



PHILIPS

Patient Monitoring
Newsletter

The Connection

Our Philips biannual newsletter from your
Patient Care and Monitoring Solutions Team

Welcome to the first edition

Issue 1 2017

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Building the beating heart of a Digital Hospital

In 2015, the Princess Alexandra Hospital (PAH) in Brisbane became Australia's first public digital hospital. The hospital revolutionised the way healthcare is delivered in Queensland and throughout the rest of the country.

The challenge: to support the digital initiatives, PAH required a cardiograph that could:

- Integrate seamlessly with Cerner EMR
- Easy to use with intuitive design to meet clinical and training requirements
- Support administrative and clinical best practices
- Automatically download patient data matched with barcode scan at point of ECG to match and store accurate patient data and ECG

The solution: The digital initiative stood to solve a number of problems. David McHugh, the Principal Project Manager for the Digital Hospital Project, explains how "Dr Richard Ashby AM, Chief Executive Officer of Metro South Health was the champion of the Digital Hospital project. His vision was to create a paperless hospital that empowered staff to spend more time with patients and give them faster, more accurate diagnosis from a central digital record".

Today, Philips TC Series Cardiographs successfully record and transfer ECG data to each patient's EMR. This record is instantly updated and available for authorised staff to view on their PC and work stations throughout the hospital. They can view and record notes, making efficient use of clinician time and supporting efficient patient transitions through the hospital.

Why Philips and who is the Patient Care and Monitoring Solutions team?

Patient monitoring has rapidly evolved over the last few years, from paper schemes to boxed monitors, to total systems and solutions. This is due to evidence that well-designed systems can support patients and clinicians in many more ways than initially thought. In 2002, Philips introduced the first IntelliVue patient monitor. Built on a platform designed to evolve with clinical needs, today 15 years later, the consistent investment and innovation has resulted in 17 software releases and over 24 monitors.

As the system and solution has evolved, so has the Patient Care and Monitoring Solutions team. Close partnership with hospital teams and constant ongoing training means they are experts in solution design, system architecture, installation, training, service and any ongoing support. By connecting patients, clinicians and process, Philips partners to enable connected care for early detection, intervention and treatment. And today Philips' are chosen for patient monitoring solutions more often than they are not.



*Paul Groot Obbink,
Technical training specialist*

Meet the team: Paul Groot Obbink

Our Technical Trainer, training Biomedical Engineers and Technicians around Australia and New Zealand since 2013. Following his qualification in BEng (Electronic Engineering) H1, he rapidly became familiar with patient monitors after starting as the bench repair contractor to Hewlett Packard (HP). Paul went through the split of HP to Agilent Technologies, and commenced with Philips in 2001 following the Agilent Technology acquisition. Working as a Philips Field Service Engineer, he supported all products in the newly formed and extensive medical equipment portfolio. Spending 12 years in this role, he became well known as a knowledgeable and dedicated expert, and contributed to many patient monitoring installations all around Australia. For the last 4 years, he's become a familiar face to many through his biomedical training courses, as he's shared information and other snippets of valuable wisdom to those attending his courses.

Look out for more courses coming up soon.

Integration: Wanting connectivity for ECG Carts?

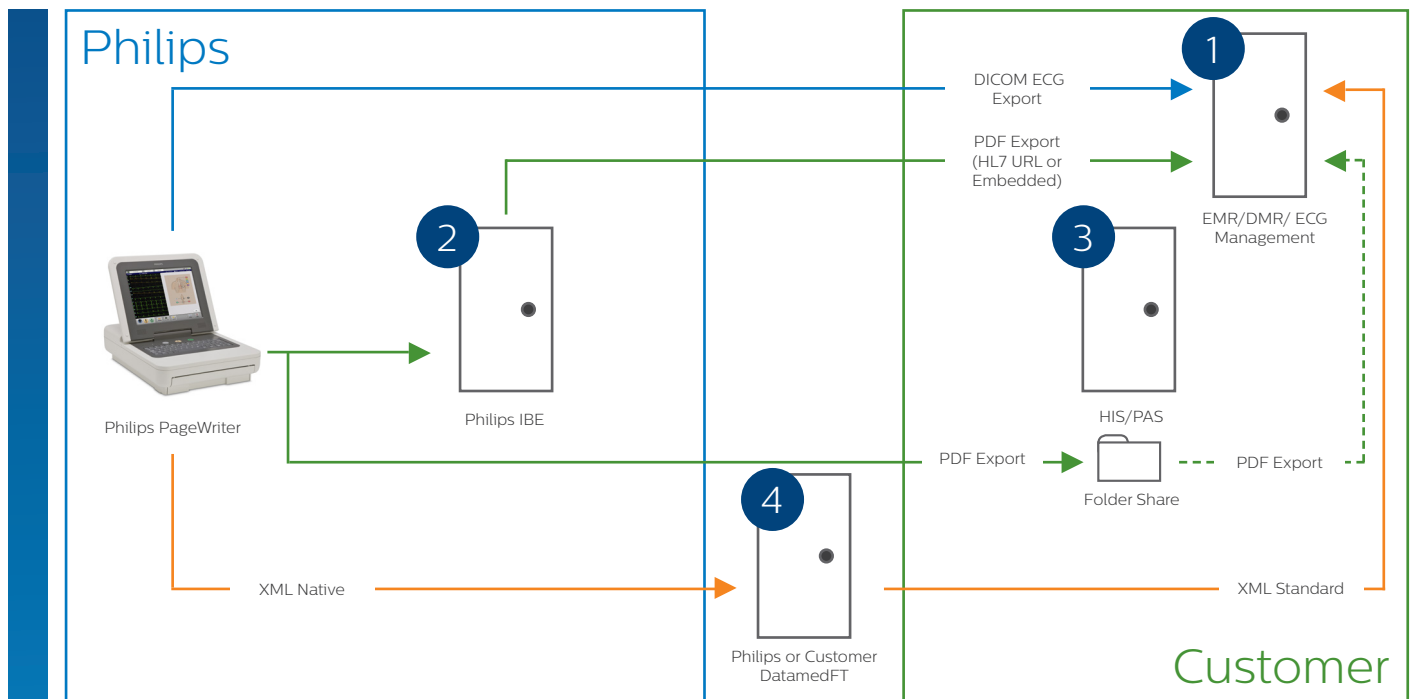
Connected care has been a primary focus for Philips as we continue to develop and evolve our range of patient monitoring solutions. This connected care feature enables informed decisions at the point of care by consolidating clinically rich patient information and re-presenting at the point of care, for timely, actionable, care-specific intervention, diagnosis and treatment.

