# Merlin.net™ Patient Care Network (PCN)
## Version 5.0

## Product Highlights

- Merlin.net PCN version 5.0 from St. Jude Medical allows more efficient remote management of patients with implanted cardiac devices, including pacemakers, implantable cardioverter defibrillators and cardiac resynchronization therapy devices.

- One-screen Follow-up allows clinicians to view, print, schedule, export and archive from the Recent Transmissions page. This feature also saves time and simplifies follow-ups by allowing clinicians to take action on up to 50 patient files at once.

- DirectAlerts™ Notification is a physician notification system that provides physician-designated patient alerts between follow-ups.

- Mobile DirectAlerts™ Notification allows alert-triggered EGMs and reports to be viewed directly on a smartphone; notifications are sent with a doctor's individualised security stamp.

- Patients now have a new way to connect from home for remote follow-ups and monitoring with Merlin.net PCN Wi-Fi Connectivity.†

- Alerts generated from the device-based CorVue™ Congestion Monitoring feature, which measures intrathoracic impedance in multiple vectors for improved accuracy, are displayed; options for both patient and physician alerts are provided.

- EHRDirect™ Export allows automatic export of transmission data from Merlin.net PCN to a clinic's EHR system. This allows seamless integration of data so care teams can make informed clinical decisions more quickly, without the need for expensive intermediary systems. This feature meets the Integrating the Healthcare Enterprise (IHE™) guidelines, supporting Health Level-7 (HL7) standards.

- Inductive Merlin@home™ transmitters† can now be used with newer Epic™ family devices and Atlas™ family devices as well as other newer devices. Going forward, inductive Merlin@home transmitters† will be issued to patients with newer Epic ICD or Atlas ICD implants. However, Housecall™ Plus transmitters will still be available† for patients with older Epic ICDs and Atlas ICDs.

- Merlin.net PCN now features device support for the Unify Quadra™ CRT-D and the Accent™ MRI RF Pacemaker.

- SmartSchedule™ is an 18-month, rotating perpetual calendar that creates an automatic follow-up transmission schedule. Clinicians can specify length of time, including 91-day and 182-day periods, between transmissions to coordinate follow-ups with the clinic's reimbursement calendar.

- DirectCall™ Message is an integrated and automated patient communication system designed to save clinic time by reducing routine calls otherwise performed by medical office staff.

- DirectTrend™ Viewer provides dynamic views of device and clinical trends for comprehensive patient management.

- Merlin.net PCN was the first medical device network to be awarded ISO 27001 certification, a stringent worldwide information security standard.

*ANAB ACCREDITED*

*BSI™*

*Merlin@home™ Transmitter Compatible*

*ISO 27001
IS 541672*

**Customer Support:** 46-8-474-4756

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# Merlin.net™ Patient Care Network (PCN)

## Version 5.0

# Product Specifications

## Merlin.net PCN Specifications

### Connectivity

| | |
|---|---|
| Direct data export to EHR | EHRDirect Export enables direct export to EHR via IHE or HL7 (2.x and 3.0) format without the need of an intermediary system |
| Compatible EHR/data management systems | All HL7-compliant EHR systems are compatible. Currently available with: GEMMS™ ONE EHR; Allscripts™ Professional EHR; NextGen™ Ambulatory EHR; EpicCare™ Ambulatory EHR; and GE Centricity™ EHR. Plus compatible with device management solutions such as Paceart™ and ScottCare™ OneView. Ongoing work to integrate with other leading EHR systems. |
| IHE compatible | YES |
| Supports HL7 | YES |
| ISO 27001 certified | YES |

### Scheduling

| | |
|---|---|
| Online scheduling | Authorized users may schedule patient follow-ups. Automated (SmartSchedule™ Calendar) and manual scheduling options available. |
| Unscheduled transmissions/ Patient-initiated transmissions | Able to transmit outside of fixed appointment time as needed with physician approval. Able to lock out patients from sending unscheduled transmissions. |

### Alerts and Notifications

| | |
|---|---|
| Daily alert surveillance | DirectAlerts™ Notification available with Merlin@home™ transmitter for all supported devices. Event-based or full disclosure uploads as needed. |
| Programmable alerts | Physician/clinician option to select only the alerts they want to receive |
| Diagnostic alert triggers* | Congestion Duration Exceeded Programmed Threshold |
| | ST Episode Detected |
| | **AT/AF Episode Duration > Threshold |
| | **AT/AF Burden > Threshold |
| | **Avg. V Rate During AT/AF > Threshold |
| | Percent RV Pacing > Threshold |
| | Percent BiV Pacing < Threshold |
| Therapy alert triggers* | High Ventricular Rate Episodes Recorded |
| | High Voltage Therapy Delivered |
| | Successful ATP Pacing Delivered |
| Device alert triggers* | Therapy Accelerated Rhythm |
| | Longevity Analysis (requires Tech Services support) |
| | Tachy Therapy Disabled |
| | Charge Time Limit Reached |
| | Possible HV Circuit Damage |
| | Device Reset |
| | Device at ERI |
| | Device in MRI Settings |
| | HV Lead Impedance Out of Range |
| | Atrial Pacing Lead Impedance Out of Range (Dual Chamber and CRT Devices) |
| | Device Programmed to Emergency Pacing Values |
| | Back Up VVI |
| | Possible High Voltage Lead Issue |
| | LV Pacing Lead Impedance Out of Range (CRT Devices) |
| | RV Pacing Lead Impedance Out of Range |
| | High Voltage Lead Impedance < Lower Limit |
| | High Voltage Lead Impedance > Upper Limit |
| | Device Parameter Reset |
| Alert notification options | E-mail, fax, SMS, website, voice message or smartphone |
| Alert reports | Alert Summary Report |
| | AT/AF alert report accompanies AT/AF alert |

