



Agile Integration - Der Erfolg lässt sich sehen:

Kundenherausforderungen mit Agile Integration gelöst

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Senior Solution Architect

November 27, 2018

Agenda

- Why Agile Integration?
- Red Hat's Agile Integration Concept
- The 3 Pillars of Agile Integration

Why Agile Integration ?



Hypercompetition

(Richard D'Aveni)

“ A situation in which there is a lot of very strong competition between companies, markets are changing very quickly, and it is easy to enter a new market, so that it is not possible for one company to keep a competitive advantage for a long time.

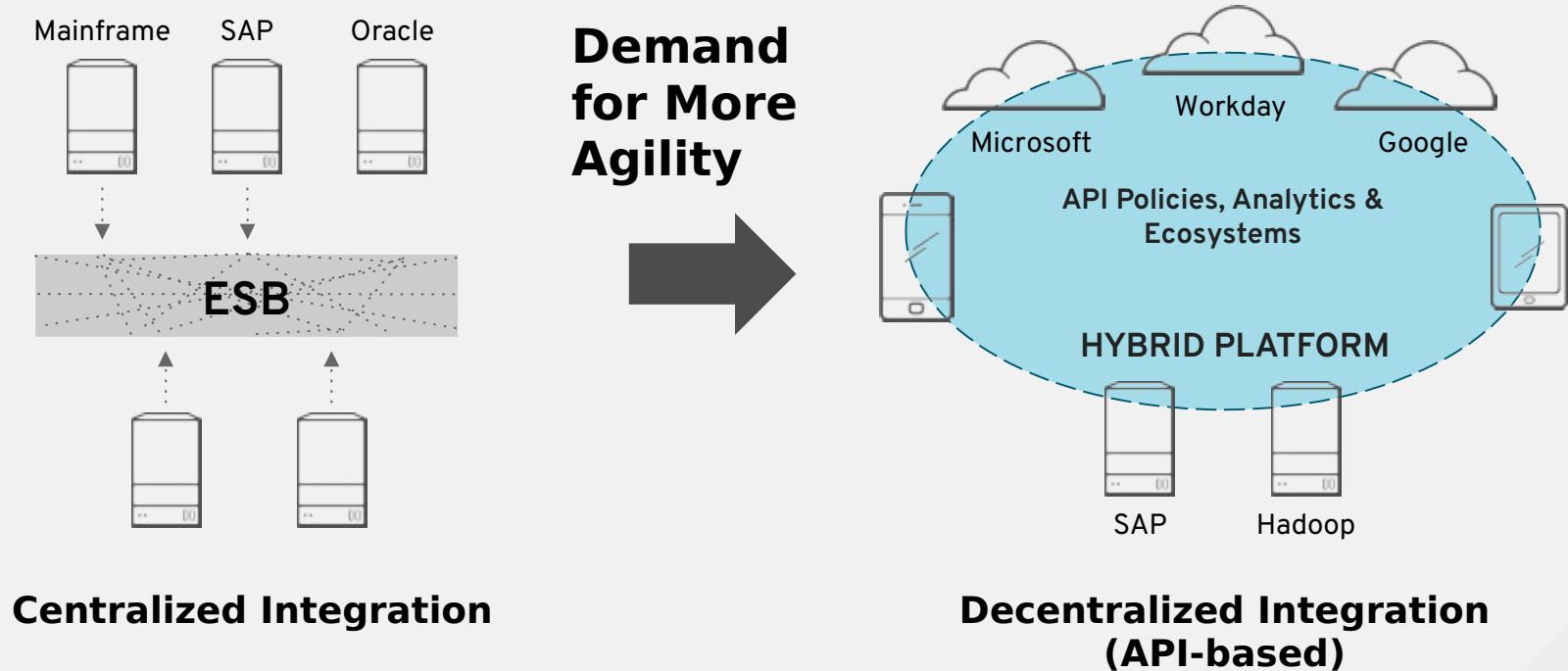
Agility becomes the most important business capability.

SPEED!



INNOVATION!

