

# Технические характеристики

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# IntelliSpace Perinatal

Perinatal information system

Philips IntelliSpace Perinatal, an obstetrics information management solution, is designed to provide comprehensive coverage across the obstetrical care continuum—from the first antepartum visit to delivery, and postpartum follow-up visits.



# Features

## Patient-focused surveillance unifies patient records

IntelliSpace Perinatal provides a comprehensive clinical record of care for the mother and newborn. The surveillance functions present information that is transmitted from fetal and fetal/maternal monitors and generate alerts for critical events. Philips worked with the Department of Obstetrics and the Laboratory of Computer Science of the Massachusetts General Hospital<sup>1</sup>, incorporating their knowledge, expertise, and years of experience into the development of IntelliSpace Perinatal.

## Alerting and storage to support clinical excellence

Philips fetal and maternal monitors, cordless transducers, and departmental information system span the obstetrical care continuum. Our technologies are designed to contribute to improved staff efficiency and support the patient environment. Basic and advanced fetal trace alerting make you immediately aware of critical events. Display IntelliSpace Perinatal alerts even when other clinical applications are in use—no dedicated PC required.

## Universal access to information improves efficiency

IntelliSpace Perinatal can be accessed virtually wherever patient information is needed – from patient bedside and delivery room, central station, nurse lounge, and physician's home or office. Easy access to well-organized information improves efficiency, allowing you to focus more attention on patients and achieve the best quality of care.

## Interfacing to improve efficiency and help reduce errors

HL7-based ADT link allows demographic data to be downloaded from the HIS and can report transfers and discharges to the HIS. IntelliSpace Perinatal can be fully integrated into the hospital MS Domain infrastructure including user authentication via Microsoft Active Directory services. HL7 export can send a configurable set of flowsheet data including vital signs, derived fetal heart rate parameters, alerts and notes to third-party charting systems.

## Modular design for flexibility and efficiency

The system is highly scalable. It can be configured as simple non-stress test (NST) system, as centralized departmental surveillance solution and as a complete departmental point-of-care surveillance and charting solution that allows fetal, maternal, and newborn charting at every bedside.

## Remote access enhances clinical responsiveness

An authorized care provider can gain read/write access to IntelliSpace Perinatal from any PC on the hospital LAN (OB department or physician's office) or remotely via secure connection from home.

## Runs alongside other applications for added convenience

IntelliSpace Perinatal runs alongside third-party applications and can be minimized to an icon while users work with other applications. The icon, which is always visible, registers alert situations, and provides charting reminders for time sensitive tasks.

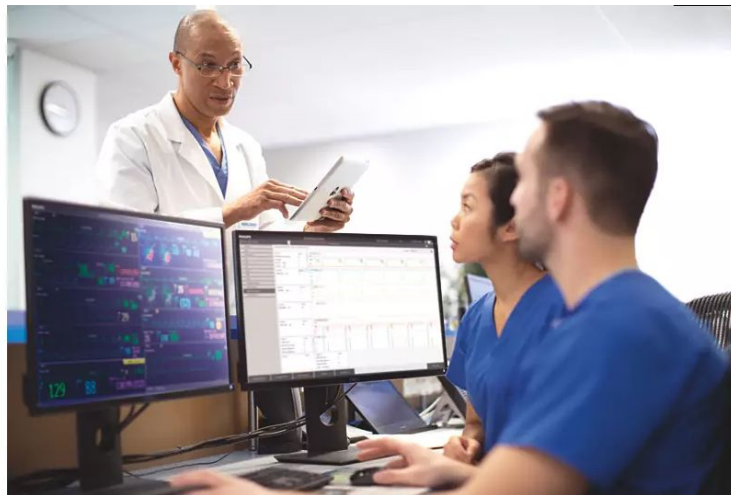
## Data security to protect sensitive information

IntelliSpace Perinatal helps your hospital comply with confidentiality and security regulations through many built-in features. It includes standard user and data authentication as well as user authentication via Microsoft® Active Directory service. Audit trails track which patient records were accessed and by whom, and track all clinical configuration changes. Physical security and disaster recovery is provided. Patient aliases are created and routine reporting is supported.

# Patient Information Center iX (PIC iX)

Central monitoring system

Philips Patient Information Center (PIC iX) is the heart of our patient monitoring system that facilitates visibility into patient condition, assisting caregivers with the early identification of potential for deterioration while enhancing clinical workflow.