### Transmitters

| | |
|---|---|
| Merlin@home RF (radio frequency) | For use with compatible RF devices |
| | Transmitter stays with the patient when changing clinics or when patient receives new device from the same family |
| | Ability to link/re-link transmitter to a patient's device remotely |
| | Transmitter can be issued to patient and paired with his/her device before discharge for remote monitoring from day one |

† Available in select markets only

*Different devices support different alerts. Check User's Manual for full list of available alerts.

** If programmed 'On' in patient's device

*** In version 5.0, the inductive Merlin@home™ transmitter unit can support interrogation of legacy devices, including newer Epic ICDs and Atlas ICDs

**Customer Support: 46-8-474-4756**

Item GMCRM910EN

### Website Efficiency

| | |
|---|---|
| Batch operation | Automatic export to EHR is supported by version 5.0 through EHRDirect™ Export to increase clinic efficiency; print, archive, export to EHR, export to PC database up to 50 records at a time |
| Consolidated data | Remote transmissions and in-clinic data available online |
| Data storage capabilities | All patient transmissions and reports available for immediate access for a minimum of seven years |
| Data transfers | Patient data follows patient when changing clinics or when patient receives new device |
| Languages | English, Spanish, French, German, Italian, Japanese |

### User Interface

| | |
|---|---|
| Design principles | Similar to Merlin™ Patient Care System (PCS) programmer in colors and design; easy to learn for new users |
| Report format | Similar to Merlin PCS reports for easy orientation. |
| Tracking of reviewed transmissions | Viewed field on recent transmissions allows quick indication of which reports have already been viewed; printing reports option to mark as viewed as well |
| Transmission status, reason for transmission displayed | Scheduled, alert-initiated, patient-initiated |
| Next transmission column | Date and intervals of next scheduled transmission |
| Number of days between transmissions | Shown on recent transmissions, patient list, view schedule and manual schedule pages |
| Identify previous user | Placing mouse over transmission time shows previous user |
| Rapid alert viewing | Mouse-over alerts shows list of alert types and alert episodes |
| Clinical comments | Free form, clinic defined or both |
| Arrhythmia and device management box | Tally of recent transmissions by type |
| Highlight transmissions with alerts | Customisable by administrator |
| Inbox/outbox | Recent transmissions/patient list segments files into new and old |
| Weekly glance | Convenient overview of upcoming transmissions |

### Education

| | |
|---|---|
| Interactive practice site | Available |

### Patient Communication

| | |
|---|---|
| Outbound automatic communication tool | Clinic-enabled DirectCall™ Message options: |
| | Missed appointment call – triggered by clinic |
| | Normal results call – triggered by clinic |
| | Call clinic message – triggered by clinic |
| | Remote follow-up reminder call – sent automatically |
| | Remote follow-up missed call – sent automatically |
| | Emergency contact, if enabled – sent automatically |
| Multiple language support | DirectCall Message tool available in over 20 languages, including English, Spanish, French, Italian, Japanese, German, Dutch, Portuguese, Finnish, Swedish, Danish, Norwegian, Czech, Hungarian, Castilian Spanish, Polish, Turkish, Slovak, Catalonian Spanish, UK English |

### Patient

| | |
|---|---|
| Start-up guide | Transmitter Quick Start Guide (QSG) w/step-by-step setup options |

### Support Materials for Patient and Clinic

Various support materials available. Please meet with sales representative for full complement of training and support materials.

## Merlin@home RF Transmitter Specifications

| | |
|---|---|
| Transmitter model number | EX 1150 |
| Physical components | Single plastic enclosure with external transformer power supply |
| Weight (w/o power supply) | Less than 2,3 kilograms |
| Dimensions | Width: 9,18" |
| | Height: 6,33" |
| | Depth: 5,06" |
| Wand cable length | NA |
| Power cord length | Minimum 1,5 meters |
| Modem | V.92 (56K) – Custom Design |
| Power source | AC |
| Line voltage | 100-240V |
| Line frequency | 50-60 Hz |

### Devices Supported by Merlin@home RF Transmitter*** & Merlin.net PCN

RF models of the Unify™ Family of CRT-Ds, the Promote™ Family of CRT-Ds, the Current™ Family of ICDs, the AnalyST™ Family of ICDs, the Fortify™ Family of ICDs, the Anthem™ Family of CRT-Ps, the Accent™ Family of Pacemakers and the Nuance™ Family of Pacemakers (Japan)

### Devices Supported by Merlin.net PCN through USB Upload from Merlin PCS

The Unify™ Family of CRT-Ds, the Promote™ Family of CRT-Ds, the Atlas™ Family of CRT-Ds, the Current™ Family of ICDs, the AnalyST™ Family of ICDs, the Fortify™ Family of ICDs, the Epic™ Family of ICDs, the Convert™ Family of ICDs, the Anthem™ Family of CRT-Ps, the Accent™ Family of Pacemakers and the Nuance™ Family of Pacemakers (Japan)

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