SAP Integration Suite
Monthly Updates – February 2021

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THE BEST RUN **SAP**

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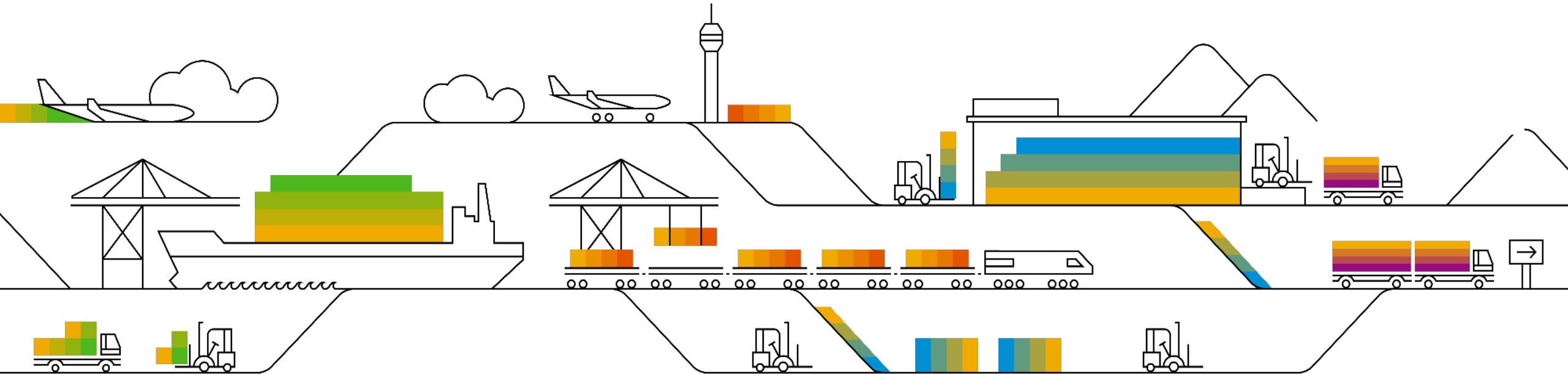
Agenda

