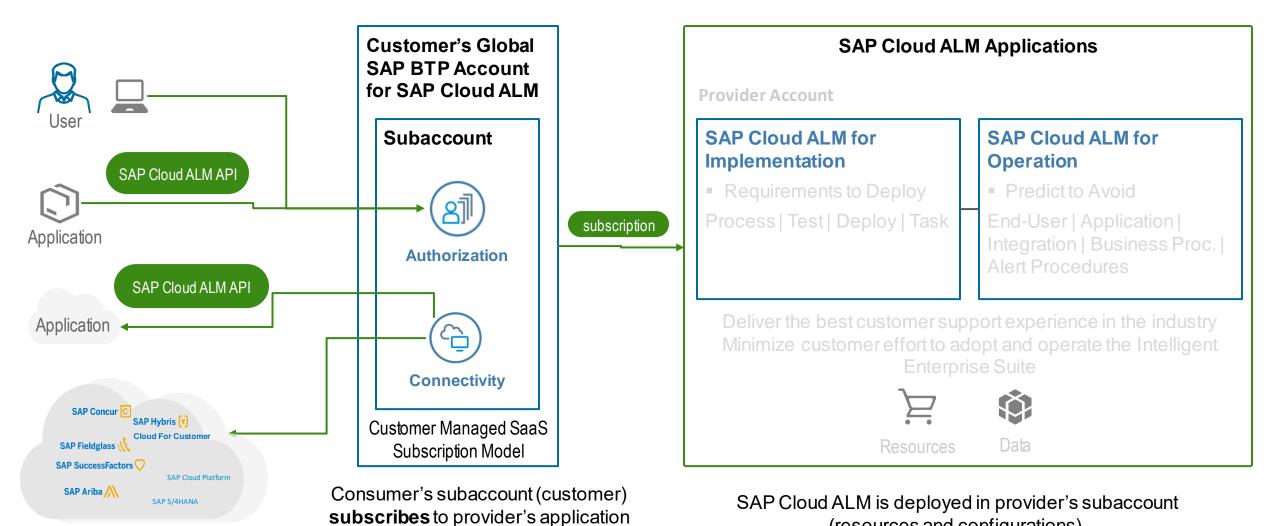




SAP Cloud ALM architecture overview



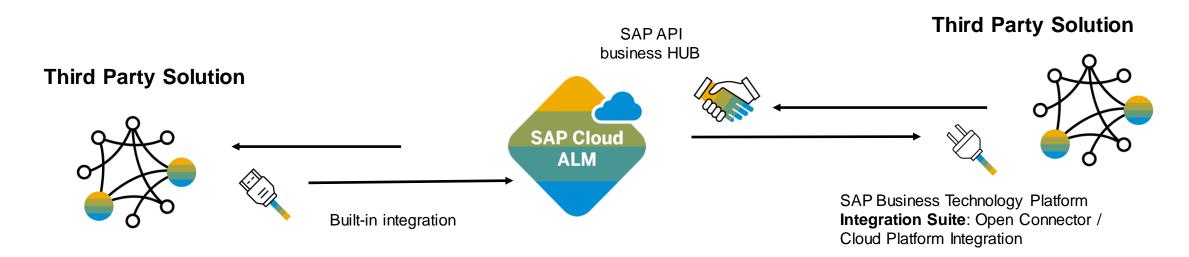
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(SAP Cloud ALM), supported by automated onboarding

(resources and configurations).

APIs Strategy

Extend, innovate and add value on top of SAP Cloud ALM





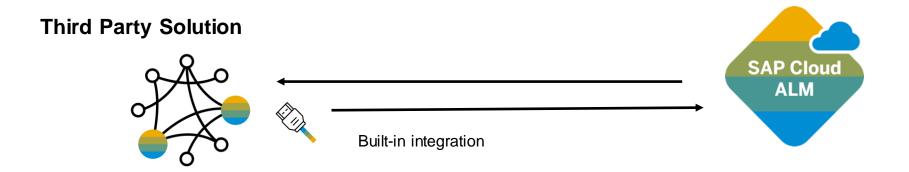
The APIs for SAP Cloud ALM provides "built-in" **integration ready** for selected solutions including SAP and third-party solutions.



