there is no “red” finding) and a notification is sent to the recipients specified for the patient's patient group.
- 3 If this option is selected for a finding, the patient status becomes at least yellow (if there is no “red” finding), but no notification is sent.
- 4 If this option is selected, the finding is switched off.
- 5 Adjust the parameters if desired.

After applying, you can save the settings as a template for the device type.



## How to Change Notifications According IN-TIME Approach



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Status on Nov 22, 2017 6:24 PM      Itrevia 5 HF-T QP / SN: 34567890  
Implantation: Jan 21, 2016

Options

**Device**

Off

Special device status, ICD therapy disabled, Emergency brady active, Backup mode, EOS, Shock impedance < 20 ohm

MRI mode active

ERI

Programmer triggered message received

**Lead**

Off

RA pacing impedance: < 250 ohm or > 1500 ohm

RA sensing amplitude (daily mean): < 0.5 mV

RA pacing threshold: > 2.0 V

RA capture control repetitively failed for: 7 times

RV pacing impedance: < 250 ohm or > 1500 ohm

RV sensing amplitude (daily min.): < 2.0 mV

RV pacing threshold: > 2.0 V

RV capture control repetitively failed for: 7 times

LV pacing impedance: < 250 ohm or > 1500 ohm

LV sensing amplitude (daily mean): < 2.0 mV

LV pacing threshold: > 2.0 V

LV capture control repetitively failed for: 7 times

Daily shock impedance: < 30 ohm or > 125 ohm

Shock impedance: < 30 ohm or > 125 ohm

**Atr. arrhythmia**

Off

Atrial burden: > 25% of day

Mean ventricular rate during atrial burden: > 130 bpm for > 10% of day

Long atrial episode detected

Atrial monitoring episode: every

SVT detected: every

**Ven. arrhythmia**

Off

VT1 monitoring episode(s) detected: every

VT1 detected: every

VT2 detected: every

V/F detected: every

Ineffective ven. max. energy shock(s)

**HF monitor**

Off

CRT pacing: < 80%

BNV pacing: < 80%

Mean ven. heart rate: > 80 bpm

Mean ven. heart rate at rest: > 80 bpm

Mean PVC/h: > 50 PVC/h

**Episode**

Off

Ven. therapy episode with long duration: > 2 min

Ven. monitoring episode with long duration: > 5 min

Ven. episode with acceleration of atr. rhythm below: 500 ms

Ven. episode with acceleration of ven. rhythm

Ven. episode with 2 or more started shocks

Episode details received: all

**Home Monitoring**

Off

First message received

No messages received for: 3 days

Patient not viewed for: 3 months

HM follow-up transmission has arrived

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## How to Change Notifications According IN-TIME Approach

To be conform with the IN-TIME approach as recommended in the 2016 guidelines, make the following changes to the patient's notifications:

2016 ESC Guidelines for diagnosis and treatment of acute and chronic heart failure:

Recommendations	Class	Level
Multiparameter monitoring based on ICD (IN-TIME approach) may be considered in symptomatic patients with HFrEF (LVEF ≤35%) in order to improve clinical outcomes.	<b>I Ib</b>	<b>B</b>

- 1 Device and Lead: Standard
- 2 Atrial arrhythmias:  
Atrial burden: >25% of day
- 3 Ventricular arrhythmias: Select all as red alerts
- 4 HF monitor: CRT <80%, Mean PVC/h >100
- 5 Home Monitoring: No message received for: 3 days



The content of the "Options" tab depends on the device of the patient.

Hindricks G et al., Implant-based multiparameter telemonitoring of patients with heart failure (IN-TIME): a randomised controlled trial. The Lancet 2014; 384(9943).

Ponikowski P et al., ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Heart Journal 2016; 37, 2129-2200.

Early detection  
HM follow-up  
QuickCheck  
Administration

All patients  
New patient

Administration  
Users  
New user

Patient groups  
New patient group

Transmitters

Option templates

Clinic settings

Site tools  
Home  
What's new  
User profile  
Contact  
Help  
Sign out

4 Status on Apr 10, 2019 10:13 AM Acticor 7 HF-T QP / SN: 23456789

Status Device settings Recordings Patient App History Patient profile Options QuickCheck

Applied: System template - IN-TIME Edit

Device

- Special device status, ICD therapy disabled, Emergency brady active, Backup mode, EOS, Shock impedance < 20 ohm
- MRI mode active
- ERI
- Programmer triggered message received

Lead

- RA pacing impedance: < 250 ohm or > 1500 ohm
- RA sensing amplitude (daily mean): < 0.5 mV
- RA pacing threshold: > 2.0 V
- RA capture control repetitively failed for 7 times
- RV pacing impedance: < 250 ohm or > 1500 ohm
- RV sensing amplitude (daily min.): < 2.0 mV
- RV pacing threshold: > 2.0 V
- RV capture control repetitively failed for 7 times
- LV pacing impedance: < 250 ohm or > 1500 ohm
- LV sensing amplitude (daily mean): < 2.0 mV
- LV pacing threshold: > 2.0 V
- LV capture control repetitively failed for 7 times
- LV2 pacing impedance: < 250 ohm or > 1500 ohm
- LV2 pacing threshold: > 2.0 V
- LV2 capture control repetitively failed for 7 times
- Daily shock impedance: < 30 ohm or > 125 ohm
- Shock impedance: < 30 ohm or > 125 ohm

