



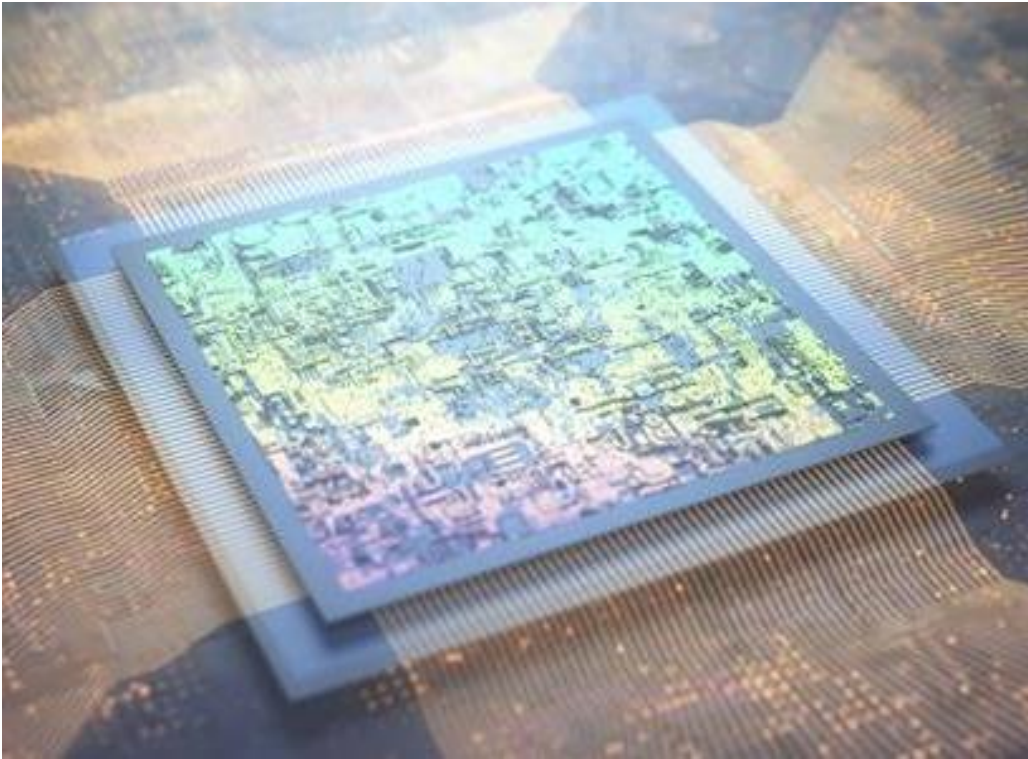
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SAP Cloud Platform Integration Suite –
Monthly Update

A Journey from SAP PO to SAP Cloud Platform Integration Suite

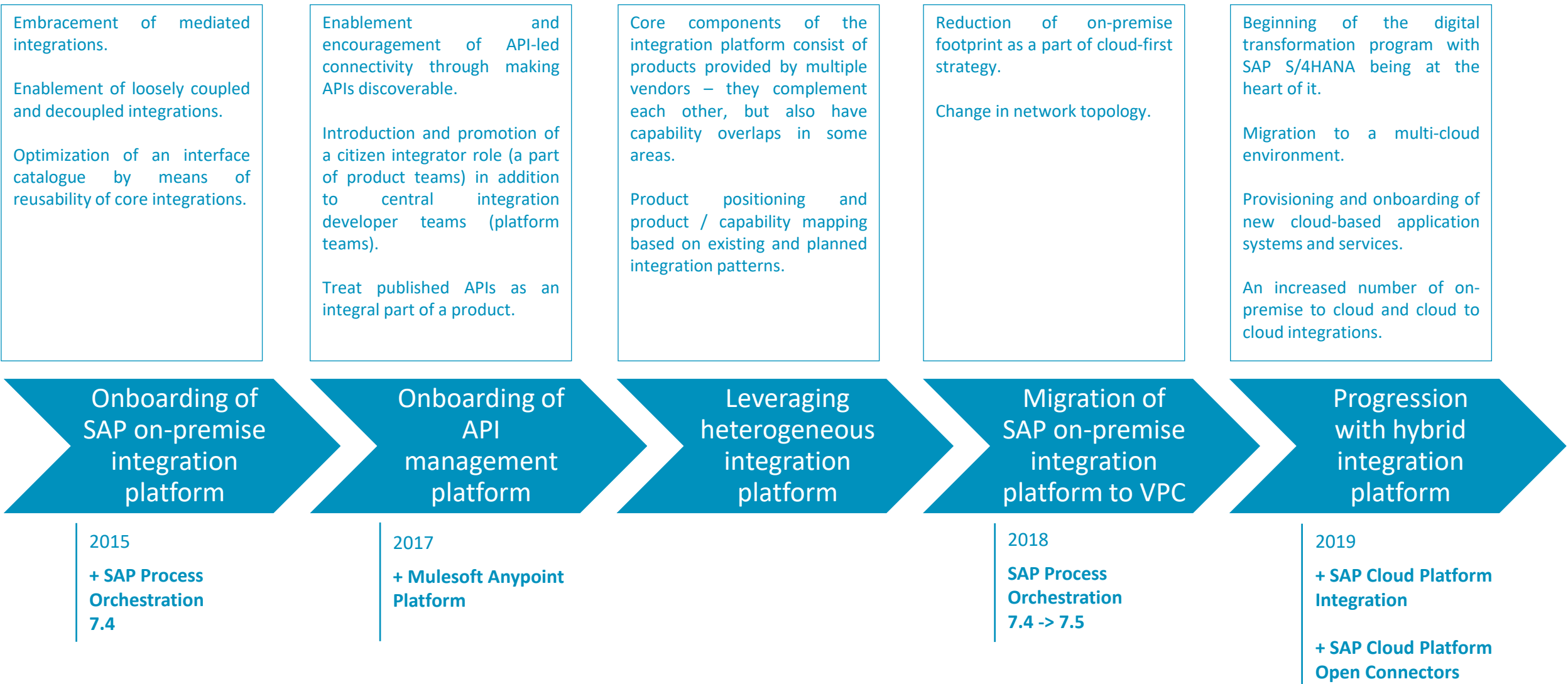
Dr. Vadim Klimov, SAP Integration Architect at Arm
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About Arm



- 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



Embracement of mediated integrations.

Enablement of loosely coupled and decoupled integrations.

Optimization of an interface catalogue by means of reusability of core integrations.

Enablement and encouragement of API-led connectivity through making APIs discoverable.

Introduction and promotion of a citizen integrator role (a part of product teams) in addition to central integration developer teams (platform teams).

Treat published APIs as an integral part of a product.

Core components of the integration platform consist of products provided by multiple vendors – they complement each other, but also have capability overlaps in some areas.

Product positioning and product / capability mapping based on existing and planned integration patterns.

Reduction of on-premise footprint as a part of cloud-first strategy.

Change in network topology.

Beginning of the digital transformation program with SAP S/4HANA being at the heart of it.

Migration to a multi-cloud environment.

Provisioning and onboarding of new cloud-based application systems and services.

An increased number of on-premise to cloud and cloud to cloud integrations.



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.

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Thank You

Danke

Merci

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ありがとう

Gracias

Kiitos

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