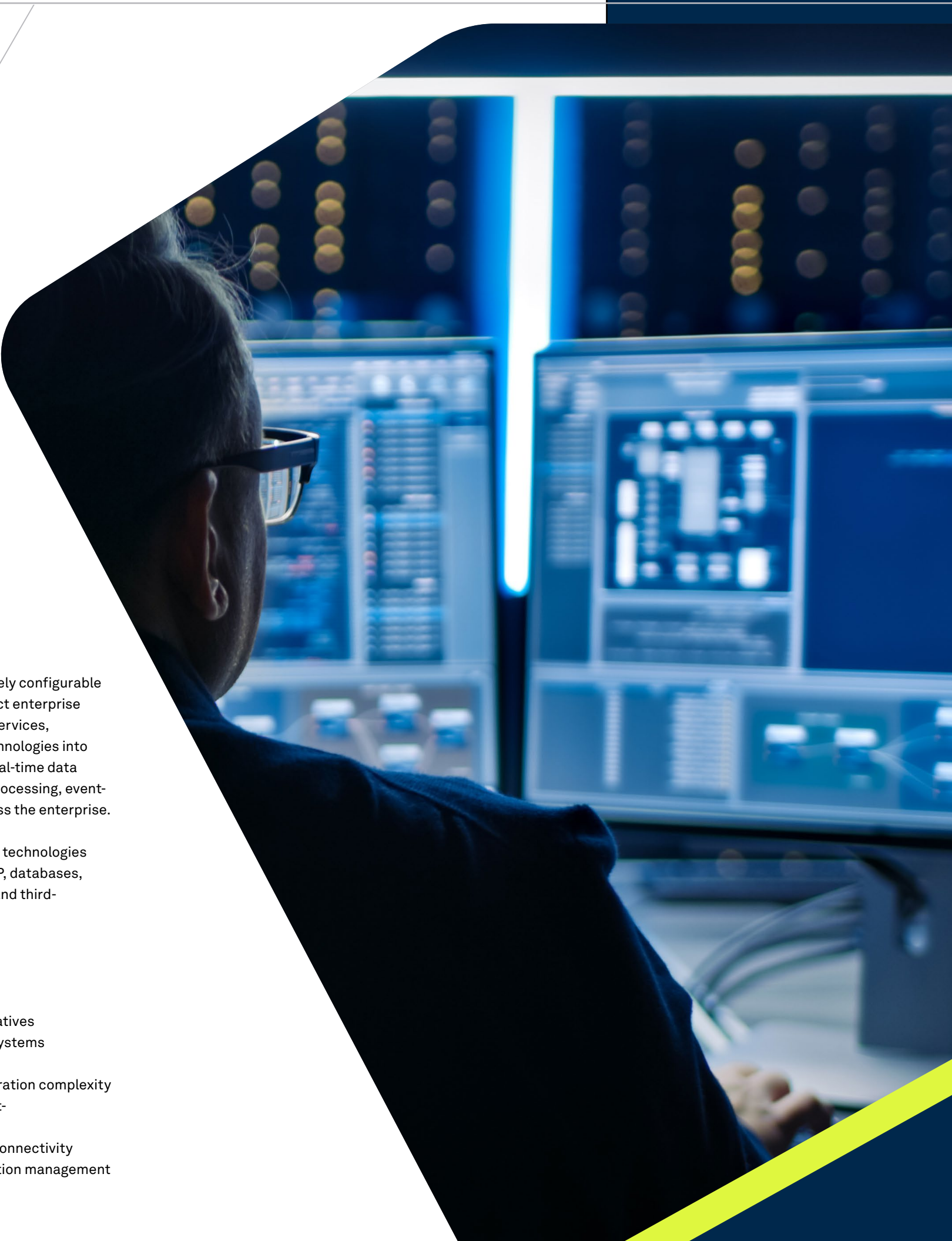




Hexagon Connected Worker | Integration

High-level integration use cases





Overview

HCW | Integration is a lightweight, remotely configurable middleware platform designed to connect enterprise applications, industrial systems, cloud services, databases, devices, and operational technologies into a unified digital ecosystem. It enables real-time data exchange, workflow automation, edge processing, event-driven actions, and interoperability across the enterprise.

Xalt | Integration supports protocols and technologies including TCP/IP, HTTP, FTP, MQTT, SNMP, databases, APIs, email, web services, file systems, and third-party integrations

Key business value

- Accelerate digital transformation initiatives
- Eliminate data silos across IT and OT systems
- Enable real-time operational visibility
- Reduce manual intervention and integration complexity
- Improve responsiveness through event-driven automation
- Support scalable edge-to-enterprise connectivity
- Enable secure and centralised integration management

High-level integration use cases

1. ERP integration

Business challenge

Enterprise systems such as SAP, Oracle, Microsoft Dynamics, or Infor often operate independently from shop-floor systems and operational applications.

HCW | Integration solution

- Connect ERP platforms with MES, CMMS, EAM, IoT, and warehouse systems
- Synchronise work orders, inventory, assets, and production data
- Enable automated master data exchange
- Trigger business workflows based on operational events

Business benefits

- Real-time enterprise visibility
- Reduced manual data entry
- Faster order-to-execution cycle
- Improved data accuracy

2. Industrial IoT and edge device integration

Business challenge

Industrial environments contain heterogeneous devices and protocols that are difficult to integrate.

HCW | Integration solution

- Connect PLCs, sensors, gateways, RTUs, and edge devices
- Aggregate real-time machine and telemetry data
- Perform edge-level filtering and event processing
- Forward processed data to enterprise or cloud platforms

Business benefits

- Faster operational insights
- Reduced bandwidth consumption
- Improved equipment monitoring
- Scalable industrial connectivity



3. Enterprise asset management (EAM) integration

Business challenge

Maintenance and asset data are fragmented across operational systems.

