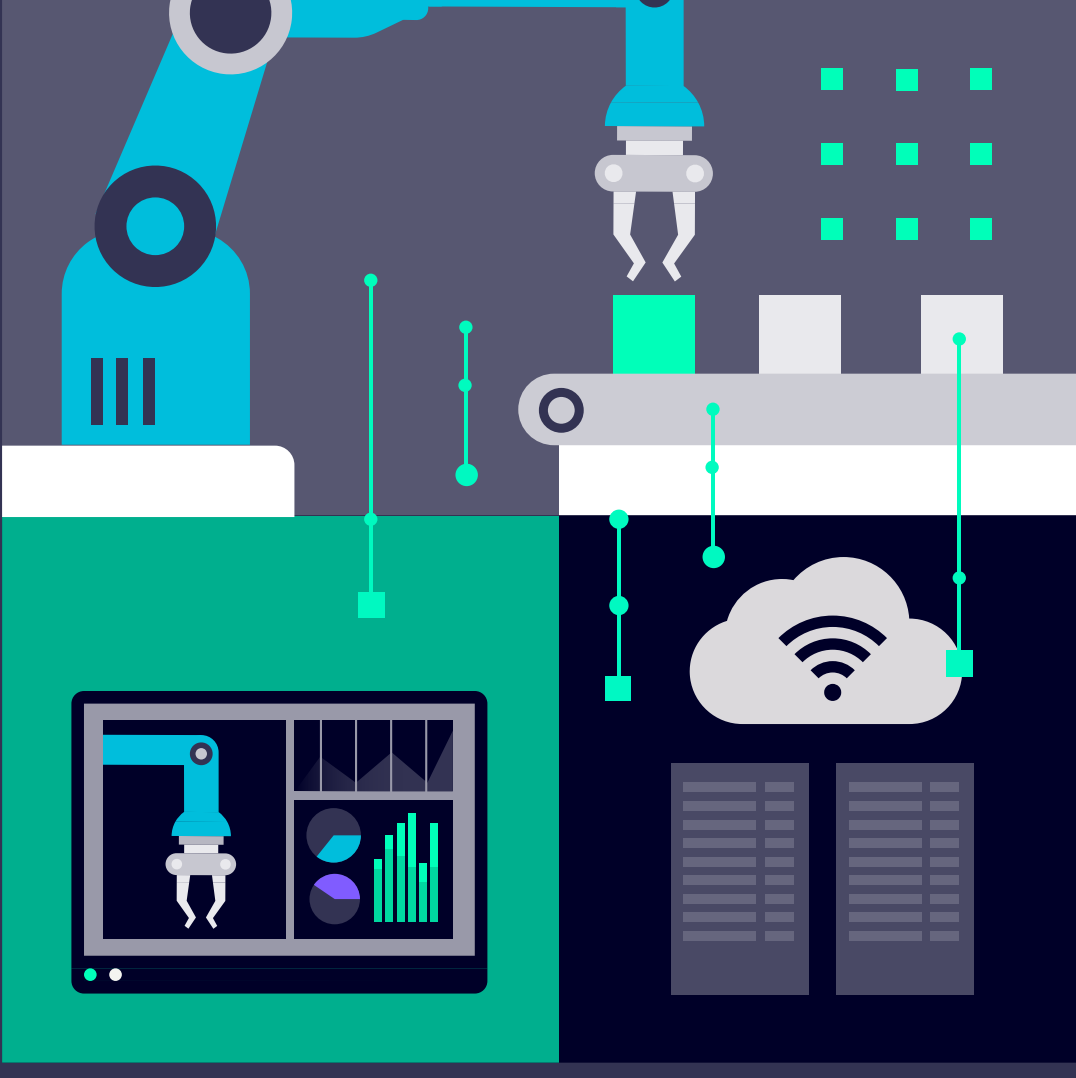


Combating IT complexity with the digital thread backbone



Digital capabilities are becoming more strategic and, as a result, companies are looking to break down silos and **converge IT and OT** operating models.

Reports suggest that those businesses that are ahead of the game in doing so can **add up to \$100 million USD** in incremental value.



Key IT challenges

There are three main challenges when it comes to **IT and product development**, namely:

Data silos and system fragmentation

Disconnected systems and fragmented product data increase IT maintenance burdens, leading to higher operational costs and challenges in ensuring data consistency across the enterprise.

Complex change management dependencies

Misaligned BOM updates across PLM, ERP, and MES systems create costly disruptions, requiring IT to implement resource-intensive workarounds to support downstream processes like procurement and manufacturing.

Integration and connectivity challenges

Limited cross-system integration increases the complexity of managing IT infrastructure, reducing efficiency in data sharing and collaboration, and impacting the organization's ability to meet quality and time-to-market goals.

Digital thread backbone solution

For IT leaders, a unified PLM system provides a scalable, enterprise-wide framework, harmonizing enterprise **BOM management** and integrating critical business systems to **streamline data flow and reduce complexity**.

By centralizing BOM data within a unified PLM system, IT teams can:

Reduce system complexity and maintenance overhead

Eliminate redundant integrations and manual data-synchronization tasks with a single source of truth for engineering, manufacturing, and service BOMs.