The Need for a Change in Integration Approaches

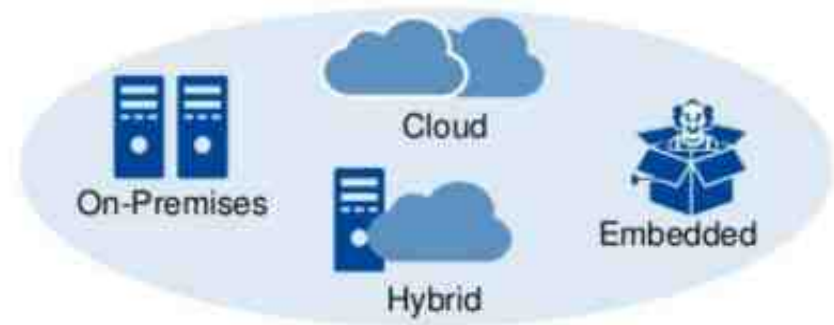
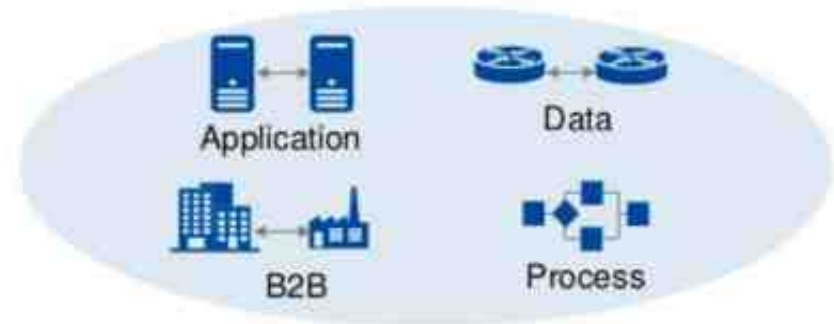


Gartner's Recommendation: Hybrid Integration

Constituents



Integration Patterns



Endpoints

#GartnerSYM

Deployment Models

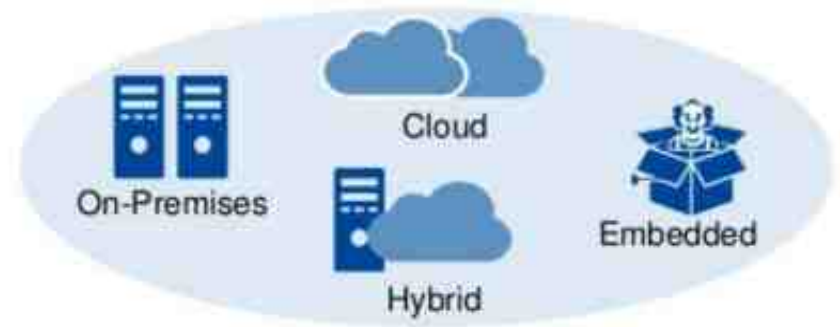
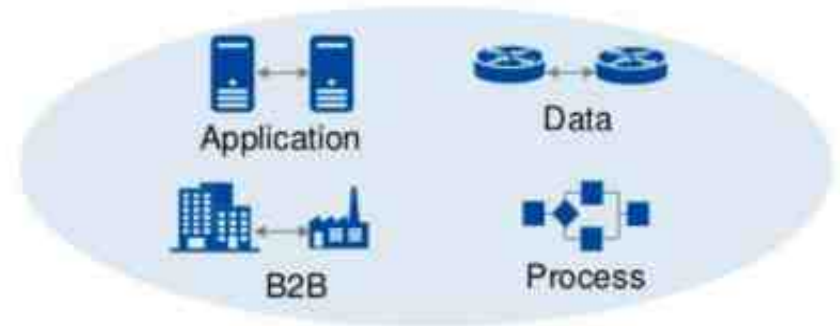
Gartner