The APIs for SAP Cloud ALM are designed to let customers, partners and third-party component to extend SAP Cloud ALM capabilities for Implementation and Operations and innovate on top of SAP ALM core capabilities.

APIs Strategy

Extend, innovate and add value on top of SAP Cloud ALM



The APIs for SAP Cloud ALM are used to provide "built-in" integration ready for selected solutions including SAP and third-party solutions.

Integration ready

* Planned

* Under Evaluation

Cloud	SAP Solutions	Third Party Solutions
Analytics	SAP Analytics Cloud	Grafana
Operation Automation	SAP Automation Pilot SAP Workflow Management SAP iRPA	
Event Management	SAP Solution Manager ITSM *	ServiceNow Teams Channel * Git * Jira *
Test Automation	Test automation tool for SAP S/4 HANA Cloud	Tricentis *
Task Management (Task, Defect, Requirement)		Teams Channel * Git * Jira *
In App Notification		Teams Channel *

Integration ready: Resources Change API (1/2)

The CALM **Resource Changes Service** provides **messages** that let applications watch for changes to resources: Whenever a watched resource changes, the CALM Resources Changes API notifies external application.

CALM Resources are objects managed and defined by CALM applications:

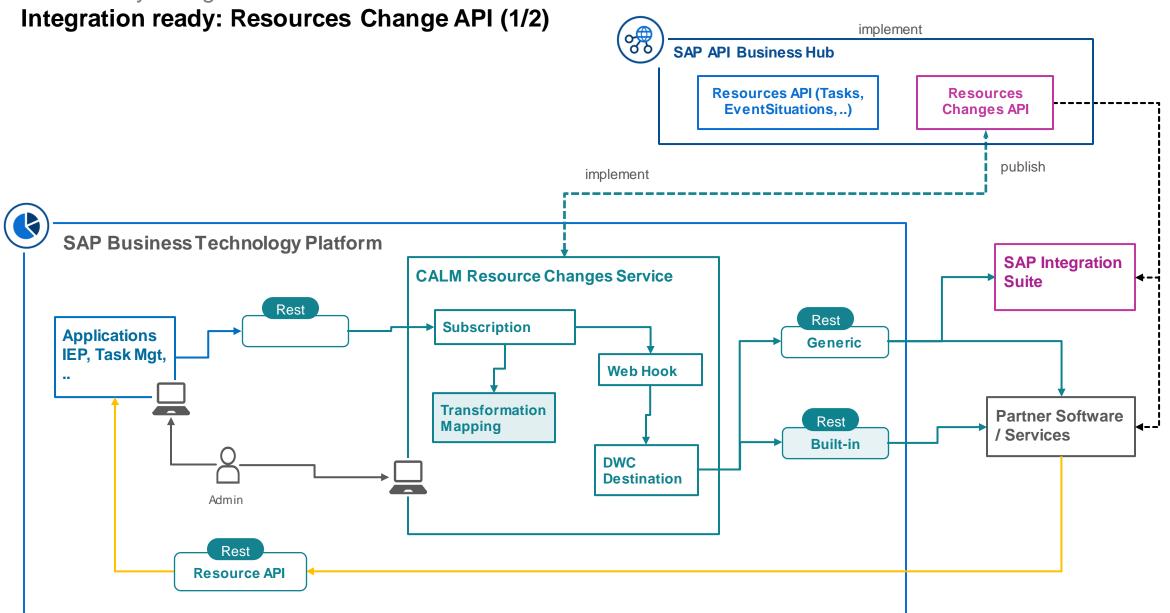
- Event Situation,
- Tasks,
- InApp Notification

CALM Resources are accessible via the SAP Cloud ALM API catalog via our REST API.

This API is implemented by Third Party components/applications who want to interact with CALM Resources.

