

SBEvision

May 8, 2025

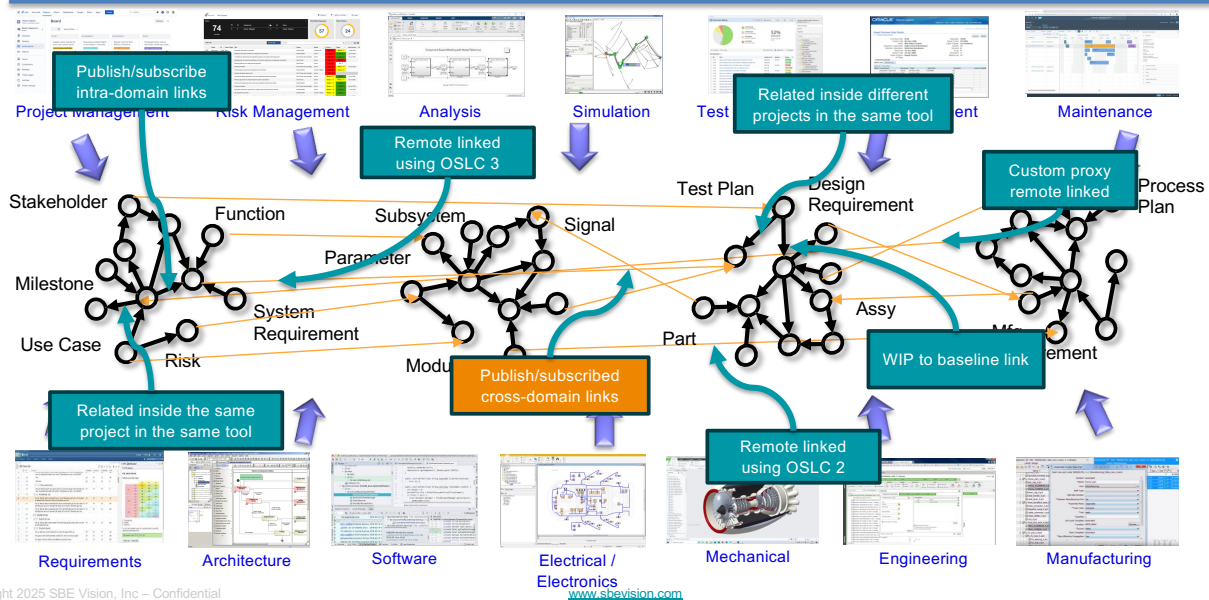
PLM Road Map™ & PDT North America 2025
PLM's Integral Role in Digital Transformation: From Strategy to Execution
Elevating PLM to an Enterprise system,
the PLM Professional's Role and Road Map to Success
May 7 & 8

