SAP Ariba /\\/\\

Feature at a Glance
Custom forms calling external APIs on SAP Ariba developer portal

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SAP **Run Simple**

Feature at a Glance

Introducing: **Custom forms calling external APIs on SAP Ariba developer portal**

Customer challenge

Our current functionality does not allow for external validation within custom forms. Secondly custom forms cannot send/receive data to/from external systems real-time. These limitations were causing unnecessary delays to customers.

Meet that challenge with
SAP Ariba

Customers can configure custom forms to call external APIs to populate data into form documents and enhance form capabilities. These APIs are your own RESTful APIs that call your internal systems.

This feature gives the customers ability to select your APIs setup on SAP developer portal from Forms builder and also provides an easy mapping of form fields to API response fields (and vice-versa). Customers can configure the API end point for each event from Forms Designer.

API triggers can be setup on the following events: Form Load, Form Submit, Post Form, Approval Completion and certain Widget Data Changes.

Experience key benefits

With this feature, you are able to bring in external data outside of Ariba applications onto a custom form real-time. This functionality can be achieved by triggering external processes directly from within custom forms. You can address flow automation and custom validations using your own APIs. This is an incredibly powerful feature to enhance your form capabilities. Some examples:
- Populate supplier data from external API into the New Supplier Request Form.
- Validate data on custom form by triggering an API call to perform lookups in external applications and enrich form data.

Solution area

This feature is available in:
SAP Ariba Buying and Invoicing
SAP Ariba Buying
SAP Ariba Invoice Management
SAP Ariba Contract Invoicing
SAP Ariba Catalog

Implementation information

This feature is enabled for all customers with the applicable solutions and is ready for immediate use.

Prerequisites and Limitations

Prerequisites: You must be registered to use the SAP Ariba developer portal. Your own APIs must be registered on the "My APIs" tab on the SAP Ariba developer portal. You must be a member of the Custom Form Designer group and Custom Form Administrator group.
Limitations: These APIs must use the REST protocol. They may not duplicate the functionality of an SAP Ariba API in any way. SAP Ariba recommends against the exchange of personal data using the external APIs. If such information is passed or received using external API calls, the customer takes full responsibility for that data. SAP Ariba recommends mapping one API per form document.

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API Triggers: On Form Load, On Form Submit, Post Form Submit

You can invoke an external API call on form load, on form submit and post form submit. Move cursor over general form area to see the available API triggers and select "Add API". Screenshot below shows a sample custom form used for new supplier requests.
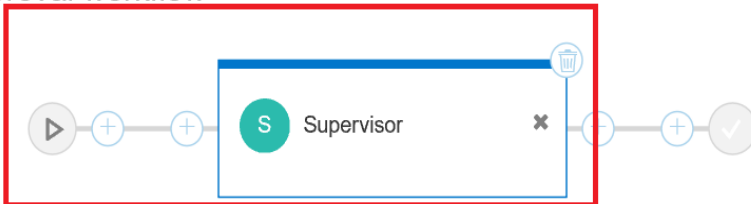
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API Triggers: On Approval Completion

Custom forms can be designed to call an external API call on approval completion.

Legal Name

Global Location Number

Regional Tax ID

Approval workflow

▷ ⊕ ⊕ S Supervisor ✖ 🗑 ⊕ ⊕ ✓

API triggers
You can add powerful APIs to enhance forms capability. You can address flow automation and custom validations using your own APIs. These API should be registered on open API portal by developers.

On approval completion
This event is triggered when form is fully approved. You can use this event to trigger workflow related APIs. You cannot validate or update the form data using this event.

The Supervisor is automatically updated with the requestor's supervisor.

➕ Add condition

Advanced settings   —

API triggers ⓘ

On approval completion   Add API

Need a new API?

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API Triggers: On Widget Data Change

Calling an external API on widget data change is only available for the Input field and Dropdown widgets on custom forms. Screenshot shows the Supplier number field configured to call "Get Company details" external API (which returns company information based on the supplier number entered).

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How to configure the external API call: Map to API

Choose form fields from the list to map to corresponding API response fields. Screenshot shows Supplier number form field mapped to the companyId API field.

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How to configure the external API call: Map From API

Optionally you may choose to map API response fields to the corresponding form fields.

Configure API

	① Map to API	② **Map from API (optional)**

Trigger: On widget data change | API group: Supplier APIs | API Name: Get Company details.

Get Company details. API fields	To	Supplier On-board Lookup form fields
yearFounded *String*	→	Year Funded *String*
legalStatus *String*	→	Legal Status *String*
companyId *String*	→	company Id *String*
netIncome *Number*	→	Net Income - value *Number*
fein *String*	→	Federal Employer Identification Num… *String*
name *String*	→	Company Name *String*

+ Add new

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1. Screenshot (on the left) shows supplier number entered on a published and activated custom form.

2. Screenshot (on the right) shows supplier details returned for the supplier – 002146177

[Get Company Details external API was invoked when 002146177 was entered in Supplier Number form field.]

Supplier Information

1

BEFORE

Supplier number *	002146177
Company Name	
Federal Employer Identification Number	
company Id	

Supplier Information

2

AFTER

Supplier number *	002146177
Company Name	Herge Oil Supplier
Federal Employer Identification Number	770019522
company Id	02523062872421