Jitterbit

AS/400 & DB2 Modernization with Jitterbit

Modernize your legacy IBM environment with low-code apps, API integrations and AI agents.

Introduced in 1988, AS/400 remains widely used today because of its strict access controls, legendary stability and unmatched upward compatibility.

But nearly four decades on, businesses wanting modern outcomes while still relying on AS/400 are faced with the growing expense of doing so. The shrinking pool of Report Program Generator (RPG) developers already commands top dollar — but migrating away from AS/400 entirely in favor of a modern ERP system can cost millions.

There is a way to securely bring legacy systems into today's workflows and environments — one that offers a modern interface, vastly simpler controls, the freedom to access AS/400 with AI agents and more.

Modernizing Legacy AS/400 Green Screens Into High-Impact APIs & Apps

Your relationship with your data depends on accessibility, speed and intelligence. While your IBM i or AS/400 and DB2 databases provide a rock-solid foundation, legacy "green screen" interfaces and closed architectures can create severe operational bottlenecks.

But modernizing your AS/400 and DB2 environment by exposing legacy logic via APIs allows for the seamless, real-time creation of modern interfaces and AI-driven workflows. By layering modern tools on top of your DB2 database, you can bridge the gap between your trusted legacy core and the latest in web, mobile and AI technology — without the risk of a "rip and replace" migration.

The Modernization Impact

Integrating your legacy core with modern low-code and iPaaS platforms offers immediate opportunities to enhance business operations across your organization.

- **Build Apps in Weeks, Not Months:** Deploy sleek, mobile-ready applications that read/write directly to DB2. Create high-performance UIs without writing a single line of RPG.
- **Deploy Autonomous AI Agents:** Turn static data into proactive insights. Use AI agents to monitor inventory levels in DB2 and automatically trigger reorders or notify sales teams.
- **Bridge the Talent Gap:** Empower your next generation of developers to manage legacy data using modern low-code tools they already understand. Or, with App Builder AI Assistant, create a new app on top of your existing data source and let the Assistant build default pages based on the schema it discovers. You can then modify using AI as needed.
- **Get Real-Time Data Visibility:** Sync your DB2 tables with modern CRMs and ERPs in real time using iPaaS to ensure one centralized version of the truth. Or expose them as REST APIs via Jitterbit API Manager.
- **Ensure Security & Scalability:** Maintain the rock-solid security of the AS/400 system of record while leveraging the scalability of the cloud. App Builder features RBAC and Record-Level Security, which can pair well sitting atop AS/400. This eliminates the need for a modern user-based authentication tied to the AS/400 system in order to ensure data complies with Least Privilege Access security best practice.

The Modernization Ecosystem

Connect your legacy core with the modern AI ecosystem seamlessly:

Jitterbit App Builder (Rapidly Build Modern UIs on DB2): Create professional-grade web and mobile apps that integrate deeply with your IBM i environment to eliminate data entry errors and green screen fatigue.

Jitterbit Harmony (Connect and Automate with AI): Leverage a unified iPaaS platform to connect your legacy stack to the cloud via seamless APIs, and deploy autonomous AI agents.

For example, even with the most state-of-the-art EDI solution, the EDI - AS/400 integration can be hard to maintain via RPG. Harmony solves this by integrating in a way that's easily managed and scaled.

How it Works

Here's just one example of how the Jitterbit Harmony can allow you to leverage existing AS/400 deployment in modern workflows:

***The Request (Top Layer)*:** A store associate checks inventory on a mobile iPad app (built with App Builder), or an AI agent in Salesforce requests an order status (via Harmony).

***The Translation (Middle Layer)*:** The Jitterbit platform receives the request in modern web languages (JSON/REST). It instantly translates this request, applies your specific security protocols, and routes it to the legacy system.

***The Execution (Bottom Layer)*:** The request securely queries the DB2 database or triggers a native RPG program. The AS/400 calculates the result and sends it back up the chain, delivering a real-time answer to the modern user in milliseconds — without them ever seeing a green screen.

Frequently Asked Questions

Do I need to migrate my data off the AS400?
No. This architecture allows you to keep your data securely in DB2 while layering modern applications and AI on top, giving you the benefits of the cloud without the migration risk.

Does this require RPG programming knowledge?
No. Your team can build modern solutions using standard web skills and low-code interfaces, drastically reducing the need for specialized RPG resources.

How does AI interact with my DB2 data?
AI agents can be trained to "read" your DB2 schemas and business logic, allowing users to ask questions in natural language. Receive an instant answer to questions like "Show me our top 10 overdue invoices," or set your agents to task with requests like "Expose DB2 APIs via APIM, then wrap them in an MCP server so that AI agents or end users can securely access them with Claude Desktop."

Ready to learn more about how a tailored AS/400 modernization project can deliver a simpler way to access data? Contact us today.

Jitterbit accelerates data transformation by unifying accountable AI agents, apps, and automation on the industry's only AI-infused platform. Learn more at www.jitterbit.com and follow us on LinkedIn.