- Product Updates
  - API Business Hub Enterprise
  - Low code API Development
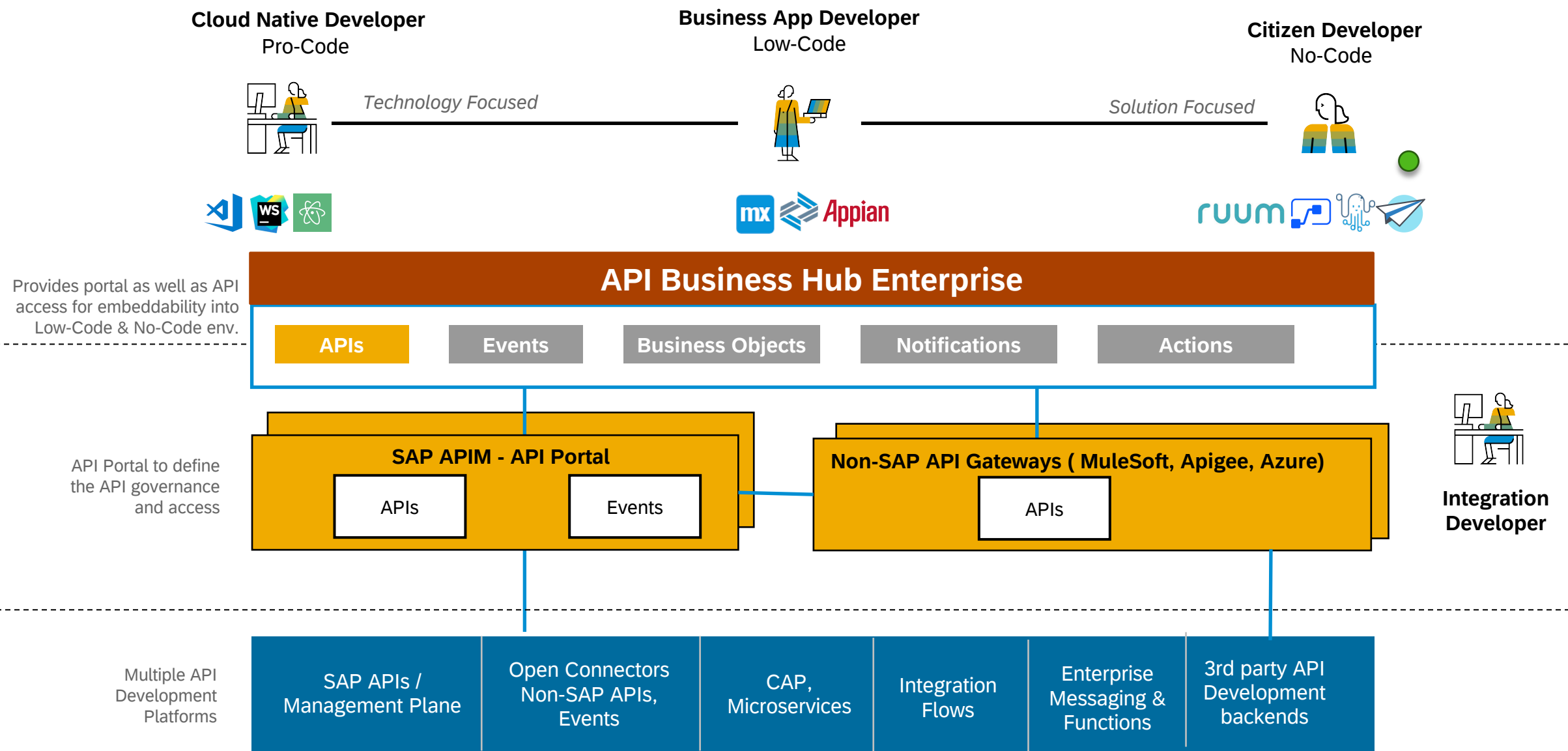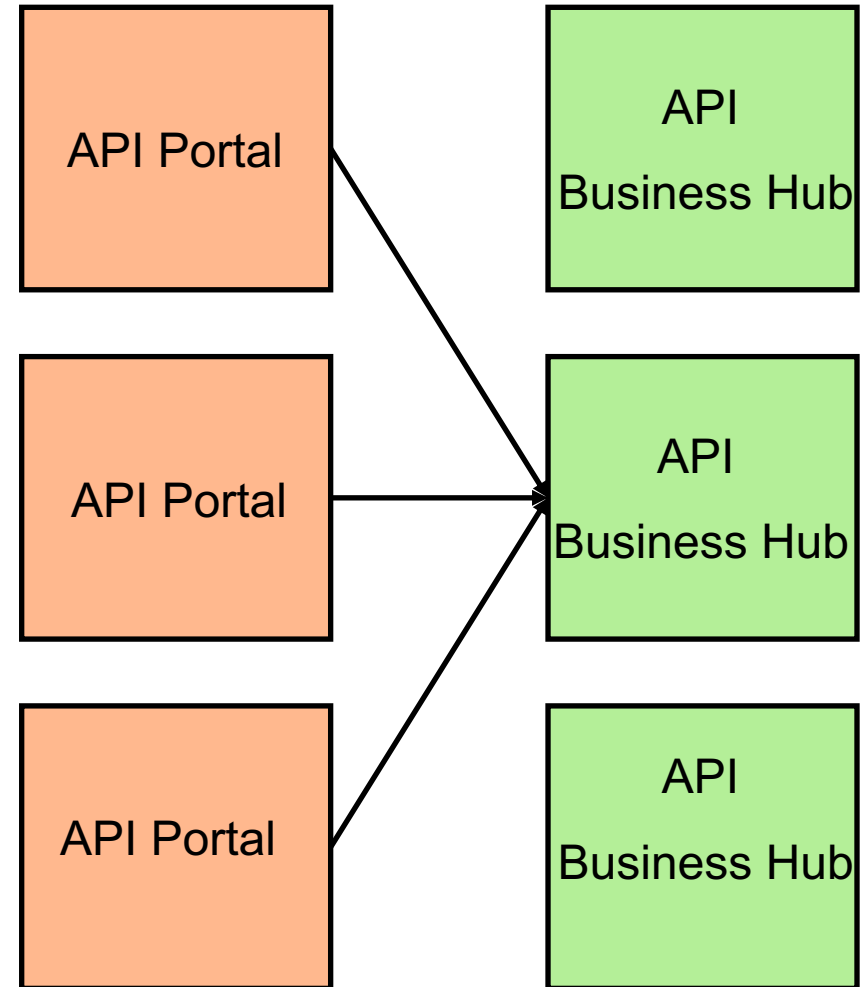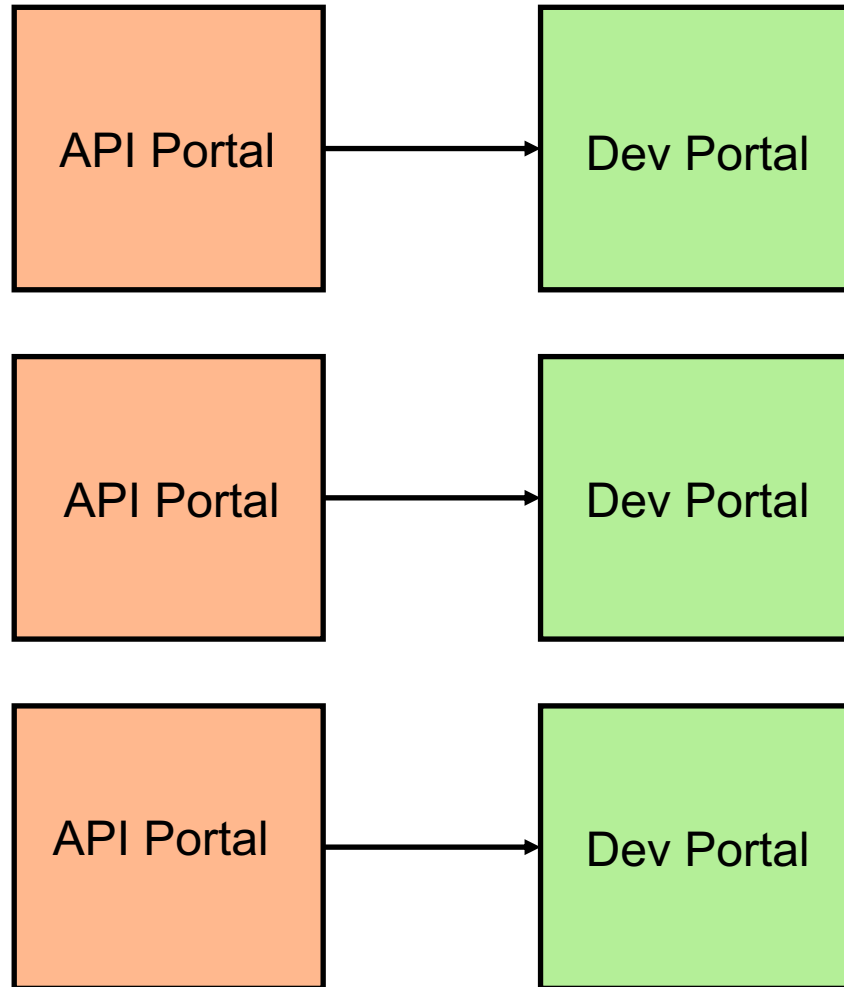 - Latest version of Adapters

