

12 Major Modernization Benefits of Integration and Automation

The Secret Ingredient To Modernization? Integration.

Trying to use complex or legacy IT systems to modernize digital experiences is a recipe for slow results and unmet demands. Integration is the secret sauce that helps organizations reduce complexity in their IT landscape so they can easily modernize across different lines of business.

Today, integration platforms aren't just helping connect systems. They're also lending a competitive advantage and delivering greater value for digital transformation initiatives, including those with AI. In this e-book, we'll explore how and why integration platforms work.

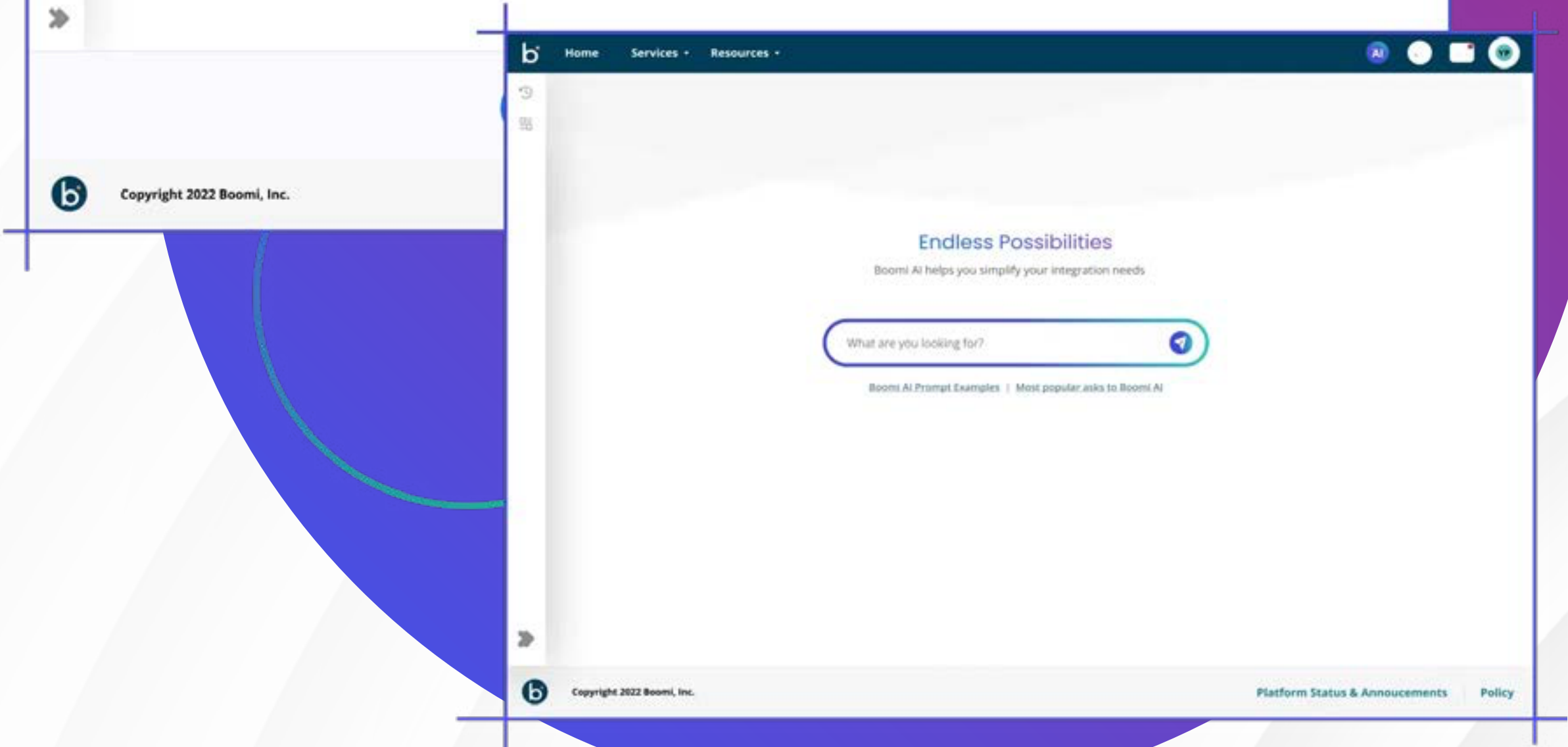
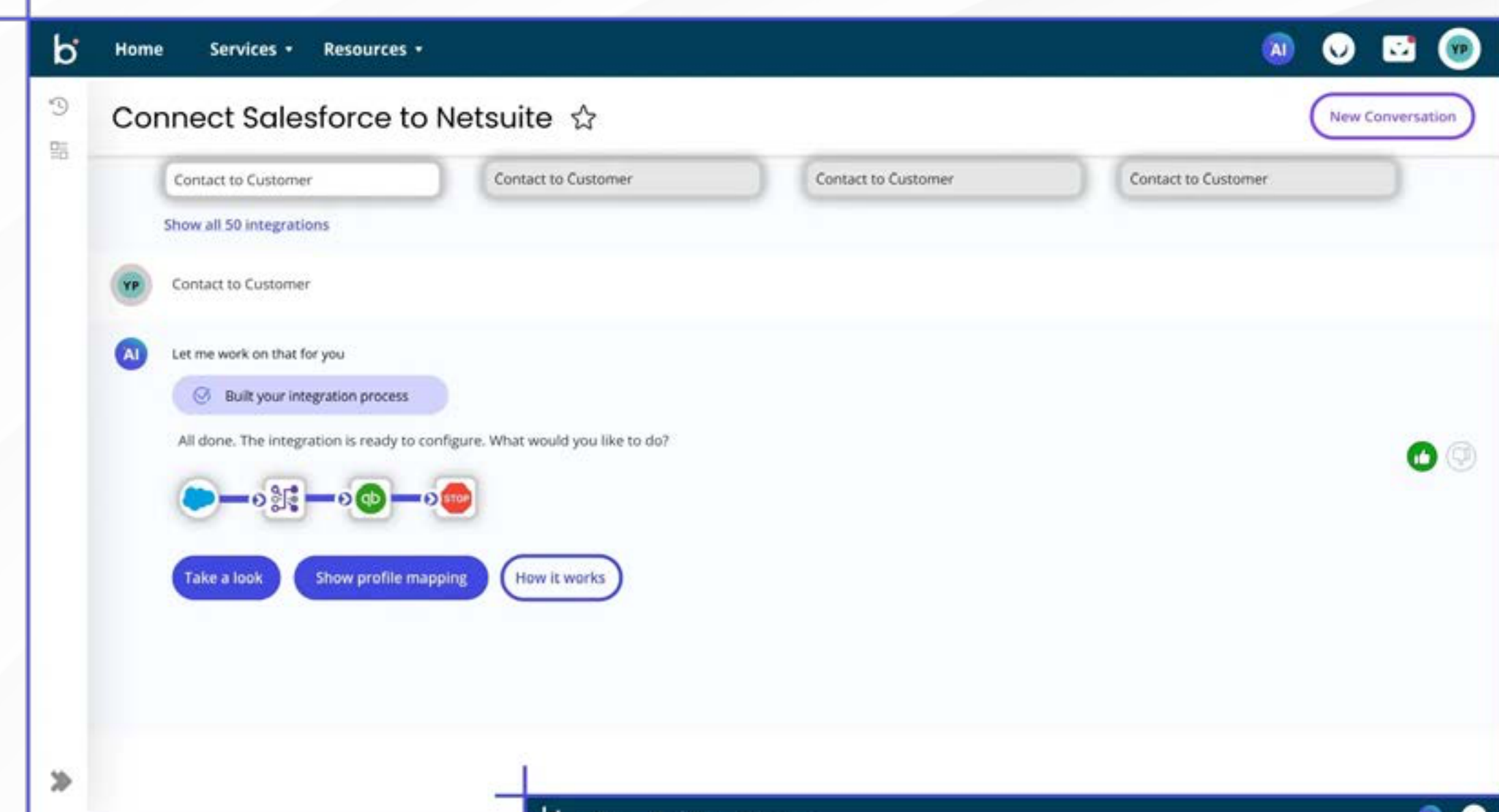


