



7 Warning Signs You Need to Replace Your ESB

Responding to Today's Integration Challenges

Applications and their data are the lifeblood of modern business operations. Companies must be able to quickly and easily provide access to information whenever and wherever their employees, partners and customers require.

But the rise of new technologies, including cloud, mobile, social, big data, and the Internet of Things (IoT), is creating all new complexities for how organizations need to integrate their applications. Today's businesses must be able to support an unprecedented and growing volume and variety of connections to keep pace with the evolution of digital business.

Organizations which have invested in enterprise service bus (ESB) technologies must now take a hard look at these legacy middleware systems and assess whether they are capable of effectively addressing these new integration challenges.

This e-book will help you identify the critical limitations of your ESBs to support the evolving integration requirements of your applications and data. This guide also offers insights for how businesses can evolve their integration infrastructures to respond to today's digital opportunities and challenges.



Have You Seen a Warning Sign?

The following is a list of warning signs that your ESB is struggling to keep up with modern integration requirements. One or more of these signs indicates that your ESB will likely not be able to effectively and efficiently support the long-term needs of your hybrid IT environment.

Warning Signs:

1. Integration requests from the business are overwhelming your staff
2. You are struggling to support your organization's IT modernization initiatives
3. You spend too much time managing ESB deployments
4. You spend too much time and resources maintaining your ESBs
5. You spend more money on servers and software than on modernizing your infrastructure
6. Upgrading your ESB keeps you awake at night
7. You are struggling to support your global operations

Warning Sign #1

Integration requests from the business are overwhelming your staff

- ESBs require significant staff time to ensure that any new integrations won't negatively affect existing integrations
- You have limited staff to carry out all the integration work because ESBs require experienced, specialized engineers
- As a result, Shadow IT is developing in your organization as business leaders find other ways to more quickly serve their integration needs

How to Address

Freed from hard coding or proprietary systems that only experienced specialists can master, a modern browser-based development environment makes it possible for teams working from any location to connect applications in hours and days rather than weeks or months. And with a configuration-based development process, integration work isn't limited to specialists.



Warning Sign #2

You are struggling to support your company's IT modernization initiatives

- Cloud, mobile, social, big data, IoT and other next generation technologies are creating integration requirements that ESBs were not designed to address
- ESBs are struggling to evolve fast enough to support the rapidly expanding diversity of applications that businesses need to connect to and support
- And ESB's highly specialized and complicated development environments make it difficult for organizations to quickly and easily deploy new integrations

How to Address

A modern integration platform as a service (iPaaS) equipped with an intuitive low-code development environment brings unprecedented implementation speed to your business, shortening projects that took months or years down to days or even hours. And as a native-cloud platform, iPaaS inherently provides rich support for SaaS applications and other cloud-based technologies while equally supporting your existing on-premise systems.



Warning Sign #3

You spend too much time managing ESB deployments

- ESBs are very large pieces of software that are laborious and time-consuming to install
- ESB installation requires coordinating with multiple specialists to support the server, storage, and networking needs for the ESB
- Each ESB requires a separate development, testing and production environment; additional redundant, global locations further multiplies the number of environments you need to manage

How to Address

A modern cloud-based integration platform eliminates the need for any on-premise equipment to support SaaS applications and only requires installation of a lightweight run-time engine for on-premise applications. iPaaS completely eliminates the need to create and maintain multiple instances to support distributed operations.



Warning Sign #4

You spend too much time and resources maintaining your ESBs

- To run your ESBs, you must also maintain the software as well as all the data center infrastructure to host the middleware systems
- ESBs also often require specialized staff and system integrators that are costly and hard to find
- And ESBs are particular expensive to maintain across a global operation because redundant staff and infrastructure resources are required in each additional site

How to Address

With iPaaS there is almost no software or hardware to maintain (only a lightweight run-time engine for managing on-premise connections). And the centralized “single pane of glass” view across your interconnected applications and data makes it simple for your staff to monitor and maintain integrations.



Warning Sign #5

You spend more money on servers and software than on modernizing your infrastructure

- Each ESB requires its own capital investments in hardware, software, storage and networking resources
- Budgets are squeezed when paying upfront capital costs for software and hardware
- ESBs licenses are based on processing power, which further adds to your costs when you upgrade hardware
- And additional, redundant ESBs for supporting global operations also need their own hardware and support from specialized staff

How to Address

Rather than installing and maintaining on-premise systems, modern iPaaS platforms relieve IT teams of this burden with a hosted service model. The platform runs from the cloud, allowing your staff to focus on connecting your applications rather than on maintaining data center infrastructure.



Warning Sign #6

Upgrading your ESB keeps you awake at night

- It can take millions of dollars and months or years to upgrade an ESB
- ESB connections are very difficult to map and manage
- IT departments often have to hire expensive consultants and system integration experts to help with ESB upgrades
- ESBs are often so complicated it is easy to introduce bugs or other inadvertent changes that could disrupt service

How to Address

By moving to a single-instance, multi-tenant iPaaS, upgrades to the integration platform are managed and guaranteed by the vendor. And with thousands of customers using the same platform, regression testing is incredibly comprehensive, making it easy for the vendor to quickly identify and fix bugs or other issues long before any updates reach production environments.



Warning Sign #7

You are struggling to support your global operations

- Organizations need to deploy multiple, redundant ESB instances to support global locations and meet local compliance, security or other requirements
- Such redundant ESBs also require duplicate development and test environments and tools
- While integration teams can use remote access tools, the performance of these tools can greatly limit the ability of engineers to manage ESBs on other continents

How to Address

An iPaaS runs a single-instance platform and development environment that provides full control and visibility across global operations to ensure the right access, at the right time, for the right roles. And with a common view of all applications, data, and their workflows, it is easy for teams to share information and collaborate on development efforts.



Moving to a New Era for Application Integration

The variety and volume of integration demands are increasing rapidly as organizations move to cloud-based services, platforms and infrastructures. New SaaS, mobile, social, big data and IoT applications—coupled with the needs of existing legacy on-premise software—are rewriting the rules of how integrations must happen in modern business.

While ESBs still have their place in hybrid IT environments, they were not meant to support the new kinds of applications, data and digital services that are rapidly reshaping how employees, partners, and customers interact.

To bridge this gap, organizations can tap iPaaS to provide rapid, anytime, anywhere integration capabilities free of the burdens and complexities common with on-premise ESBs and other legacy middleware.

To find out more about how iPaaS can help your organization meet today's new integration requirements, please contact our experts at Dell Boomi: boomi.com/company/contact/

