



Highlights

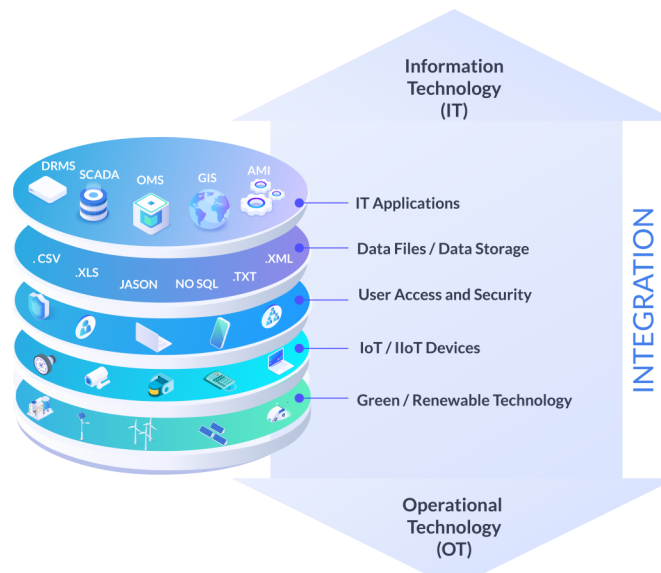
- Complete IT, OT and IT-OT integration
- AI-Powered Advancements
- Robotic Business Process Automation
- Agile Integration and Microservices based
- REST API

The **Cross System Integrator (XSI)** from 3Insys simplifies all aspects of integrating applications and devices into any Information Technology (IT) or Operational Technology (OT) environment. Unlike other solutions that deliver just IT integration, XSI delivers complete IT Integration, OT Integration, and IT-OT Integration.

Utilities rely on applications and devices to run their operations. In the past, vendors constructed their integrations by writing custom code for their interfaces and business logic. This “tightly coupled” approach between applications forced the utility to be dependent on the application vendors anytime changes were required.

The **Cross System Integrator (XSI)** from 3Insys decouples utilities from their application providers and simplifies integrating applications and devices into any IT or OT ecosystem. **XIS** allows utilities to:

- Add or replace systems with plug-and-play ease.
- Easily connect applications or applications and devices
- Add new capabilities to any operations with little to no vendor involvement
- Centralize business rules, log, and event files
- Robotic Business Process Automation to quickly automate business processes
- Unify device identification, registration, and configuration processes



XIS Key Features

OT Integration: XSI contains a comprehensive set of OT device protocols and providing a unified platform for identifying, registering, and configuring IoT, IIoT, sensors, mobile, and other edge computing devices.

IT Integration: XSI can connect nearly any applications and easily exchange data between them without vendor involvement or custom code through it's vast support of APIs, protocols, and message formats.

Service Communication Protocol Types	RESTful API, SOAP web service, gRPC, and Event Messaging
Database Connectivity	ODBC, JDBC, ADO.NET, OLE DB, and Entity Framework
Message Formats	JSON, XML, SOAP, MultiSpeak, Protocol Buffer, Byte Arrays
Application Types	REST API, Console, Windows Service, Daemon
Messaging Types	JMS, AMQP, MQTT
Security	<i>Authentication: Basic, JWT, Kerberos, NTLM, Tokens, OAuth2 Transport: HTTP2 by default</i>

IT-OT Integration: Enable communications between any application and any field device.

