



# SAP Cloud Platform Business Rules

## Author, extend and automate decisions.

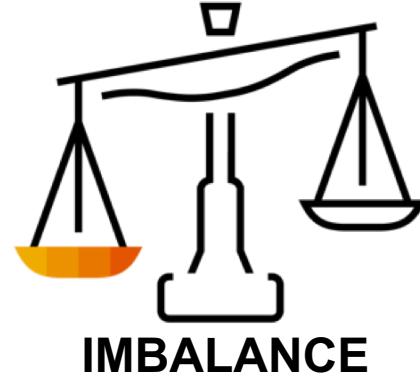
Seshadri Sreenivas

CUSTOMER

# Identified gap between market demand and technology supply in enterprises

## MARKET DEMAND

- Better **empowerment** for **line of business**
- Provide flexibility and reuse in **automated decisions**
- Drive **agility** in **extensions**



## ACTUAL TECHNOLOGY SITUATION

- Heavy **dependency** on **IT** department
- Decisions are **hard-coded** and **inflexible**
- Business logic is **cluttered**

# SAP Cloud Platform Business Rules

Rapidly build **flexible smart applications in the cloud** using SAP Cloud Platform Business Rules.

**Digitize and automate decision making** with business rules.



# SAP Cloud Platform Business Rules

Encapsulate and externalize business logic from applications

## Empower users to manage business logic independently from application development

- Model business rules and formulas in tabular spreadsheet-like decision tables
- Provide an easy-to-use web-based business rules editor for managing business rule changes
- Embed UI5 controls for decision tables into configuration apps for business users
- Implement policy changes in applications without requiring application development

## Ease developers use and management of rules with RESTful APIs

- Build and manage decision tables from code by using APIs
- Invoke the rules engine via APIs
- Reduce code and management effort for developers by externalizing business policy

## Rapidly build decision logic for workflow and extension apps on SAP Cloud Platform

- Create rules to control process extensions for S/4HANA Cloud
- Model rules to control custom workflows for SAP Cloud applications such as SAP Hybris Cloud for Customer, SAP SuccessFactors, Concur, or SAP Ariba



# SAP Cloud Platform Business Rules in SAP Cloud Platform Workflow

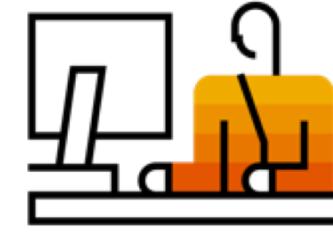
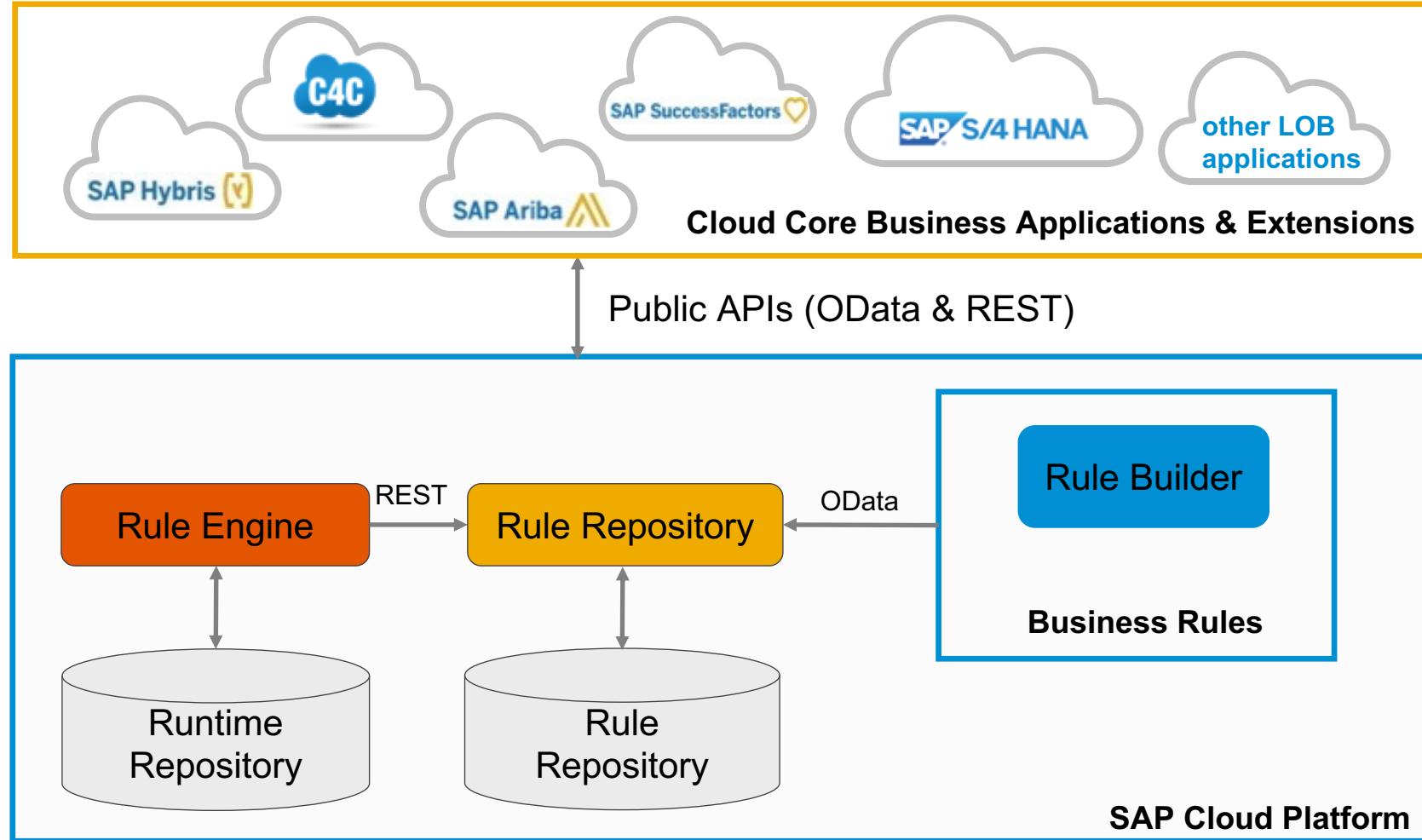
## Usage Patterns

