SAP Ariba /

Smart Integration and Business Process Extensions with APIs for SAP Ariba Solutions - ASUG8293

Arundhati Kumar Solution Manager – Extensibility & Configurability

May 2019

PUBLIC



"SAP Ariba is adopting an API First! Strategy for Customers and Partners to easily extend the SAP Ariba Solutions."

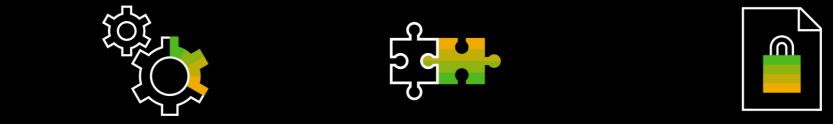
- Darren Koch, SAP Ariba Chief Product Officer

Legal disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. This presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP's strategy and possible future developments, products, and platforms, directions, and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. This document is provided without a warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, or noninfringement. This document is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP's willful misconduct or gross negligence.

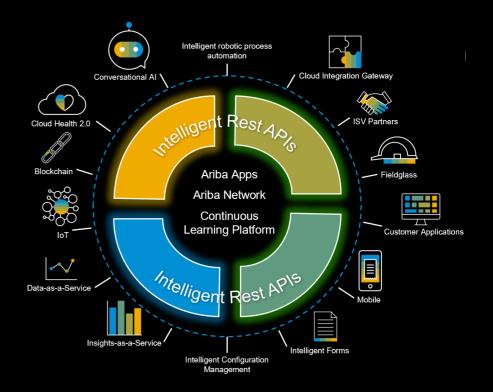
All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

SAP Ariba APIs



Simple Scalable Secure

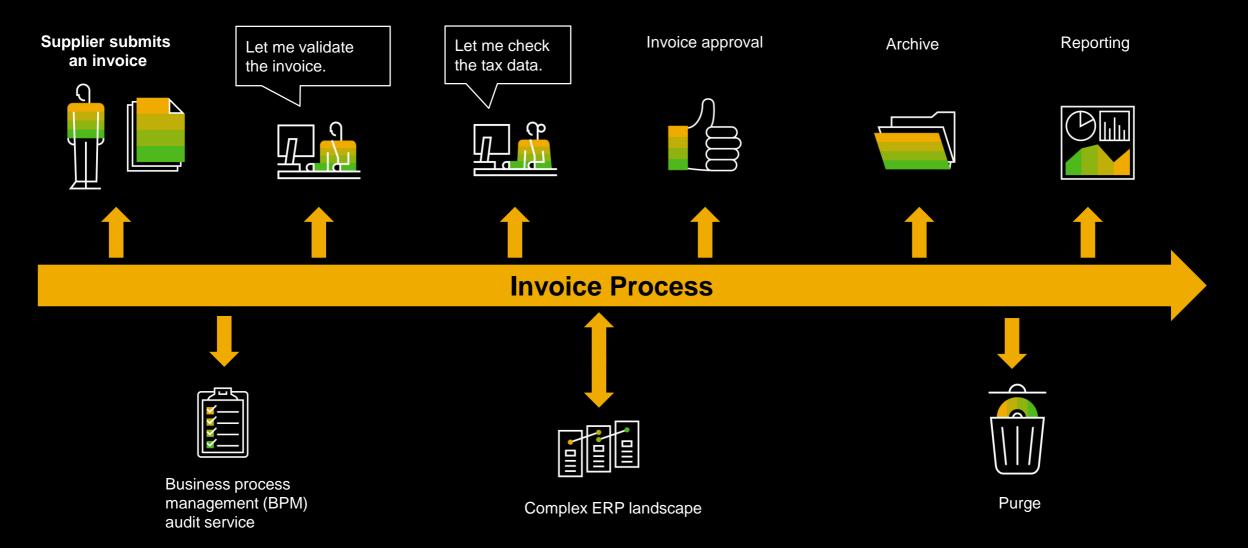
- API First! Culture
- Art of the possible Extensibility
- Faster delivery of smarter and innovative services to customers, partners, and end users
- Build and deploy on the cloud platform of your choice, scale with other enterprise cloud selfservice models



