Implementing an API Architecture

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Innovation is going to the Cloud...

55% of CIOs indicated that by 2020 they will structure more than half of their applications as SaaS or manage them in a public cloud infrastructure.

—Gartner Webinar; Cloud Management in the Age of Digital Business
All teams will henceforth expose their data and functionality through service interfaces. All service interfaces, without exception, must be designed from the ground up to be externalizable. That is to say, the team must plan and design to be able to expose the interface to developers in the outside world. No exceptions.

—Source: “Jeff Bezos API Mandate”, Amazon
But Why Are APIs On The Rise?

The Need: An API centric layer to act as the connectivity tissue
There is an API “Gap” emerging

APIs are evolving both in the way they are structured and how they are used.
There is an API “Gap” emerging

Microservices are taking the world by storm
There is an API “Gap” emerging

The Internet of Things requires much more than “plain” APIs
There is an API “Gap” emerging

Getting business value out of APIs requires choreography, transformation and routing
Blurring of The Lines for API Creation & API Management

The lines between API Creation and API Management are blurring
You need integration capabilities to solve these problems, but *not* in a gateway.
Integration and API management are no longer separate in the cloud.
Integration and API management are no longer separate in the cloud

Analysts and customers are confirming this
Introducing TIBCO Mashery Enterprise

TIBCO® Cloud Integration

Cloud Connect  Create APIs  Integration Flows  Transforms

TIBCO Mashery®

Manage Partners  Manage Traffic  Productize APIs  Analytics
Mashery & TIBCO Cloud Integration, Better Together

Create APIs

Productize APIs

Distribute APIs

Technical Orientation

Business Orientation

Operations Orientation
Incorporating New Architectures

Microservices

Backend for Frontend

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By 2020 there will be 50 billion connected devices.

How do you handle all this data?
There Are Emerging Needs For Streaming APIs

Different patterns have to emerge to capture and act on data!

The answer is Streaming APIs
We Need To Connect Billions Of New Smart Devices

A Bank is looking to develop APIs for automation and ATM transactions using a smartwatch.
The virtuous end to end lifecycle for APIs as connective tissue

**Conceive**
- API-First
- Collaboration

**Build**
- Zero-Code
- DevOps

**Manage**
- Single Pane of Glass

**Consume**
- Developer Portal