Selecting the right middleware at Inghams Greenfield Business Transformation enabled by Rise with SAP

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Welcome!

Sumit SHARMA – Business/Digital Transformation Strategist and Program Lead

Sumit is an Independent Advisor and have 20+ years of SAP experience while delivering several Business/Digital transformations enabled by SAP in ANZ as well as Global Rollouts across North America, EMEA and India, currently working at Rio Tinto as Global Program Manager

Prior to Rio Tinto Sumit has led many large and complex programs from Business Case to BAU transition and setting up Target Operating Model while overseeing the delivery across a range of SAP ECC to S/4HANA projects in both private and public sectors like Inghams, Woolworths, Super Retail Group, Department of Justice NSW, NSW Rural Fire Services, Air Services and BOC gases.

Sumit is PMP and MSP practitioner and holds certification in SAP SCM manufacturing, holds an Executive MBA Technology from Australian Graduate School of Management and a Certificate in Strategy Execution from Harvard Business School Online and joined the Australian Institute of Company Directors recently. When/if he has spare time, he like to go for a ride on his motorbike. Cardio Boxing is his go to exercise, which doesn't help him at all dealing with two teenager boys and two boxer dogs.

ANZ-based Food Manufacturer, Inghams, began a Business Transformation journey in 2021 enabled by RISE with SAP S/4HANA. Previous to the transformation Inghams had been operating with a 20+ year-old legacy ERP, with more than 100+ applications and multiple data sources. The transformation would enable the business to sharpen its responsiveness to supply chain challenges and ensure business decisions were no longer being made in silos.

A key piece of the transformation journey was to ensure the right integration tool was being used to connect the SAP S/4HANA instance with the (now) 45+ bespoke and cloud applications, including SAP MSG, SAP SuccessFactors, SAP Analytics Cloud (SAC).

Informatica was the pre-existing integration tool, but was this right for Ingham's new SAP S/4HANA landscape and their strategic technical vision?

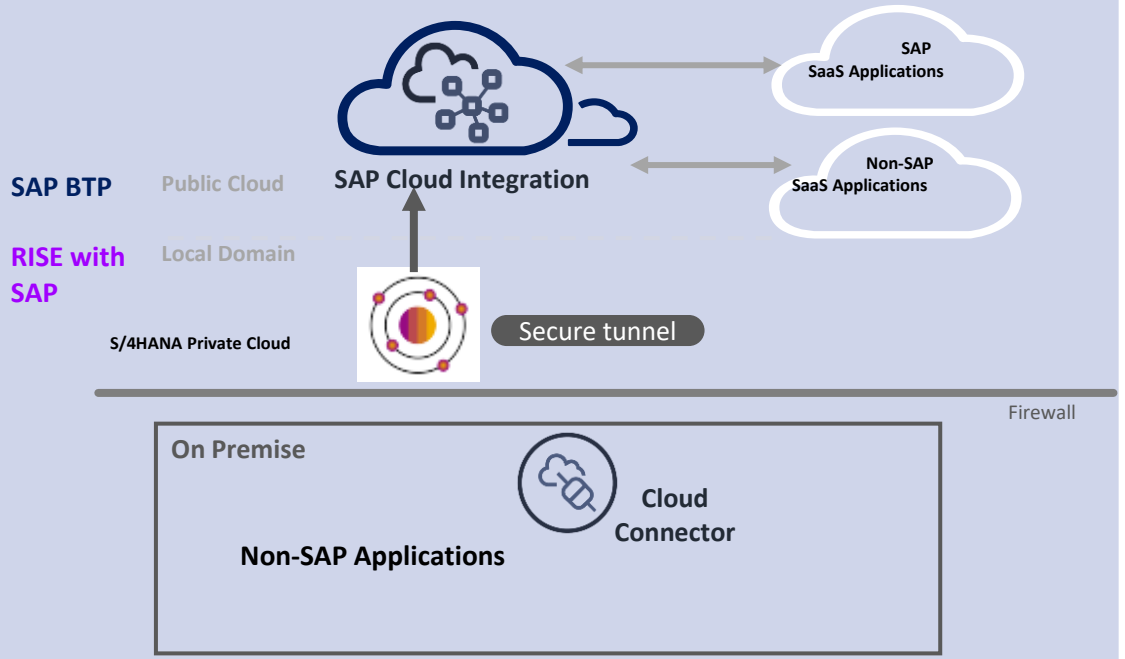
This session will share the evaluation process undertaken with Emphasys to identify the integration needs of the business, why SAP BTP Integration Platform was the right tool for the job, and how it was selected .

