

PHILIPS

capsule

Medical Device Information Platform

One platform. Countless benefits.



Medical device data is the key resource in transforming from today's reactive care environment to insight-driven, proactive care delivery. When data is aggregated and presented in context, care providers can prioritize and coordinate interventions and activities more effectively and efficiently.

In today's healthcare environment, there is no shortage of data. However, that data is often siloed in different device manufacturer-specific solutions, unstructured, and coming at the bedside caregivers from a number of directions. By consolidating to a single-vendor, enterprise platform solution, hospitals have the opportunity to create efficiencies, increase data availability, and adapt and scale to their ever-changing digital environments.

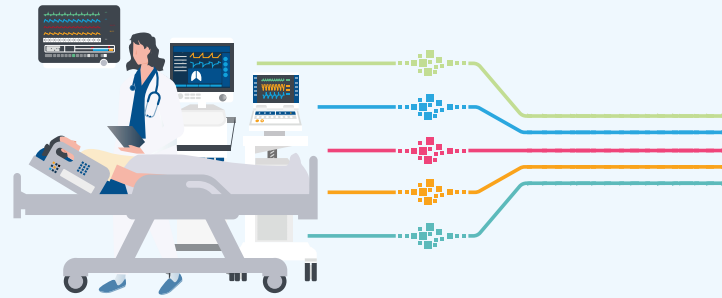
Each medical device is unique in its output and ability to connect to other systems — data needs to be liberated, aggregated, and shared so that applications can analyze and provide insights across the care team.

Philips Capsule Medical Device Information Platform (MDIP) is the single unified foundation to Philips Capsule integrated solutions.

These solutions leverage the capabilities of the platform to tailor and use live-streaming medical device information for proactive, potentially better informed decision making. Within the MDIP are configurable, cross-functional capabilities that manage core system requirements to provide a consistent, reliable, and seamless user experience. MDIP is the product backbone of the Philips Medical Device Integration solution and helps simplify complex workflows by making live-streaming medical data available to destination systems for documenting, reporting, analyzing, and making critical decisions.

Liberate

Every medical device is unique in its approach to providing data for use. Philips Capsule provides multiple ways to connect medical devices and collaborates with device manufacturers to develop and maintain device drivers — creating a plug-and-play platform to capture live streaming data.



Core capabilities



Centralized management



Contextual awareness

Key advantages

- **Enhanced data model**

Standardize and enrich medical device data for output by providing contextualized data and a unified list of variables to support customer needs. This allows for simplified configuration and deployments with advanced clinical consumers.

- **Remote management of connectivity hubs**

The Capsule Command Console (C3) is a centralized management tool for all administrative activities in the platform, providing visibility and management of the MDIP, hubs, connections, and application configurations securely from virtually anywhere through a modern, web-based application.

Aggregate

Once data is collected, it is normalized so it presents uniformly regardless of the type of medical device or device manufacturer it comes from.

Analyze

Live-streaming device data can be analyzed to detect subtle changes in patient conditions to provide proactive and potentially meaningful insights to care providers.

Share

Data is sent to virtually any downstream system (i.e., EMR or other CIS, clinical research database, alarm and alert management solutions, clinical decision support tools, etc.) across the entire care continuum.

**Informed
decision**



Scalability



Live streaming
data analytics



Security by
design



Quality of service



Cloud capable

● **MDIP High Availability and Shared Configuration**

The Capsule MDIP High Availability deployment offers resilience and aims to ensure a level of operational performance, including uptime. The goal of High Availability is to minimize the downtime of the Capsule platform to ensure minimal interruption in the data flow. When a server goes down, Capsule hubs and the medical devices that were assigned to it (depending on their connection type) reconnect to one of the available servers in the cluster, resuming their normal function.

Capsule MDIP Shared Configuration is a clustered server environment which allows for automatic configuration sharing across all MDIP servers. This avoids the need to manually copy the configuration from server to server, which eases deployments and system maintenance.