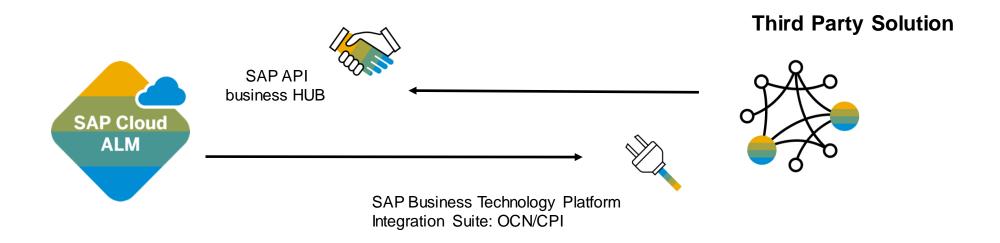
A 'built-in' implementation of the API is provided for selected third-party services: S-NOW, Teams, ...

Possible use-cases are: Event Situations to Incidents, Defects to Problem, Event Situations to Messages, Tasks to Issues,



APIs Strategy

Extend, innovate and add value on top of SAP Cloud ALM





The APIs for SAP Cloud ALM are designed to let customers, partners and third-party component to **extend** SAP Cloud ALM capabilities for Implementation and Operations and **innovate** on top of SAP ALM core capabilities.

Best Practices



Consume

...benefit from a huge amount of key SAP data

3rd Party Analytics, 3rd Party APM, ...

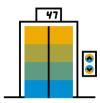


Integrate

...connect CALM to your existing ALM platform and tools

TMS, Jira, SNOW, test tools, custom pipeline, workflow, ...





Complement

...implement connectors and content to better support your business processes

3rd Party systems connectors, prepackaged analytics, deliver templates, ...



Extend

...build new services and frontends to improve your ALM processes

Al, RPA, Bots, predictive operations, capacity planning, test optimization, ...

Customer/Partner User Story

Consume: benefit from a huge amount of key SAP data

As a customer/partner, I create **custom** applications for data visualization for all ALM domains (Build, Run)

- SAP Analytics Cloud
- 3rd Party **Analytics**: Grafana, Splunk, Tableau, ...
- 3rd Party **APM**: Dynatrace, AppDynamics, ...
- 3rd Party **Project** Management: JIRA, ...
- ..



Integrate: connect CALM to your existing ALM platform and tools

As a partner/customer, I integrate CALM into other **ALM components** to improve ALM **processes**:

- Test Management: Tricentis, Microfocus, Selenium, ...
- Project/Task Management: Jira, GitHub, ...
- Incident Management: ServiceNow, Zendesk, ...
- CI/CD: Jenkins, Bamboo, GitLab,
- Collaboration: Teams, Slack, ...
- Operation/Workflow Automation: Automic, Redwood, ..
- ..

Complement: implement connectors and content to better support your business processes

As a partner, I deliver content/services in the SAP Store for:

- SAP UI5/Fiori custom applications,
- SAP Analytics Cloud pre-packaged analytics,
- Advanced SAP BTP application from project management (Scrum-Board, Kanban, Project Tracker, ..),
- Custom process/solution modeling, BPMN library, ...
- Custom project/methodology templates,
- **SAP CPI** package (3rd Party systems connectors, complex integration scenario, ...),

•

Extend: build new services and frontends to improve ALM processes

As a **partner**, I deliver **advanced innovative** applications and services in the following domains:

- Artificial Intelligence: predictive operations, capacity planning, test optimization, preventive support, ..
- Robotic Process Automation: request authorizations, trigger testing, automatic incident management, optimize systems monitoring, detect security attack, perform backups, ...
- Chatbot: advanced support, Service desk operations, ...

•

APIs Catalog

SAP Cloud ALM API for **Implementation**



Process Scope

Exchange project/task/requirement information

 Exchange process scopes, activate custom process



Alerts

Update alert situations



Automation

Integrate automation tool



Test Management

Synchronize Test components

Task/Requirement/Defect



Test Automation

Trigger automatic test, Retrieve results



API hub



Metrics

Read, push Metrics



Business Service Events

Synchronize systems/cloud services events (downtime, degradation, ..)