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1

Fully Integrated Digital Model

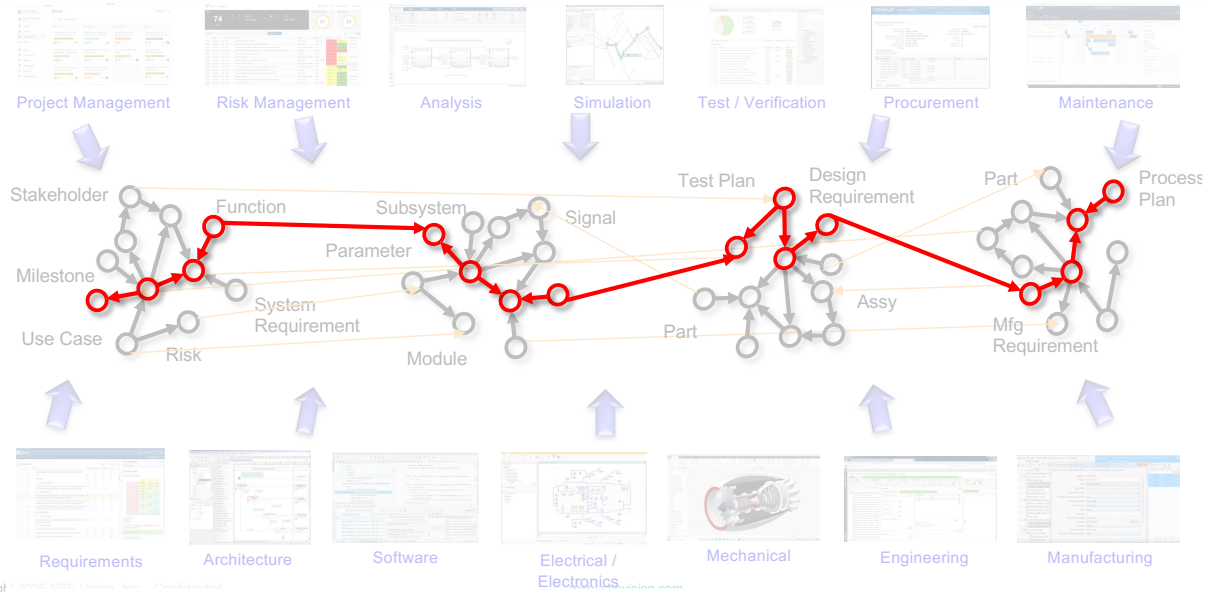


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2

Digital Thread End-to-End Traceability

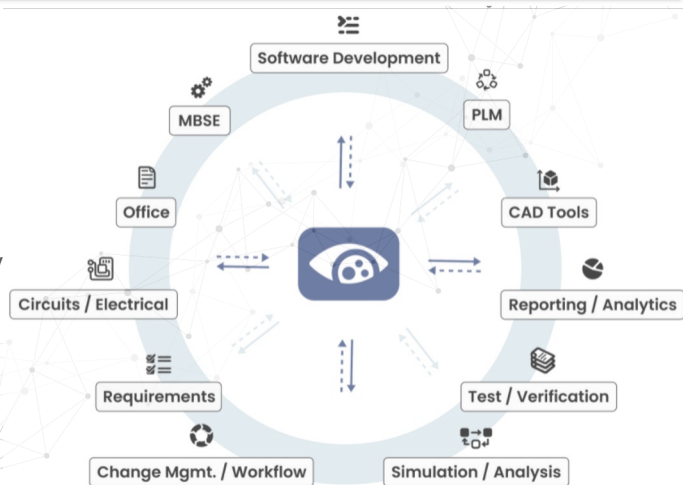


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3

The SBE Platform Within Digital Engineering

- Seamlessly integrate a diverse engineering landscape
- Ontological data representation for data uniformity
- Cross-tool configuration management awareness
- Seamless interaction and full functionality of subscribed data from other tools
- Supports real-time reporting and analytics
- Cross-system links persist outside of the SBE platform, ensuring long-term traceability and accessibility.



The digital thread transforms disconnected tools into a unified innovation ecosystem, so your best ideas never wait.

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4

4

Digital Thread Adapters + SDK

Adapters

- SBE supports a range of client-side and server-side adapters
- Support through version upgrades
- Configuration management aware
- Enables bi-directional information flow via channels
- Seamlessly blend pub/sub syncing and linking technology
- Encapsulates tool schemas including customizations

<https://www.sbevision.com/adaptors-sdk>

Adapter SDK



- Customers and partners build their own adapters with the SDK
- Perfect for in-house or legacy tools
- Available in Java, Python, and C#
- Multiple architectural templates
 - client, server, online, offline
- Dynamic platform registration
- Comes with "Mock-SBE" for testing
- SDK Consulting

SBE Fusion – Cross Domain Collaboration

Online Data Exchange:

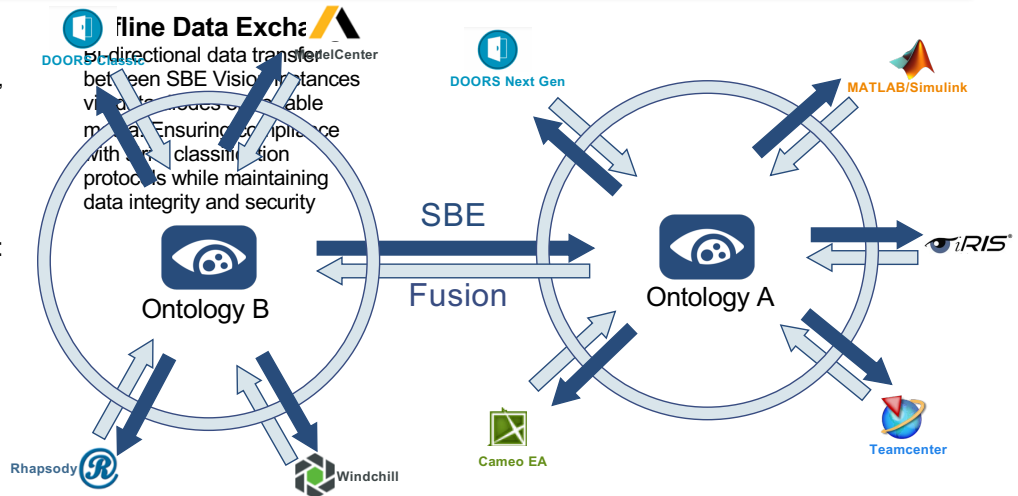
Bi-directional data transfer between SBE Vision instances, empowering collaboration between classifications, business units, suppliers, and companies

Offline Data Exchange:

Bi-directional data transfer between SBE Vision instances via data diodes or portable media. Ensuring compliance with strict classification protocols while maintaining data integrity and security

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Bi-directional data transfer between SBE Vision instances via data diodes or portable media. Ensuring compliance with strict classification protocols while maintaining data integrity and security



SBE Fusion empowers intentional data transfer across classification and business networks.

SBE System Architecture



7

7

Demonstration: Digital Engineering Interoperability



8

8

Demonstration: Digital Engineering Interoperability



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9

9

Summary of SBE Digital Thread Strengths

- **Semantic Ontology Centric**
 - Eliminates the n^2 interoperability problem
 - Enables seamless data exchange and integration across the enterprise ecosystem
 - Establishes a shared understanding across the technical and non-technical teams
- **Interlinking Flexibility**
 - Supports multiple simultaneous technologies
 - Transparent to end users, reducing the need for expertise in multiple technologies
 - Supports asynchronous work by dynamically linking data when all elements are available
- **Configuration Management**
 - Provides a common configuration backbone—adaptable to each tool's unique practices.
 - Context aware across work-in-progress, baselines, releases, and variability
- **Change Management**
 - Empowers users to collaborate within their tools
 - Leverages existing tool-specific merge/change facilities
 - Non-native data is actionable and modifiable.
- **Scalable Enterprise Architecture**
 - Container microservices unlock flexible deployments
 - Performant underlying technologies
 - On-premises, Cloud, Hybrid
 - ABAC and RBAC-enabled security methodology
- **Standard Adapter Methodology**
 - Adapter SDK provides a standard development approach, including legacy tools
 - Client and Server deployments
- **Reporting and Analytics**
 - Project insight and telemetry
 - Easy to understand impact analysis
- **Extending PLM Capabilities with AI**
 - Lowers the barrier to entry for adoption across all teams
 - Identifies approved and available parts to promote reuse and eliminates waste
 - Query the entire digital thread using natural language to identify gaps in system design

These capabilities result in a superior user experience while respecting the nuances of different tools.

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10