● **Advanced Integration**

Advanced Integration is designed to provide contextual, tailored medical device data to multiple third-party HL7 consuming downstream systems. This provides the ability to send different sets of medical device data to various downstream consuming systems at the rate of speed required by that system.

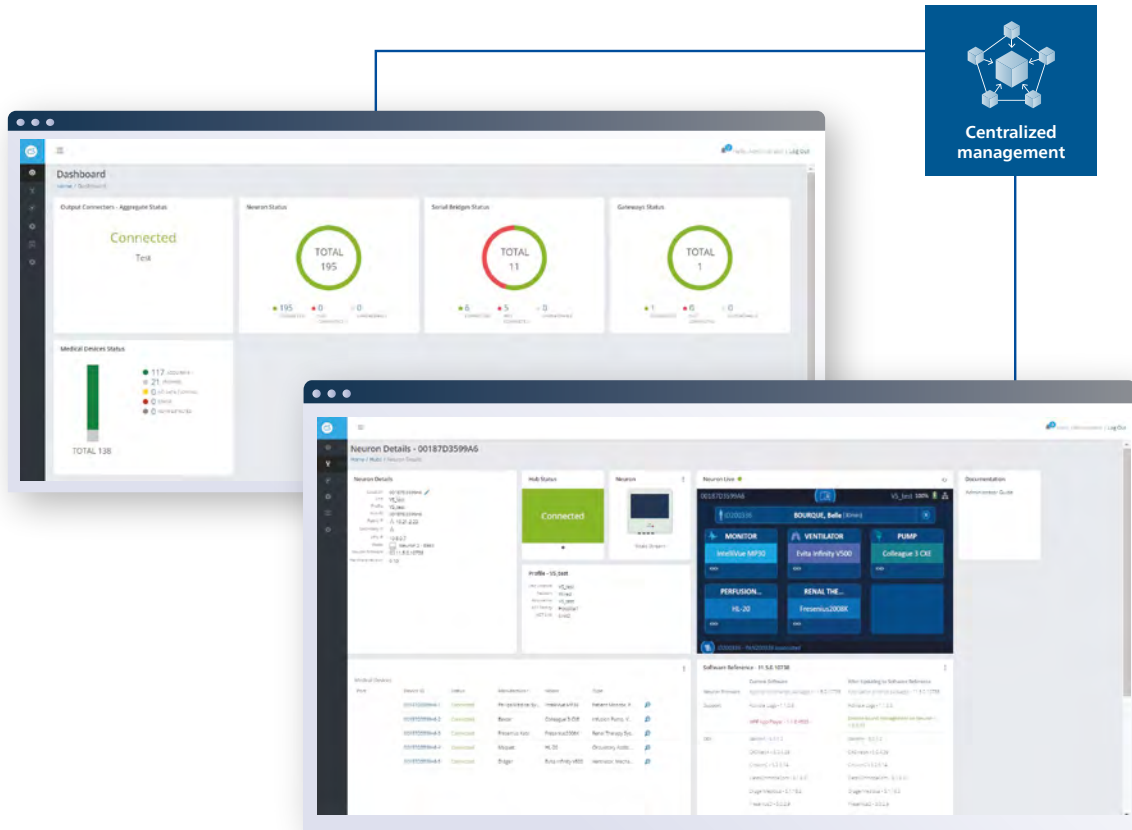
Rapid patient identification interface

Provides patient demographics to certain network-connected medical devices that require patient identification for integration.