# Features



## Easily accessible patient data

Wherever you are – in the hospital, you can have access to the patient information you need to make informed clinical decisions via web and tablet access.



## Comprehensive view from admission to discharge

You can access your patient's monitoring history across the continuum of care from ED, OR, or ICU, to the step-down unit, and even during transport. With PIC iX, you can consolidate and communicate patient data to caregivers, even when they're on the go, and to the EMR. PIC iX allows the upload of numerics from bedside and telemetry devices (and hold data for 8 hours when transmission gaps are unavoidable), and can backfill wave dropouts from bedside devices for 10 seconds.



## PIC iX clinical tools offer insight to help prioritize care

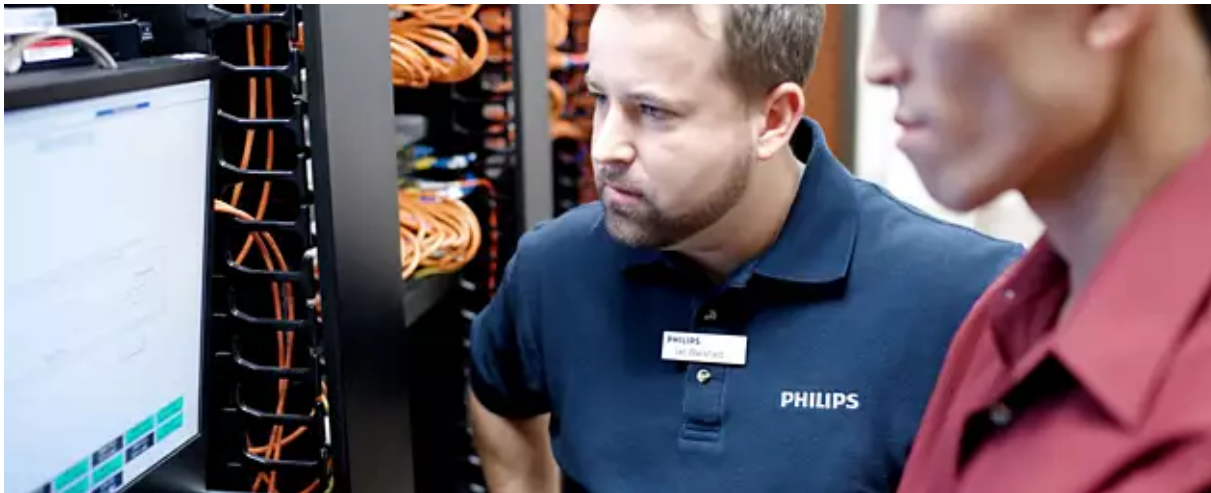
PIC iX offers powerful clinical decision support tools, early warning scoring and advanced algorithms to help you identify patients in need early, prior to critical events. Additionally, PIC iX includes technology that can help prioritize alarm protocols and workflows. Alarm Advisor proactively offers suggestions for personalizing each patient's settings to help clinicians reduce non-actionable alarms.



## Scalable for your IT environment

Our standards-based system supports a shared IT infrastructure to help you make the most of your existing network and hardware investments while meeting requirements for manageability, serviceability and security.





## Secure data where care takes place

We incorporate a risk-based defense-in-depth security approach to support data integrity and confidentiality. User authentication and authorization protect against unauthorized access to patient information and configuration changes. PIC iX is a hardened system using the US DoD Security Technical Implementation Guides for operating systems, SQL, .NET and Internet Explorer.



## Data acquisition, archiving, access

Philips Data Warehouse Connect is our only service-minded, end-to-end clinical data analytics solution enabling high-resolution physiologic data acquisition, archiving, and access. We work to synthesize the robust clinical data generated by Philips patient monitoring systems, combined with data from other sources, on an open, scalable, and secure data management platform.





## Unlock your data and put it to work

Our vendor-neutral Data Warehouse Connect solution (a combination of software, IT and clinical services) can help you combine time-stamped, quality data with clinical context to help you find what is meaningful to your project, speeding clinical research and revealing learnings to help drive quality improvement.

# IntelliVue 802.11 Clinical Network

Wired and wireless networking

Clinicians rely on Philips IntelliVue patient monitors for the data they need, when they need it. And you can rely on us to help you be certain that patient data is transmitted on your terms.



