

PHILIPS

Defining a practical path
to device interoperability

What it really means
to be SDC Ready

Executive Summary

Healthcare's growing reliance on data from connected technologies is rapidly accelerating, requiring interoperability solutions that meet current needs and support advancements in the future. The ISO/IEEE 11073 Service-oriented Device Connectivity (SDC) family of standards enables a path toward secure, real-time, bi-directional device communication, but wide-spread adoption will take time. Hospitals need vendor-neutral connectivity solutions that integrate diverse devices today while building a scalable foundation for SDC-enabled capabilities – helping healthcare organizations improve workflows now and confidently advance toward the interoperable, device-to-device ecosystems of tomorrow.



At Philips, we believe that being “SDC ready” goes beyond future compliance. It means delivering interoperability today while building a clear, flexible path toward the future. Our approach combines developing SDC innovation with proven connectivity solutions such as Philips Capsule Medical Device Information Platform (MDIP) and Enterprise Connectivity (EC10), enabling hospitals with multiple paths toward interoperability and the ability to build the smart healing environments of tomorrow.

The Reality of Today's Clinical Environment

Most hospitals operate in highly heterogeneous environments. Devices from multiple vendors, purchased over many years, must work together to support clinical workflows. SDC provides a vision for a more interoperable ecosystem in which medical devices can securely discover one another, exchange data in real time, and coordinate actions to support clinical decision-making and workflow automation across device vendors.

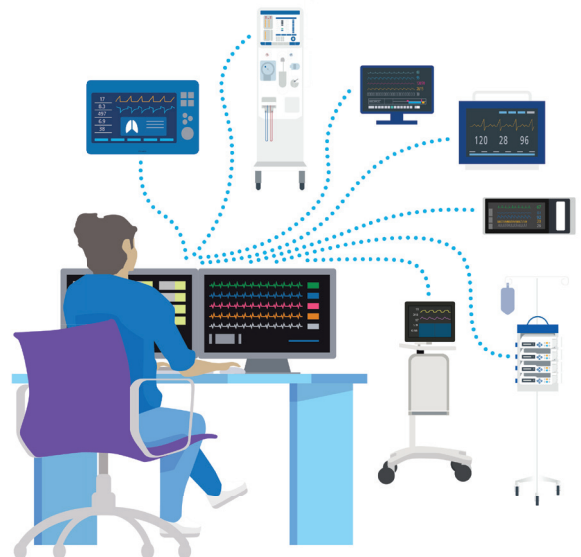
While that vision is compelling, several practical challenges remain once SDC is implemented:

- A mixed installed base of SDC-capable and non-SDC-capable devices
- Inconsistent communication protocols across vendors
- Long replacement cycles for clinical equipment
- The need to avoid disruption to patient care during transitions

Redefining “SDC Ready”

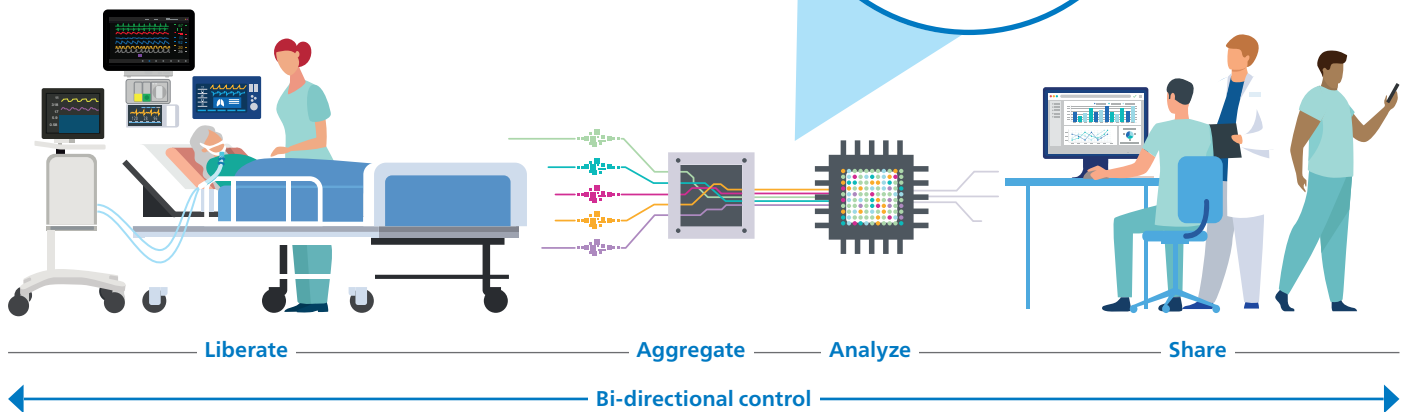
Philips believes being “ready” for SDC really means being ready for any interoperability challenges a customer may have, and may continue to have, long after SDC is widely deployed. It means having a combination of integration solutions that meet the customer where they are, from bedside to enterprise – at which Philips is uniquely positioned:

- Supporting the adoption and evolution of SDC-based communication
- Integrating existing and legacy devices into connected workflows
- Maintaining clinical continuity throughout transitions
- Providing flexibility in how and when new capabilities are adopted
- Developing a strong roster of industry partners to test and build the future together



All-encompassing layers: From open interface and driver-based integrations to future bi-directional protocols

Philips delivers interoperability through a combination of device connectivity technologies that work together across the care environment – from enterprise systems to the bedside.



IntelliBridge EC10: The heart of enterprise connectivity

EC10 extends interoperability directly to the point of care by enabling integration of both Philips and third-party devices at the bedside. It allows clinicians to visualize data from multiple devices directly on the patient monitor, creating a unified and contextual view of the patient.

By bringing together disparate device data in real time, EC10 enhances clinical decision-making where it matters most – at the point of care while also supporting enterprise-level data exchange.

Capsule MDIP: Today's standard for medical device integration

Capsule Medical Device Information Platform (MDIP) collects data from a wide range of connected devices – including patient monitors, ventilators and anesthesia machines – normalizing it and making it available to clinical and IT systems (e.g., EMR) and platforms such as central monitoring systems. MDIP provides a critical bridge between today's installed base and tomorrow's interoperable ecosystem.

Service-oriented Device Connectivity (SDC): The future of bi-directional communications

Philips is actively advancing SDC-enabled platforms that allow devices to discover, communicate, and coordinate in near real time. SDC capabilities are already being developed to support advanced workflows and as SDC capabilities mature, they'll support the potential to unlock new possibilities for care delivery, including:

- Alarm delegation to the appropriate caregiver
- Sharing data across devices to better drive advanced deterioration detection
- Cross-device coordination to help reduce clinician burden
- Closed-loop therapy with automated device response

Let's redefine what is really means to be SDC ready... taking a customer-first point of view

SDC represents an important step forward in device interoperability. However, readiness is defined not just by future capability, but by the ability to deliver meaningful connectivity today while charting a clear path forward. Solutions such as Capsule MDIP and EC10 help healthcare organizations achieve interoperability and workflow integration today, while Philips continues advancing SDC-enabled capabilities that support the future of real-time device collaboration.

As interoperability evolves from data exchange to device collaboration, the ability to act on information at the point of care becomes just as critical as access to it. At Philips, being SDC ready means supporting customers at every stage – helping them connect what they have, prepare for what's next, and ultimately deliver better care for more people.