- Q&A

API Business Hub Enterprise

What is it ?

Central Catalog of APIs , agnostic of API Gateway ,provides seamless search, exploration and consumption of listed APIs.

API Business Hub Enterprise – Big Picture

Cloud Native Developer
Pro-Code

Business App Developer
Low-Code

Citizen Developer
No-Code

Technology Focused

Solution Focused

API Business Hub Enterprise

Provides portal as well as API access for embeddability into Low-Code & No-Code env.

APIs	Events	Business Objects	Notifications	Actions

API Portal to define the API governance and access

SAP APIM - API Portal

APIs

Events

Non-SAP API Gateways (MuleSoft, Apigee, Azure)

APIs

Integration Developer

Multiple API Development Platforms

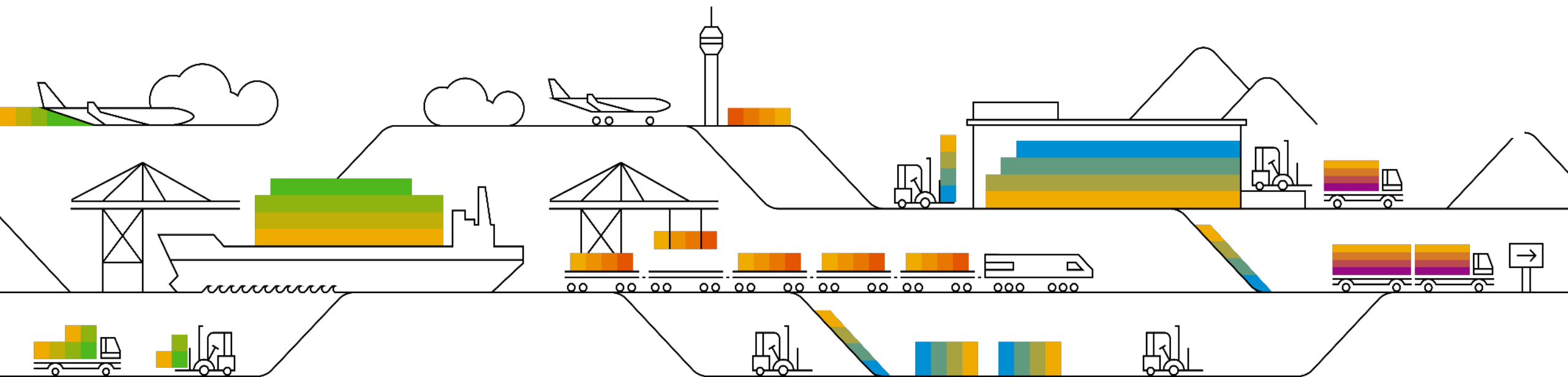| SAP APIs / Management Plane	Open Connectors Non-SAP APIs, Events	CAP, Microservices	Integration Flows	Enterprise Messaging & Functions	3rd party API Development backends

Models for Connection

API Business Hub Enterprise – Key Points

- Existing API Management 'Dev Portal' is rebranded as 'API Business Hub Enterprise.'

- API Business Hub Enterprise offering will be available in native CF and Integration Suite.

- Listing of APIs from non-SAP API Gateway's other than SAP API Management.