Medical Device Information Platform core capabilities

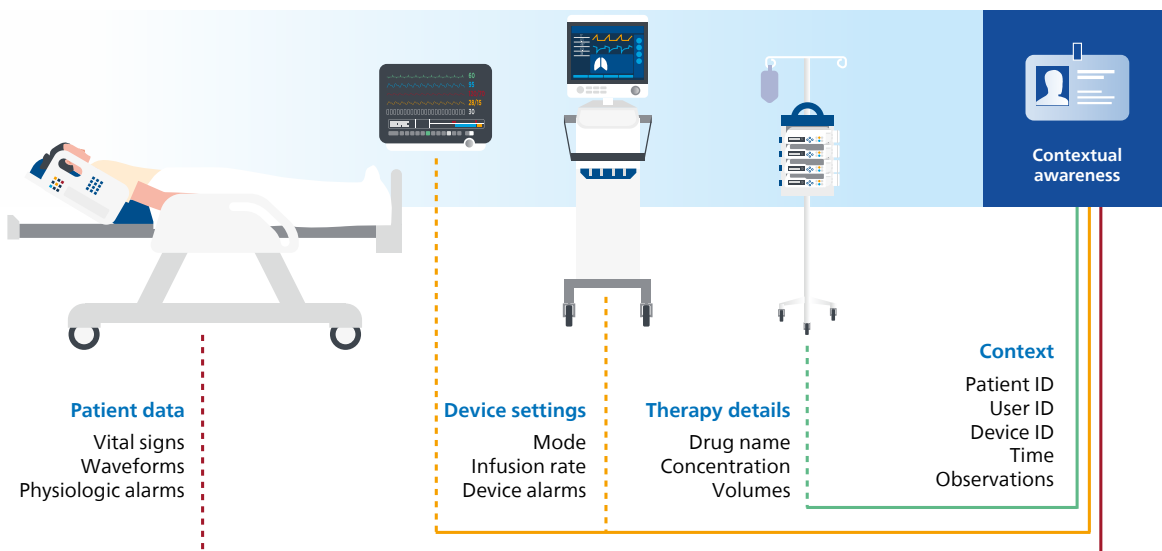
Centralized management

Provides single visibility and management of the Philips Capsule MDIP, connectivity hubs, connections, and application configurations securely through a web-based application. Enhanced controls and live remote views ease deployment and management by providing searching and filtering of connected hubs and access to hub details and status.