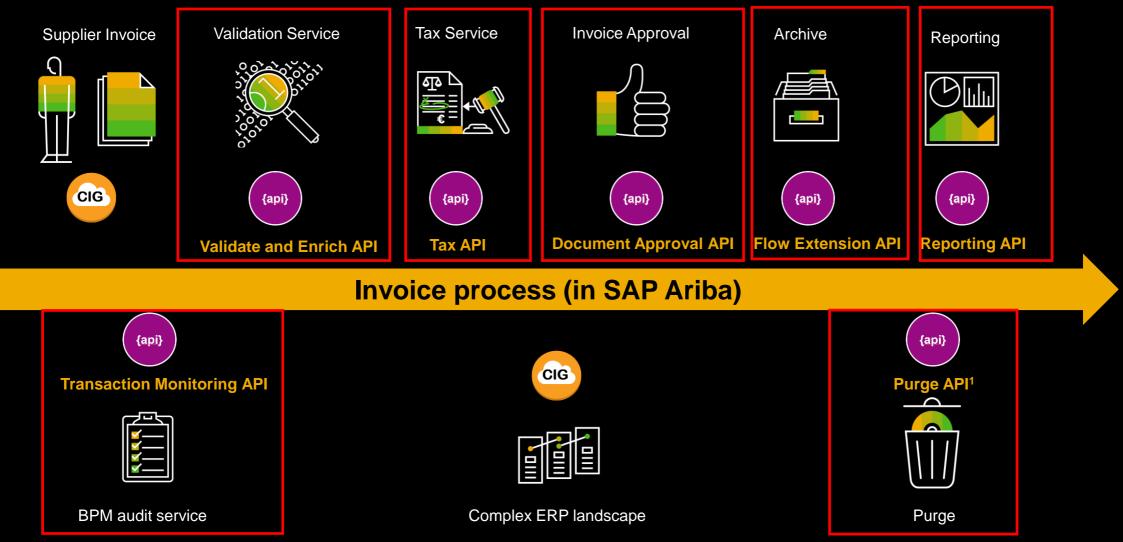
What customers are saying?