SAP Cloud ALM API

for **Operations**



CI/CD

 Trigger deployment, Retrieve deployment results



Landscape



Analytics



Release Management

Manage Features and Transports



Resource Changes SAP Cloud ALM **generic** API

APIs Catalog

SAP Cloud ALM API for **Implementation**





SAP Cloud ALM API for **Operations**



Project/Task



Automation



Test Management



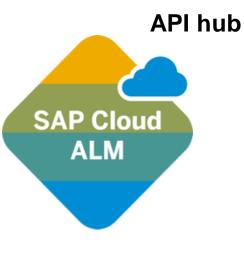
Test Automation



CI/CD



Release



Metrics



Business Service Events



Landscape

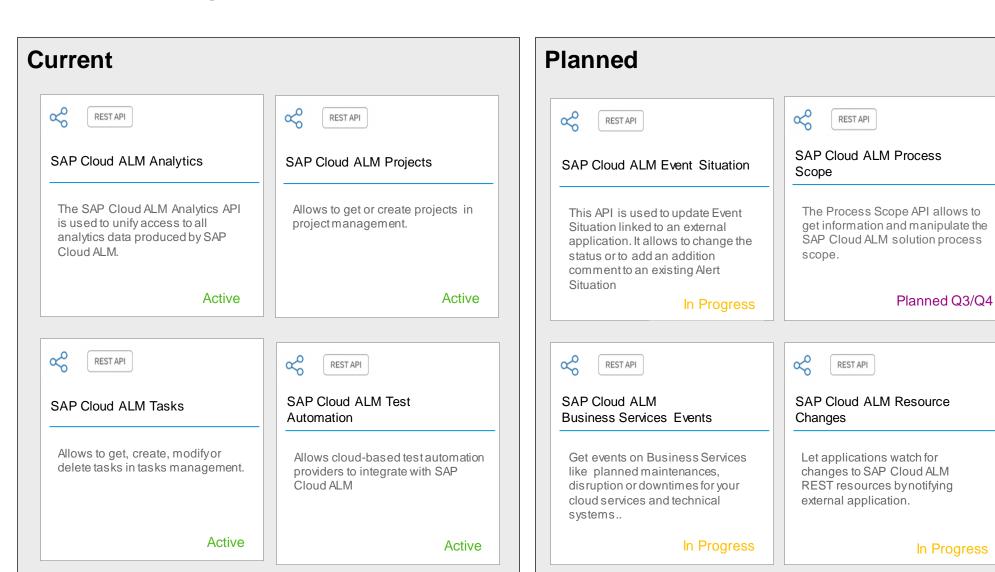


Analytics



SAP Cloud ALM generic API

APIs Catalog



REST API

SAP Cloud ALM Test Cases

API is used to manage and

manipulate test cases.

REST API

Process

processes..