- SAP as an enabler - SAP BTP future capabilities aligned with Ingham's strategic technology vision
- The evaluation criteria used for integration tool selection (Informatica, vs SAP BTP integration platform vs SAP PI/PO).
- Understanding upfront costs when selecting an integration tool, versus overall TCO (it's not always as it seems)
- Considering usability and the skills required for ongoing maintenance, post-go-live
- What is the impact of integration on SAP licensing?

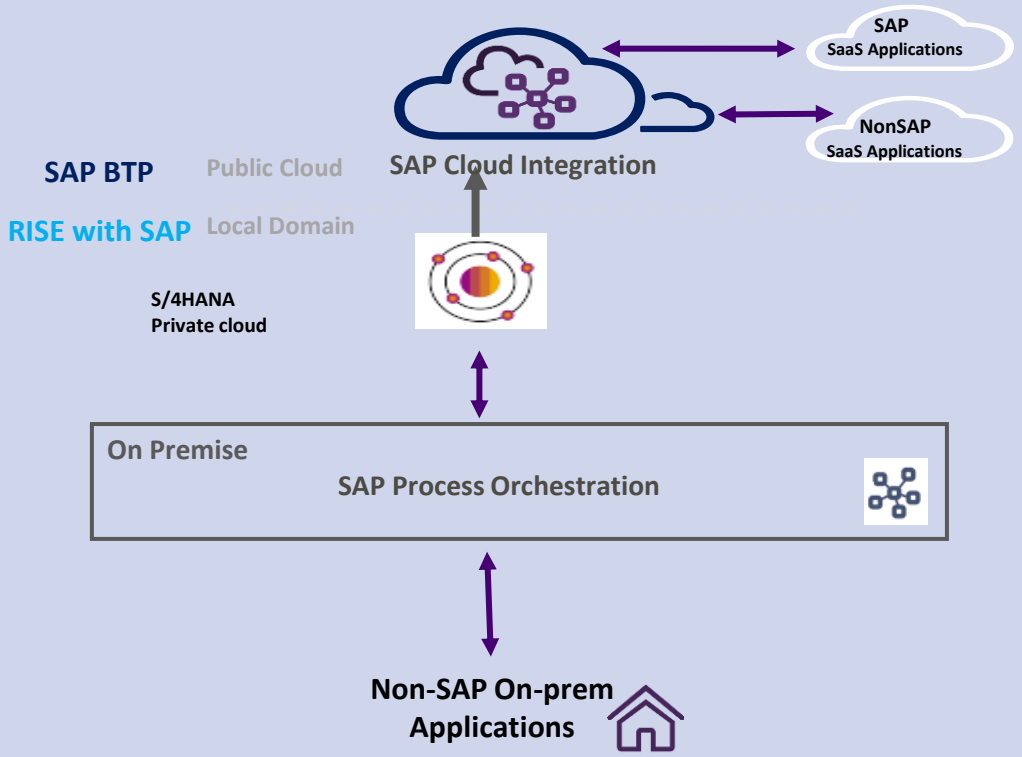
SAP Middleware options

	BTP Integration Suite	Hybrid (BTP-I + PO /Informatica)	On-premise PO
Domain	• Suitable for on-prem to cloud, cloud to cloud and on-prem to on-prem integration scenarios	• On-premise PO option will be used for on-prem to on-prem integrations and BTP-I will be leverage for cloud to cloud and on-prem to cloud integrations	• On – premise PO is recommended to use for on-prem to on –prem integrations however technically it is possible to use for cloud to cloud or on-prem to cloud integrations as well.
Exception Handling	• Exception handling especially retry mechanism of BTP- I is not very robust however same can be implemented adopting different design approaches	• Exception handling especially retry mechanism is not very robust for BTP-I however same can be implemented adopting different design approaches, but SAP PO has robust retry mechanism	• PO is very stable product with robust exception handling and retry mechanism