Gartner's Recommendation: Hybrid Integration

Constituents



Integration Patterns



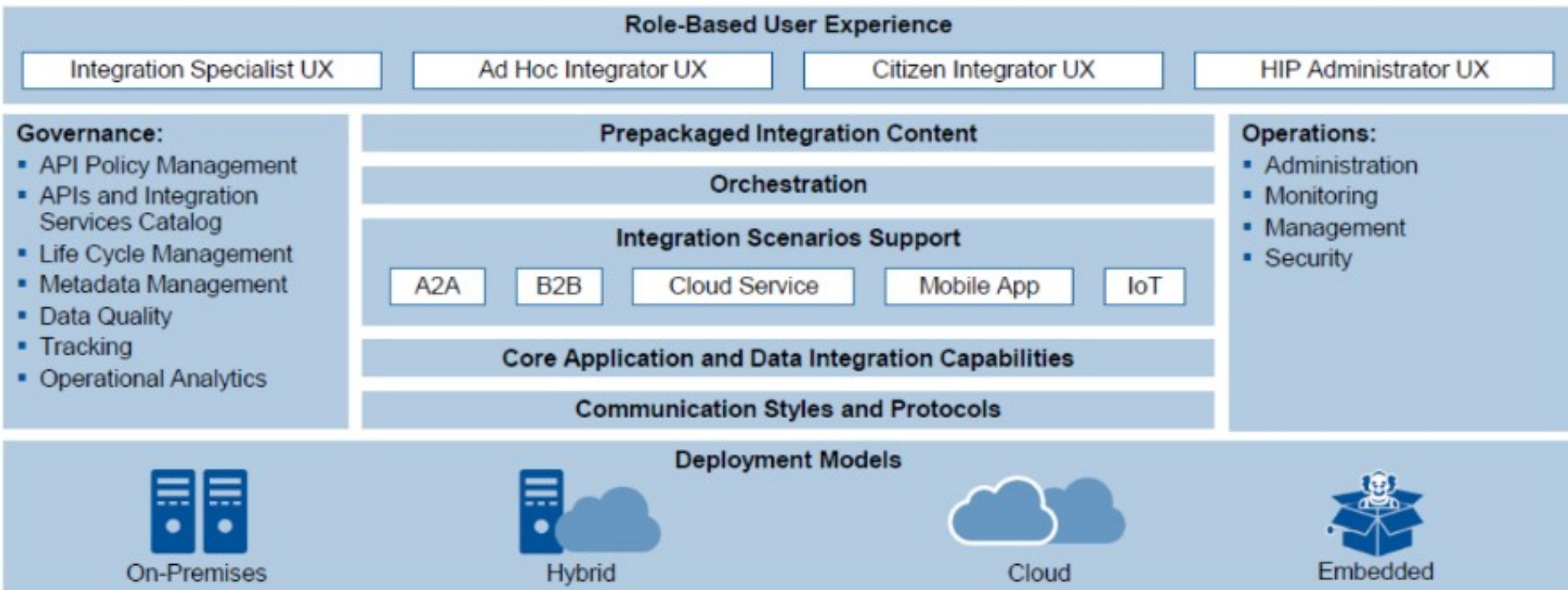
Endpoints