Sample use case Invoice process flow

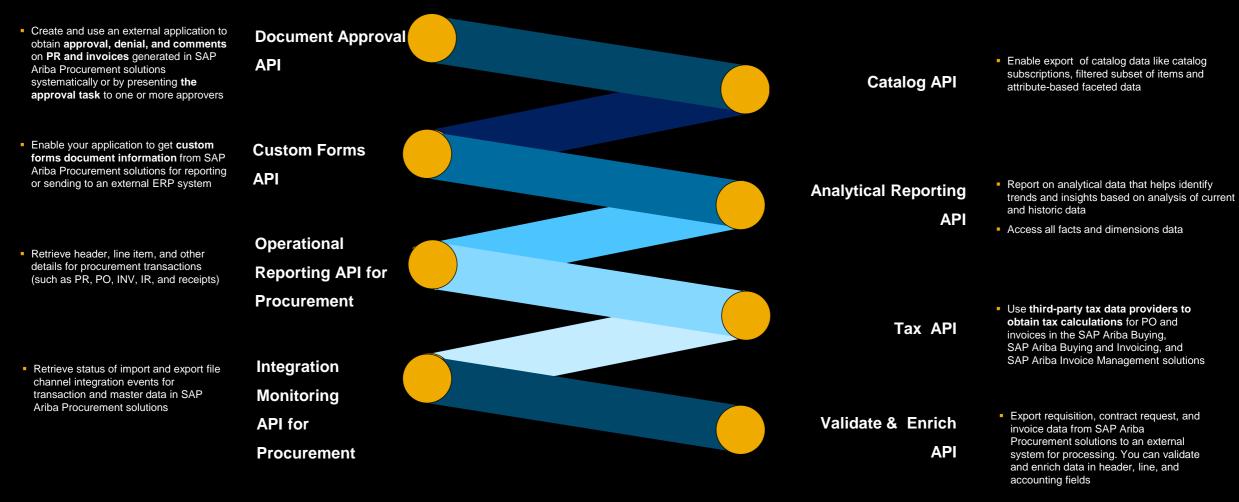


Sample use case Invoice process flow with APIs



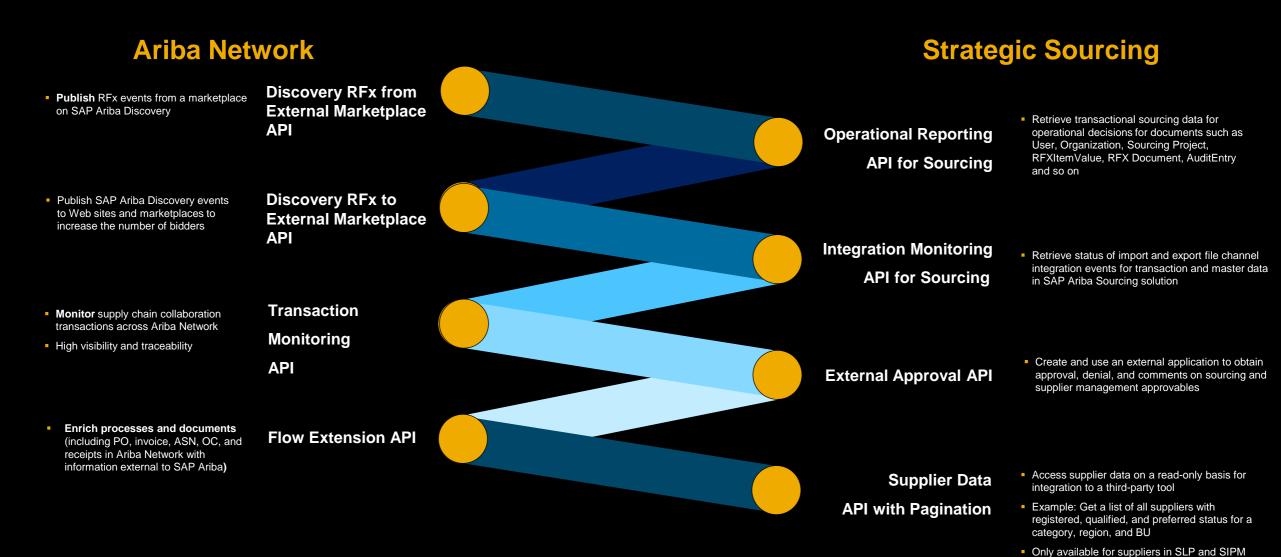
SAP Ariba APIs

Operational Procurement



Operational Procurement

SAP Ariba APIs



Calling External API

Ability to load APIs developed externally

- Must be a REST API
- Support for both headers and URL query parameters
- Basic and OAuth 2.0 authentication supported
- Provide Swagger file to document the API

Current use case: Custom Forms

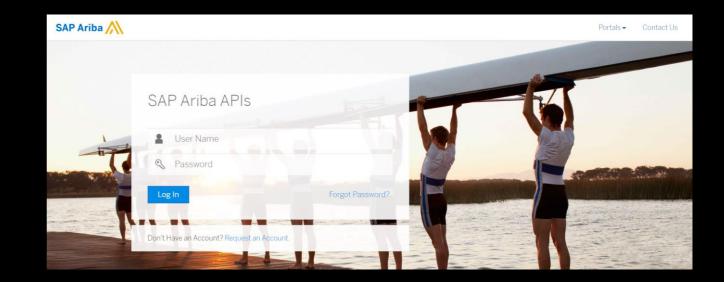
- Send and receive data to and from external systems real-time
- Business process flow automation and custom validations using your own APIs
- Custom forms to call external API upon:
 - Load
 - Submit
 - Post
 - Approval completion
 - Certain widget data changes
- Easy mapping of form fields to API response field (and vice-versa)

