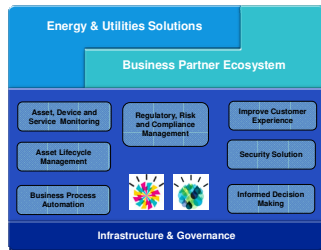


IBM Solution Architecture For Energy and Utilities Framework Accelerating Solutions for Smarter Energy



IBM Solution Architecture For Energy and Utilities Framework



Business Agility

Integrate, manage and optimize utility systems, inclusive of assets, devices, networks, servers, applications and data, driving business agility and intelligent network transformation. Leverage a flexible software platform to reuse assets, lower total cost of ownership (TCO), improve time-to-market and deliver stronger bottom line results.



Utility Integration Bus

SISCO's UIB complements the IBM WebSphere ESB with extensions to enable real-time and historical data access using a standardized data exchange model based on the industry standard IEC Common Information Model (CIM). The UIB with WebSphere helps utilities leverage their real-time data to improve their business processes.

IBM Solution Architecture For Energy and Utilities Framework

is an innovative, powerful software platform, uniquely positioned to provide network visibility and control, process automation and business collaboration for solutions across the energy value chain.


SISCO and IBM

Model-Driven Real-Time Integration for Utilities

The real-time nature of utility operations presents unique challenges to a utility's integration architecture. Like all enterprises, utilities need to leverage their internal business information to improve their business processes to provide a better customer experience, offer new services, and lower operational costs. The unique challenge at utilities is that much of their information is constantly changing real-time data that represents a complex set of assets spread out over a large geographic area. Utilities need a more effective way to access not only their real-time data but the information about how their assets are interconnected and how those assets are performing in order to use that information to improve their business operations.

SISCO's Utility Integration Bus (UIB) works with IBM WebSphere Enterprise Service Bus and other elements of the SAFE framework to more effectively access power system data and use that information to improve internal operations. The SISCO UIB uses the IEC Common Information Model (CIM) to provide access to all the data in the context of a common data exchange model. Instead of seeing the real-time data as a collection of tags using proprietary names, the UIB exposes all this data using the CIM so that application can not only find the data using the context of the power system but can also discover other related data due to its connection in the power system model. The UIB also enables applications and adapters to access the model information using a set of IEC services that enable models to be queried to find data, written to create or delete new model elements and updated via change notifications all over the WebSphere ESB.

SISCO's UIB and IBM WebSphere ESB lowers the cost of integrating business and operations functions by providing a model-driven framework that leverages the performance and flexibility of SOA while helping handle the complexity of real-time systems using the IEC CIM. Utilities can more easily leverage their existing real-time systems to improve their operations to provide faster customer service, more profitable asset utilization, more effective maintenance of existing assets, and help build a smarter planet.



“Using the IEC CIM model with the UIB and WebSphere helps reduce the complexity of bridging the gap between the business and the power system enabling utilities to more effectively leverage their real-time data to improve their operations.”

-- Jonathan Martin,
President/CEO,
SISCO, Inc.