#GartnerSYM

Deployment Models

Gartner

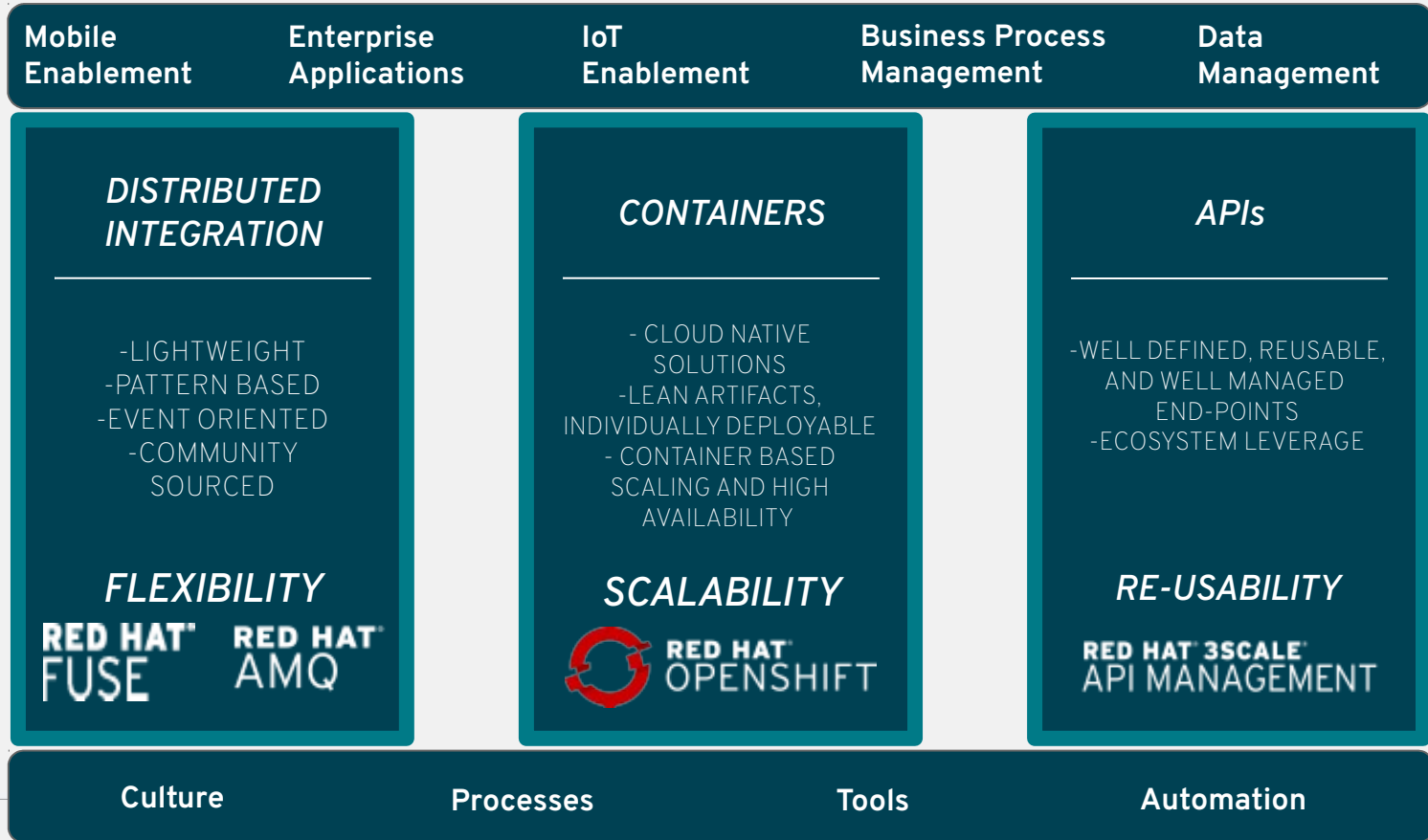
Gartner's Suggestion of a Hybrid Integration Platform Core Elements

