

ibi™ iWay® Service Manager

Integration server ensures rapid access to timely, accurate data

Benefits

- Modernize API design and management
- Create dynamic applications
- Supports integration strategies such as APIs, service mesh, streaming, and EDI.
- Foster collaboration among developers
- Generate complex yet flexible transformations

ibi™ iWay® Service Manager is part of **ibi™ Data Intelligence** – a single integrated offering that brings together diverse data management functionalities. Gain operational efficiency, reduce costs, and ensure data accuracy with our holistic solution for your data strategy.

ibi™ iWay® Service Manager (iSM) is an integration platform that ensures rapid access to timely, accurate data across all systems, processes, and stakeholders with unmatched interoperability between disparate systems and data. With iWay® Service Manager, all aspects of your existing infrastructure—every integration, application, and development environment—work in concert with modernized architectures to rapidly develop new business applications and create powerful, reusable business services from existing applications. This modern architecture support ensures a highly optimized development environment and rapid creation of internally and externally consumable services.

ibi™ iWay® Service Manager offers end-to-end integration of the widest variety of sources, including real-time, batch, streaming, big data, structured and unstructured information, cloud-based sources, social network, and machine-generated data.

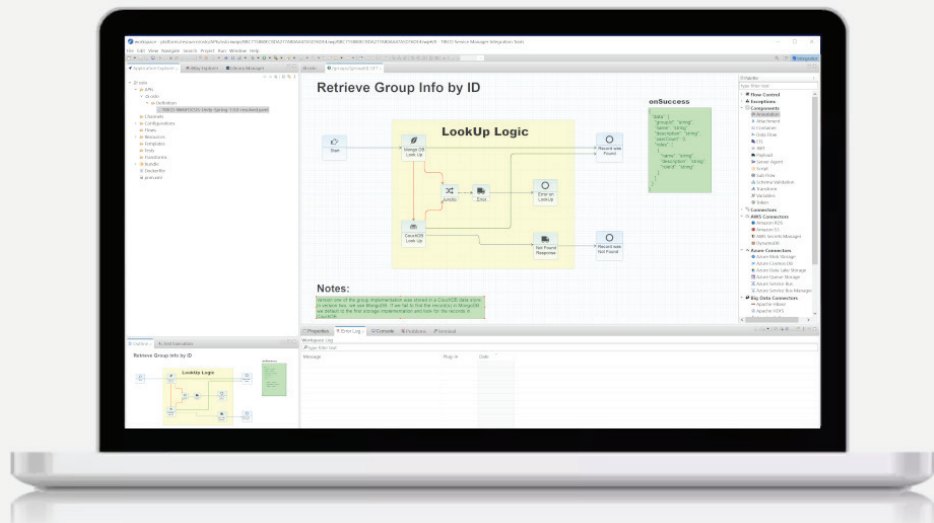
Application programming interfaces (APIs) are widely used as a connection mechanism to standardize communication between applications. They provide a documented, published interface in a secure and scalable environment for connecting multiple systems while enabling a high level of reusability and adaptation of services.

API Design and Management

APIs expose a specific set of services as defined by the application for internal or external consumption via a secure RESTful interface.

iSM offers integrated support for API design and management, while complying with the latest security standards.

iSM leverages a modern approach for cross-system and cross-application communication. An application's author can expose the APIs, and, therefore, the application logic, for consumption. iSM can also consume APIs as part of its standard business logic for data processing. Additionally, it expedites deployment with a library of highly reusable and easily maintainable APIs.



Technical process flow orchestrates required logic.

Microservices

Microservices architecture replaces the monolithic application approach with applications comprising independently deployed and managed services. Each service encapsulates the specific business logic needed for the application. This decoupling simplifies application maintenance, expedites the development of new services, and enables diversity of service implementations while maintaining a unified interface. The adoption of microservices reduces cost and increases agility. iWay® Service Manager delivers all the capabilities an organization needs to support a microservices architecture.

Modern & Intuitive Design Time

iSM offers a modern and user-friendly design-time environment that expedites development and enhances usability. From the modern

graphical process designer to the in-place adapter configuration, it gives developers a new platform that enables intuitive navigation and wizard-driven configurations, allowing them to create and manage the application from a single interface.

New features promote high reusability, ensuring that developers can reuse any applicable configuration component, from a simple connection definition to the entire business logic. The native integration with source management systems enables multi-developer teams to work in parallel, such as ensuring expedited application deployment. Intelligent process creation streamlines development and minimizes related costs.

