



AVANADE®

ENTERPRISE INTEGRATION Solution

Enterprise integration requires more than simply linking your data systems. Integrating data, applications, information, and processes allows you to take the next step toward reducing costs while increasing business functionality, efficiency, and agility. By making data easier to access and modify across applications, within organizations, and between organizations, Enterprise Integration helps you unlock the full potential of your IT infrastructure.

Strengthen your existing applications or build entirely new ones with Microsoft® .NET to empower your employees and partners with the functionality, connectivity, reliability, and security they require—while still reducing your total cost of ownership.

Organizations today rely on a complex combination of systems and technologies to support their critical business processes. In the face of changing global economic dynamics, numerous mergers and acquisitions, and the emergence of new business channels, your organization must find ways to enhance the effectiveness of your existing IT infrastructure to optimize internal processes, external processes, reduce overall spending, and deliver on the bottom line.

Gain a unified view of your organization's business processes

Organizations depend on a variety of systems to manage their key business processes, including finance, CRM, supply chain, HR, and data analytics.

- ▶ Does your organization rely on multiple, independently developed systems operating separately from one another? Do you have data in numerous systems that are hard for your employees to access and use?
- ▶ Is your organization dependent on multiple incompatible architectures, including fragile legacy systems that are difficult to eliminate but cost prohibitive to maintain? Are you finding it challenging to integrate these legacy systems and move towards a Service-Oriented Architecture (SOA) and become a Service Aware Organization?
- ▶ Are you able to share information between internal lines of business and with external partners effectively and securely?
- ▶ Do your critical business processes contain inefficiencies or duplicated efforts resulting in overall cost increases? Are you able to monitor your processes to find the efficiencies?
- ▶ Are your enterprise-wide reporting processes primarily a manual effort requiring hours of data manipulation and resulting in inaccurate, out-of-date information that is not trusted to be “decision quality”?

Create strategic enterprise integration and increase your ROI

The Avanaide Enterprise Integration solution reduces costs by increasing the agility and flexibility of your business.

- ▶ Using your organization's existing infrastructure, eliminate redundant technologies, systems, and data, while providing a common system interface and standard processes across applications.
- ▶ Move your systems away from batch-oriented computing models to online, real-time solutions.
- ▶ Streamline your business processes, improve operational productivity, and reduce time to market by leveraging Event Driven Architecture (EDA) as well as management through exceptions. Build less and get more.
- ▶ Provide a real-time view of the flow of business information vital to your organization across many functional domains including ERP, CRM, EDI, and custom built solutions.
- ▶ Expand and enhance delivery channels and improve business processes by integrating partner data more securely.
- ▶ Simplify maintenance of your data systems by building on an extensible platform.
- ▶ Provide critical, role-based knowledge assets to employees at all levels of the organization.

Avanade Connected Architecture® for Business Process Integration™

Through extensive enterprise integration engagements, Avanade has developed a set of codified, pre-tested patterns around enterprise integration - the Avanade Connected Architecture® for Business Process Integration (ACA® BPI). Complementing and extending the robust and cost-effective Microsoft BizTalk Server platform, ACA BPI provides a foundation of best practices, common architecture services, and solution components to accelerate delivery, lower project risk, and reduce costs.

ACA BPI provides assets for enhanced messaging functionality that could otherwise require costly development efforts:

Message Reprocessing

Provides a combination of "best practices" documentation to avoid suspended business processes and a functional codebase of tools for resubmitting messages if they do become suspended. When an error occurs, the business process can be restarted from its current state with the ability to make data-level changes. This tool also gives users the ability to query suspended messages using a web application, make modifications if needed, and resubmit.

In-Order Messaging

When integrating enterprise applications, some messages are likely to pass through processing steps sooner than others, resulting in a different order of delivery to the remote applications. This asset guarantees delivery of messages in the order that they were submitted, maintaining referential integrity in the context of a particular business process.

Database Messaging Service

Offers a more robust and feature-rich architecture by providing the ability to publish events from any application database to BizTalk Server, as well as other services. This approach reduces BizTalk Server performance stress and enables existing application data models to participate in process orchestrations.

The power of business process integration

Using the powerful Business Process Integration (BPI) platform from Microsoft® to facilitate strategic enterprise integration, organizations can model, automate, and tune the execution of their business processes across application boundaries. Process-level integration focuses on the non-intrusive orchestration of common business actions regardless of hosting applications or data sources. Using SQL Server Integration Services, business data becomes accessible across platforms and, using features included in BizTalk Server, the monitoring of processes becomes near real-time. Organizations can easily apply flexible business rules with the ability to view and modify them at the information worker level.

Data, application, information, and process integration along with SOA and EDA leads to improved business intelligence, better custom application development by being a Service Aware Organization, and better information management and collaboration opportunities within and across organizations.

Built on the robust and flexible Microsoft® .NET Framework, BizTalk Server is a key component of Microsoft's BPI platform. It enables organizations to move towards the adoption of SOA and capitalize on the strength of Web services as part of their enterprise integration solution. BizTalk Server and the .NET framework enable organizations to integrate, automate, and monitor activities between Microsoft-based, J2EE, mainframe, ERP, CRM, and other commercial and custom applications.

Through our close relationship with Microsoft as a Service Provider Partner for BizTalk Server and member of both the Microsoft Partner Advisory Council and the BizTalk Developer Advisory Council, Avanade brings years of experience providing enterprise integration solutions using the Microsoft BPI platform. With this experience comes a deep understanding of the importance of reusable pre-coded, tested, and documented architectures and their role in helping enterprise customers adopt the .NET Framework and SOA in an effective and low risk manner. Avanade has developed a set of proven, enterprise-tested assets for BPI, providing a framework for quickly focusing on the business problems imperative to strategic enterprise integration.

Proven industry experience

The Avanade Enterprise Integration solution can be used in all industries including manufacturing, financial services, communications, retail, government, and more. Organizations implementing an enterprise integration solution need a strategic partner possessing not only deep technical skill, but also real-world business expertise. Our focus on Microsoft-based solutions, along with our technical and industry expertise, provides customers with an unmatched depth of skill on the robust Microsoft BPI platform to meet their unique and strategic enterprise integration needs.

About Avanade

Avanade is the leading technology integrator specializing in the Microsoft enterprise platform. Our people help customers around the world maximize their IT investment and create comprehensive solutions that drive business results. Additional information can be found at www.avanade.com.

To learn more about how Avanade can assist you, visit our website at www.avanade.com or call one of our major offices:

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