## Features

### Leverage existing IT infrastructure and network strategies

Philips has experience designing and deploying clinical networks that deliver patient data quickly to multiple destinations, leveraging your existing IT infrastructure and network strategies

### Networking choice

Philips offers several network configurations and options for the IntelliVue patient monitoring solutions, all designed to align with your enterprise networking strategies.

### Meeting single department or hospital enterprise needs

IntelliVue patient monitoring can be deployed on your hospital's enterprise network using virtual local area networks (vLANs) and leverage IT networking best practices.

# IntelliVue Smart-hopping Network

## Wireless network

The proprietary Philips IntelliVue Smart-hopping WMTS Network operates in the 1.4 GHz band, providing bidirectional communication between IntelliVue devices and the IntelliVue Information Center.



# Features

## Hospital-wide coverage

IntelliVue Smart-hopping allows several users to share the same frequency by dividing the signal into different time slots, supporting a capacity of up to 1024 devices.

## Deterministic roaming for peak performance

IntelliVue Smart-hopping determines when and where to roam, considering retry errors and signal strength to deliver excellent performance.

## Intelligent radio provides a “smart hop”

IntelliVue Smart-hopping is based on a cognitive radio signal which “hops” to a new frequency and time slot when interference is detected, providing excellent signal-to-noise performance.

## Enhanced confidentiality of patient data

IntelliVue Smart-hopping uses a proprietary protocol and avoids transmission of patient identifiers across the wireless interface, helping to keep patient information confidential.

## Bi-directional communication for extra functionality

IntelliVue Smart-hopping features bi-directional communication to allow clinical features such as “Find Device,” “Device Location,” and “Control Clinical Measurements” to enhance clinical functionality of IntelliVue patient monitors.

# Clinical Insights Manager

Data management and analytics solution

Philips Clinical Insights Manager is a service-oriented, end-to-end solution that allows hospitals to synthesize high-fidelity clinical data. It combines storage and aggregation of data with tools that allow you to query, filter and sort it so you can transform this information into valuable insights that help you achieve your clinical healthcare goals.



## Features



## Put your data to use

Clinical Insights Manager includes Philips Alarm Insights Manager, a web-based application that provides deeper insights into the overall alarm status through an interactive and intuitive dashboard. It can help you identify actionable insights into alarm system quality to combat alarm fatigue, improve alarm accuracy and establish and share best practices. It also lets you assess alarm burden and management over hours, days, weeks, or months, by clinic or unit, or by patient/alarm type and severity. It allows you to create and set benchmarks for continuous improvements, and to prepare both standard and ad-hoc alarm reports.





## Intuitive, in-depth insights

Clinical Insights Manager offers long-term storage for time-stamped high-fidelity physiological and alarm data from your monitoring system, along with relevant clinical context information from other systems. Philips Clinical Insights Manager Viewer delivers easy web access to your data for review, search and extraction. The captured data includes comprehensive patient information such as demographics, waveforms, numerics and alarms in one intuitive view. The data is manipulated to allow for development of your algorithms, help support your initiatives and enhance your overall clinical process.



## Unlock the value of your data

Our team of analysts, IT specialists and data scientists can support your team in understanding the available data, how it can be leveraged and what reports are possible, for example, to simplify workflows. Together, we can unlock your data and put it to work.



## Research & quality improvement

The Clinical Insights Manager package includes support for both research and quality improvement initiatives to address your specific key performance indicators (KPIs) that are instrumental to success. The Clinical Insights Manager viewer provides easy access to your data over the web for review, search and extraction while Alarm Insights Manager provides deeper insight on overall alarm status and alarm load, assisting with initiatives to reduce alarm fatigue, increase staff satisfaction and aid your staff in focusing on important and critical alarms.

## Let us help you move forward

Clinical Insights Manager comes with a range of IT and clinical services. Available IT services include support for implementation, data governance and data migration for Data Warehouse Connect customers. Our clinical services, meanwhile, allow you to improve context-based alarm management, sentinel event analysis and build algorithms for predictive analytics.

# IntelliBridge System

Medical device interfacing



IntelliBridge System is a plug-and-play solution that integrates data from Point-of-Care devices with Hospital Information Systems or Philips IntelliSpace Critical Care and Anesthesia (ICCA). The system provides a consolidated view of patient data for use by caregivers in operating rooms or intensive care units.