- Start workflow based on conditions.
- Externalize decisions from process model.
- Enrich process context of Workflow.
- Decide for routing in Cloud Platform Integration, based on configuration lookup.

# Architecture



# High-level architecture



**Business Users**



**Application Developer**

# SAP Cloud Platform Business Rules

## Concepts



# Modeling Terms & Concept

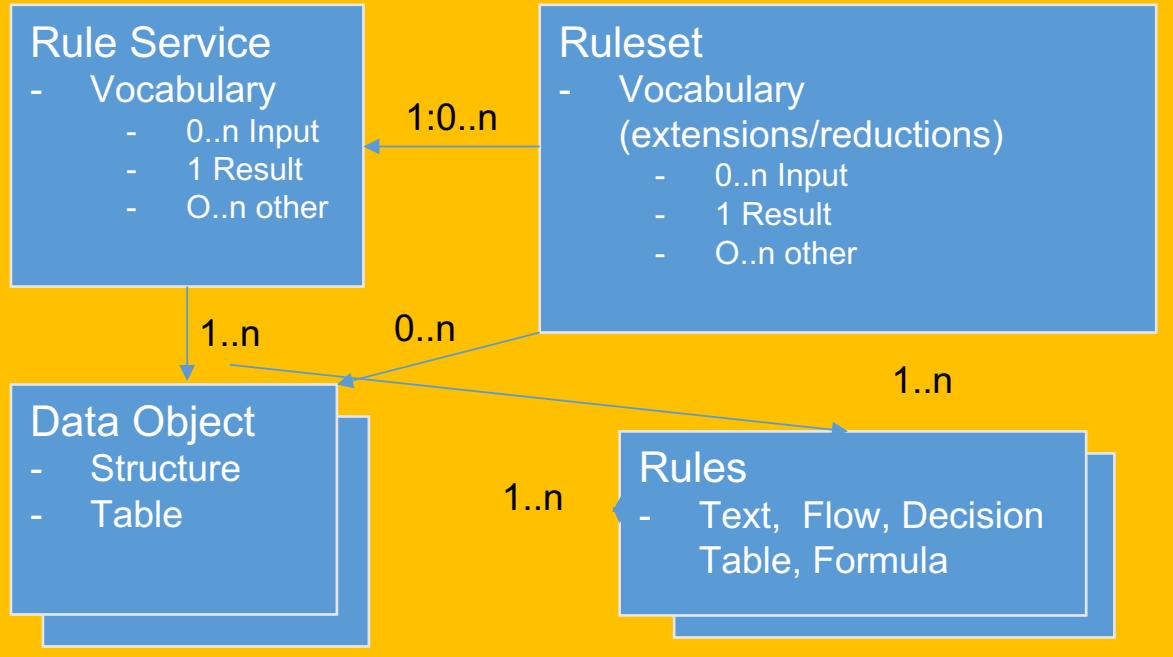


**Application Developer**

- Project
- Data Objects
- Rule Service
- Rule
- Rule Expression Language
- Ruleset