Developer Portal



Developer Portal

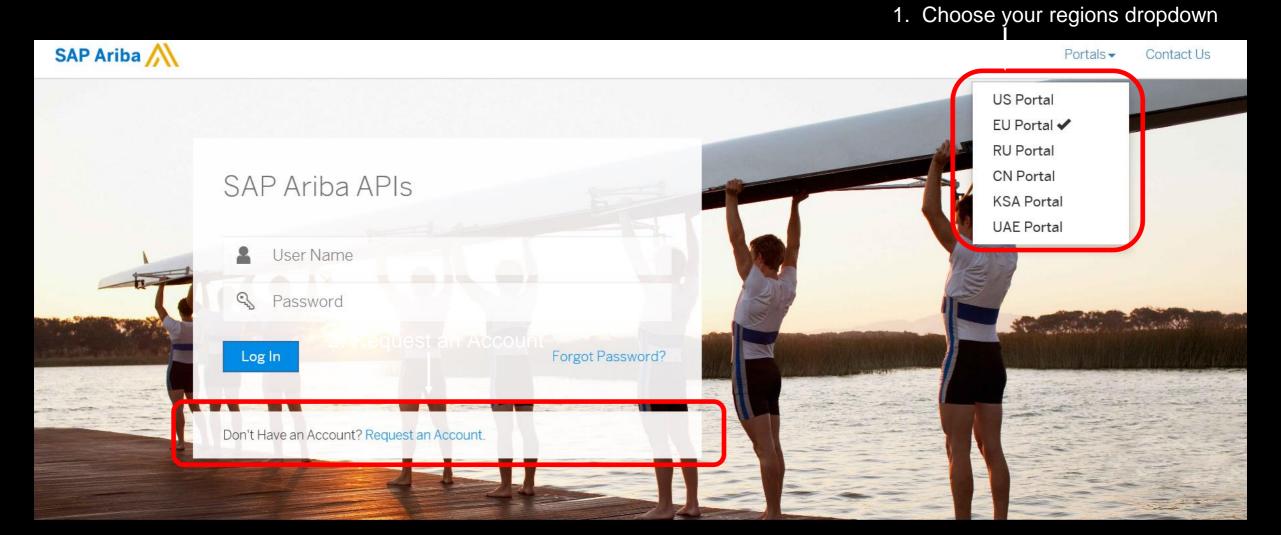
Central repository, to discover, learn and also consume the SAP Ariba **REST APIS**.



The developer portal includes

- Tools manage developer onboarding, application registration
- Developer resources API guides and API catalog
- Sandbox business environment enables rapid development
- OAuth 2.0 Authorization framework secure pipeline to validate API calls

Developer Portal Login



Developer Portal Access

Customers

If you are a Designated Support Contact(DSC), please submit the form to get the registration process started. A service request will be created on your behalf and a confirmation email will be sent to you. If you are not a DSC, please ask your DSC to submit the form.

Request an Account

Thank you for your interest in the SAP Ariba APIs.

Customers

If you are a Designated Support Contact(DSC), please submit the form below to get the registration process started. A service request will be created on your behalf and a confirmation email will be sent to you. If you are not a DSC, please ask your DSC to submit the form below

SAP Employees

Please submit the form below to get the registration process started.

Thank you, SAP Ariba APIs Team

Corporate Email

Email Address



Enter text above

You expressly agree and understand that your data entered into this system will be transferred to Ariba, Inc. and the Ariba hosted computer systems (currently located primarily in the U.S.), in accordance with the Ariba Privacy Statement and applicable law.

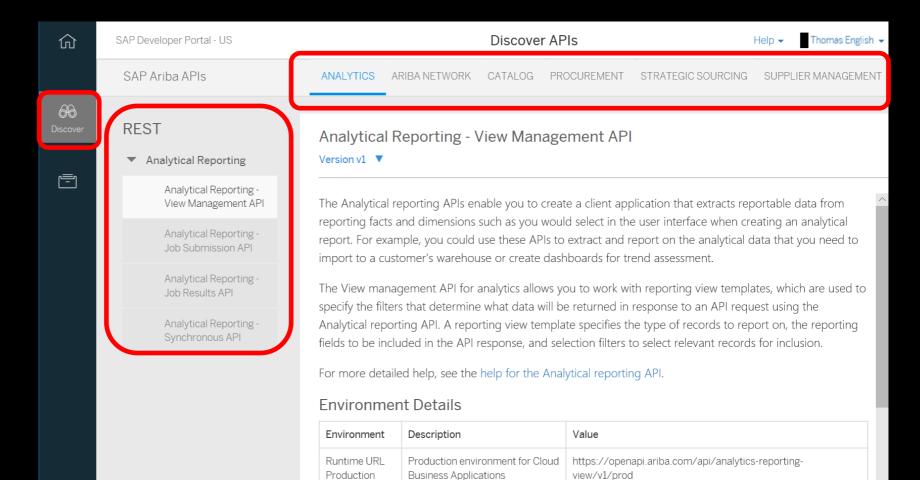
🗆 I agree

Discover SAP Ariba REST APIs

Go to Discover to find out all of the RESTful SAP Ariba APIs available.

