



PHILIPS

Hospital patient
monitoring

Patient Information
Center iX

Where patient care meets IT excellence

Philips Patient Information Center iX

It's your task to build and maintain an IT infrastructure that includes medical devices to support both your clinical and business goals – including those that may not have been thought of yet. This means you need to consider every new IT investment carefully and evaluate how it will serve your organization both now and in the future. You need to think about security, mobility, interoperability, and future costs – choosing secure, standards-based systems that support virtualization and scalability and interoperate with your existing infrastructure, including your EMR and HIS.

Philips Patient Information Center iX (PIC iX) answers these requirements. As a central point of information for your clinicians as well as a platform to organize workflow, it provides central monitoring, but also the infrastructure required for interoperability with other systems.

At a glance



Designed for **enterprise deployment**



Supports **virtualization and high availability**



Designed to **support a complete medical record**, even through network outages



Supports **interoperability** between devices and your hospital's information systems



Decreases training needs with a **harmonized user interface** throughout the Philips ecosystem

Built-in serviceability helps identify and resolve potential IT problems

The customer-supplied clinical network uses industry standards and best practices and comes with built-in tools that monitor the system in order to support ongoing maintenance. It stores historical information for analysis and trend reporting and provides the information to Philips remote support for diagnosis. This fosters a collaborative approach to servicing the system, fast problem resolution, and historical performance data that can be used in root cause analyses.



Our end-to-end patient monitoring solution includes primary monitoring at the bedside, monitoring at the central station and mobile applications on caregivers' smartphones.

This approach simplifies patient monitoring and helps align resources, processes, and technologies. And because PIC iX interfaces with your HIS applications and EMR, it also simplifies clinical workflow.



The customer-supplied clinical network supports your efforts to:

- Address potential problems
- Provide appropriate ongoing maintenance
- Limit service calls
- Collect long-term information for reporting and trend analysis



PIC iX collects and combines data from bedside monitors and works as a data hub to distribute that data to other systems in your enterprise. Using open-systems architecture, it interoperates with your enterprise infrastructure so you can leverage your existing hardware, software, and networking investments. It also supports IT standards and best practices to simplify IT operations, and supports high-quality patient care by providing clinicians with timely access to critical patient information. In addition, the user interface is harmonized with bedside monitors, which minimizes training effort.

Follows IT standards and best practices

- Offers centralized deployment of updates, including Philips, Microsoft and anti-virus vendors to support efficient ongoing maintenance and upgrades
 - Allows direct download of applicable OS patches from Microsoft and supports Microsoft WSUS
 - Supports standard enterprise AV configurations
 - OS patches can be scheduled in advance and applied remotely via Philips PerformanceBridge Focal Point
- Utilizes hospital's Domain Name Services (DNS) and Dynamic Host Control Protocol (DHCP) for large, networked system deployments
- Leverages Active Directory (AD) Infrastructure for user administration and authentication; servers can join hospital domains
- Supports hospital password policy of configurable passwords that meet complexity and expiration requirements
- Hardened using the U.S. Department of Defense Security Technical Implementation Guides for Operating Systems, SQL, .Net; adheres to the latest FDA cybersecurity guidelines; GDPR compliant
- Client server architecture supports centralized management, security, scalability, and enterprise deployments

Leverages your hardware and network investments

- Enterprise link deployments have the capability of removing multicasting requirements and allowing virtualization in the hospital data center. Built-in redundancy means a potential increase in uptime and updates can be performed without downtime
- System Archive Export: PIC iX can be configured to periodically store system configuration settings to a network share, which supports restoration of system configuration settings in the event of a disaster
- Support for high availability of virtualized hosts
- Support for automatic and manual failover of physical and virtualize Patient Link hosts
- Support for high availability in virtual deployments; reducing downtime of critical functions
- Philips monitoring solutions can run on a customer-supplied network or a Philips-supplied network. If choosing to leverage a hospital's existing network, there is advanced support for networking best practices, including:
 - Full layer 3 support between the surveillance station and servers, so you can centralize servers in your data center
 - Flexible IP addressing according to your enterprise standards
 - Wireless environments for Philips Bedside Monitors and MX40 Patient Wearable Monitor – 802.11 or Smart-hopping network (1.4 WMTS and 2.4 GHz)

Access controls

- PIC iX provides the flexibility needed to make roles or permission changes from anywhere in the system
- Supports robust clinical audit of user actions and configuration changes
- PIC iX centralizes configuration management, avoiding the need to configure each host independently

Vendor agnostic

- PIC iX can integrate data from third-party spot check monitors into a patient sector
- Data integration from third-party devices via MDIP, EC10 and IHE LAN driver

Data exchange between devices and your hospital's information systems

- HL7 messages can be configured and changed while the system is still running – from a single screen
- Data integrity maintained by means of encryption in transit and at rest. Encryption is enabled by default. Support for BitLocker Drive encryption
- Supports end-to-end encryption across all Philips devices
- Supports ten HL7 destinations for HL7 Vitals interface (results outbound)
- Clinical Insights Manager (CIM) is a cloud-based solution that enables the integration of PIC iX patient monitoring data into secure cloud storage. With CIM, users can access waveforms, numerics, and high-fidelity data via a comprehensive suite of visualization tools
- Support for node authentication via certificate(s). Support for third-party or customer-provided certificates for secure web communication

Accessibility

- PIC iX supports role based access controls (RBAC) and Least Privilege (LP) for network communication. With the flexibility from allowing admin users the ability to make changes from anywhere in the system

Scalability

- PIC iX can scale to support multi-hospital domains
- Support for up to 1600 beds
- Supports the ability to virtualize data acquisition; data can be viewed in multiple places; central, web, mobile



Continuous patient record

Tested and validated to the IHE PCD Profiles Patient Care Device (PCD-01)

Auto Reconnect (for Enterprise PIC iX)

Supports auto reconnect if a server is disconnected and comes back online.

Sync from Local mode (for Enterprise PIC iX)

If the server goes down, the PIC iX surveillance station continues to function as a central monitor; when the server comes back up and the system reconnects, the data that is stored locally on the surveillance station then uploads to the server.

Trend Upload

The IntelliVue Patient Monitor will accumulate numeric vital sign data when off network and upload this data to PIC iX when the monitor reconnects (8 hours of buffered data).

HL7 Store and forward

PIC iX will buffer and store the data if there is a disruption of network services and send the data to the EMR or Interface Gateway (including IntelliBridge Enterprise, a communication server and HL7 message broker); it will also send buffered data from Trend Upload.

Please visit www.philips.com/IntelliVuePICiX

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