A new Testing Platform is available adding unit testing functionality to the design time environment. The Testing Platform provides a set of tools that allow users to build tests for their process flows and then run those tests in an automated environment for design time and command line.

A rich object pallet exposes all available services to enable rapid access, user-friendly configuration, and modern design. It provides a wide array of common objects, including adapters, connectors, controls, data quality, and ibi™ WebFOCUS® integration, as well as unique objects such as Twilio. One-click access to any component accelerates and streamlines application design and reduces the likelihood of user error.

Collaborative Team Development

Because development teams are not always in the same place, the implementation of source management is vital for any enterprise-level development project. It strengthens code management and tightens control over application development, while fostering teamwork and collaboration on multiple levels.

Multiple team members can share in the development of an application, while ensuring the integrity and control of the artifacts. iSM's current Eclipse-based design-time environment offers native integration with source management systems via the abstraction of team APIs. This delivers a unified view of a project, regardless of source management.

Dynamic & All-inclusive Applications

All-in-one dynamic application creation ensures completeness and eliminates the hassle of gathering required parts and components. iSM automatically builds an application package based on project

artifacts, while enabling customization and updates and including additional components to meet the needs of more advanced users or support applications with externalized dependencies.

It ensures the integrity of an application across multiple environments by delivering an automated and scripted deployment model. With the iWay® Software Development Kit (SDK), application management becomes a native part of an existing enterprise-level operation, and seamlessly integrates into existing operations infrastructures.

Multi-Tenancy Support

Currently, hybrid application architectures combine service-oriented architecture (SOA), microservices, and other styles, deployed on a variety of platforms. It is vital to ensure accessibility and communication across applications that need to share information while maintaining application integrity.

As part of its multi-tenancy support, iSM enables applications to fetch runtime processes, transformations, and other shareable components from local or remote libraries, regardless of their location. This renders the application's location irrelevant as components are always accessible. As a result, the application is movable across different environments without needing to update or restructure the logic.

Secure & Scalable Data Processing

iSM offers scalable and secure data interchange through an array of features that enable streaming, real-time, batch, and delta data processing. Its unique data processing services include native JSON support, XML, data streams, a vast library of data manipulation services, and support for numerous APIs.

iSM's security capabilities support industry standards such as OAuth, SAML, SSL/TLS, AS/2, S/FTP, FTP/S, SMIME, XMLDSig, and AES. It supports high-volume data processing in a secure environment, with optimization features that promote memory utilization or transaction latency, to fit the application need.

Activity Monitoring

Developers can monitor applications and transaction-specific information to obtain an end-to-end, non-invasive view into the transaction lifecycle. Activity monitoring features enable capture, analysis, and resolution of various error situations, as well as reprocessing of transactions from within a web-based environment. User- and role-based security control ensure only authorized access.

Parallel Order Processing

Preserving arrival order is a common challenge for systems tasked with processing messages in parallel. The common technique of single-threading the ordered process implies performance hits. iSM's patented approach focuses on parallelism and eliminates complex application logic. The ordered listener retains the required order, and the system dispatches messages as they become available in transactional or batched modes.

Unparalleled Transformation Services

Today's applications call for great flexibility in relating data from various sources and making it consumable by other applications. This requires transformation services that enable the applications to manipulate not only the data format, but also the actual data. iSM's rich transformation offering promotes the creation of complex yet flexible transformations.

It provides transformation services that support an array of formats from standard JSON, FWF, and XML, to more system-specific formats such as EDI, SWIFT, HL7, and more. The transforms are visually driven and enable the user to quickly map across various formats, while enriching the data from external sources. These services, a native part of data processing, are accessible as services or internally by the application.

The ibi™ Data Intelligence Difference

Data Intelligence brings together the power of ibi solutions to create a unified end-to-end data management solution. Now, you can support your entire lifecycle of data and analytics projects and deliver business value from a single solution. Because our broad set of capabilities are integrated and unified, you will benefit from cost savings, increased productivity and efficiencies, and the ability to scale your data management operations. Upgrade to ibi™ Data Intelligence to modernize your data management strategy.



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ibi delivers a modern data and analytics software platform that helps organizations harness the power of data to drive informed decision making. Fuel your digital transformation with data management and business intelligence capabilities to support large-scale deployments with embedded analytics and enterprise reporting built for cloud and hybrid environments and backed by deep industry expertise.

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