- Multiple API portal (provisioning workspace) can publish APIs to API Business Hub Enterprise.
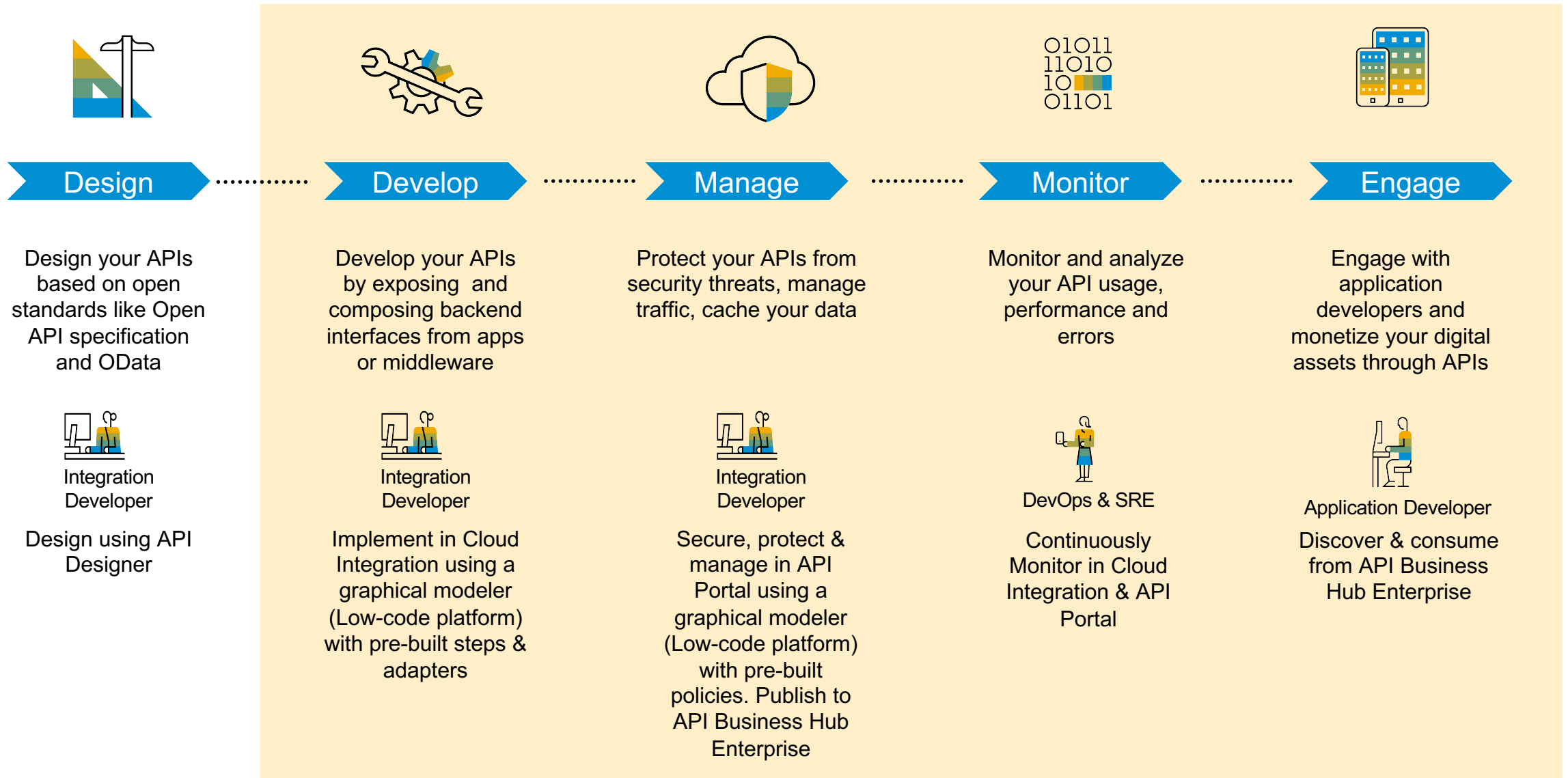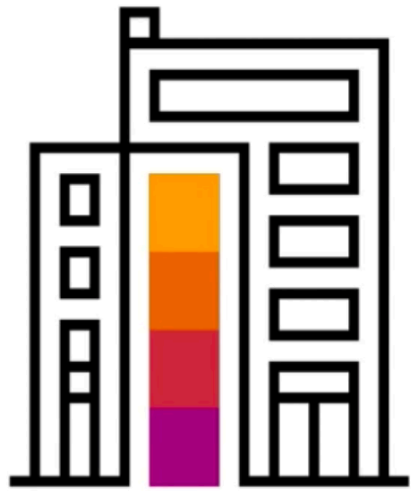
- Tooling support (client SDK) to expedite API consumption.