## Project



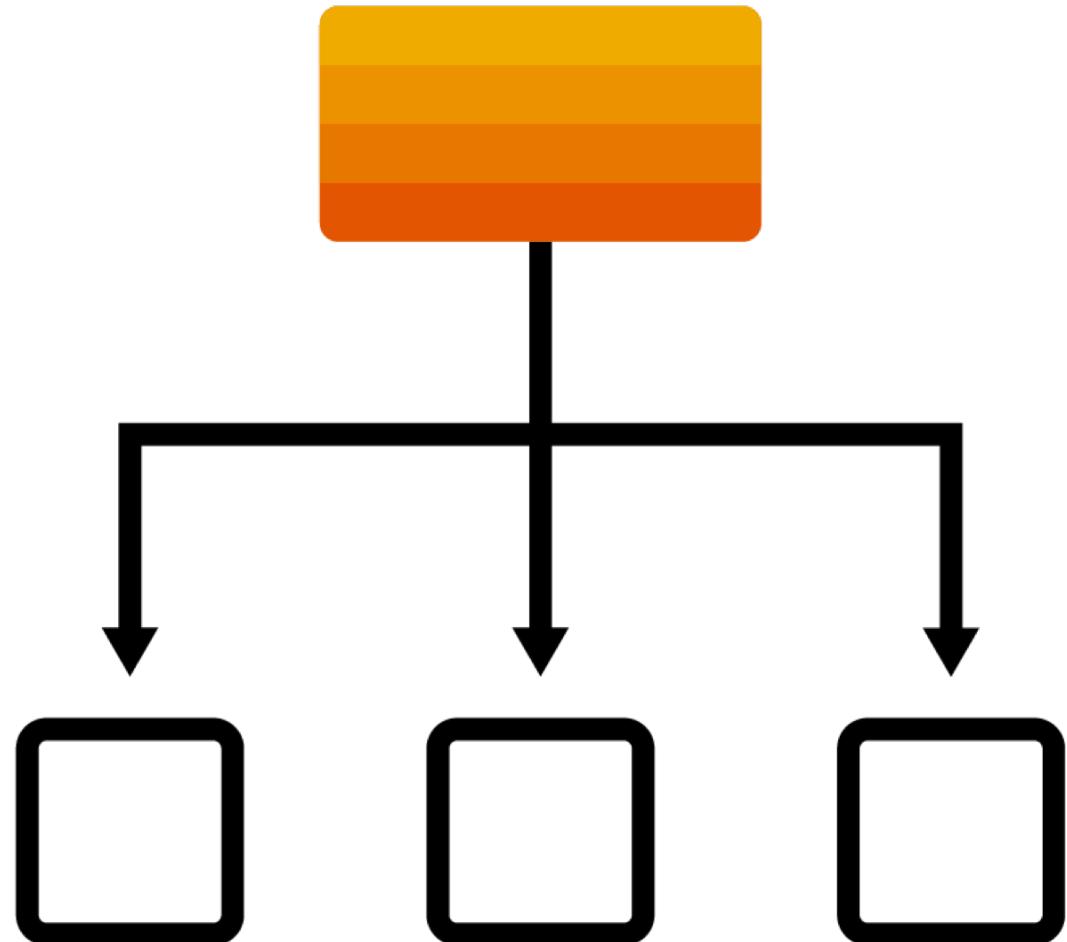
- Application calls Rule Service
  - Provides inputs
  - Expects Result
- Rule Service defines vocabulary for definition of rules logic: Inputs, Results, Other data objects
- Vocabulary is defined using data objects
- Multiple Rulesets can be assigned to Rule Service
- A ruleset can contain one or more rules
  - In future extend or reduce the vocabulary scope to enable a boundary for possible data objects, re-use rules to be used
- A rule captures a decision or business logic
  - Currently Decision Table Rule format is supported and in next iterations Text Rule, Formula Rule, Flow Rule will be added to express logic on vocabulary
- Projects group objects such as Rule Service, Ruleset, Data Object, Rule

# Demo



# Further Information

- [SAP Cloud Platform Business Rules Product Page](#)
- [Product Overview Video](#)
- [SAP Help Portal documentation](#)
- [SAP Community blog posts](#)



# Thank you.