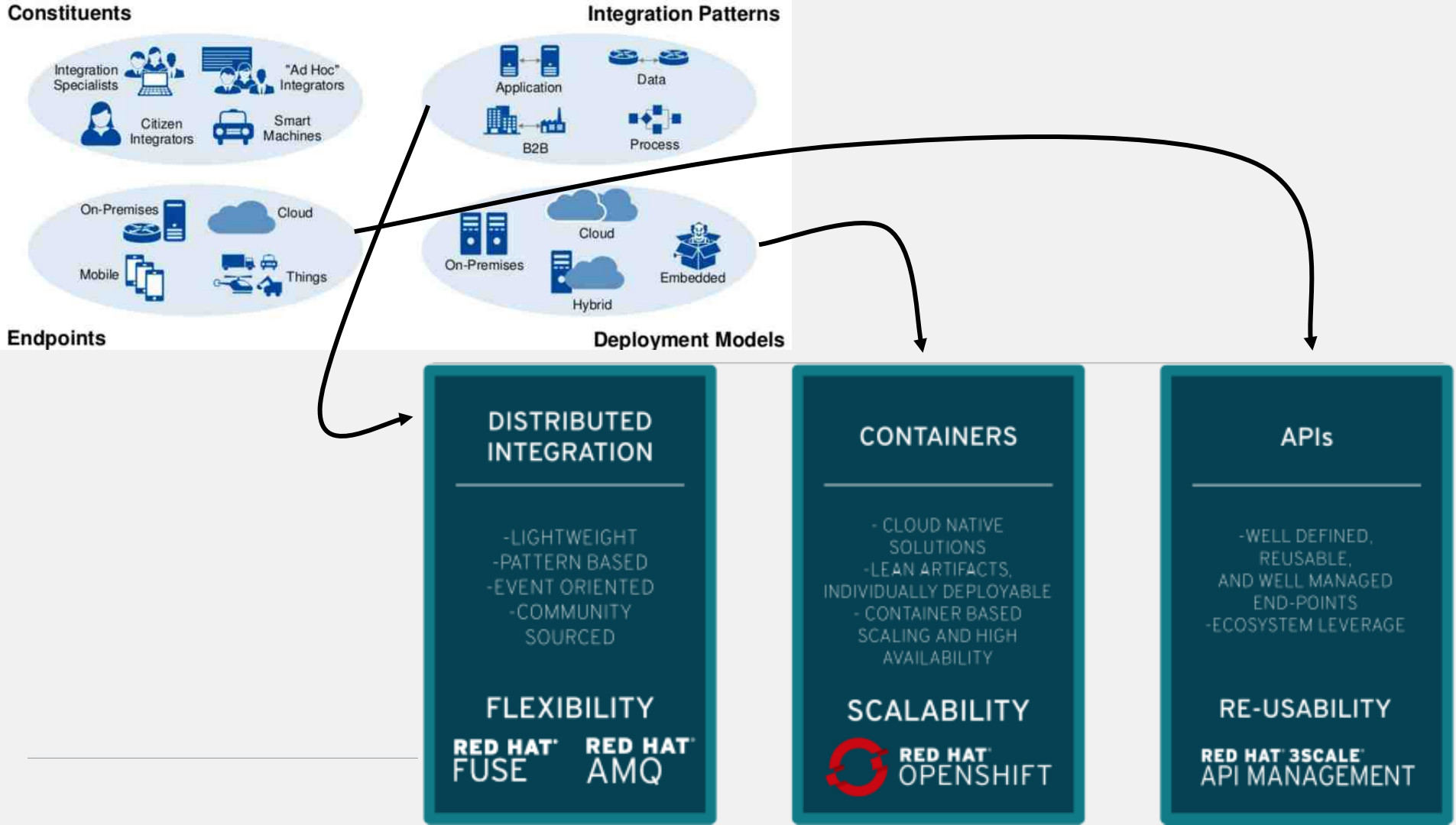


Source: Gartner Market Guide for Hybrid Integration Platform - Enabling Technologies", by Elizabeth Golluscio, Jess Thompson and Keith Guttridge

Red Hat's Agile Integration Concept

Red Hat's Agile Integration Concept





Pillar 1: Distributed Integration

Red Hat Fuse

DISTRIBUTED INTEGRATION

- LIGHTWEIGHT
- PATTERN BASED
- EVENT ORIENTED
- COMMUNITY SOURCED

FLEXIBILITY

RED HAT FUSE RED HAT AMQ

CONTAINERS

- CLOUD NATIVE SOLUTIONS
- LEAN ARTIFACTS, INDIVIDUALLY DEPLOYABLE
- CONTAINER BASED SCALING AND HIGH AVAILABILITY

SCALABILITY

 RED HAT OPENSIFT

APIs

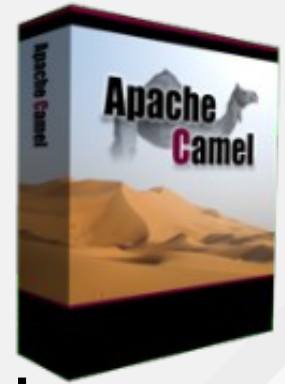
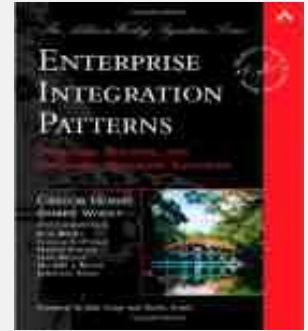
- WELL DEFINED, REUSABLE, AND WELL MANAGED END-POINTS
- ECOSYSTEM LEVERAGE

RE-USABILITY

RED HAT 3SCALE API MANAGEMENT

Red Hat FUSE = Apache Camel + Enterprise Integration Patterns and Apache Camel

- Commonly used integration patterns to design, develop, accelerate and simplify integration solution development
- Camel – most popular EIP implementation
- De-facto standard to build flexible and lightweight integrations
- Large, vibrant, growing ecosystem



Apache Camel is the de-facto integration standard

Organisational Dimension

Integration Specialists



Few Strategic
Enterprise Projects



Status



> DescriptionURLEntities

Email

FavouritesCount

FollowRequestSent

FollowersCount

FriendsCount

GeoEnabled

Id

Lang

ListedCount

Location

MiniProfileImageURL

MiniProfileImageURLHttps

Name

OriginalProfileImageURL

Contact



Description

Email

> EmailBouncedDate

EmailBouncedReason

Fax

• + FirstName

HomePhone

IsEmailBounced

Jigsaw

JigsawContactId

Languages_c

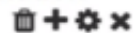
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LeadSource

Data Transformation



Action

Action

Separate

Separator:

Space

Targets

Target

FirstName

Transformation

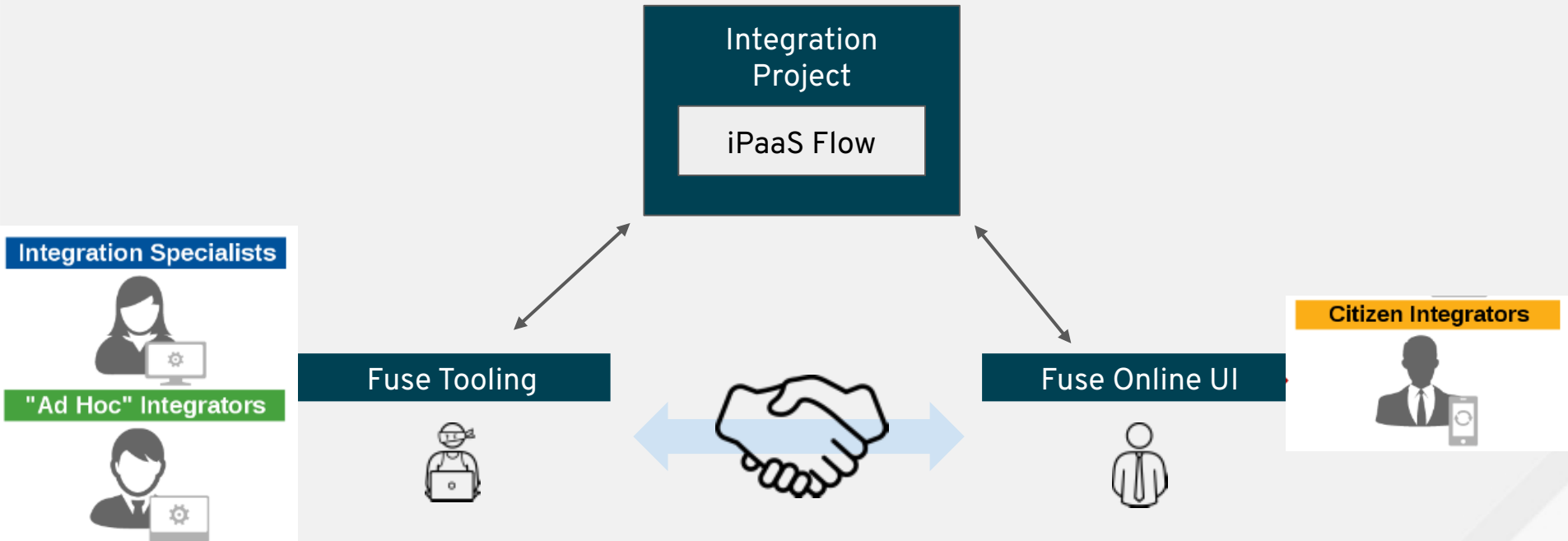
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Target

LastName

Transformation

Distributed Integration Development



Pillar 2: Containers and Container Platform Red Hat OpenShift

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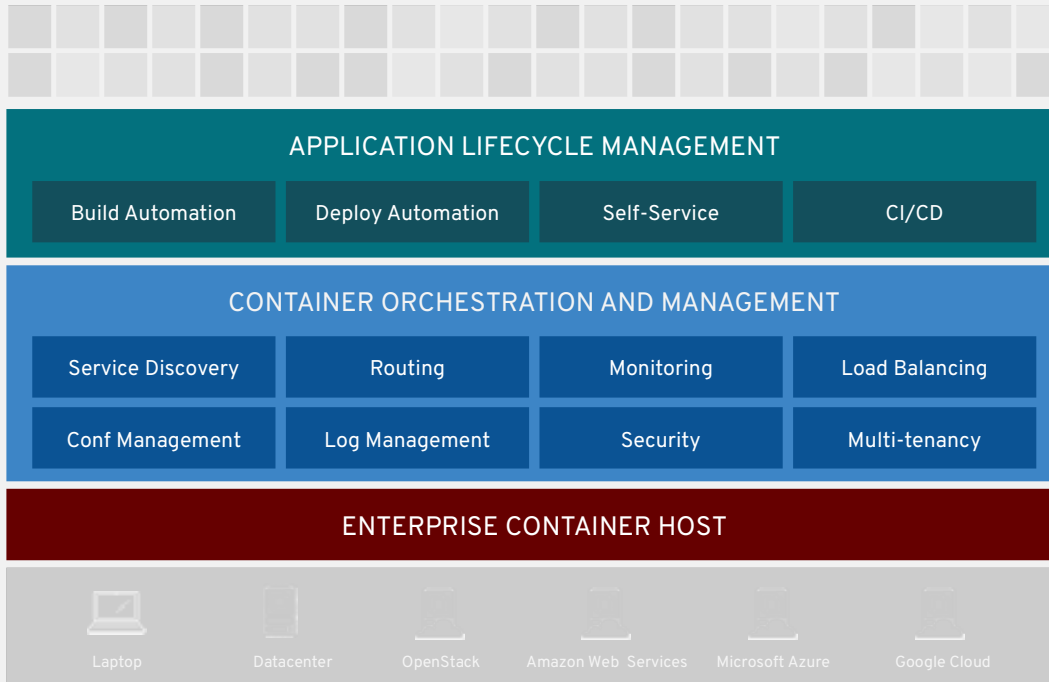
RE-USABILITY