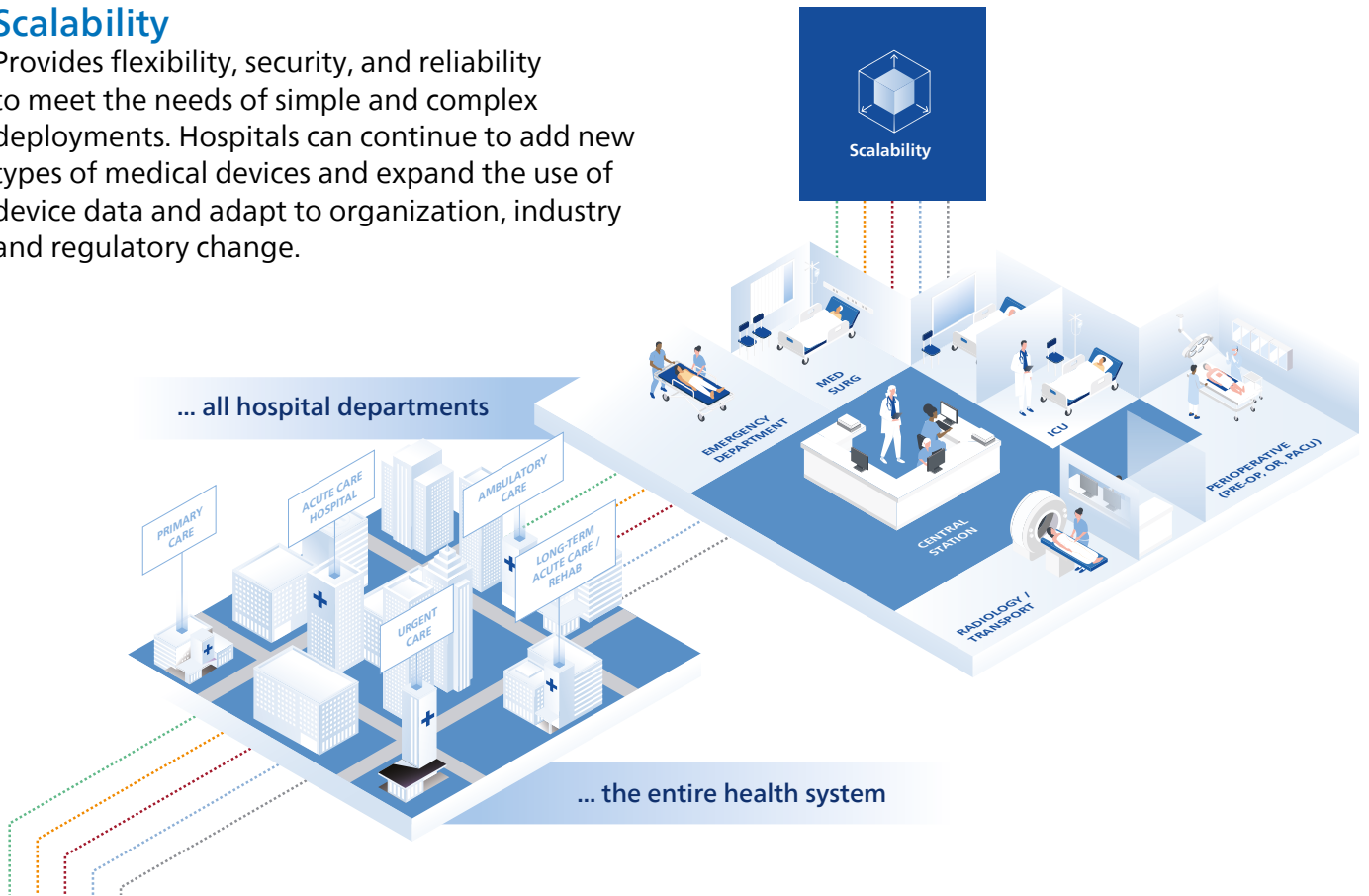
Contextual awareness

Provides critical contextual data elements that consuming systems require such as patient identification and association, multi-visit encounter selection, time synchronization, user access, and asset location. The Philips Capsule MDIP provides the tools and processes to identify, associate and disassociate the patient.