Select the appropriate tab on the top.

Then select the appropriate API on the left. You can then read about how this API works.



Create an Application

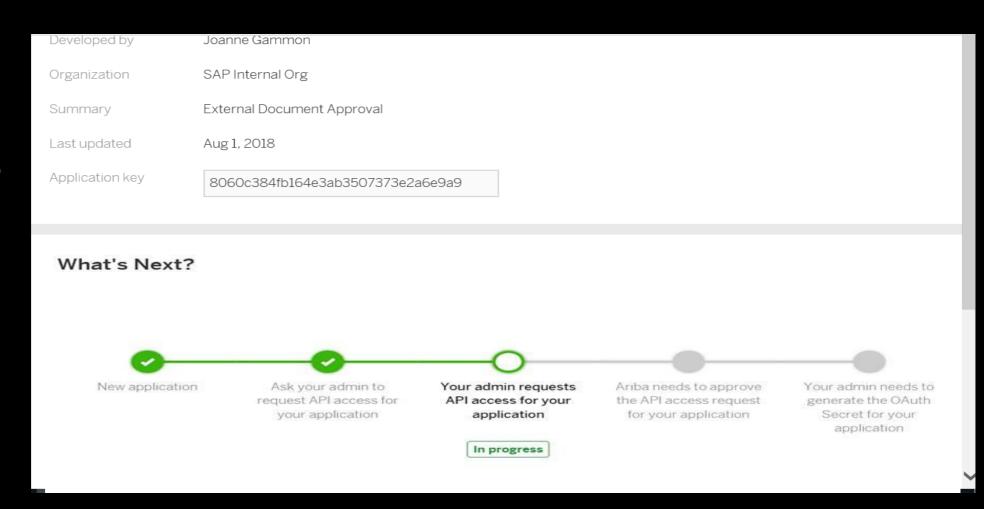
仚	SAP Ariba Open APIs H	elp Thomas English 🗸	^
66 [-	SAP Ariba Ar	ate with speed, agility, sting SAP Ariba to meet your domain-	
	Creating applications is very easy using SAP Ariba Open APIs. See our docume everything you need to create your application.	w application	
	App	lication Name	
	E	nter Application Name	
	Des	cription	
	A	dd Description	

Cancel Submit

Application Flow

Application key is automatically created.

View the 'What's Next' section to see the progress of this application.



Request API access for your application

Organization Admin requests API access for the application by selecting the 'Request API Access' option under the Actions menu

Once the Application gets approved, the OAuth Client ID gets generated and the Application status goes to 'Active'.

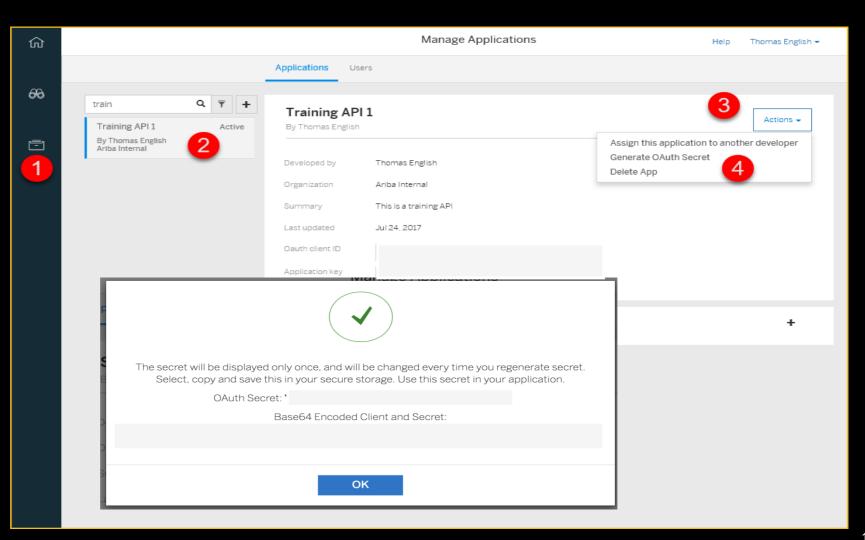
ŵ	Manage Applications	Help Thomas English 🗸 🔨
	Applications Users	
66 Search Q ♥ + Training 1 New By Thomas English SAP Tom 2	Training 1 By Thomas English Developed by Thomas English Organization SAP Tom Summary The description appears in the application Last updated Jul 26, 2017 Application Key What's Next?	Actions - Assign this application to another developer Request API Access Delete App Indetail. Application Details API Names
	what s next:	Realm name (optional) Realm AN-ID (optional)
		AN-ID Realm type (optional) Test Production
		Additional comments (optional)

Generate OAuth Secret

Once Application is Active, the Organization Admin can then generate the OAuth Secret.