Atr. arrhythmia

- Atrial burden: > 50% of day
- Mean ventricular rate during AT/AF > 120 bpm for > 20% of day
- Long atrial episode detected
- Atrial monitoring episode: every
- Atrial therapy episode: every
- SVT detected: every
- Atrial tachy therapy disabled

Ven. arrhythmia

- VT1 monitoring episode(s) detected: every
- VT1 detected: every
- VT2 detected: every
- VF detected: every
- Ineffective ven. max. energy shock(s)
- Ventricular ATP disabled

HF monitor

- Resynchronization therapy: CRT pacing < 80%
- Mean PVC/h: > 100 PVC/h

Episode

- Ven. therapy episode with long duration: > 2 min
- Ven. monitoring episode with long duration: > 5 min
- Ven. episode with acceleration of atr. rhythm below 500 ms
- Ven. episode with acceleration of ven. rhythm
- Ven. episode with 2 or more started shocks
- Details for arrhythmia episode(s) received: all types
- Details for non-arrhythmia episode(s) received: all types

Home Monitoring

- First message received
- No messages received for 3 days
- HM follow-up transmission has arrived
- QuickCheck transmission has arrived

Finding options comment

No comments entered.

Applied: System template - IN-TIME Edit

Option templates

Load -- Select a template -- [checkmark]



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## How to Change Notifications According IN-TIME Approach

The Acticor and Rivacor families feature the new IN-TIME template. This exclusive Home Monitoring alert template provides one-click access to IN-TIME protocol.

- 1 Go to the "Option templates" at the end of the page.
- 2 Choose the IN-TIME template from the drop-down and click the check mark button.

Option templates

Load -- Select a template -- [checkmark]

-- Select a template --  
Default settings  
Minimum settings  
IN-TIME

- 3 The IN-TIME alert setting is now displayed. Confirm the setting at the end of the page. Now, the IN-TIME template is active for this patient.



The content of the "Options" tab depends on the device of the patient.

## How to Create a Template



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# How to Create a Template

## Save and rename edited notifications as a template

- 1 Apply the notifications after editing
- 2 Save the notifications as a template
- 3 Rename the template and apply

The screenshots illustrate the process of creating a template in the Biotronik Home Monitoring Service Center:

- Step 1:** The 'Finding options comment' section shows 'IN-TIME protocol'. The 'Apply' button is highlighted with a red dashed box and a red circle labeled '1'.
- Step 2:** The 'Option templates' section shows 'Load <Select a template>'. The 'Save' button is highlighted with a red dashed box and a red circle labeled '2'.
- Step 3:** The 'Add new option template' section shows 'New template name' as 'IN-TIME Protocol'. The 'Apply' button is highlighted with a red dashed box and a red circle labeled '3'.

The interface includes a sidebar with navigation options: Monitoring, Patients for review, All patients, ReportShare, Received reports, Administration, and Site tools. The main content area displays patient information for 'I2-5-HFTQP-2627' and the 'Options' tab.





## How to Add a New User



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## How to Add a New User

If you want to add a new user to your user group, simply fill out the appropriate fields, then indicate whether the user should be a user administrator or physician user.

- A user administrator can add new users and has essentially full access to all patient groups.
- Each group should have two user administrators to ensure that each administrator can substitute for the other.
- A physician user is granted access with or without the ability to change patients' settings by the user administrator.
- A user group should have a maximum of two administrators and up to 25 physician users. The numbers of administrators can be extended via request to BIOTRONIK Home Monitoring Customer Service Center.

1 Click here to add the user.

**BIOTRONIK** Home Monitoring Service Center

**New user**

Add new user

All fields with (\*) must be filled out.

User name \*

First name \*

Last name \*

E-mail \*

Password \*

Confirm password \*

Role \*

Language \*

Add user

1

### Daniel Ross: Edit patient group access

Patient groups 1 - 1 of 1

Display 10 20 50

~Patient group	Full access	Read only	No access
HF patients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Brady-Tachy patients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ReportShare	<input checked="" type="radio"/> Full access	<input type="radio"/> No access	
In-office follow-up reports	<input type="radio"/>	<input type="radio"/>	

1 - 1 of 1

1 2 3 5

### Users

Users 1 - 3 of 3

Search  Display 10 20 50

~User name	Name	Role	Access rights	Last sign-in
dross	Daniel Ross	Physician	<input checked="" type="button" value="edit"/>	Nov 18, 2017
kmiller	CV-nurse Kelly Miller	User Administrator	<input type="button" value="edit"/>	Nov 20, 2017
alami	Dr. Hassan Alami	User Administrator	<input type="button" value="edit"/>	Nov 15, 2017