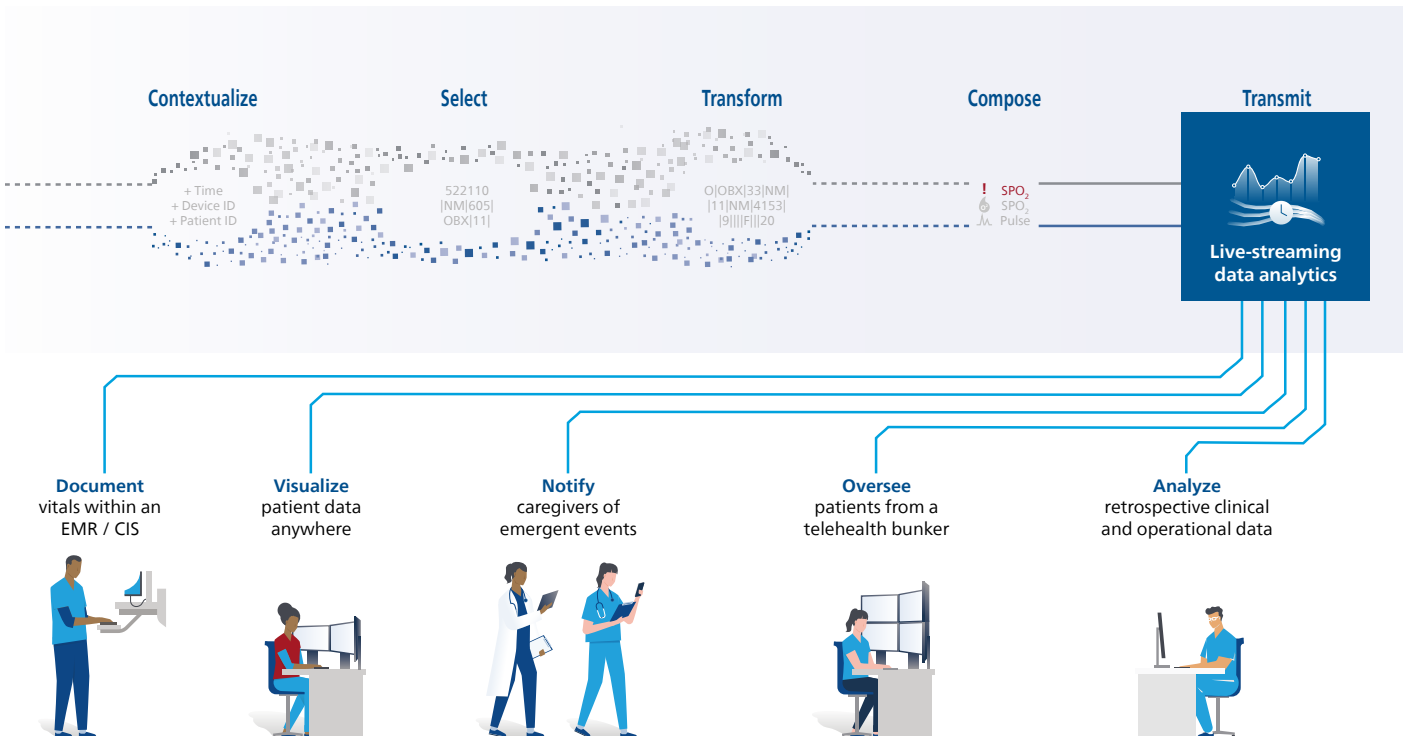
Scalability

Provides flexibility, security, and reliability to meet the needs of simple and complex deployments. Hospitals can continue to add new types of medical devices and expand the use of device data and adapt to organization, industry and regulatory change.