Not stored in our system. Organization Admin is responsible to store the secret in a secure store/vault.

Overwritten if generated again.



Developer Portal – Process flow

Customer administrator or developer creates application. An API key is immediately generated and assigned to this application.

Build

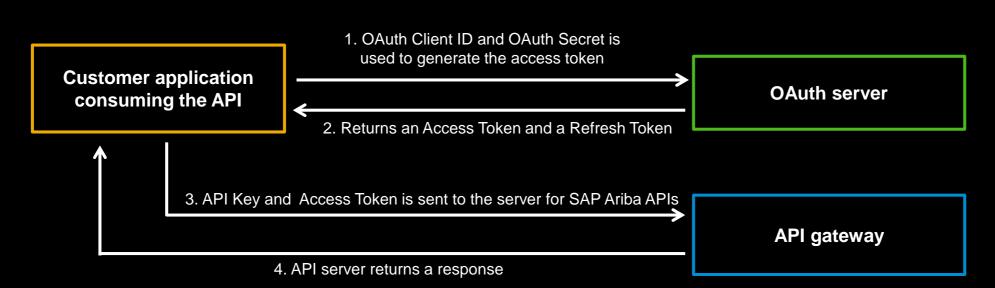
submits API access request and connects application to their Customer Realm

Customer administrator

Connect

Customer administrator generates the OAuth Secret and stores this value in a secure vault or place for the system to consume.

Use



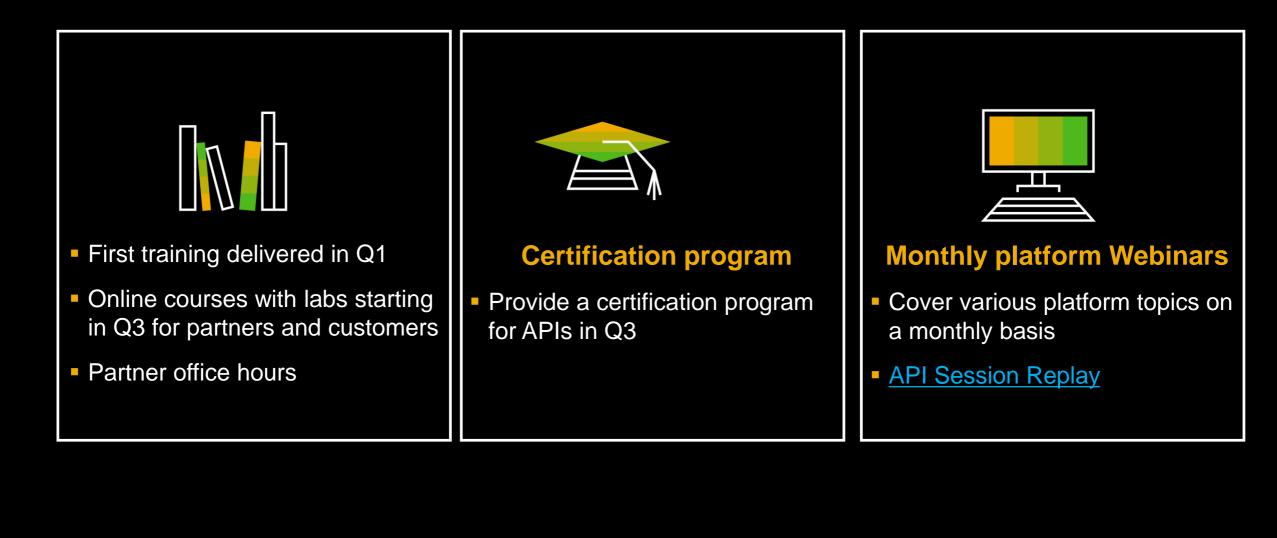
Developer Portal Roles

Roles	Action
Organization Admin	Create New User Account Create Application Request API access Generate OAuth secret
Developer	Create Application

