

Industry 4.0

System integration

Big data

Augmented reality

Autonomous robots

Simulation



One Unified Platform to Run Your Entire Factory

Cimetrix Sapience® Integration Platform (Sapience) is a cloud-native smart factory platform to seamlessly connect varying factory equipment within a single event-driven framework.

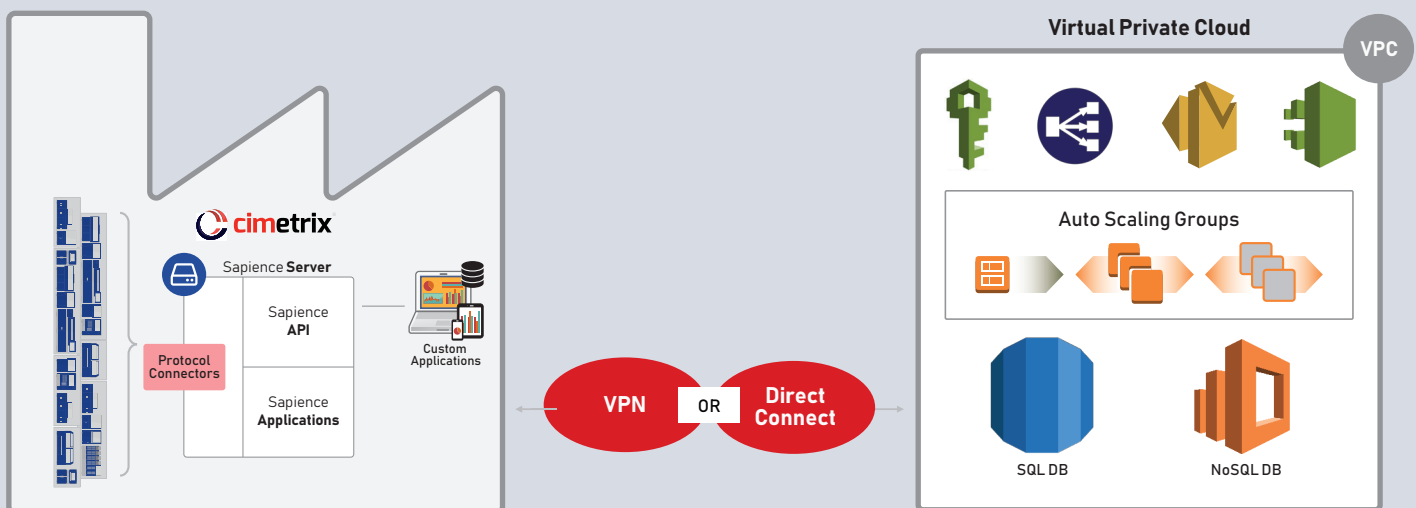
The Sapience platform provides rapid-deployment tools for factories to mine the treasure trove of data available from shop floor equipment, driving actionable insights for optimal decision-making.

Seamless connectivity allows factory IT systems direct access to factory equipment. Resulting equipment communication, data collection, and process control establishes the foundation for Industry 4.0, Big Data, and Smart Factory initiatives.

Architected for the Industrial Internet of Things

The Sapience platform provides a scalable architecture allowing factories to establish communication with a wide variety of equipment across multiple lines and facilities. The platform provides connectivity to equipment that support industry standard protocols.

The on-premise architected solution provides maximum control and security for factory implementations. The core system is easily installed via packaged installer. A Hybrid deployment solution can be installed with components residing in the public cloud. Scalability is achieved by utilizing existing containerized horizontal scaling techniques.

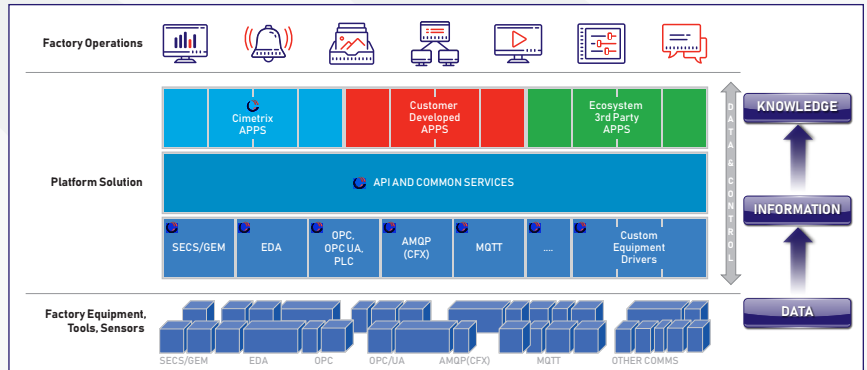


Single Platform Solution - to Connect all Factory Equipment

Communication Layer: IIoT-ready Sapience platform leverages industry standard protocols to seamlessly connect varying factory equipment. The framework provides equipment connectivity using a simple common user-friendly Configuration Manager.

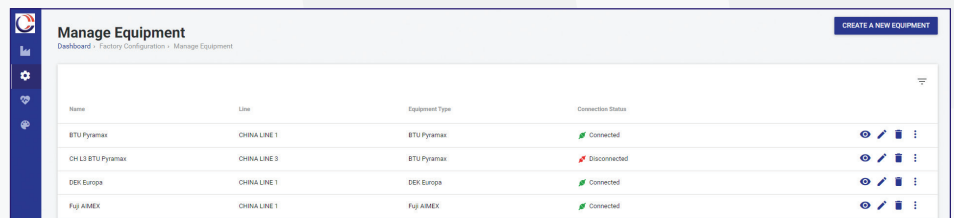
API & Common Services Layer: The Sapience platform provides API's and common services allowing multiple factory applications direct access to factory equipment.

Application Layer: Multiple software applications can connect to all factory equipment through the single platform - resulting in an ecosystem of in-house developed applications, 3rd party software, and Cimetricx Sapience applications.



Centralized Configuration Editor

The Sapience platform provides a single common configuration editor to configure shop floor equipment across the framework. An intuitive user interface provides simple add/edit/delete functions to configure varying equipment across multiple lines and factories. An Equipment Management view allows a single view of configured equipment including real-time connection state and debugging tools to maintain communication. Additionally, the central configuration editor provides an administrator a single view to manage the status of the entire platform.



Name	Line	Equipment Type	Connection Status
BTU Pyramax	CHINA LINE 1	BTU Pyramax	Connected
CH L3 BTU Pyramax	CHINA LINE 3	BTU Pyramax	Disconnected
DEK Europa	CHINA LINE 1	DEK Europa	Connected
Fuji AMEX	CHINA LINE 1	Fuji AMEX	Connected

Overall Equipment Efficiency (OEE) Module

The Sapience OEE Module is an out-of-the-box web-based application to collect, analyze, and display equipment efficiency data. The OEE Module is a key component of the Cimetricx Sapience Integration Platform ecosystem designed to quickly provide actionable data with minimal configuration. Upon establishing an equipment connection, the OEE Module automatically begins collecting real-time equipment utilization and alarm data.