SAP Cloud ALM Custom

The Custom Process API allows to

upload, manipulate, activate SAP

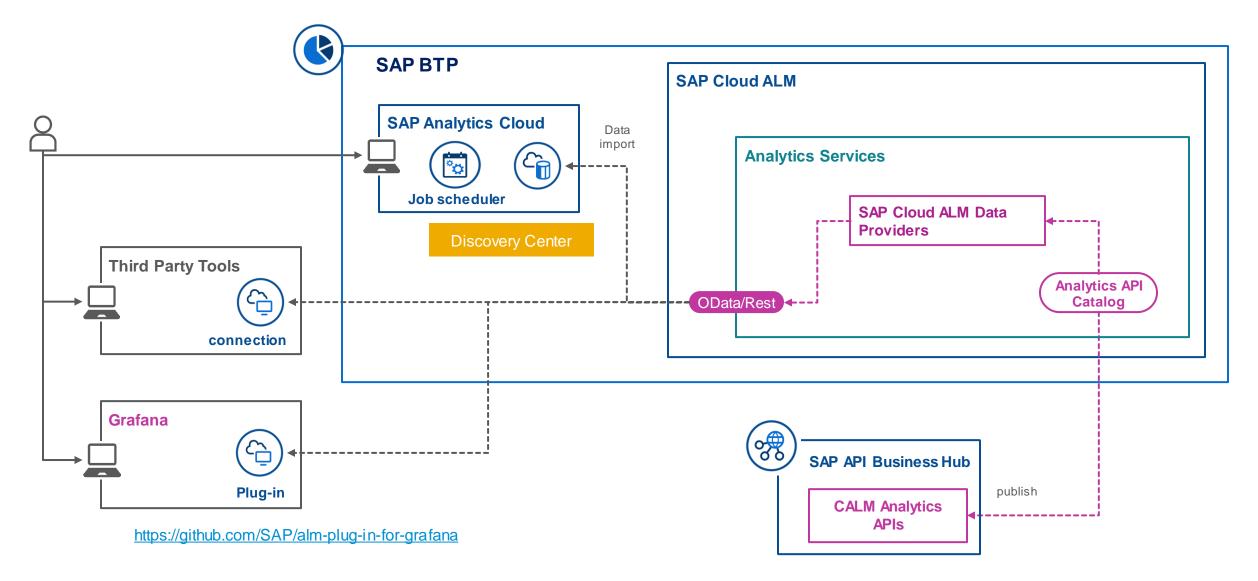
Cloud ALM custom solution

The SAP Cloud ALM Test Cases

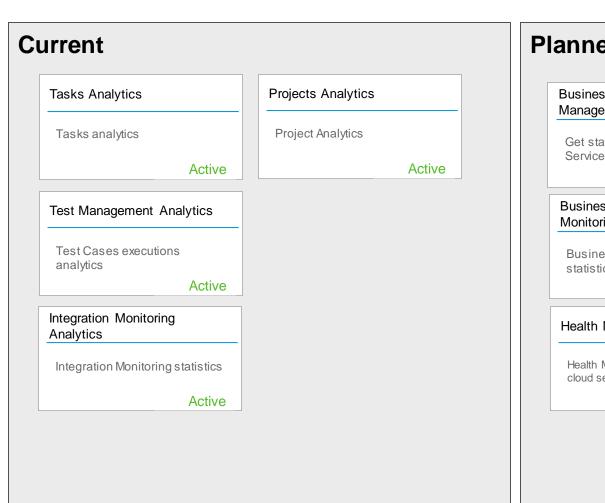
Planned Q4

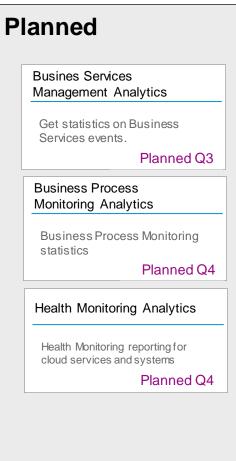