1 - 9 of 9

4

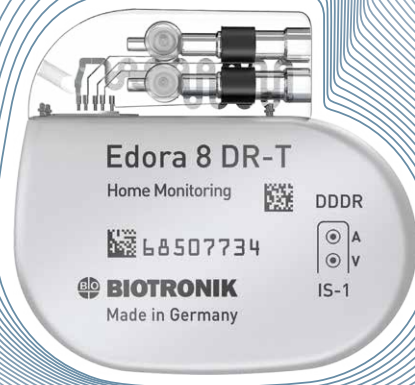
## How to Add a New User

After adding a user, the administrator has to define that user's access rights.

This screen pops up automatically.

- 1 User gains full access to the designated patient group.
- 2 User can only view patient data, but cannot change any settings or acknowledge a finding.
- 3 User will not be able to see any patients within this group.
- 4 The administrators can at any time change the access rights of a user by editing the patient group access.
- 5 Click the "Apply" button.

## How to Add a New Patient Group



ONLY ADMINISTRATORS ARE ENABLED TO CREATE A NEW PATIENT GROUP.



EVERY USER WITH FULL ACCESS TO THIS PATIENT GROUP CAN ADD A PERSONAL NOTIFICATION MODE.

## How to Add a New Patient Group

If you would like to add a new patient group to your user group, you simply fill out the form and specify the desired notification modes.

- 1 You can simply reuse the preestablished notification modes from an existing group.
- 2 Or, you can select the desired communication settings according to the color-coded finding.
- 3 Add more options for email or SMS if desired.

**New patient group**

Add new patient group

All fields with (\*) must be filled out.

Patient group name \*

Comment (Max. 1,000 characters)

**Communication settings**

Copy settings from: <Please select> Confirm

E-mail: Off Recipient information (optional) More

SMS: Off Recipient information (optional) More

Add patient group



ONLY ADMINISTRATORS ARE ENABLED TO CREATE A NEW PATIENT GROUP.



EVERY USER WITH FULL ACCESS TO THIS PATIENT GROUP CAN ADD A PERSONAL NOTIFICATION MODE.