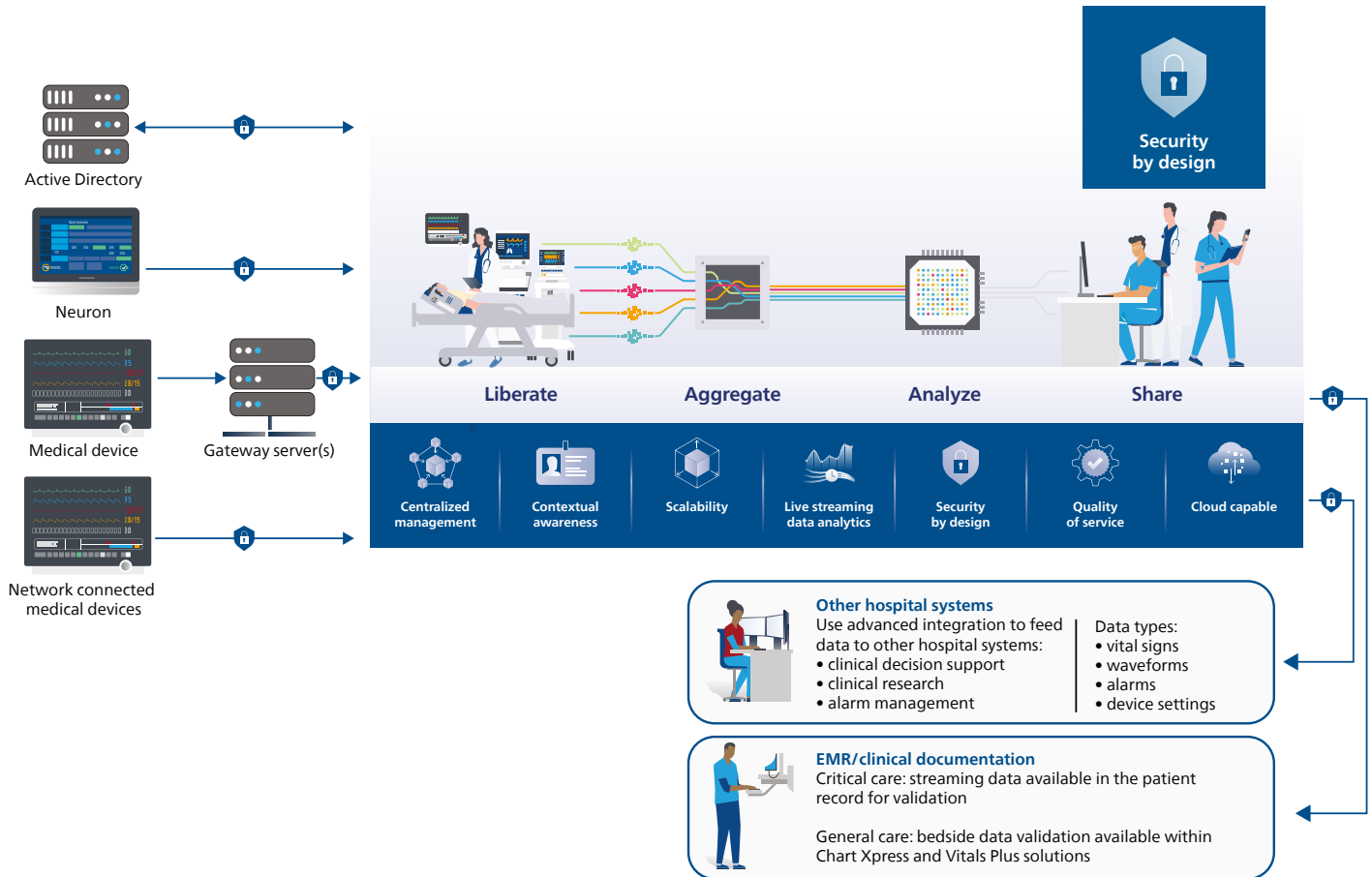
Live-streaming data analytics

Provides data management capabilities to transform streaming medical device data and transmit context rich information to receiving systems.



Security by design

Provides authentication, authorization, confidentiality, data integrity, privacy, and accountability within the platform. With MDIP Secure Communications, the platform supports end-to-end encryption for data in transit from the bedside to the HL7 downstream consumer.



Secure connection to medical devices*

Authentication and encryption of medical device data in transit between network connected medical devices and gateways with MDIP.

Secure outbound connection to HL7 consumers*

System authentication and encryption of medical device data in-transit between MDIP and receiving HL7 consumers.