## Specifications

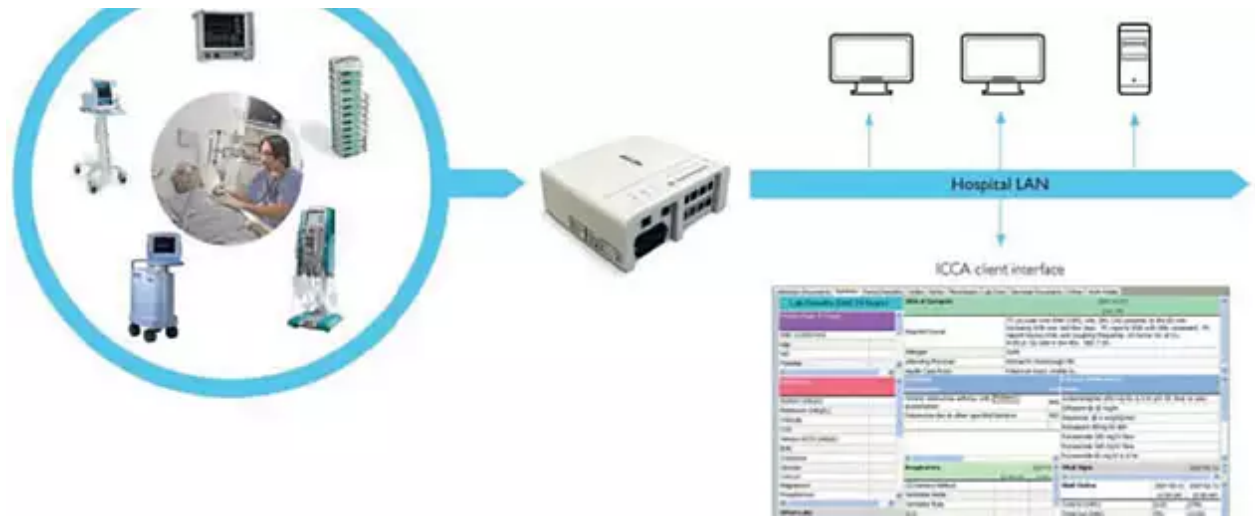
### Physical - IntelliBridge EC40/80

Dimensions (HxWxD)	With mounting bracket: 200 * 200 * 75 mm (7.87*7.87*2.59 in)Without mounting bracket: 200 * 200 * 87 mm (7.87*7.87*3.43 in)
Weight	1.4 kg (3.09 lb)

### Environmental

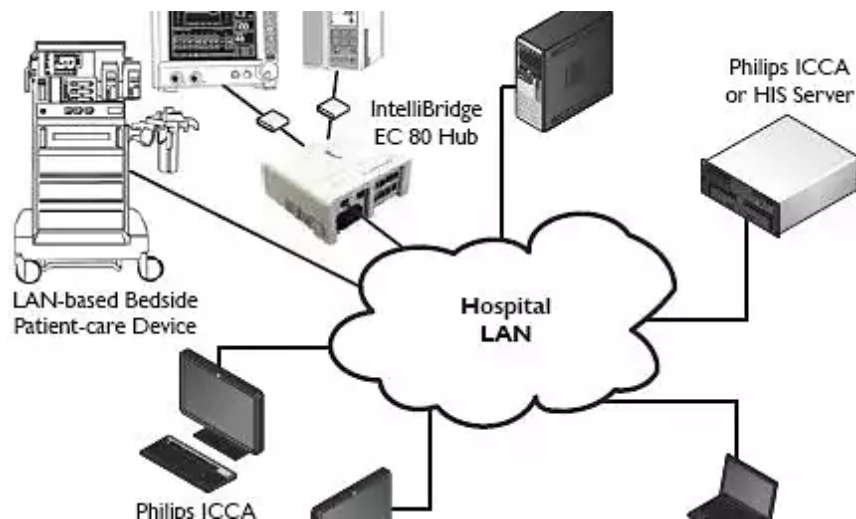
Operating temperature	0 to 55 °C (32 to 131 °F)
Operating humidity	Up to 95% RH at 40 °C (104 °F)
Operating altitude	Up to 3,048 m (10,000 ft)
Storage temperature	-40 tp 60 °C (-40 to 140 °F)
Storage humidity	Up to 90% RH at 60 °C (140 °F)
Storage altitude	Up to 3,048 m (10,000 ft)
Input power	100 to 240 VAC (auto sensing), 1A, 50 to 60 Hz