Planned Q3/Q4

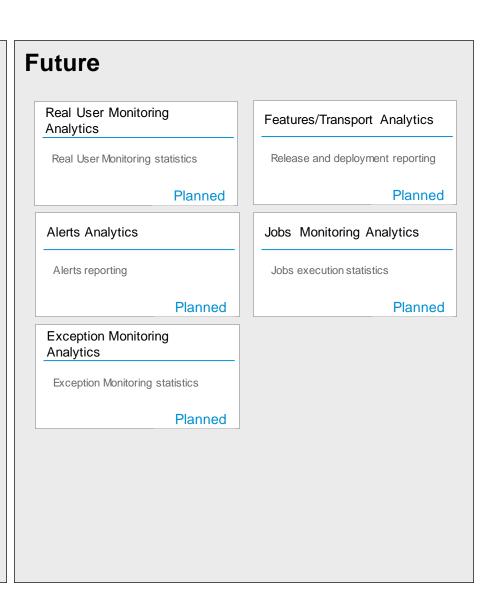
APIs Catalog: Analytics



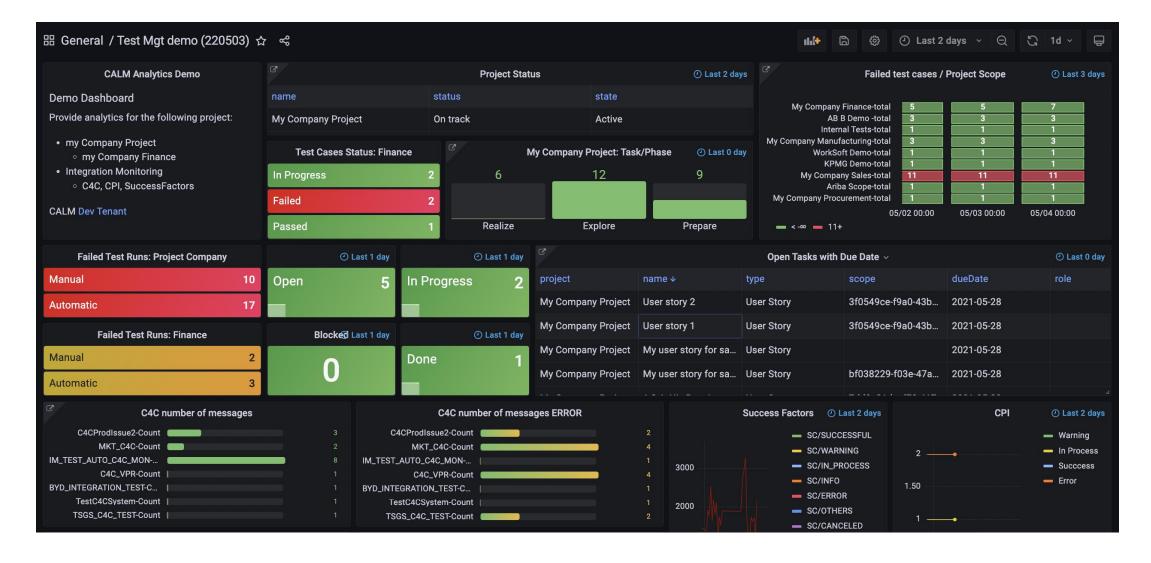
APIs Catalog: Analytics





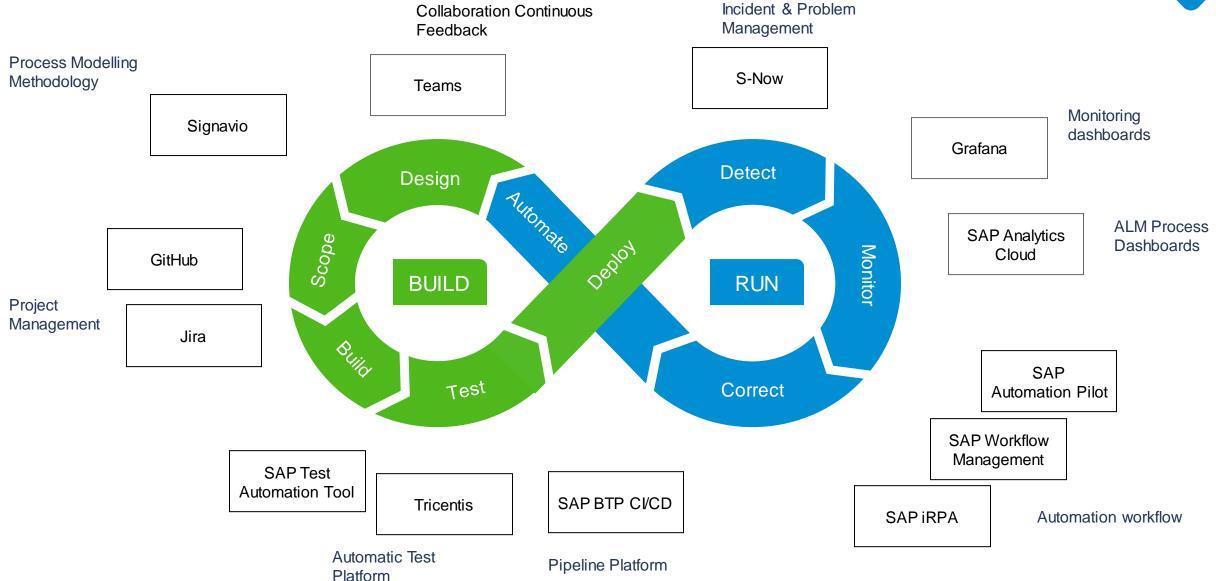


APIs Catalog: Analytics



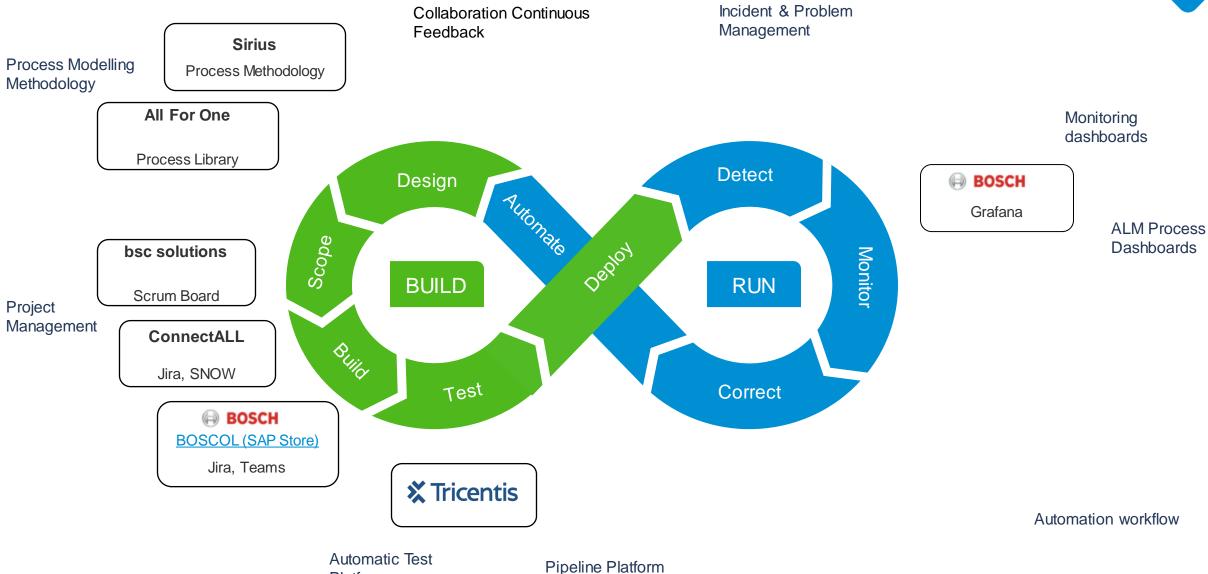