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01 Overcoming Obstacles to Modernization

We live in a tech landscape that's constantly evolving, with new advancements always coming along to shake things up. Think about the advent of web apps or the explosion of social media and their impact on organizations worldwide. Every major shift in the world of technology presents new opportunities to seize — and new challenges to overcome.

As each shift happens, tech platforms have adapted to meet fresh demands and tackle new obstacles. For example, integration-platform-as-a-service (iPaaS) initially emerged as a straightforward solution for integrating cloud-based systems, making it easier to connect applications to ensure that disparate endpoints could communicate seamlessly.

Eventually, some forward-thinking integration platforms went beyond cloud integrations, aiming to connect any system no matter where it's located. This evolution allowed iPaaS to cater to a growing range of customer needs, making it an essential tool for modernizing integration strategies in an increasingly distributed tech landscape.

By enabling seamless integration across diverse environments, iPaaS today helps organizations modernize their IT infrastructure, ensuring that both legacy and modern applications can coexist and function efficiently. These advancements have made iPaaS a pivotal tool for overcoming the obstacles to modernization driving digital transformation across industries.

With the latest breakthroughs in AI and the proliferation of apps, iPaaS is once again helping organizations overcome challenges to modernize with incredible speed, agility, and confidence.

iPaaS is a suite of cloud services that enable the development, execution, and governance of integration flows connecting any combination of on-premises and cloud-based processes, services, and applications.

iPaaS facilitates the connection of front-end applications to back-end systems, transforming and moving data seamlessly between them.

iPaaS creates a distributed network that can transform and move data between cloud-based applications and on-premises systems.

02 What Is Low-Code iPaaS?

As leadership changes and market conditions evolve, new business requirements emerge, putting fresh demands on IT teams. For example, a report that wasn't necessary three years ago might now become critical. Plus, with the capability to build AI-powered apps suddenly on the table, leaders are exploring ways to add value and gain greater efficiency using AI in their operations.

However, creating apps or updating existing ones with the latest tech capabilities can often take a backseat to other priorities. As developer teams struggle to manage an increasing workload, many application projects get left in a backlog, where they'll wait until someone has the time to address them.

The tension between line of business teams and IT departments can be a significant hurdle for organizations looking to develop meaningful applications quickly. When IT departments are heavily backlogged—constrained by limited skills or time—their ability to create necessary integrations is hindered.

This bottleneck hurts the organization's ability to respond to business needs promptly. In this context, low-code iPaaS emerges as a crucial advancement, bridging the gap between business requirements and IT capabilities.

Low-code iPaaS allows “citizen developers”—non-technical users within the organization—to create integrations themselves. This lets them address projects that would otherwise collect dust in an IT backlog.

Regardless of whether or not an organization has a dedicated team of developers, low-code iPaaS is a gamechanger. Whether creating APIs for monetization, internal consumption, or standard integrations between back-end and front-end systems, low-code iPaaS is a primary development tool that makes developing front-office and back-office applications easier and faster.

What is low-code iPaaS?

Low-code iPaaS supplements traditional development methods, enabling citizen developers to build their integrations and also speeding up the development process.

Organizations that lack iPaaS often rely on traditional code-based development, which isn't always able to keep pace with the need for rapid change and adaptation.

03 12 Benefits of Low-Code iPaaS

At its core, iPaaS simplifies the technical complexity of coding integrations, enabling quick and easy structuring of application-based integrations while offering the flexibility to add custom code when necessary. However, the advantages extend far beyond this. Below, we explore the extensive benefits of using low-code iPaaS for building fast integrations and how they help organizations modernize and add efficiency and value to their operations.

Accelerate time to deployment

Integrations ordinarily taking weeks or months to code can now potentially take just hours, significantly speeding up project timelines. This rapid deployment allows businesses to quickly respond to market changes and customer needs, enhancing agility and competitiveness.

Reduce pressure on IT teams

Automating and simplifying routine tasks through an intuitive user interface frees up IT resources, allowing them to focus on more creative and high-value projects. This reduction in routine workload enhances overall productivity and accelerates project delivery.

Ensure data reliability and high uptime

Service level agreements (SLAs) typically outline uptime requirements and offer various service and support packages, ensuring data reliability and high availability. This reliability is crucial for maintaining continuous business operations and customer satisfaction.

Remove bottlenecks

Integration work no longer needs to be a bottleneck for critical business initiatives. With low-code iPaaS, integration becomes a competitive advantage, enabling individual developers to achieve measurable organizational impact by reducing the time needed for integration tasks.

Decrease reliance on coding talent

Low-code iPaaS lowers barriers to productivity by allowing business analysts to contribute to project development. This shift keeps specialized coding talent focused on complex IT projects rather than being overwhelmed by a backlog of simpler requests, optimizing resource allocation and efficiency.

Bolster security

iPaaS offers centralized and easily maintainable security features, including fraud detection, threat management, access control, data encryption, and single sign-on integration. This comprehensive security framework ensures data protection and regulatory compliance, building trust with customers and stakeholders.