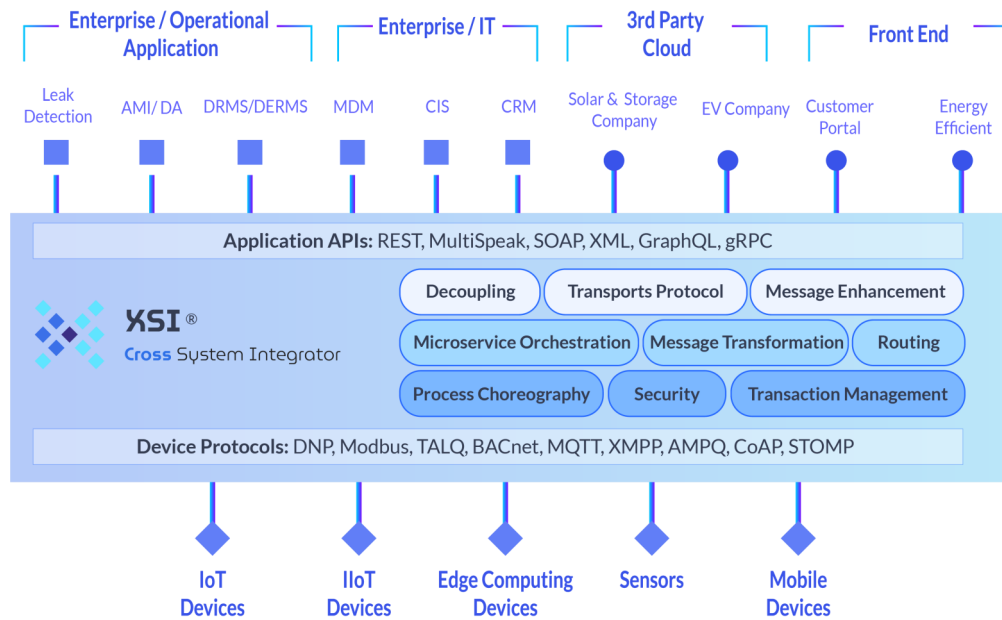
Adaptors and Connector Library (ACL): The ACL is an extensive library of connectors for on-premises or cloud-based applications in the enterprise that facilitates the connection to major applications and products in the energy and utility sectors.

Flow-MX: Over 30 pre-defined Advanced Intelligence-based enhancements that can be applied to any existing utility operation. Data flows between existing applications are combined with Advanced Intelligence from 3Insys's deep domain experience in utilities and smart cities resulting in new and enhanced operational capabilities.

Robotic Business Process Automation (RBPA): Based on Artificial Intelligence (AI), RBPA allows data flows to be created quickly through a simple point-and-click user interface. Through it's simplicity, companies can easily create data flows to eliminate manual/repetitive tasks or add new connections between applications or devices.

Centralized Business Processes: All data flows created are kept within the Cross System Integrator. By centralizing the business processes in XSI, 3rd party applications can be added, removed, or replaced quickly and easily.

Centralized Log and Event Files: Gone are the days when organizations had to pull log and event files from applications and devices when trying to identify the events leading up to and occurring after a specific incident in question. XSI reduces the amount of time organizations spend by collecting and storing the log and event files in a time series-based file in a database.



XSI Technology Overview

XSI is an Agile Integration platform. Unlike traditional monolithic and Service-Oriented Architectures used by middleware and Enterprise Service Bus approaches, Agile employs a microservices architecture. Each service runs its own processes and operates as a self-contained service independently of every other service. Agile Integration delivers significant advantages across the entire integration scope, including *improved reliability*, *increased scalability*, and *ease of deployment*.

Using a bus-style architecture enables multiple applications to exchange data with one another in a decoupled manner, thus allowing applications to be added or removed without affecting the other applications.

XSI provides precise and reliable support to the following five key layers of a typical enterprise integration architecture:

Integration Layer	Provides mediation capabilities through composite services, service orchestrations, data transformations, protocol translations/switching through the standard Enterprise Integration Patterns
Service Layer	Provides hosting, monitoring, governance, availability, resiliency and orchestration of service containers in service mesh
API Management Layer	Provides a clean and consistent service publish point and manages authentication, authorization, caching, throttling, resiliency, and analytics for individual and composite services.
Data Layer	Provides secure and consistent access to persistent layer – databases, files, ERP, CRM, and legacy applications
Load Balancing Layer	Provides the proxy layer for basic security - DOS attacks, XML/JSON injection, CRLF, and more.

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