RED HAT 3SCALE API MANAGEMENT



A secure and enterprise-grade container application platform based on **Kubernetes** for traditional and cloud-native applications

CLOUD-NATIVE CAPABILITIES WITH RED HAT OPENSIFT



ANY
CONTAINER



RED HAT
OPENSIFT

ANY
INFRASTRUCTURE

Pillar 3: APIs and API Management

Red Hat 3scale

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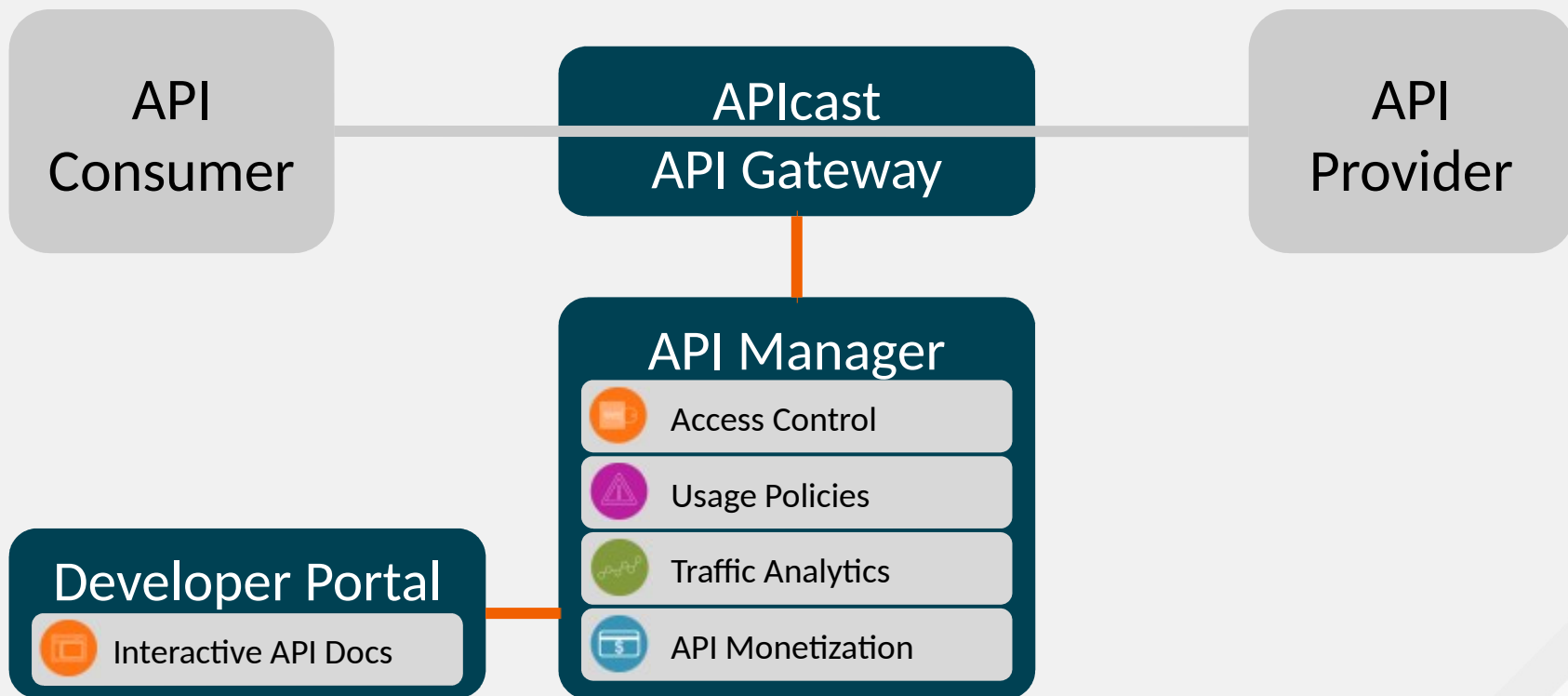
APIs

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RE-USABILITY

RED HAT 3SCALE API MANAGEMENT

Red Hat's API Management Solution (3scale)