Integrated Tools





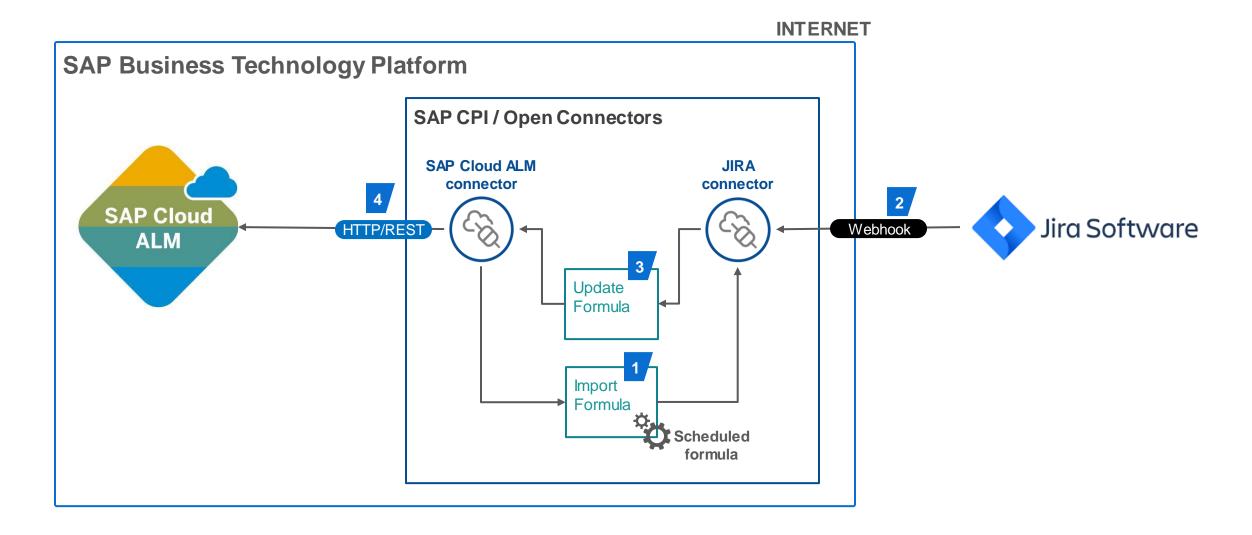
Partners use-cases





Platform

Integration Picture for Project Management



Thank you.

Contact information:

xavier.dupeyrat@sap.com



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