Security	• Cloud connector is a mechanism SAP provided to securely connect on-premise applications without opening firewall ports	• Cloud connector mechanism is a way to securely connect on-premise application without opening firewall ports	• Reverse proxy is the option for inbound traffic. Security for cloud –to-on-prem integration scenarios could be cause of security concerns and needs to assess with network and security teams
SAP Roadmap	• BTP-I is the vision of SAP	• SAP PI 7.5 standard maintenance till 2027 and extended support is till 2030	• SAP PI 7.5 standard maintenance till 2027 and extended support is till 2030

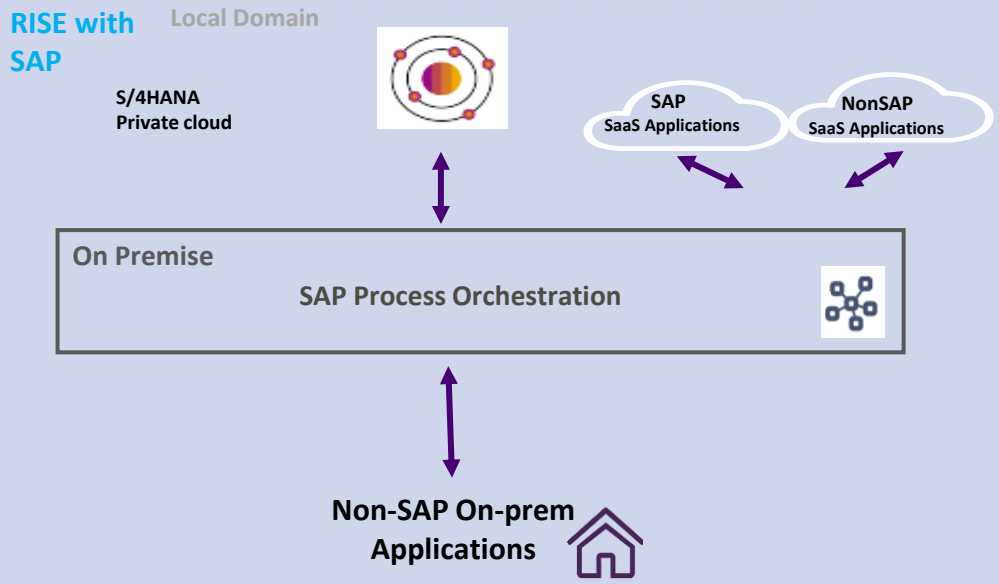
SAP Cloud Integration Scenarios (1 of 3)

Scenario #	Integration Pattern	Features / Limitations	Architecture
Scenario#1	BTP-I for all integration scenarios • Cloud to cloud integration • Cloud to on-prem integration • On-prem to On-prem integration	• Use of BTP-I for all integration scenarios • Use Cloud Connector to securely connect on-premise application without opening firewall ports Cons: • Need to design exception handling for retry mechanism • No ESR/Repository available in BTP-I to store interface definitions	

SAP Cloud Integration Scenarios (2 of 3)

