


Empower Extensibility **Across Your Tech Stack**

Build Reliable, Reusable
Connections With ActiveBatch's
Super REST API Adapter



Organizations are rolling out new digital services, applications, and initiatives in order to stay ahead of market demands, with digital transformation now a top priority for 70% of organizations, [IDC found](#). Thirty percent of those organizations will use new digital tools to transform their business models.

As digital transformation initiatives accelerate, the number of disparate tools and technologies required for business continues to grow. This is placing additional strain on IT teams that are already stretched thin trying to maintain the status quo.

According to research by MuleSoft, organizations rely on an average of 10 to 12 large platforms for daily operations. [Forbes reports](#) that the average enterprise uses over 1,000 cloud-based applications.

In order to stay ahead of trends and competition, IT teams must manage data across these disparate endpoints and tools, often in real-time. The margin for error is razor thin — any issue with a digital service or application will cause an immediate problem for business.

IT departments often rely on direct integrations and custom scripts in order to connect endpoints that support digital services. But direct connections rarely cover an entire stack, while custom scripts are time-consuming and error-prone, slowing down the delivery of reliable services.

IT environments are continuing to grow, becoming more diverse and distributed. But 56% of IT teams cannot complete the projects they commit to because too much of their time and resources are spent just keeping the lights on, according to a [report from Dynatrace](#).



The Role Of APIs In Modern IT

In order to improve their ability to connect quickly with an ever-growing number of systems, IT teams are turning to APIs. APIs enable IT to rapidly integrate new tools into existing environments, connecting services and systems on-premises and in the cloud.

For many organizations, API connectivity has become a key component of their long-term strategy, helping streamline the development of new processes and services. 60% of IT leaders surveyed by [MuleSoft reported](#) that API integrations were “critical to their digital transformation.”

APIs abstract away complex code, making it possible to build connections between endpoints without having to write custom code. This in turn makes APIs easier to maintain when compared to custom scripts, with more flexibility than is usually provided through direct integrations.

But APIs bring their own challenges. The top three challenges, according to [Gartner](#), are skills, standards, and security. API development can have a steep learning curve, often complicated by lax documentation and visibility, which can leave organizations vulnerable to manual errors and unauthorized access.

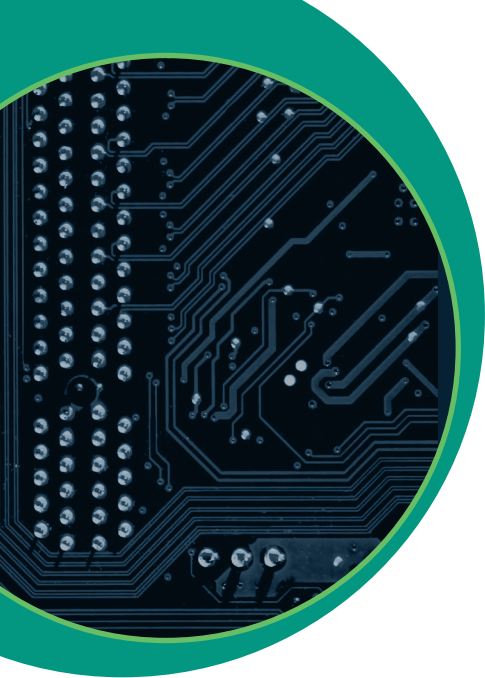
Without a cohesive API strategy, APIs can add to IT complexity, becoming lost or forgotten until something breaks. Taking a piecemeal approach to APIs leads to more work as API calls are built from scratch and independently maintained.



Transform IT With Seamless Extensibility

Most IT departments already have automation tools, using them to develop and manage cross-platform processes. But what if those automation tools went a step further and supported APIs creation?

An automation platform that makes it faster and easier to create APIs can enable IT teams to rapidly integrate new tools and technologies. Developers can build reusable APIs, making it possible to quickly and reliably deliver new services.



The right automation platform can also help drive API-led connectivity. With an easy-to-use interface and built-in helpers to streamline the creation process, API adapters reduce barriers to entry, enabling developers of any skill level to build connectors for any tool with a REST API.