Demo
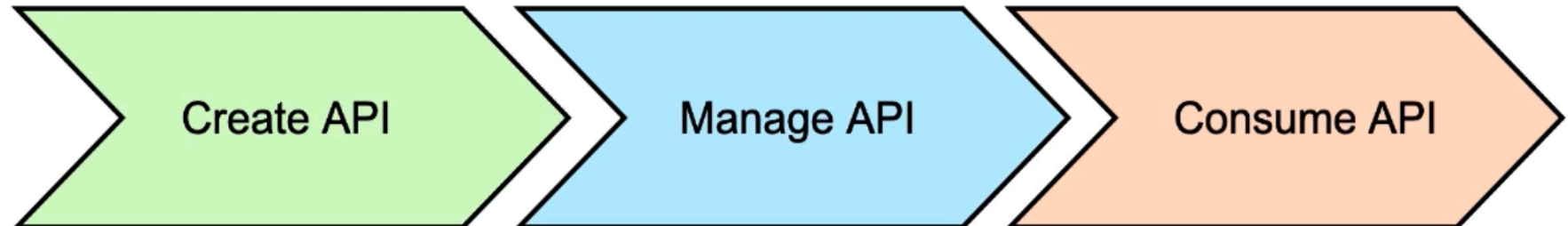
Low code API Development

Lifecycle of an API

Design	Develop	Manage	Monitor	Engage
Design your APIs based on open standards like Open API specification and OData	Develop your APIs by exposing and composing backend interfaces from apps or middleware	Protect your APIs from security threats, manage traffic, cache your data	Monitor and analyze your API usage, performance and errors	Engage with application developers and monetize your digital assets through APIs
Integration Developer	Integration Developer	Integration Developer	DevOps & SRE	Application Developer
Design using API Designer	Implement in Cloud Integration using a graphical modeler (Low-code platform) with pre-built steps & adapters	Secure, protect & manage in API Portal using a graphical modeler (Low-code platform) with pre-built policies. Publish to API Business Hub Enterprise	Continuously Monitor in Cloud Integration & API Portal	Discover & consume from API Business Hub Enterprise

Demo

Example Use-case

db_firstName	db_lastName	db_dept
Amar	Kumar	HR
Deepak	D	Sales
Kamlesh	Z	Finance

Database

Abc Company

SOAP Service/WSDL

Create API → Manage API → Consume API

Welcome to SAP Integration Suite

Simplify and accelerate enterprise integration and quickly transform your business into an Intelligent Enterprise

Capabilities

Develop and manage enterprise-wide integration across heterogeneous landscapes.

Design, Develop, and Operate Integration Scenarios	Design, Develop, and Manage APIs	Extend Non-SAP Connectivity	Implement Interfaces and Mappings
Cloud Integration	**API Management**	**Open Connectors**	**Integration Advisor**
Support end-to-end process integration through the exchange of messages.	Create simple digital experiences for your consumers, partners, and employees.	Accelerate the connectivity with non-SAP cloud applications.	Develop interfaces and mappings by using crowdsourcing and machine learning.

Manage Capabilities

SAP Integration Suite: New adapters

John Bilay

SAP **Run Simple**

Upgraded version of 3ʳᵈ Party Adapters
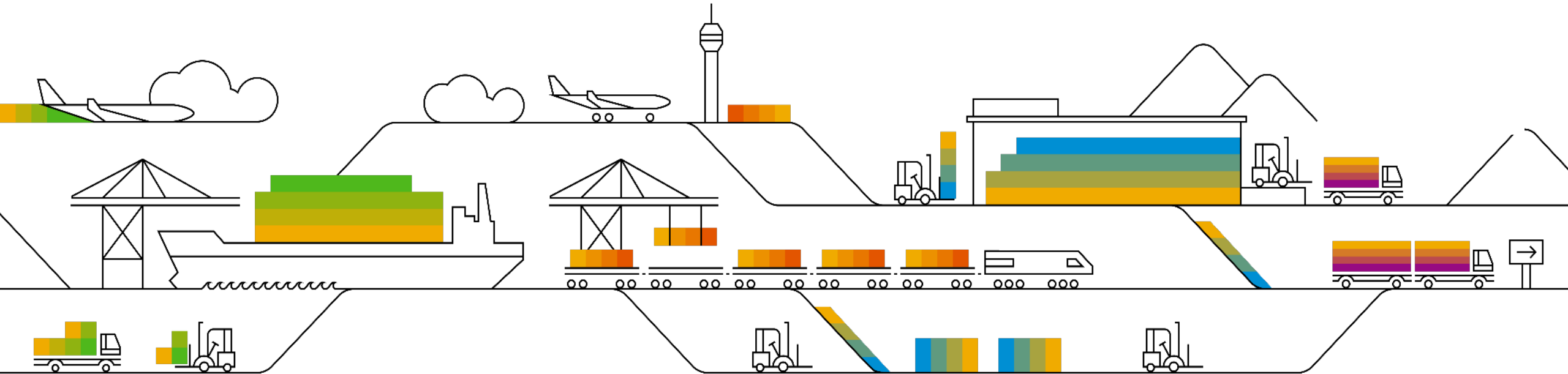
SAP Integration Suite: Connectivity Options

27 Standard Adapters

- Technical adapters
  - AMQP, AS2, AS4 J MS
  - HTTP, HTTPS (incl. REST), SOAP
  - JDBC, LDAP
  - Kafka (planned for March 2021)
  - SFTP, FTP, FTPS
  - Mail (SMTP, IMAP, POP3)
  - OData V2 & V4

New adapters

* All licenses of SAP Integration Suite & SAP Cloud Integration

Planned for March 2021:

* SAP Integration Suite standard and premium edition customers

Full list of adapters by SAP in SAP User Documentation

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Where can I download the adapters?