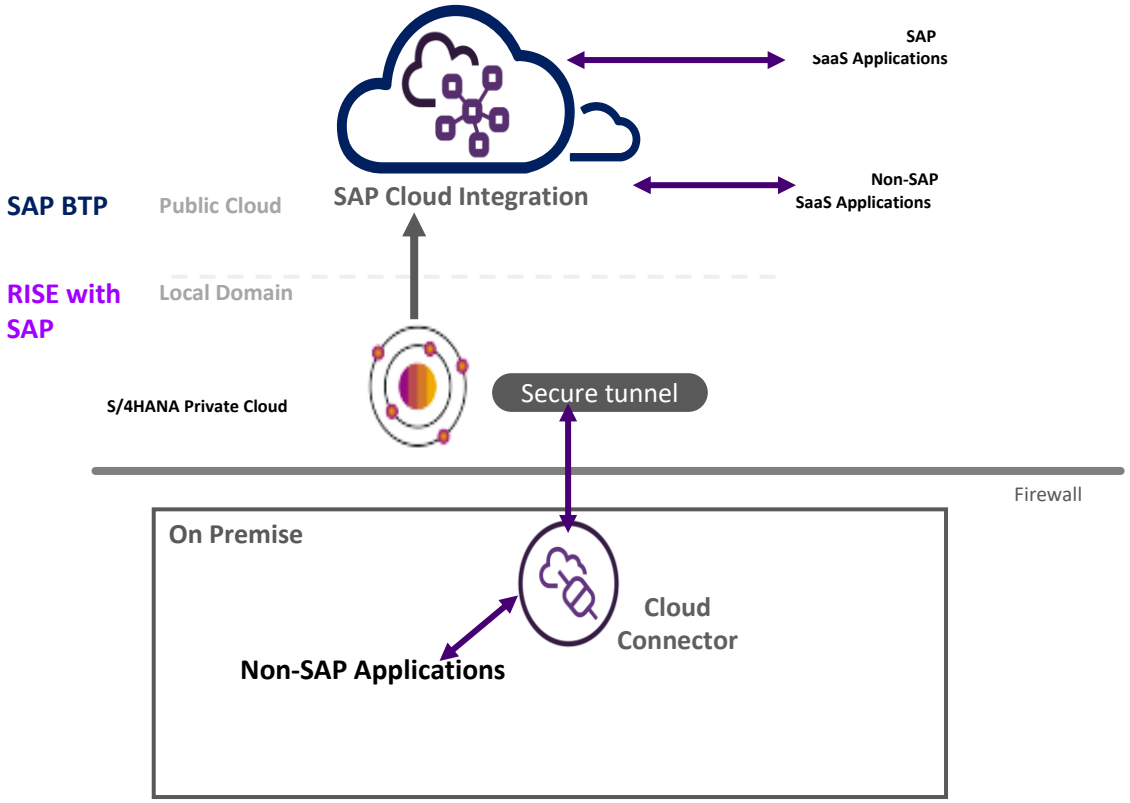
Scenario #	Integration Pattern	Features / Limitations	Architecture
Scenario#2	**Hybrid Scenario** • Use SAP – PO for high volume on-prem to on-premise interfaces • Use SAP BTP-I for cloud to cloud and cloud to on-premise integration	• Mix of both approaches • Flexibility to migrate PO interfaces to BTP-I in future if necessary • Use of CPI design but use PO runtime could be an option (Need to check compatibility) • PO can be installed in Ingham's AWS or RISE environment **Cons:** • PO installation, maintenance cost • Cost of BTP-I and PO • Operation management of 2 environment (Example: monitoring 2 env dashboard for exceptions)	

SAP Cloud Integration Scenarios (3 of 3)