Enhance data integrity and connectivity

Streamline data flow across systems, ensuring that accurate, up-to-date information is readily available for downstream processes, such as procurement, production, and technical publications.

Improve system reliability and scalability

Standardize connections between core systems, reducing the need for custom integrations and ensuring a more resilient IT infrastructure that can grow with the organization.

Support operational efficiency with automation

Automate data synchronization and updates across systems, minimizing manual interventions and enabling IT teams to focus on strategic priorities.

Enable effective change management

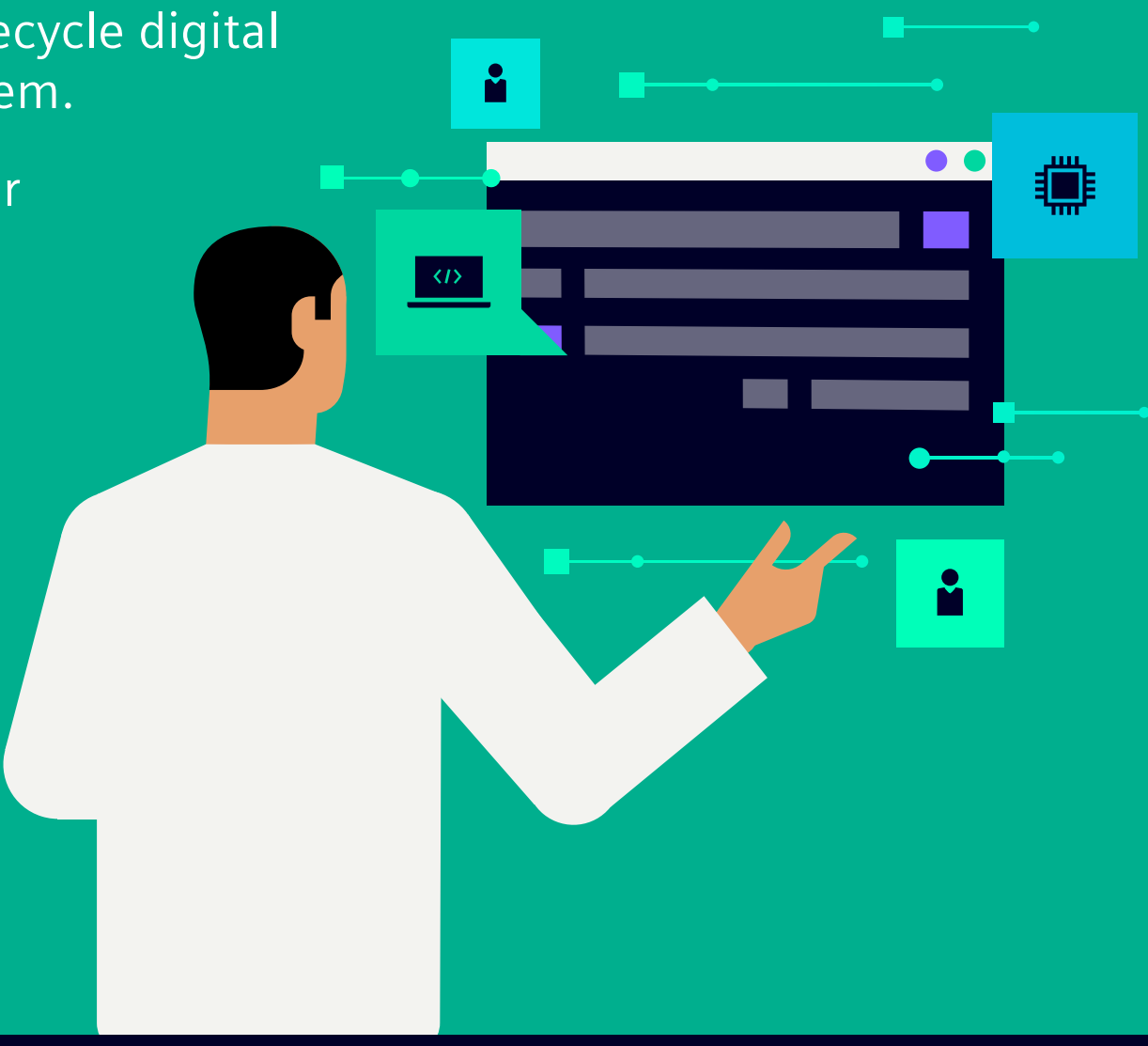
Seamlessly manage engineering changes across the product life-cycle, mitigating disruptions and ensuring alignment between design, manufacturing, and service teams.

Enterprise BOM

Manage your complete product evolution with enterprise BOM from the Siemens Xcelerator open digital business platform – the foundation of your product lifecycle digital thread that is accessible to the entire ecosystem.

Integrated enterprise BOM is the backbone for cross-domain collaboration of design, engineering, manufacturing, and service to combat drivers of BOM complexity such as multidomain complexity and smart, connected everything.

By adopting a unified PLM system, IT leaders can simplify their technology landscape, reduce the total cost of ownership, and deliver robust, scalable solutions that support their organization's digital transformation and operational goals.



Learn more about enterprise BOM