# Features



## Four components combine for easy data integration

The IntelliBridge System is comprised of four components. The EC5 ID Module connects POC devices to the EC40/80 Hub, which provides connectivity to the hospital LAN. The SC50 Device Interfacing Engine collects patient data from the hubs, converts HL7 format and transmits to the HIS. The Management Console allows support staff to configure and troubleshoot the system.



## Plug-and-play for ease of use

IntelliBridge System EC 5 ID Module provides plug-and-play connectivity between a POC device and an IntelliBridge EC 40/80 Hub. The in-line module is equipped with a device-specific RS-232 connector that connects to the serial data output port on a supported patient care device.



## Seamless connectivity, smooth data transmission

The EC40/80 Hub can store up to 25 device drivers to facilitate plug-and-play connectivity of patient-care devices. The hub aggregates data from connected patient-care devices and transmits this data to the IntelliBridge SC50 device interfacing engine.

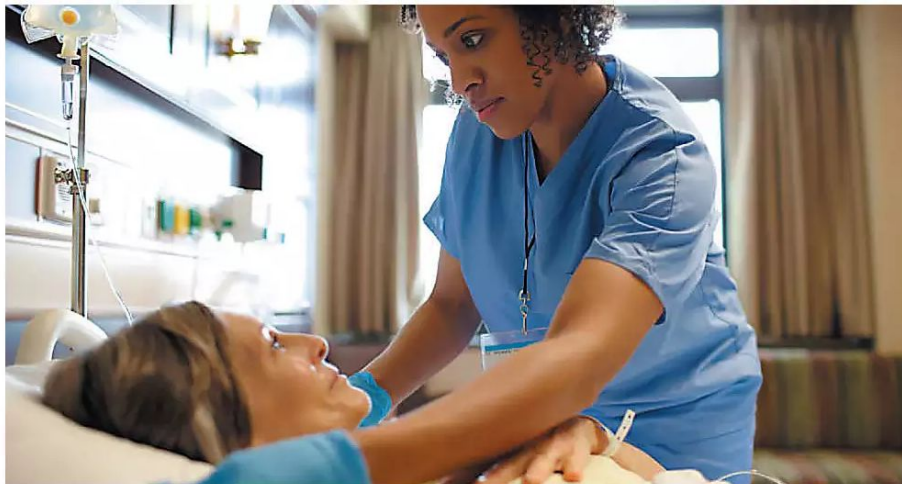
## Data readily converted to HL7 format

The IntelliBridge System's SC50 device interfacing engine is a data aggregation and translation application that runs on a customer supplied host computer connected to the hospital LAN. It collects patient data from the connected E40/80 Hubs, converts this data to the widely accepted HL7 standard, and transmits the HL7 patient data to the HIS or ICCA

# IntelliBridge Bedside

Medical device interfacing module

How do you bring together key patient information in care environments from diverse equipment? The IntelliBridge Bedside module consolidates data from bedside devices to display on IntelliVue patient monitors and transmit to clinical and hospital information systems.





# Features



## Your link to a comprehensive patient overview

To simplify patient data acquisition our IntelliBridge Bedside interface collects real-time information from up to four medical devices right at the POC. These include ventilators, anesthesia machines, infusion pumps and multi-parameter measurement devices. This information is displayed on Philips IntelliVue patient monitors and can be forwarded to central monitoring, nurse paging, and documentation systems.



## Consolidated information enhances patient management

The IntelliBridge Bedside interface collects physiologic parameters, waveforms, device settings, and alarm data. This data can be displayed on the IntelliVue patient monitor and also forwarded to the central surveillance system for further processing. This can include alarm forwarding to a paging system for ICU nurses or uploading the data into an electronic patient record.



## Compatible with devices from major manufacturers

The IntelliBridge Bedside interfacing solution highlights our commitment to open systems. Hospitals can use Philips patient monitors with devices from a range of major manufacturers. These include MAQUET, Draeger, GE Healthcare, CareFusion, Covidien, Puritan Bennett, Edwards Life Sciences and more.