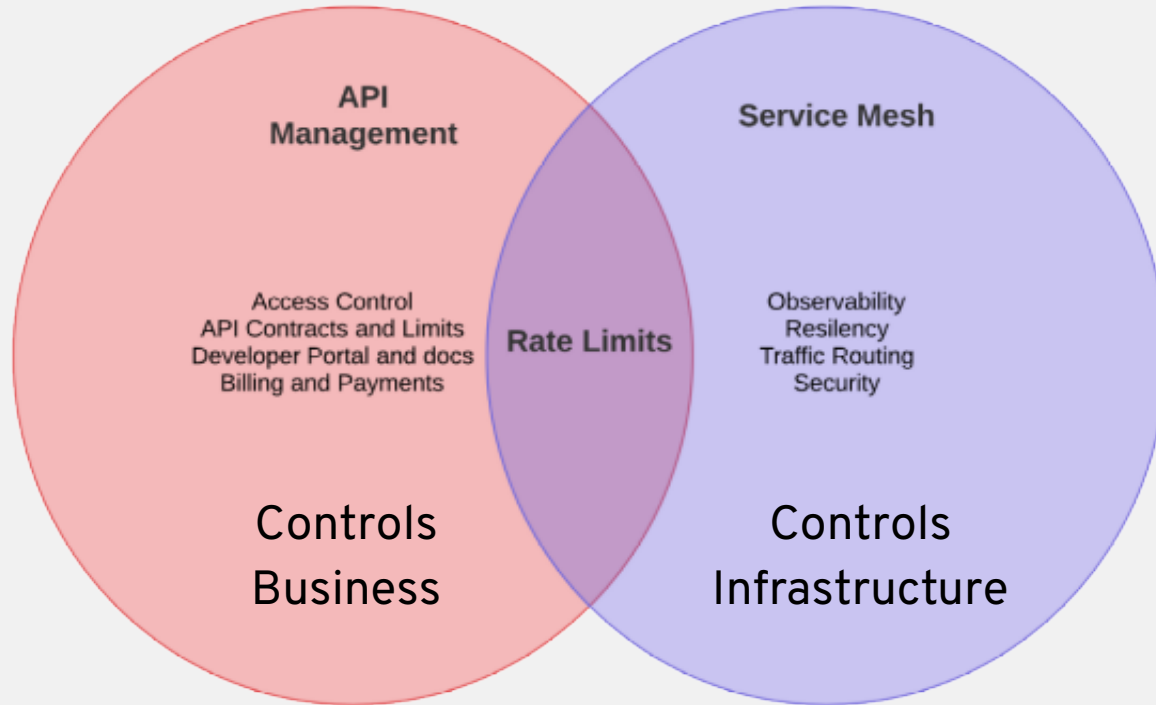


**SERVICE
MESH**

**API
MANAGEMENT**



SYMBIOSIS: API MANAGEMENT AND SERVICE MESH





**Analyst Reports
and
Customer References**

Gartner Magic Quadrant for Full Life Cycle API Management 2018



Enabling Agile Integration With a Distributed Integration Platform

Published: 21 September 2018 **ID:** G00368277


Analyst(s): Matt Brasier

Traditional platform ESB architectures hinder the operational and architectural agility of integration tasks. Technical professionals should use a distributed integration platform to enable containerized, agile integration, based on DevOps principles.

Key Findings

IDC ROI STUDY

Red Hat JBoss Fuse delivers an average three-year ROI
of **488%** in a payback time of just 8.2 months



51%

more applications
integrated per year



41%

fewer developers needed
for application integration



34%

lower cost than previous
integration solution

Source: The Business Value of Red Hat JBoss Fuse Middleware.
IDC

A decorative graphic in the background. On the left, there is a stylized representation of a keyboard with several keys. On the right, there is a bar chart with several vertical bars of increasing height from left to right. The main text 'Schiphol' is overlaid on these graphics.

Schiphol

Amsterdam Airport



Lufthansa



AVIATAR – Our innovative and holistic platform for the entire aviation industry

AVIATAR offers an extensive variety of digital products and services for airlines, MROs, OEMs and lessors by combining multiple apps in one place. While each single app provides value in its stand-alone version, it is the interplay of those apps, which creates the unique value proposition for the individual user. AVIATAR has three main characteristics:

Open. Modular. Neutral.

Key Take-Aways

Red Hat offers a comprehensive API Management Platform that is based on Agile Integration principles.

Agile Integration is based on the three pillars: distribution, containers, APIs.

The key benefits include:

- Flexible, API-based API management with gateways, managers, portals
- Integration/transformation engine with support of different user types (citizen integrator)
- Library of integration patterns and connectors
- Container platform for hybrid cloud deployment with rich DevOps capabilities
- Identity management, business process management and automation extensions



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