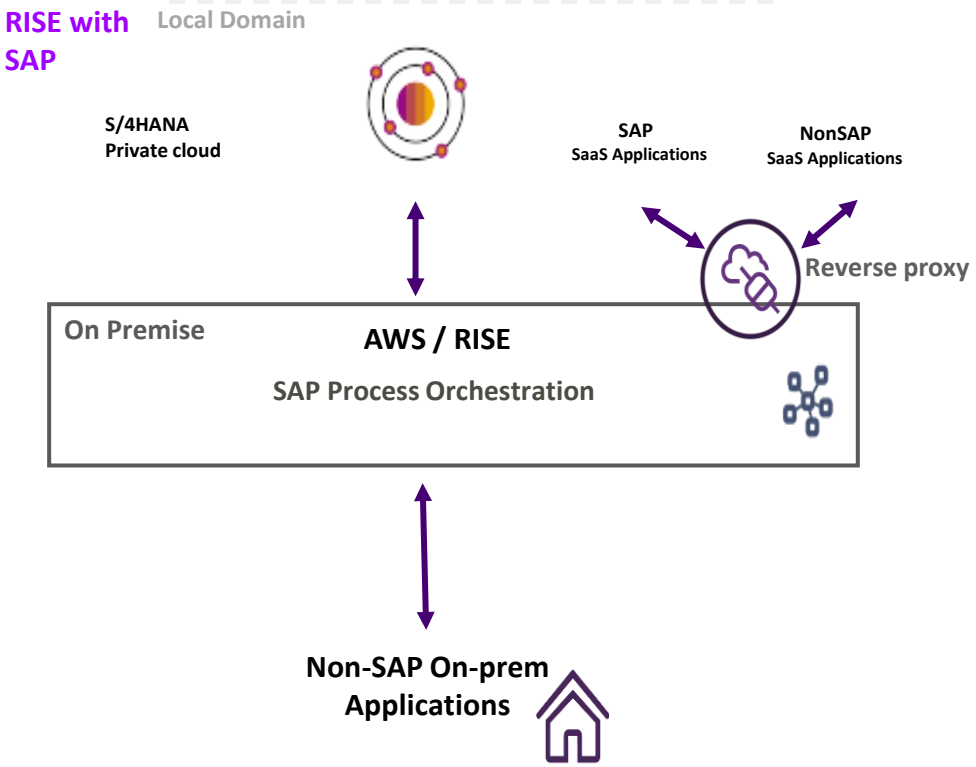
Scenario #	Integration Pattern	Features / Limitations	Architecture
Scenario#3	Use SAP – PO for all integration scenario	• Stable version • Robust exception handling with retry mechanism **Cons:** • Mainstream support till 2027 and extended support till 2030 • Security concern to open firewall ports. Use of reverse proxy. • Cost of installation, configuration and maintenance • Infrastructure and administrative tasks	

Filtered SAP middleware options

BTP Integration Suite



On-premise PO



Parameters	BTP-I		On-premise PO	
	iPaaS		Client's AWS	RISE Environment
# of transactions (Volume)	Inputs provided by Client		Inputs provided by Client	Inputs provided by Client
Infrastructure	Tenants cost (Per year):		AWS tenant cost (One time cost vs year on year)?	Tenant cost?
System provision (Ex. Installation etc.)	SAP		Client's responsibility	SAP
Maintenance	SAP		Client's responsibility	SAP
Product roadmap	BTP-I is the future vision of SAP		Mainstream support till 2027 and extended support till 2030	Mainstream support till 2027 and extended support till 2030
Migration Cost if any	N/A		PO -> BTP (Post PO SAP extended support period end)	PO -> BTP (Post PO SAP extended support period end)

Parameters	BTP-I		On-premise PO	
	iPaaS		Client's AWS	RISE Environment
Security	Cloud connector for on-premise connectivity		Reverse Proxy	Reverse proxy and transit gateway
Exception handling , Logging and monitoring	Exception handling with retry mechanism is not very robust but can be handled by design approaches		Robust exception handling and retry mechanism	Robust exception handling and retry mechanism
Peak load (Autoscaling)?	In SAP roadmap		All depends on sizing and can add the resources as needed. Confirm with Infra team	SAP CR process

Questions?

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