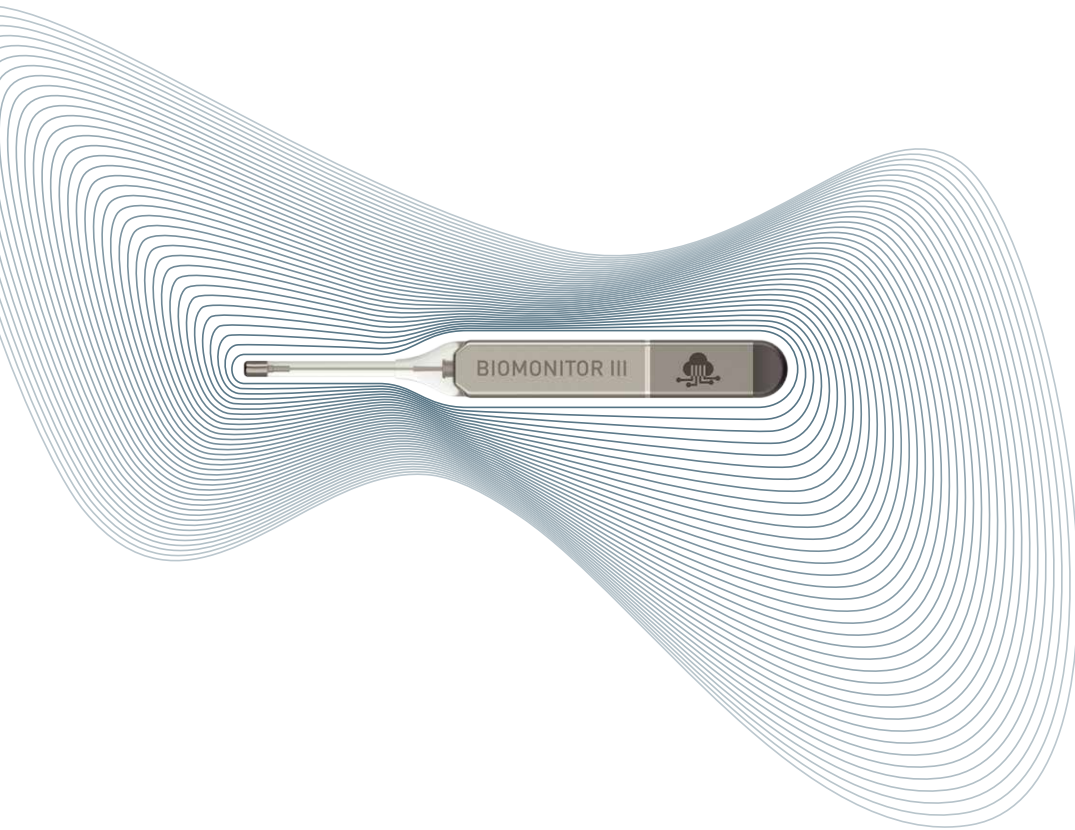


## How to Review a Patient

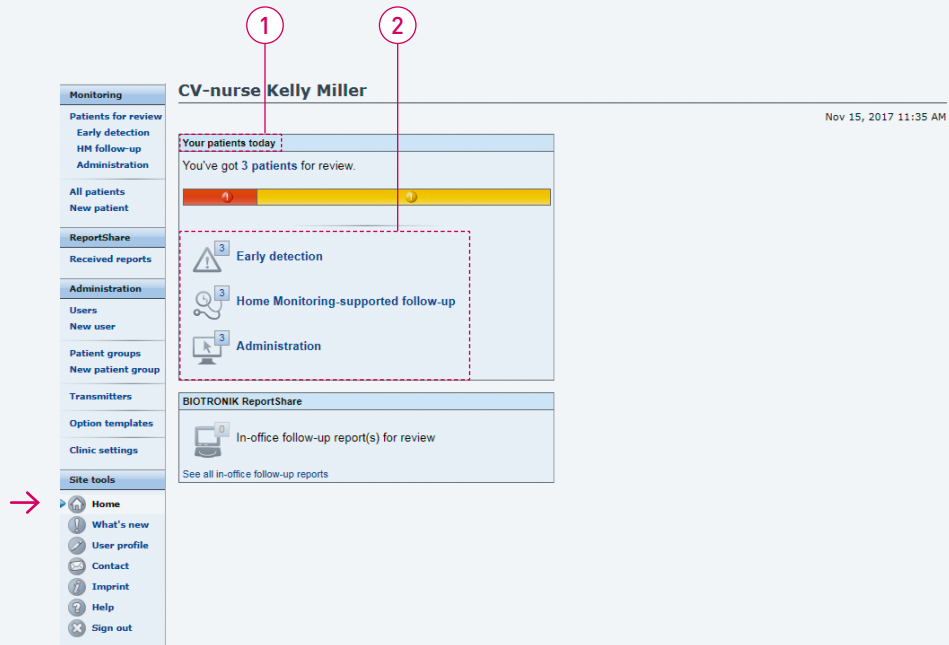
Patients for Review

Quick View Report

Acknowledge Function



## Patients for Review



## How to Review a Patient

After signing in to the Home Monitoring Service Center, the workflow assist feature is displayed automatically.

- 1 The “Your patients today” section informs you about the general status of your patients.
- 2 Click on specific options to review and acknowledge your patients’ findings:
  - The “Early detection” link displays only those patients who have at least one new clinically relevant and device-related finding, such as ventricular fibrillation (VF) or ventricular tachycardia (VT) detected.
  - The “Home Monitoring-supported follow-up” link displays only those patients for whom a trigger for a Home Monitoring-supported follow-up has been received (Home Monitoring follow-up transmission has arrived).
  - The “Administration” link displays only those patients who have at least one new administrative finding (e.g., first message received, no message received).



If you receive a notification via email stating that a finding has been detected for a certain patient, you may use these links in the email to sign in quickly.

## Patients for Review

The screenshot shows the 'Patients for review' section of a medical monitoring system. A red arrow points to the 'Patients for review' link in the left sidebar. The main area displays a table of patients requiring attention. Four numbered callouts point to specific elements: 1 points to the Patient ID, 2 points to the Main finding, 3 points to the Device and implantation date, and 4 points to the Previous comments added by a user with access rights.

Patient ID	Main Finding	Device/SN	Implantation	Comment
12-7-HFT-5678	Ven. arrhythmia V.F. ...	Iperia 7 HF-T 12345678	Apr 14, 2016	
12-5-DRT-9360	At. arrhythmia A-Epis. ...	Itrevia 5 DR-T 23456789	Feb 12, 2017	
12-5-HFTQP-2627	HF monitor LowCRT. ...	Itrevia 5 HF-T QP 34567890	Jan 21, 2016	Call in if CRT% less than 80%

## How to Review a Patient

The “Patients for review” list shows only those patients requiring attention for

- Early detection
- Home Monitoring-supported follow-up
- Administration

The color code or status helps you to differentiate the clinical priorities.

- 1 Patient ID
- 2 Main finding
- 3 Device and implantation date
- 4 Previous comments added by a user with access rights

Click on the **patient ID code** to focus on the finding.