Benefits of SISCO's UIB

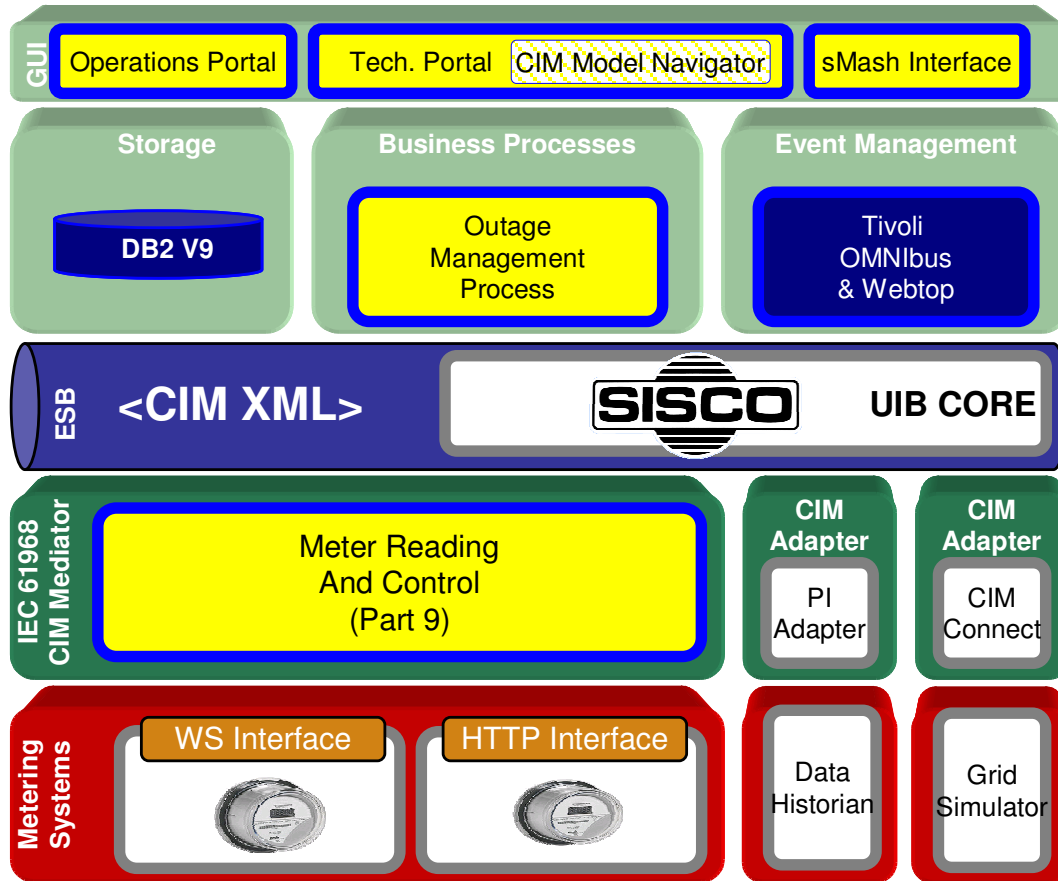
SISCO's UIB will make it easier for utilities bring real-time data into their integration architecture:

- **Reduces Development Cost With Standard Interfaces.** Using IEC and OPC Foundation standard interfaces enables using more off-the-shelf components minimizing development activities.
- **Simplifies Integration Using a Common Data Exchange Model.** All data access is done via a single unified data exchange model to eliminate transformations of data references.
- **Model-Driven Data Access Eliminates Location and Application Dependence.** Using the model to access data eliminates location and application dependencies enabling consistency of the meaning of data across the enterprise.
- **Model Management Services Improves Configuration and Management.** Modeling information is available across the bus to enable applications to more effectively find data without hard wired names, to help automate configuration, and to distribute changes to maintain the model over time.

SISCO and IBM: A Closer Look

SISCO's focus on important vertical industry standards like the IEC CIM and other common utility standards complements IBM's enterprise class capabilities of the WebSphere ESB and overall SOA.

- **WebSphere Adapters Available For Many Enterprise Systems.** Existing WebSphere adapters provide integration to a broad range of enterprise applications.
- **Robust, Secure, Scalable Infrastructure.** IBM WebSphere MQ, ESB, Application Server and Process Server provides a sound SOA foundation upon which to build an enterprise integration architecture.
- **Worldwide Solutions, Services, and Support.** IBM is a global leader with a world-wide presence and able to deliver and support solutions across the globe.
- **Large Diverse Community of Developers and Partners.** IBM works closely with many of the leading companies in most industry segments demonstrating a proven track record of cooperation in achieving customer success.



Rely on SISCO and IBM

IBM is a world-leader in the promotion, development, and application of integration standards. SISCO is a recognized expert in standards for vertical industries such as electric utilities and industrial automation.

SISCO

- **IEC Common Information Model (CIM).** SISCO has been actively participating in the IEC standardization activities since the mid 1990s. SISCO supports CIM based applications for SCADA integration, condition based maintenance, and other smart grid systems.
- **Power Systems Automation Experience.** SISCO has extensive experience in applying technology to provide utilities with unique solutions involving IEC 61850 for wide area protection and ICCP-TASE.2 for intercontrol center communications and power plant dispatching, and solve unique Describe the expertise in more detail.
- **Strong Partner Relationships.** In addition to IBM, SISCO has strong technology and business relationships with other leading solution providers for utilities like OSIsoft using the PI System.

IBM

- IBM has the industry-leading experience, comprehensive technology, and cost-effective methodologies to drive more business value from the utility value chain..
- IBM's Solution Architecture For Energy and Utilities (SAFE) allows utilities to accelerate the development and delivery of new capabilities and offerings.
- IBM supports the adoption of smart grids around the world by driving standards, working with policy makers, helping define the future of the industry, and innovating on first of a kind technologies.
- IBM Centers of Excellence, Proofs of Concept and Research First of a Kind projects demonstrate innovation and competence in solution implementation.

Rely on SISCO and IBM

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Somers, NY 10589
U.S.A.

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