A Journey from SAP PO to SAP Cloud Platform Integration Suite

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About Arm

• A UK based company founded in 1990 with headquarters in Cambridge.

• Became international over years of its operations in the semiconductors industry and has a global presence nowadays.

• Main business: design of ARM (Advanced RISC Machine) processors.

• Business model: semiconductor Intellectual Property (IP) licensing.

• Products: processor IP (CPUs, GPUs, physical IP, system IP, security), IoT, software & tools.

• Industries: automotive, healthcare, industrial, infrastructure, logistics, mobile computing, retail, smart cities, smart homes, smart spaces, storage, utilities & energy, wearables.
Integration Capabilities Evolution: Past and Current

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- **2015**
  - + SAP Process Orchestration 7.4
- **2017**
  - + Mulesoft Anypoint Platform
- **2018**
  - SAP Process Orchestration 7.4 -> 7.5
- **2019**
  - + SAP Cloud Platform Integration
  - + SAP Cloud Platform Open Connectors
Integration Capabilities Evolution: Future

A growing number of cloud services’ subscriptions.

A central focus on event-driven and API-led integration patterns.

Source, distribute and subscribe for events across the landscape. Robust pub/sub mechanisms and event brokering are crucial.

Expose APIs for core business objects and operations with them.

Events and APIs don’t compete but complement each other.

Event-driven and API-led cloud-first integrations

2020+

SCP Integration Suite migration from Neo to Cloud Foundry

SCP Integration Suite – core for SAP centric integrations

Mulesoft Anypoint – core API Management, integration platform for non-SAP systems
Lessons Learnt

Product / capability mapping

- When operating a hybrid integration platform in a heterogeneous landscape, ensure that product positioning and capability mapping (product / capability matrix) is clear, mature, accepted and followed across teams.

Positioning of migration

- CPI is not a cloud deployed counterpart of PI/PO – treat migration from PI/PO to CPI as an opportunity to review integration requirements and challenge used integration patterns and technologies.

Development discipline and governance

- Ensure development guidelines and change management processes are well-defined and followed.
- Procedures shall be supported by tooling – explore what is available, identify gaps and plan your roadmap.
Lessons Learnt (cont.)

Flexibility

• CPI provides extreme flexibility in designing and developing integration flows. This opens an opportunity to fulfil integration requirements in several different ways.
• This can also lead to excessively complicated, overcustomized and suboptimal developments.
• Look for the right balance between scalability, flexibility, extensibility and maintainability of the developed solution.

Optimization

• Get outside of the comfort zone and challenge existing skills, explore platform capabilities and best practices.
• Be mindful about resource consumption and potential bottlenecks.

Support and maintenance

• Review the support model in advance. Migration from on-premise to iPaaS introduces a significant change to collaboration of support organizations – rapid and effective communication between a customer, infrastructure and support partners, and SAP is the key.
• Reconsider the toolbox available to execute daily support activities (response to alerts, monitoring, root cause analysis and troubleshooting).
Lessons Learnt (cont.)

Security

• Shift of the strategic integration platform from on-premise to the cloud introduces a ground change to network topology – plan it well in advance.
• Security mindset shall be at the heart of cloud integrations – move from on-premise to the cloud shall accelerate a review of used transport/messaging protocols, authentication methods, authorizations management, data encryption/verification, persistence, …

Collaboration with external integrated parties

• Don’t underestimate adjustments and time required to apply them by external parties. Even relatively trivial activities like a change to allowed IP addresses or to ACL, replacement of SSL certificates or keys might take time. Consider lead time and don’t leave it too late.

Pace of innovations

• Keep pace with innovations and disruptive changes but consume them at a comfortable and safe pace.
• When planning capabilities migration of the strategic integration platform, leave enough time for prototyping and exploration. Start with more straightforward integrations, and then migrate challenging ones (critical, complex, high load scenarios) gradually.
• Start small -> stabilize -> ramp up and expand.
Thank You
Danke
Merci
Merci
谢谢
ありがとう
Gracias
Kiitos
감사합니다
धन्यवाद
شكرًا
ধন্যবাদ
תודה