HCW | Integration solution

- Integrate EAM platforms with SCADA, IoT, ERP, and Connected Worker solutions
- Automatically generate maintenance work orders from equipment events
- Synchronize asset hierarchies and operational status
- Enable predictive and condition-based maintenance workflows

Business benefits

- Reduced asset downtime
- Improved maintenance efficiency
- Better asset lifecycle visibility
- Enhanced operational reliability

4. Connected Worker integration

Business challenge

Field personnel and frontline workers often lack access to real-time operational data.

HCW | Integration solution

- Connect mobile workforce applications with enterprise systems
- Deliver digital work instructions and alerts
- Capture inspection and field execution data in real time
- Synchronise worker activities with maintenance and operational systems

Business benefits

- Improved worker productivity
- Faster issue resolution
- Enhanced workforce collaboration
- Reduced paper-based processes

5. SCADA / OT system integration

Business challenge

Operational Technology (OT) environments need secure and reliable integration with enterprise systems.

HCW | Integration solution

- Integrate SCADA, DCS, historians, and industrial control systems
- Normalise and transform operational data
- Enable secure data sharing with enterprise applications
- Support protocol conversion and data mediation

Business benefits

- Unified IT/OT visibility
- Faster operational decision-making
- Improved production monitoring
- Simplified OT integration architecture

6. Database and data warehouse integration

Business challenge

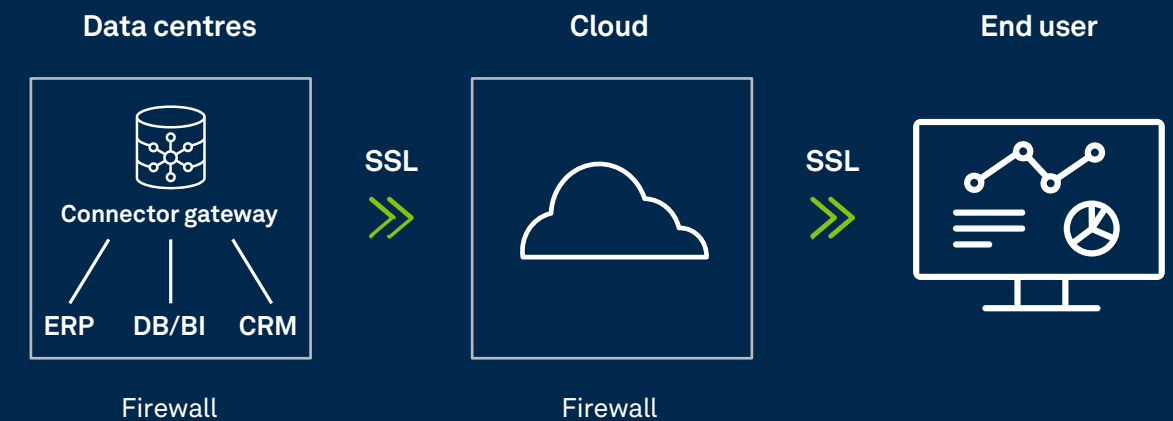
Critical business and operational data reside in multiple disconnected databases.

HCW | Integration solution

- Connect SQL Server, Oracle, MySQL, PostgreSQL, and other databases
- Automate data synchronisation and replication
- Feed enterprise data lakes and analytics platforms
- Enable near real-time reporting and dashboards

Business benefits

- Improved data consistency
- Faster analytics and reporting
- Reduced integration effort
- Better enterprise intelligence



7. Cloud integration

Business challenge

Organisations need seamless integration between on-premise systems and cloud applications.

HCW | Integration solution

- Connect enterprise systems with Azure, AWS, or cloud SaaS applications
- Enable hybrid integration architectures
- Exchange data securely between cloud and edge environments
- Support API-based cloud connectivity

Business benefits

- Accelerated cloud adoption
- Simplified hybrid architecture
- Real-time cloud synchronisation
- Improved scalability

8. API and web service integration

Business Challenge

Modern applications require API-driven interoperability.

HCW | Integration Solution

- Consume and expose REST and SOAP APIs
- Integrate third-party enterprise applications
- Enable secure application-to-application communication
- Support reusable integration services

Business benefits

- Faster application integration
- Reduced custom coding
- Improved interoperability
- Accelerated digital initiatives

9. Event-driven automation and alerts

Business challenge

Critical operational events are often missed or handled manually.

HCW | Integration solution

- Detect events and anomalies in real time
- Trigger automated workflows and notifications
- Generate alerts via email, messaging, or enterprise applications
- Enable policy-based automation across systems

Business benefits

- Faster response to incidents
- Reduced operational risk
- Improved SLA compliance
- Higher automation efficiency

10. Smart manufacturing and Industry 4.0

Business challenge

Manufacturers require connected and intelligent operations.

HCW | Integration solution

- Integrate production systems, MES, ERP, IoT, and analytics platforms
- Enable real-time production visibility
- Support predictive analytics and operational intelligence
- Connect factory-floor operations with enterprise decision systems

Business benefits

- Improved production efficiency
- Reduced downtime
- Enhanced operational intelligence
- Accelerated Industry 4.0 adoption



Hexagon is the global leader in measurement technologies. Our precision measurement, positioning, and autonomous solutions transform the world's most vital industries. From aerospace & defence, automotive, construction, general manufacturing to mining and more, we provide the confidence that customers rely on to build, navigate, and innovate.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,800 employees in 50 countries and net sales of approximately 5.4bn EUR.

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