## Patients for Review

**Monitoring**

**I2-7-HFT-5678**

Back to overview Patient 5 / 6 (filtered)

**Status on Nov 14, 2017 5:14 PM** Iperia 7 HF-T / SN: 12345678  
Implantation: Apr 14, 2016

Summary Device Lead Bradycardia/CRT Atr. arrhythmia Ven. arrhythmia Physiologic. param. HF monitor

Findings overview	Summary text of finding	Findings overview with link to finding details	Display recordings details (type of the episode* and possibly transmitted IEGM)
Lead	LV pacing threshold intermittently above limit (> 2.0 V) Intermittently above limit since Nov 1, 2017 1:20:02 AM - Last value 1.2 V measured on Nov 14, 2017 1:20:02 AM	New	Acknowledge
Ven. arrhythmia	Vf detected 1 VF detected between Nov 12, 2017 1:20:02 AM and Nov 12, 2017 5:49:24 AM	New	Acknowledge
Recordings / Episode	Episode details received (all) Details were received for 1 spontaneous episodes, which was detected between Nov 12, 2017 01:20:02 AM and Nov 12, 2017 5:49:24 AM	New	Acknowledge

Automatic remark Follow-up recommended

Remote Scheduling

Quick View

Status comment

Timeline

Export Save/print (PDF)

## How to Review a Patient

By clicking on a patient's ID code, you can review his/her clinical status summary

- 1 Patient status
- 2 By clicking on "Quick View", you can review a comprehensive summary of clinically relevant information on one page.
- 3 Finding overview with link to finding details
- 4 Summary text of finding
- 5 Display recordings details (type of the episode\* and possibly transmitted IEGM)

\* Episode parameters depend on the device model of the selected patient.

## Patients for Review

The screenshot shows the 'Patients for Review' interface. On the left is a sidebar with navigation options: Monitoring, Patients for review, Early detection, HM follow-up, Administration, All patients, New patient, ReportShare, Received reports, Administration, Users, New user, Patient groups, New patient group, Transmitters, Option templates, Clinic settings, and Site tools. The main content area displays patient information for 'I2-7-HFT-5678'. At the top, there's a 'Back to overview' button and a patient list showing 'Patient 5 / 6 (filtered)'. Below this is a status bar for 'Nov 14, 2017 5:14 PM' and patient details 'Iperia 7 HF-T / SN: 12345678'. The interface includes tabs for Status, Device settings, Recordings, History, Patient profile, and Options. A table lists findings: Lead (LV pacing threshold), Ven. arrhythmia (VF detected), and Recordings / Episode (Episode details received). Each finding has an 'Acknowledge' button. At the bottom, there's a 'Timeline' section, an 'Add comment' button, and 'Export' and 'Save/print (PDF)' buttons. Numbered callouts indicate: 1. Patient list, 2. Timeline, 3. Acknowledge button, 4. Export button, and 5. Add comment button.

## How to Review a Patient

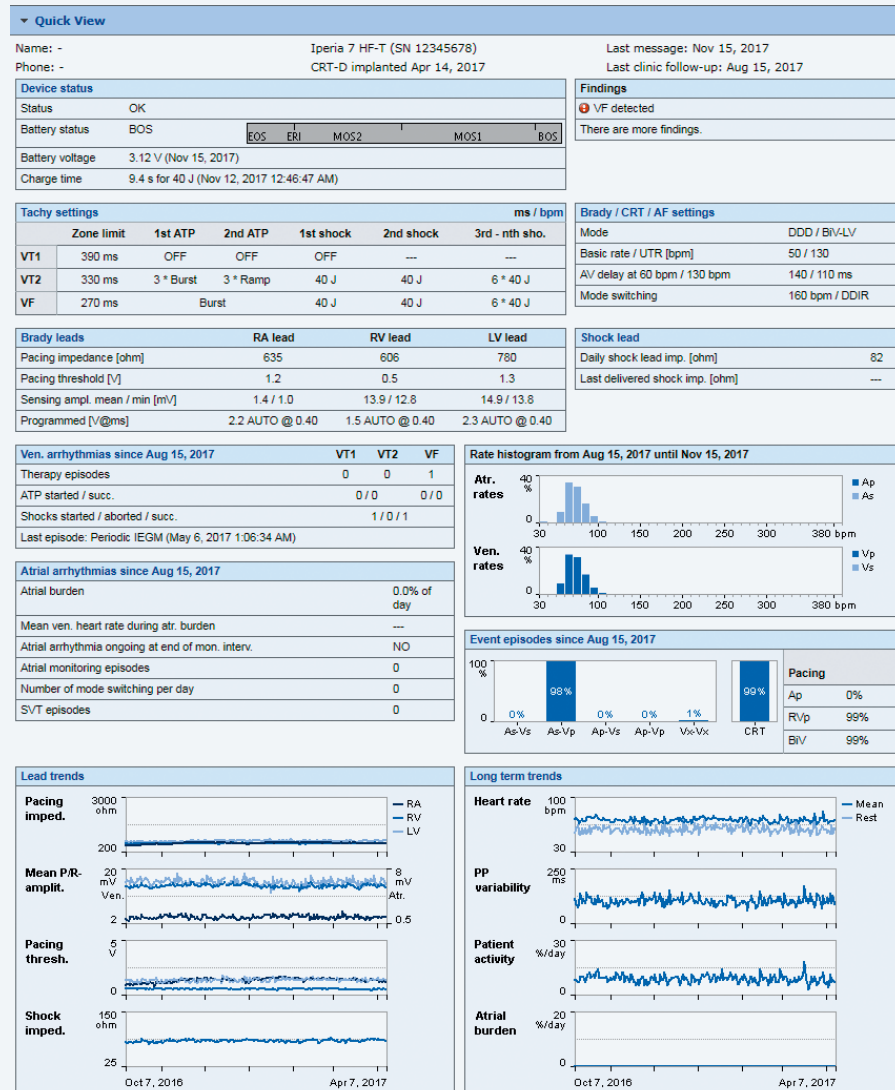
The status summary gives you the chance to:

- 1 See the patient status.
- 2 Consult a patient timeline, which allows you to see a 90-day history of the findings.
- 3 Add specific comments about newly acknowledged findings.
- 4 Export to EHR (electronic health record) system. (EHR DataSync must be configured by the administrator in clinical settings.)\*
- 5 To review the next patient, click on the arrow.

\* Note for customers in the United States: Export feature available. Must be activated. Contact BIOTRONIK representative to initiate.



## Quick View Report



## How to Review a Patient

The Quick View provides a fast and easy review of all relevant patient and device data at a glance.

- Device status
- Findings
- Tachy settings
- Brady/CRT/AF settings
- Brady leads
- Shock lead
- Ventricular arrhythmias
- Rate histogram
- Atrial arrhythmias
- Event episodes
- Lead trends
- Long term trends

## Acknowledge Function

**I2-7-HFT-5678** Back to overview Patient 5 / 6 (filtered)

**Status on Nov 14, 2017 5:14 PM** Iperia 7 HF-T / SN: 12345678  
Implantation: Apr 14, 2015

Summary Device Lead Bradycardia/CRT Atr. arrhythmia Ven. arrhythmia Physiologic. param. HF monitor

Lead	LV pacing threshold intermittently above limit (> 2.0 V) Intermittently above limit since Nov 1, 2017 1:20:02 AM - Last value 1.2 V measured on Nov 14, 2017 1:20:02 AM	New	<a href="#">Acknowledge</a>
Ven. arrhythmia	VF detected 1 VF detected between Nov 12, 2017 1:20:02 AM and Nov 12, 2017 5:49:24 AM	New	<a href="#">Acknowledge</a>
Recordings / Episode	Episode details received (all) Details were received for 1 spontaneous episodes, which was detected between Nov 12, 2017 01:20:02 AM and Nov 12, 2017 5:49:24 AM	New	<a href="#">Acknowledge</a>

Automatic remark Follow-up recommended

Remote Scheduling

Quick View

Status comment

Timeline

Export Save/print (PDF)

## How to Review a Patient

When reviewing the clinical status of a patient, you can acknowledge findings:

### By acknowledging a finding:

- Some immediately turn white because the underlying condition is over.
- Others may remain colored if the condition still requires additional measurements to confirm that the finding is resolved. For example: A finding of threshold measurement requires that the finding is solved before it turns white.

To acknowledge a finding, you need full access to the patient's corresponding group.

You can view all acknowledged findings in the patient history.

- 1 Click here to acknowledge findings.  
Acknowledged findings can be unacknowledged.

## Printing and Exporting

Quick View

Optional Selection

Export Function



CONFIGURATION AND ACTIVATION OF EHR DATASYNC EXPORT  
FUNCTION IS RESTRICTED TO ADMINISTRATORS ONLY

## Printing and Exporting

For every patient, you are able to print selected summary reports or save them as pdf files.

- 1 By clicking on “Quick View”, you are able to see, save and print a summary report of the patient.
- 2 Click on “Save/Print (PDF)” to select and print the desired patient information.

**I2-7-HFT-5678** Back to overview Patient 5 / 6 (filtered)

**Status on Nov 14, 2017 5:14 PM** Iperia 7 HF-T / SN: 12345678  
Implantation: Apr 14, 2016

Export Save/print (PDF)

Summary Device Lead Bradycardia/CRT Atr. arrhythmia Ven. arrhythmia Physiologic. param. HF monitor

**Lead** LV pacing threshold intermittently above limit (> 2.0 V)  
Intermittently above limit since Nov 1, 2017 1:20:02 AM - Last  
value 1.2 V measured on Nov 14, 2017 1:20:02 AM New Acknowledge

**Ven. arrhythmia** VF detected  
1 VF detected between Nov 12, 2017 1:20:02 AM and Nov  
12, 2017 5:49:24 AM New Acknowledge

**Recordings / Episode** Episode details received (all)  
Details were received for 1 spontaneous episodes, which was  
detected between Nov 12, 2017 01:20:02 AM and Nov 12,  
2017 5:49:24 AM New Acknowledge

**Automatic remark** Follow-up recommended

**Remote Scheduling**

**Quick View**

**Status comment**

Add comment

**Timeline**

Export Save/print (PDF)

1 2

## Optional Selection

**Print patient data**

Mark the corresponding check box if you want to have the data added to the generated PDF report. Check boxes for tabs displaying red or yellow information are already marked.