Navigate to:

https://launchpad.support.sap.com/#/softwarecenter >> SUPPORT PACKAGES & PATCHES >> By Alphabetical Index (A-Z) >> C >> look for "**SAP CP IS ADAPTER ADVANCE PACK**" & "**SAP CP IS ADAPTER BASE PACK**"
Alternatively, you can directly go to:

- SAP CP IS ADAPTER ADVANCE PACK
- SAP CP IS ADAPTER BASE PACK

■ Base pack: All licenses of SAP Integration Suite & SAP Cloud Integration.
■ Advanced pack: SAP Integration Suite standard and premium edition customers.

Amazon Web Services – Sender

AWS Sender

Read AWS S3:
- Support for patterns in filename from root or sub-directories.
- Archive processed files to the same bucket or different bucket.
- Possibility to sort files based on Filename, Filesize, and Timestamp.
- Retrieve additional metadata/attributes for file in S3 bucket.
- Support for Server-Side Decryption.
- Post-processing options, including deleting, moving, and copying files.
- Support for dynamic properties and headers.
- Functionality to generate pre-signed URL.

AWS Sender
Read data from AWS

Read AWS SQS queue:
- Support for Standard and FIFO queues.
- Possibility to delete the message from the queue after reading as part of the post-processing step.
- Possibility to keep a message in the queue after processing.
- Capability to retrieve additional metadata/Attributes maintained for a message on the SQS queue.

Amazon Web Services – Receiver
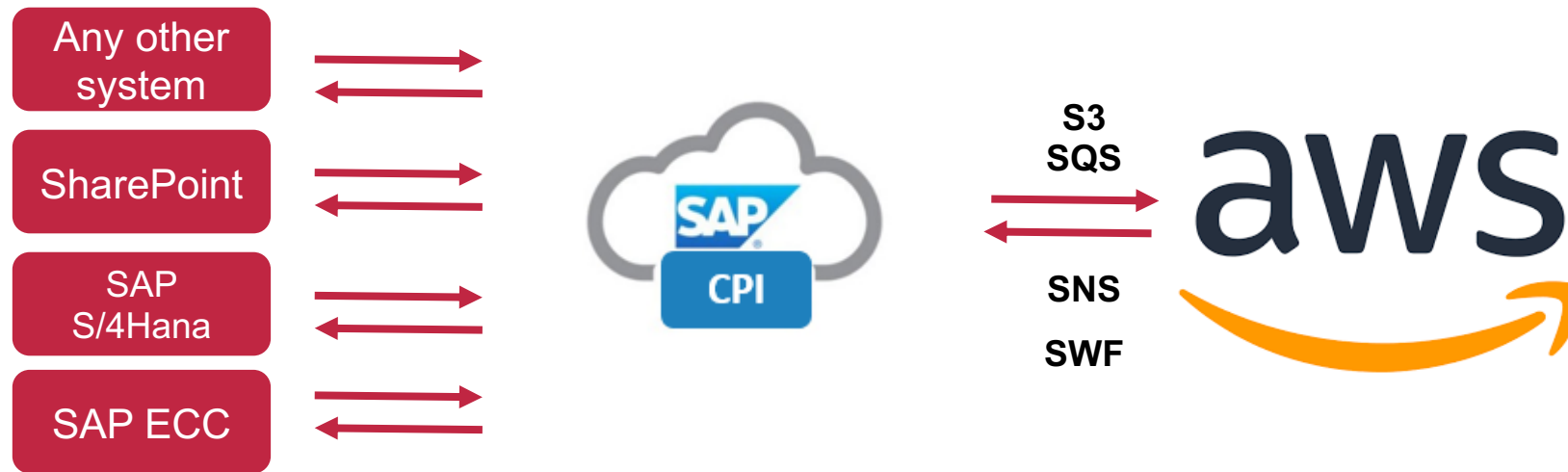
AWS Receiver
Read data from AWS

Push files to AWS S3 :
- Option to select a storage class.
- Different handling options for existing S3 bucket files
- Option to upload attachments to the S3 bucket.
- Server-Side Encryption.
- Capability to read a file from the S3 bucket using the Read operation of the receiver adapter.

Send message to AWS SQS queue:
- Support for Standard and FIFO queue.
- Add multiple message attributes while writing a message to queue.
- For Standard queue, option to provide delay seconds to avoid subsequent processing by any other consumer.
- For a FIFO queue, the option to provide message deduplication id and message group ID.

AWS Receiver

Push real-time notification messages to AWS SNS:
- Support for Standard topics.
- Option to provide Identical Payload for all consumers.
- Provide custom payload for different consumers.
- Format the response in XML and JSON formats.
- Provide multiple Message attributes.

Implement & coordinates tasks via AWS SWF:
- Multiple SWF tasks/operations.

Roadmap
What is ahead...

- Support for Amazon SNS FIFO – First-In-First-Out Messaging.
- Support for Request-response messaging pattern (virtual queues).
- Protecting data using client-side encryption.
- Support for Amazon EventBridge.
- Support for Amazon DynamoDB.