12 Benefits of Low-Code iPaaS

Enhance flexibility in deployment

Modifications to an integration project can be easily made midstream without rewriting hundreds of lines of code. This flexibility enables organizations to adapt to evolving requirements and ensure their systems remain relevant and effective.

Simplify maintenance

Maintaining iPaaS projects is typically a configuration-based, wizard-driven effort, eliminating the need to manage extensive lines of code. This ease of maintenance reduces downtime and troubleshooting time, ensuring smoother and more reliable operations.

Use out-of-the-box support

Most iPaaS solutions provide out-of-the-box support for commonly used protocols such as HTTP, SFTP, Open Data, and Message Queuing, along with the ability to process and manipulate data in formats like JSON and XML. This support simplifies integration processes and enhances compatibility with existing systems.

Democratize application development

Low-code iPaaS empowers business users, or citizen developers, to participate in the app development process. By involving the line of business in the design and allowing IT to be implemented as needed, organizations can bridge the gap between business and technology, fostering innovation and reducing dependency on specialized IT resources.

Enable seamless online organization and collaboration

A unified iPaaS lets teams collaborate more effectively, reducing the risk of miscommunication and improving project outcomes. Using a cloud-based, browser-accessible interface facilitates real-time collaboration, asset sharing, and workflow management, driving project success.

Get a head start on future projects

Low-code iPaaS allows for a composable architecture where reusable building blocks accelerate development. By creating and managing APIs, organizations can build a library of reusable components, quickly decompose and recompose apps, and swap out unstable elements for more reliable ones, ensuring robustness and flexibility in their solutions.

04 Modernize With Ease: iPaaS Implementation Simplified

For most teams, adopting a new platform comes with a learning curve. If your organization contemplates using a low-code iPaaS to reduce your app backlog and accelerate development, remember that becoming proficient won't happen overnight.

Recognized for the 10th time as a **Leader in the Gartner® Magic Quadrant™** for iPaaS, Boomi provides the tools and guidance needed to adopt low-code iPaaS quickly and effectively.¹ With features like click, configure, drag-and-drop, and safety guardrails, Boomi simplifies the learning process so users can acclimate to their new platform with speed and confidence.

Additionally, Boomi leverages AI to help the developer community learn coding faster using natural language and offers the ability to document processes in plain language, making integrations understandable for all business lines. While there is no magic bullet in-app or service development, Boomi ensures that users reach a comfortable, competent level quickly.

¹Gartner®, Magic Quadrant for Integration Platform as a Service, 19 February 2024, Keith Guttridge, Andrew Comes, Shrey Pasricha, Max van den Berk, Andrew Humphreys. GARTNER is a registered trademark and service mark of Gartner and Magic Quadrant is a registered trademark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and are used herein with permission. All rights reserved. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. The graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Boomi.



Boomi Goes Beyond Integration and Automation

For organizations looking to leverage AI, considering iPaaS is crucial for integrating the systems that will become the backbone of AI-driven processes. Boomi goes beyond integration and automation to enable an orchestration layer. This layer allows for the development of robust pipelines that enable users to augment their workflows with AI efficiently.

This orchestration is crucial for applications like chatbots and multi-agent interactions, where precise data handling is imperative. By automating data flows and processes, Boomi ensures that AI applications operate optimally, driving innovation and operational efficiency.

Find out why organizations across industries choose Boomi as their low-code iPaaS provider.

[Why Boomi?](#)

“Boomi checked all of our boxes with its features and components. We can build a service quickly with Boomi, **2X faster** than before.”

Bhishma Jani, Vice President of Information Systems, *Riverbed Technology*

Learn how organizations of all sizes, across all industries and geographies, use Boomi to modernize their systems and orchestrate their data for greater efficiency.

[Read our customer success stories](#)



ABOUT BOOMI

Boomi, the intelligent integration and automation leader, helps organizations around the world automate and streamline critical processes to achieve business outcomes faster. Harnessing advanced AI capabilities, the Boomi Enterprise Platform seamlessly connects systems and manages data flows with API management, integration, data management, and AI orchestration in one comprehensive solution. With a customer base exceeding 20,000 companies globally and a rapidly expanding network of 800+ partners, Boomi is revolutionizing the way enterprises of all sizes achieve business agility and operational excellence.

[Discover more at boomi.com.](https://www.boomi.com)

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