ECG Carts have been used in hospitals for decades and, at the time of purchase, connectivity requirements were not always considered. As hospitals embark on EMR projects, they are discovering a lack of options and connectivity within ECG fleets.

Not so for the Philips PageWriter TC cardiograph and ST80i Stress Testing System. There are a number of ways to connect a Philips PageWriter TC to a third party solution (EMR, DMR, etc).



The diagram shown below illustrates four options available for export:



1 DICOM ECG Export

PageWriters and ST80i units have the ability to use DICOM to communicate with third party MWL providers, and third party ECG systems. This further simplifies customer workflows and lowers the cost of ownership by eliminating the middleware – broker, translator and gateway. The receiving system, normally the EMR, has to have a DICOM Listener that is capable of receiving the DICOM Image sent from the PageWriters. This is usually an additional module and not standard with EMR vendors.

2 PDF Export via IBE

PDF Export is a standard feature and allows for the storage of ECG's as PDF onto a file share that can be reached via the network. The processing of these files once stored on the file share, is up to the customer.

When the PDF Export is performed via the IBE, Philips is able to manipulate the file name structure to accommodate receiving systems. Additional capabilities are also available, such as generating an HL7 MDM message with a link to the PDF. The IBE allows Philips to customize the solution to meet the EMR's requirements, without customers having to pay the EMR for the integration work.

3 PDF Export

As per option 2, the PDF Export is a standard feature. This option does not include the flexibility provided by using the IBE. The PDF export is sent as it is, without the possibility of any changes or modifications beyond the standard PageWriter's settings.

4 DatamedFT

This is a third party product available from Philips or directly from Datamed. The purpose of this product is to translate ECGs from one format to another. For the Philips PageWriters, the DatamedFT will convert the proprietary XML files into a format that is accepted by any support receiving system.

DICOM is the preferred option standard due to its standardization, longevity and industry support (primarily Imaging). Philips recommends moving towards DICOM integration. This does depend on support from the EMR vendor. The DICOM option is also the simpler implementation on the Pagewriters (beside basic PDF export) and also supports DICOM Modality Worklists (DMWL), closing the workflow loop.

Consumables and making the choice

Philips have been a manufacturer of consumables and supplies for many years. With so many accessories and consumable options available, choosing the right ones can be a dilemma. The painfully practical issue of using non-approved Philips accessories on Philips patient monitoring equipment is that it may compromise device functionality and system performance. They may even cause a hazard for patients and clinicians. Damage to equipment caused by the use of non-approved consumables also affects warranty.

On the positive side, the wide Philips range of consumables help to deliver on a patient's safety and experience and streamline clinicians' workflows to accelerate care delivery. The consumables are designed and extensively tested and validated, ensuring they perform as specified with quality, safety, efficacy and reliability. They are optimised when used with Philips monitoring solutions meaning clinicians can obtain accurate, noise-free clinical readings, enabling the early detection of patient deterioration. The range of single patient use and disposable supplies, compatible across the Philips range of monitoring equipment, allows clinicians to remain focused on patients, especially those at high risk of Healthcare Associated Infections (HAIs).

For more information on Philips medical supplies, including those for measurements, leads, cables, electrodes and other accessories, from adults to neonates, contact your local Philips Healthcare representative.

News, Activities, Events

Out and About: Philips at 2017 ANZCA ASM

Did you catch us out and about at the 2017 ANZCA Annual Scientific Meeting? We showcased our Connected Care capabilities and, when partnering with anaesthetists and their teams, can help deliver on patient safety and experience and streamline workflows in these perioperative units. It also tied nicely to the meeting's core 'Think Big' message – about what the future could look like when you do indeed think outside the norm.

Our clinical lunch sessions and interactive Build Your Own Config activities highlighted the level of patient and clinical support accessible through our patient monitoring systems. Key topics included – how our NeuroMuscular Transmission module can benefit anaesthesia decision making, and how the IntelliSpace Critical Care & Anaesthesia (ICCA) software can advance clinical decisions.



Book a Date with Philips

If you have any questions or would like support from our sales or clinical applications team please call us on 1800 251 400 or email healthcare.au@philips.com to schedule an appointment.

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