Salesforce – Receiver

Features
General features

- Multiple operations: create, read, update, upsert, delete, query, etc.
- Perform query and search Salesforce using SOQL and SOSL.
- Retrieve binary content files from your Salesforce (document & attachment).
- Pretty-print and format the XML and JSON messages returned by Salesforce to improve readability.
- Support for custom Salesforce objects and custom fields.
- Authentication to Salesforce using OAuth 2.0.
- Most attributes in the adapter support dynamic properties and headers.
- Support for Salesforce Object dependencies/relationships between objects in the adapter. It enables the inclusion of referenced SObjects in the Salesforce.
- Eclipse Workbench/Plug-In to query & Generate XSD

Features
Composite, Bulk, Place order features

Composite:
- Support Composite: combine different operations on multiple Salesforce Objects in a single request.
- Roll back preferences for the actions on Salesforce Objects

Bulk:
- Asynchronously process large sets of data with BULK processing using XML, JSON, and CSV.
- Support for processing of ZIP files.
- Query large sets of data via BULK Batch query operations, via SOQL.
- Retrieve the status of any BULK job, (query) batch, or all batches in a job.

Place Order:
- Process composite contract, order, and order product data in a single request.
- Add products to existing orders and contracts.
- Retrieve order and product records under a specific order or contract.
- Retrieve filtered lists of orders or products under a given order or contract.

Roadmap

What is ahead...

- Sender adapter supporting the Streaming API for event-based message processing: PushTopic Events, Generic Events, Platform Events and Change Data Capture Events.
- APEX REST Web Service functionality.
- BULK API version 2.0.
- Enhanced Composite resource: Tree and Batch object.
- Periodic update of adapter to support new Salesforce API versions.
- Eclipse Workbench/plug-ins to support the creation and generation of Streaming-based queries and XSDs.

Microsoft Dynamics CRM – Receiver
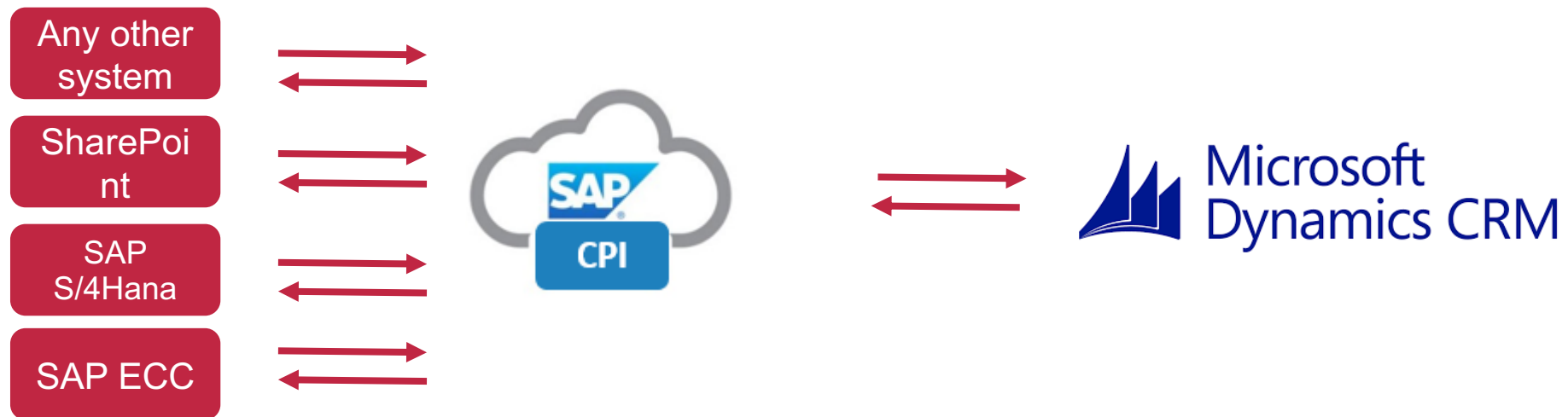
Features

- Support many operations: Associate Objects, Disassociate, Create, Update, Delete, Read, Query, Function.
- Support for OData Query & FetchXML Query.
- Processing data in single or batch mode.
- Ability to expand Navigation Properties.
- Support outbound headers.
- Support pagination.
- OAuth 2.0 authentication.
- Supports dynamic configuration with headers and properties.
- Support for XML and JSON formats.
- Eclipse Workbench/Plug-in
  - XSD generation representing the object in Dynamics CRM.
  - Simplify discovery of Microsoft Dynamics CRM entities

Roadmap

What is ahead...

- Support for federated authentication.
- Periodic update of adapter to support new API versions.