3rd party names are trademarks or registered trademarks of their respective owners.

# Device Management Dashboard

## Remote monitor diagnostics

The Philips Device Management Dashboard lets you remotely diagnose problems and technical alarms on select Philips patient monitors. You can view device configuration, approximate location, network connection, and error log – all from your PC or mobile device.



# Features

## Remote diagnosis for quick action

The Device Management Dashboard lets your IT and biomedical teams view your SureSigns VS3 and VS4, Efficia CM series, and EarlyVue VS30 monitors from virtually anywhere, allowing for remote diagnosis of technical issues and alarms. Technicians receive alarms at remote networked locations, helping you to feel confident that your devices are performing to your hospital's standards.

## Web-based access puts you in control

The Dashboard helps your team remotely manage and maintain your wireless and wired devices. Centralized software upgrades, for one device or all devices at the same time, within a care unit or across a distributed enterprise means your team can save valuable steps when maintaining your systems.

## Routine maintenance made easy

Alerting service representatives to potential technical problems quickly when the device malfunctions is like having a full-time IT technician at your side. Power management updates, software upgrade pushes and error log data downloads can all be done remotely, saving valuable time and steps when routine maintenance is required.

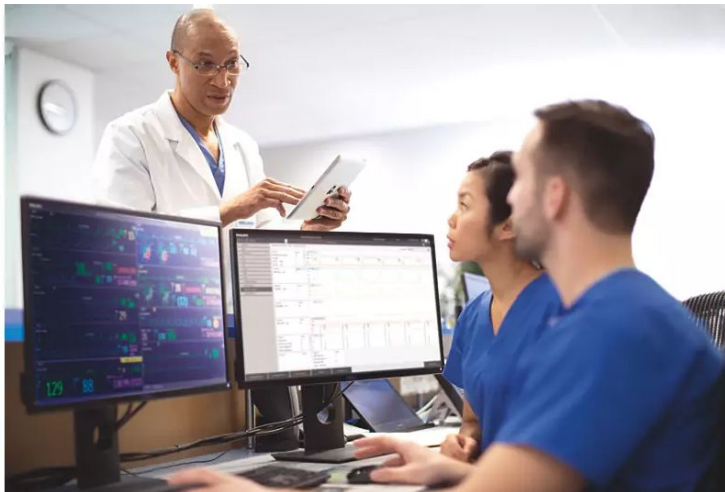
## Flexible network configurations serve your facility's needs

Web-based access to current technical and network status serves your team's needs. On-site hosting offers convenient diagnostics for technical problems on your devices. Your team receives nearly instant feedback from remote device and network information. The ability to have multiple simultaneous dashboard users speeds the troubleshooting process in the event of an issue.

# PerformanceBridge Focal Point

Simplify managing networked Philips devices

Philips PerformanceBridge Focal Point is an operational management application that aggregates, processes, stores and presents network system health performance metrics in near-real-time. This software supports you in centrally managing, maintaining and troubleshooting issues with Philips products on-site or remotely.



# Features

## Product performance insights

PerformanceBridge Focal Point gives up-to-date insights into the performance of your IntelliVue patient monitors, PIC iX servers and surveillance systems, wireless infrastructures and Philips routers, switches and firewalls. This information empowers you to take a proactive, preventive approach to system management, maintenance and security.

## Metrics, analytics and more

PerformanceBridge Focal Point gives you a bird's-eye view of your Philips monitoring equipment, opening up a wealth of possibilities to help you streamline your business. Through performance metrics, business analytics, workflow assessments and innovative business models, Philips can help you enhance IT and biomed management and implement continuous improvements.

## Reporting and analytics

PerformanceBridge Focal Point offers reporting and analytics capabilities that create clarity and visibility into your overall system health while giving you insights that help you to troubleshoot and diagnose any issues that occur with your products and devices. Real-time alerts and email notifications inform you of any real developments that require attention.

## Simplified patching

PerformanceBridge Focal Point helps you manage the complexity of applying security patches to your Philips products. This support encompasses Philips Focal Point OS Patching<sup>1</sup>, which provides you with access to security patches for the Microsoft™ operating system of our Philips PIC iX platform. You can also upgrade to let our experts manage all aspects of OS patching.

PIC iX and PerformanceBridge Focal Point only.



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