Training



SAP Ariba API Training



Roadmap



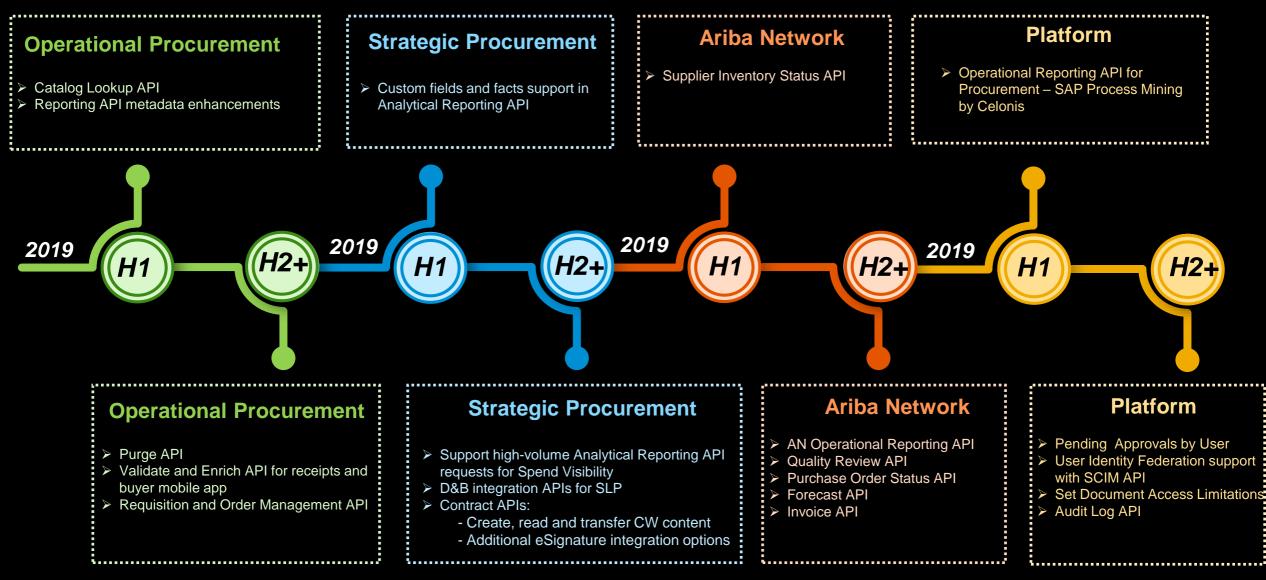
SAP Ariba Intelligent Hub

- Persona-based application for Customer Administrators and Developers
- Easily manage your environments and migrations between environments

- Easily Configure application features
- Analyze and audit changes to and security events within your environments
- Easily build, manage, deploy your Applications using APIs

SAP Ariba 🎊	Intelligent Hub	\bigcirc		9 0 A 🔮 🏢
Home APIs	Procure to pay Guided buying	Sourcing Forms Supplier Risk More	~	Create request ••••
My Requests	2 of 5	System health	Ready for deployment	What's new Now you can add synamic
Add paramete	rs to P2P requisition. Today	1 Green System up 99.99%	Custom forms 2 forms	filtering to your form. <u>Learn more</u>
Crate capital r Custom Forms	equest form 2 days ago		Customization 5 commits	
2 In-progress	2 Pending 1 Overdue	Download report Jan 31, 2018	Applications 2 apps	
Overview				
Activities Last 90 days		-	To Do 3 of 3	Contacts 6 of 15 Customer contacts
-	nanges to Test realm. Waiting for ann		Approve configuration changes. conf-1234685 in 2days	Alain Chevalier

API Roadmap Highlights



*This is the current state of planning and may be changed by SAP at any time without notice

© 2019 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

Platform Developer Portal and Platform APIs

Recent innovations	Planned Q2/2019 ¹	Planned Q3/2019 ¹	Future direction ¹
 Developer portal Streamlined approval process for API access requests Auto –enablement of APIs UI improvements to filter realms during submission 		Developer portal Replace 'Contact Us' with context based support information SKU for Higher Rate Limit API access IP Whitelisting	Developer portal Partner Portal - developer portal for partners Multiple APIs per application API deprecation control
Platform API Operational Reporting API for Procurement – for Celonis		Platform API Pending approvals by User – support integration to a unified approval app User Identity Federation support with SCIM API Set Document Access Limitations Audit Log API	 Platform API Audit API for Configuration Changes Audit API for Login Access Audit API for Group and Permission Changes Purge API for Suite Integrated Ariba Solutions
		API Enablement API Training and Certification	