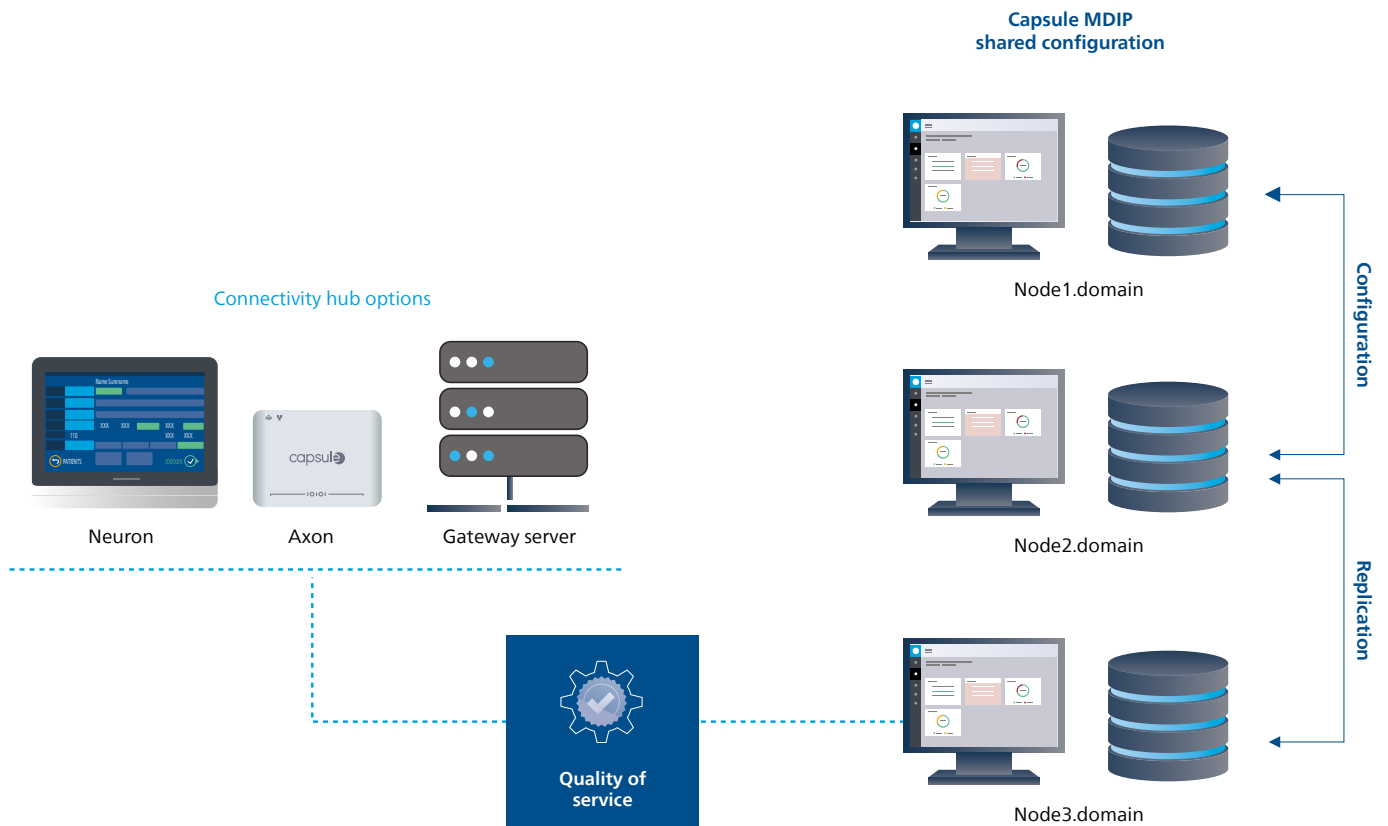
Secure connection with Active Directory

Secure data in-transit with Lightweight Directory Access Protocol Secure (LDAPS) between MDIP and Active Directory for user authentication. LDAPS is a protocol used over a network to authenticate users against Active Directory with data encryption.

*HL7 consumers and medical devices must support node authentication and encryption.

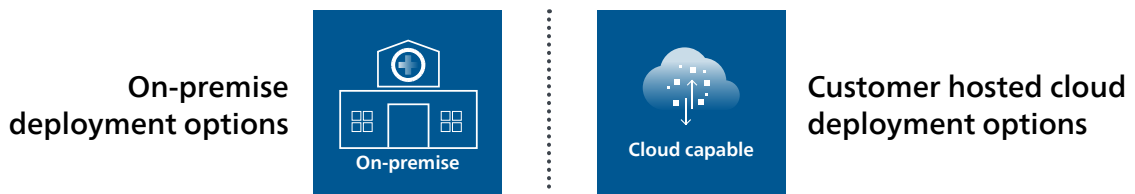
Quality of service

Provides reliable and timely access to the delivery of device data through services that are available and resilient. Configurable logging and troubleshooting tools help support the spectrum of deployments.



Cloud capable

Provides the option to deploy remote servers in the cloud, reducing hardware and support requirements while helping facilitate rapid deployment. Data is encrypted at rest and in transit and is stored to meet HIPAA standards. Provides a transition path from on-premise to cloud hosted.



Transform the management of your medical device data today with Philips Capsule Medical Device Information Platform (MDIP). Liberate, aggregate and share data from each unique device, enabling seamless connections with other systems.



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