<input checked="" type="checkbox"/> Status
<input checked="" type="checkbox"/> Quick View
<input checked="" type="checkbox"/> Findings
<input type="checkbox"/> Device
<input checked="" type="checkbox"/> Lead
<input type="checkbox"/> Bradycardia/CRT
<input type="checkbox"/> Atr. arrhythmia
<input checked="" type="checkbox"/> Ven. arrhythmia
<input type="checkbox"/> Physiologic, param.
<input checked="" type="checkbox"/> HF monitor
<input type="checkbox"/> Device settings
<input type="checkbox"/> Overview
<input type="checkbox"/> Lead
<input type="checkbox"/> Bradycardia/CRT
<input type="checkbox"/> Atr. arrhythmia
<input type="checkbox"/> Ven. arrhythmia
<input type="checkbox"/> Home Monitoring
<input type="checkbox"/> Recordings
<input checked="" type="checkbox"/> Episode list
<input type="checkbox"/> Patient
<input type="checkbox"/> Patient data
<input type="checkbox"/> Lead information
<input checked="" type="checkbox"/> History
<input checked="" type="radio"/> Print only 20 most recent entries
<input type="radio"/> Print all entries (may result in large PDF file)
<input type="checkbox"/> Options
<input type="checkbox"/> Patient data without name and date of birth

[Select all](#) [Create PDF](#) [<< Back](#)

1

2

## Printing and Exporting

Select any additional categories to be printed or saved.  
Red and yellow alert categories are automatically selected

- 1 For example, select Quick View or HF monitor to directly see a one-page summary report of a patient.
- 2 Click here to create a PDF.

Quick View Report

Quick View - Nov 15, 2017

To: CV-Nurse Kelly Miller

Name: - DOB: - Iperia 7HF-T [SN12345678] Last message: Nov 15, 2017  
Patient ID: 12-7-HFT-5678 Phone: - CRT-D implanted Apr 14, 2017 Last clinic follow-up: Aug 15, 2017



Device status	
Status	OK
Battery status	BOS
Battery voltage	3.12 V [Apr 7, 2017]
Charge time	9.4 s for 40 J [Nov 12, 2017 12:46:47 AM]

Findings
VF detected
There are more findings.

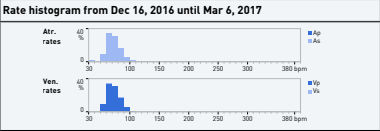
Tachy settings						
	Zone limit	1st ATP	2nd ATP	1st shock	2nd shock	3rd - nth sho.
VT1	390 ms	OFF	OFF	OFF	---	---
VT2	330 ms	3 * Burst	3 * Ramp	40 J	40 J	6 * 40 J
VF	270 ms	Burst		40 J	40 J	6 * 40 J

Brady / CRT / AF settings	
Mode	DDD / BIV-LV
Basic rate / UTR [bpm]	50 / 130
AV delay at 60 bpm / 130 bpm	140 / 110 ms
Mode switching	160 bpm / DDIR

Brady leads	RA lead	RV lead	LV lead
Pacing impedance [ohm]	635	606	780
Pacing threshold [V]	1.2	0.5	1.3
Sensing ampl. mean / min [mV]	1.4 / 1.0	13.9 / 12.8	14.9 / 13.8
Programmed [V@ms]	2.2 AUTO @ 0.40	1.5 AUTO @ 0.40	2.3 AUTO @ 0.40

Shock lead	
Daily shock lead imp. [ohm]	82
Last delivered shock imp. [ohm]	---

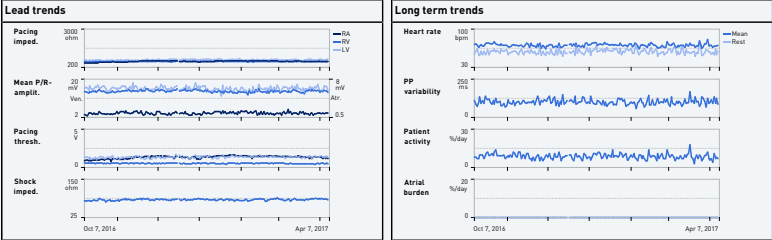
Ven. arrhythmias since Dec 16, 2016	VT1	VT2	VF
Therapy episodes	0	0	1
ATP started / succ.	0 / 0		0 / 0
Shocks started / aborted / succ.		1 / 0 / 1	
Last episode: Periodic IEGM [Mar 6, 2017 1:06:34 AM]			



Atrial arrhythmias since Dec 16, 2016	
Atrial burden	0.0% of day
Mean ven. heart rate during atr. burden	---
Atrial arrhythmia ongoing at end of mon. interv.	NO
Atrial monitoring episodes	0
Number of mode switching per day	0
SVT episodes	0

Event episodes since Dec 16, 2016	
Ac-Vs	99%
Ac-Vp	99%
Ap-Vs	1%
Ap-Vp	1%
Vs-Vs	1%
CRT	99%