SugarCRM – Receiver
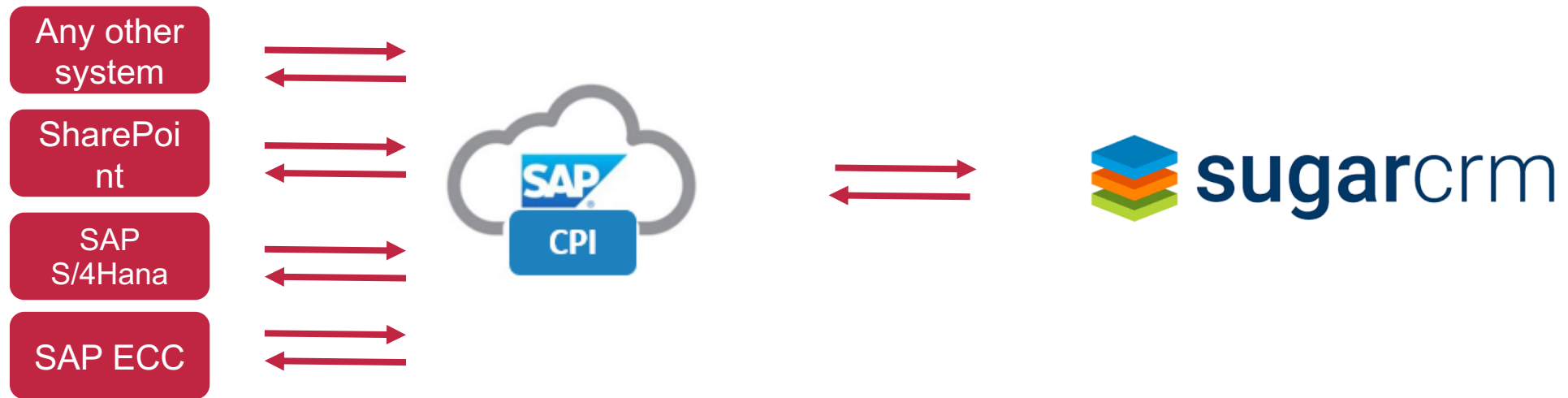
Features

- Support multiple operations on any SugarCRM Entity:
  - Create Record
  - Update Record
  - Query Records
  - Get Record by ID
  - Delete Record
  - Upload a File
  - Global Search
  - Bulk
- Dynamic configuration with headers and properties
- OAuth2.0 authentication
- Eclipse Workbench/Plug-in for XSD generation

Suggest features
Influence the capabilities

For any new feature suggestions, use the Influence session on SAP Integration Suite at:
https://influence.sap.com/sap/ino/#/campaign/2282

For upgrade questions:

Register an incident under the component "LOD-HCI-PI-CON-ROJO" with the title "Help with upgrading to the OEM adapter".

SAP Notes:
https://launchpad.support.sap.com/#/notes/3001980
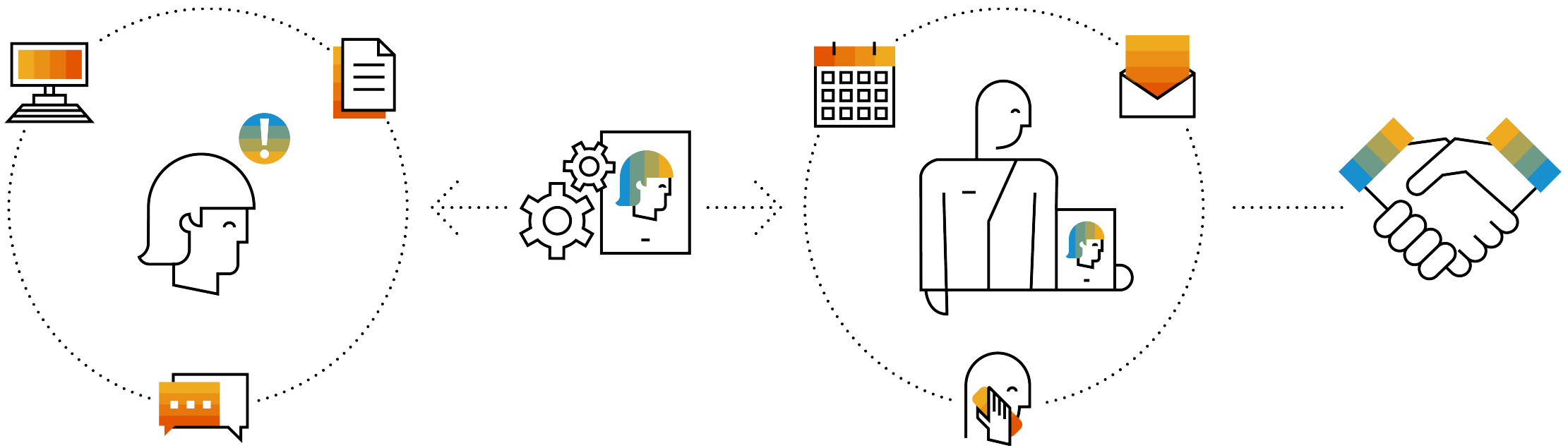
Interact with Integration Black Belt

SAP Integration Suite

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Invitation: "Integration Black Belts"

"**Interact with Integration Blackbelts**"

- Speakers from customers / partners / stakeholders / consultants to share their innovations, solution architecture, best practices and integration patterns

- 20 mins slot

- Interested to present? Reach out to finny.babu@sap.com

Q&A

Thank you.

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