This in turn reduces the time and resources required to integrate new technologies, reducing costs and helping IT teams to complete more projects in less time.

Additionally, by building API jobs within a centralized automation platform, IT teams can develop, deploy, monitor, and manage API processes from a single pane-of-glass, drastically reducing IT complexity and increasing efficiency.

ActiveBatch's Super REST API Adapter

ActiveBatch's Super REST API Adapter is an enhanced feature that enables your team to rapidly build API connections to any server, application or service. New tools and technologies can be seamlessly integrated, allowing services and solutions to be quickly rolled out. APIs and associated processes can be developed and maintained in a single window, facilitating end-to-end visibility.

The Super REST API Adapter, available for ActiveBatch V12, SP5, is intuitive and easy-to-use, allowing developers and other IT resources to build API calls to any endpoint. This means less time spent integrating new tools, which minimizes development costs and reduces the strain on IT. The Super REST API Adapter also includes:

- The new UI supports a variety of authentication and content types with custom options for endless integrations.
- Tool tips, error flags, and dynamic pick-lists that explain functionalities, notify users of potential errors, and provide variables based on content selection.
- The ability to test all API operations within the REST API adapter. It delivers an immediate response without having to wait for tests to run through the scheduler.

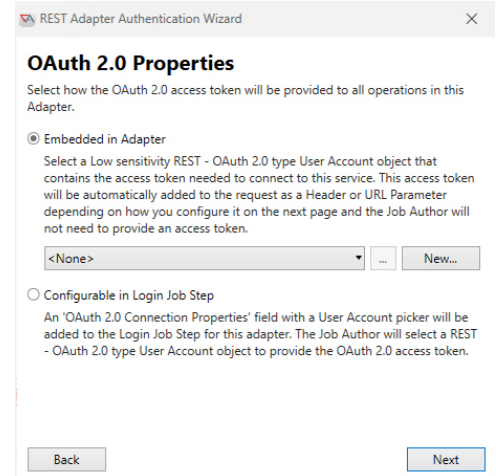
Let's take a closer look at what your team can do with ActiveBatch's Super REST API Adapter.

Super REST API Adapter Overview

ActiveBatch's Super REST API Adapter adds new capabilities and features to help your team develop APIs faster than ever.

Authentication Wizard

The Authentication Wizard guides users through the authentication process for REST services. Built-in authentication options include OAuth 2.0, Basic, and NTLM, or you can set up your own custom login. The Super REST API Adapter supports multiple grant types for OAuth and can generate access and refresh tokens.

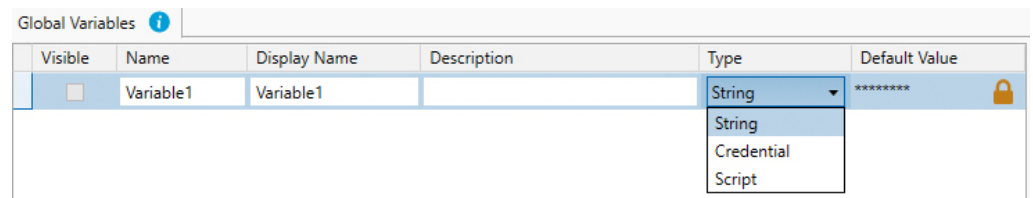




The screenshot shows the 'REST Adapter Authentication Wizard' dialog box. The 'OAuth 2.0 Properties' section is active, with the instruction: 'Select how the OAuth 2.0 access token will be provided to all operations in this Adapter.' There are two radio button options: 'Embedded in Adapter' (selected) and 'Configurable in Login Job Step'. The 'Embedded in Adapter' option has a text box with '<None>' and a 'New...' button. The 'Configurable in Login Job Step' option has a text box with instructions. At the bottom are 'Back' and 'Next' buttons.

The Authentication Wizard helps prevent unauthorized access to critical data and processes, while making it easy for any user to build REST API adapters. In case your organization needs to change authentication standards, your team can use the wizard to apply the new authentication to all future workflows.