Technology - APIs Operational Procurement

Recent innovations	Planned Q2/2019 ¹	Planned Q3/2019 ¹	Future direction ¹
Operational procurement	Operational procurement	Operational procurement	Operational procurement
 Operational Reporting API for Procurement – enhancements to metadata API 	 Operational Reporting API for Procurement– support for UI name and description in the metadata Catalog API – support for look up files upload 	 Tax API – improvements to invoices Requisition and Order Management API Support for searching requisitions and updating asset line items on requisitions 	 Purge API for Operational Procurement Tax API – support for Brazilian taxes Validate and Enrich API – support for receipt Validate and Enrich API support for Ariba Buyer mobile app
		 Support for searching purchase orders by search filter 	 Price and Availability API – support for suppliers to provide current and actual price and availability to buyers

 Inventory Management Stock and Reservation API – support real-time inventory look-up and reservations in the catalog

Technology - APIs Strategic Procurement

Recent innovations	Planned Q2/2019 ¹	Planned Q3/2019 ¹	Future direction ¹
Strategic procurement	Strategic procurement	Strategic procurement	Strategic procurement
 Operational Reporting API for Sourcing – support for additional fields 	 Supplier Risk Third Party API – support for partner onboarding for Supplier Risk 	 Supplier Risk Third Party API – support for Compliance and KYS Risk Data providers, inclusion of Compliance Risk data in supplier profile and Risk dashboards Support high-volume Analytical Reporting API requests 	
 Supplier Data API – support for configuring supplier fields for export 	Third Party Financial Risk Data API		 Contract Documents API - support to transfer documents from contracts workspa
 External Approval API – support approvals at process flow level in supplier management 			 to external applications. E-Signature APIs to integrate with other eSignature Providers
 Analytical Reporting API - support for custom fields and dforms, filter 			 Supplier Risk Third Party API - support ES indexes and services, cybersecurity, comp external incidents, NGO complaints, sub-tion parts
 Supplier Data API - enhancements to 			 Supplier Data and D&B Integration API
support supplier hierarchy.			 Supplier Data API – stability enhancement address gaps

Technology - APIs

Ariba Network

Recent innovations Planned Q2/2019 ¹	Planned Q3/2019 ¹	Future direction ¹
Network Network • Supply Chain transaction monitoring API''s – support monitoring of documents by buyers • Supplier Inventory Status API – support for visibility of Inventory status at Supplie locations for buyers.	 Network Ship Notice API – support for visibility and maintenance of Ship Notice Invoice API – allows extraction of Invoices by based on invoice ID and dates by 3rd party banks and partners 	retrieve header, line item, and other details

Summary and Key Takeaways

1 Think big – Adopt API strategy to drive faster transformation

2 Invest – Learn about SAP Ariba APIs to gain faster business benefits

3 Scale fast – Speed up innovations with SAP Ariba APIs

We want to hear from you! Be sure to complete the session evaluation on the SAPPHIRE NOW and ASUG Annual Conference mobile app.



Presentation Materials

Access the slides from 2019 ASUG Annual Conference here: http://info.asug.com/2019-ac-slides



For questions after this session, contact us at arundhati.kumar@sap.com

Let's Be Social.

Stay connected. Share your SAP experiences anytime, anywhere. Join the ASUG conversation on social media: @ASUG365 #ASUG





Thank you.

Arundhati Kumar Solution Manager - Extensibility & Configurability Arundhati.Kumar@sap.com



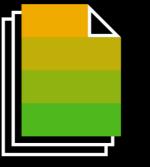
Appendix



API assets

Current initiatives:

- API Datasheet
- API Webinar Session Replay
- <u>SAP Ariba REST API</u>
 <u>Documentation on Connect</u>
- Q2 2019 Roadmap







What's coming up:

- Videos (solution specific and customer references)
- Detailed white papers
- Increased social media presence
- Blogs