Pacing	
Ap	0%
RVp	99%
BIV	99%



Technical Services:  
Tel.: +49 30 68905 - 2440  
Fax: +49 30 68905 - 2941

Date:  
Signature:

1/1

One Page Summary Status Report

Status report - N15, 2017

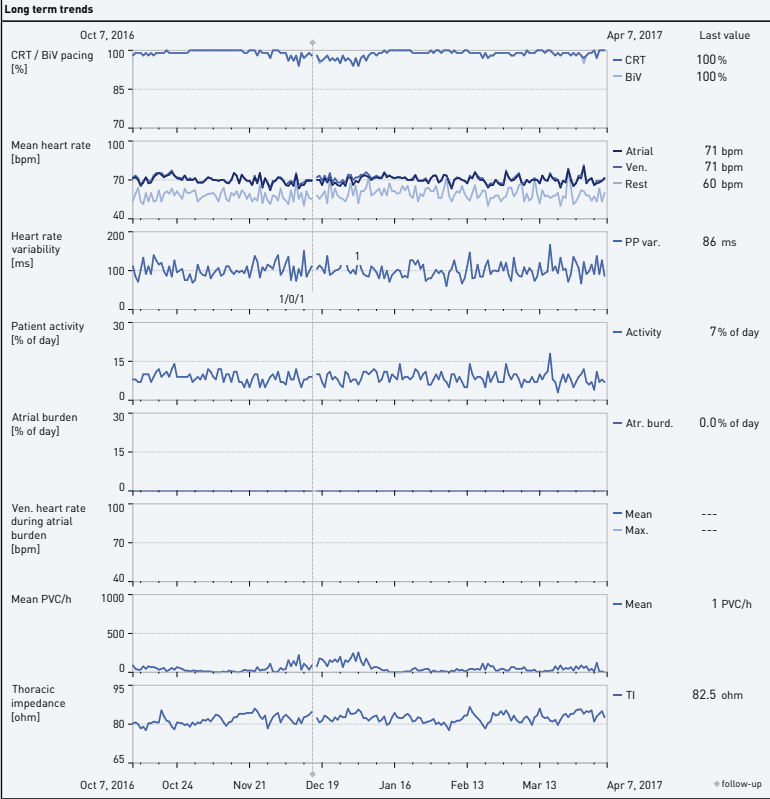
To: CV-Nurse Kelly Miller

Name: - DOB: - Iperia 7HF-T [SN12345678] Last message: Nov 15, 2017  
Patient ID: 12-7-HFT-5678 Phone: - CRT-D implanted Apr 14, 2017 Last clinic follow-up: Aug 15, 2017



Status - HF monitor:

Device status Nov 15, 2017		Arrhythmias since Aug 15, 2017	VT1	VT2	VF	AMon
Device status	OK	Episodes	0	0	0	0
Battery status	OK [BOS]	ATP started / succ.	0 / 0		1	-
Pacing mode	DDD [BIV-LV first]	Shocks started / aborted / succ.		1 / 0 / 1		-



Technical Services:  
Tel.: +49 30 68905 - 2440  
Fax: +49 30 68905 - 2941

Date:  
Signature:

1/1



## Export Function

## Printing and Exporting

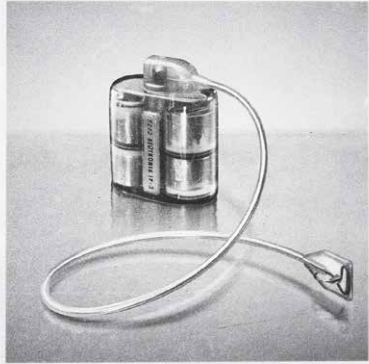
Via the EHR DataSync, data can be integrated into software systems (e.g., Paceart®) or directly to your hospital EHR system.<sup>1</sup>

- 1 Configure and activate EHR DataSync in the "Clinic settings" tab.
- 2 Users have the option to manually<sup>2</sup> initiate the export of data for a single patient to the clinic's EHR system.

 CONFIGURATION AND ACTIVATION OF EHR DATASYNC EXPORT FUNCTION IS RESTRICTED TO ADMINISTRATORS ONLY

<sup>1</sup> Contact your local BIOTRONIK representative for more information on EHR DataSync  
<sup>2</sup> Upon request, customers from the United States are able to activate automatic export function.  
 Paceart® is a registered trademark of Medtronic, Inc.

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# BIOTRONIK Home Monitoring®

## Step-By-Step Guide

For a more detailed explanation, click on the online help function.  
If you have any questions regarding other functions of this application, click on "Help" in the field "Site tools" to access the online help.  
A contextsensitive help function relating to the currently viewed page can be opened with the "Help" symbol.

If you wish to send an email to the BIOTRONIK Home Monitoring Customer Service Center, please click on "Contact."  
Our email address is [healthservices@biotronik.com](mailto:healthservices@biotronik.com).