Proactive UI


Our Super REST API Adapter is designed to simplify the creation of REST APIs so your team can build reliable, efficient, cross-platform processes. To help simplify API development, the Super REST API adapter includes helpers that explain functionality, identify errors, and enable you to quickly select variables and properties. This makes it possible for developers of any skill level to build reusable API jobs without having to look through documentation.



Global Variables 						
Visible	Name	Display Name	Description	Type	Default Value	
<input type="checkbox"/>	Variable1	Variable1		String	*****	
				String		
				Credential		
				Script		

Variables

Users can include both global and local variables, with descriptions that identify and summarize the function of each variable. When building an API call, users can choose variables from drop-down lists that include related and recently used variables. Variable values can also be hidden, providing additional security for sensitive information.



Variables		Params		Headers		Body		Response	
Name						Value			
Cache-Control									
						max-age= <seconds> max-stale[= <seconds>] min-fresh= <seconds> no-cache no-store no-transform only-if-cached			

Headers

Headers in the Super REST API Adapter can be selected from a drop-down list, with corresponding values that can be picked from the drop-down list for variables.

Body

The Super REST API Adapter features a content-sensitive script editor with support for a variety of content types, including URL, Encoded, Binary, and Form-Data. JSON, XML, and Raw are also supported. The adapter also includes editors for each content type. JSON and XML editors provide validation and highlight syntax, while editors for other content types contain key-value pair editors, for example.

Variables		Params		Headers		Body		Response	
						Content Type: JSON			
						None JSON XML URL Encoded Binary Raw Form-data			

Variables		Params		Headers		Body		Response	
						Response Type: JSON		Import...	
						Use the import button to import a sample response. This object will be available as the Response object of the Job Step return value. In the grid below, the Mapping field is the actual name of the property that is exported from the API. The Display Name field is what will appear in the Response object in the Job Step return value and how other Job Steps can access the value of that property.			
						File Download None			
						Mapping		Display Name	

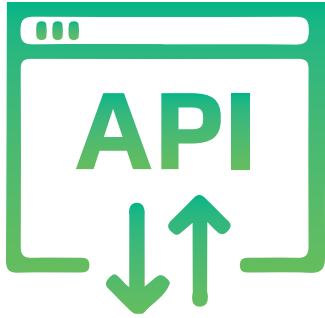
Responses

New features for responses include drop-down lists with a variety of response types to choose from. The Super REST API Adapter has built-in support for file downloads, enabling your team to specify output paths and overwrite permissions. Responses can also be imported from tests without having to copy-paste, with editable display names that make it easier to keep track of return objects.

API Testing

Any operation can be tested within the Super REST API Adapter, providing your team with status codes and responses so you can quickly address issues, without waiting for job loads to complete.

Tests can include login operations and set authentication properties. Users can also include variables and credential types. Responses include status codes, verbs and endpoints, and can be easily imported.



Infinite Extensibility, Endless Use Cases

ActiveBatch allows you to orchestrate and manage any process by providing a unified automation platform that supports multiple types of APIs, including REST, .Net assemblies, command lines, and WSDLs such as RESTful and SOAP.

ActiveBatch provides direct integrations with dozens of major vendors including Microsoft, Amazon, Oracle, and Informatica, with hundreds of prebuilt Job Steps and universal connectors. APIs developed with ActiveBatch's Super REST API adapter can be seamlessly integrated into end-to-end processes. Those processes can then be monitored and managed from a single pane of glass with powerful real-time monitoring, reporting, and alerting tools.

APIs make it possible to connect to virtually any endpoint, so that your team can quickly roll out new services without bringing in additional resources. With ActiveBatch, your team gets the tools and capabilities needed to expand your automation as your organization grows.



Want to learn more about the new Super REST API Adapter?

Join ASCI's Mehul Amin, VP of Product and Engineering, and Chris Loeschorn, Director of Engineering, as they conduct a comprehensive demo and Q&A. See how this new tool dramatically simplifies the authentication and creation of extensions and connectors into third-party services and applications.

[Watch the Webinar](#)