

# API Governance Center

Colin Ball : 8-10 minutes : 3/27/2024

## Elevator Pitch



**Definition:** The API Governance Center is Capgemini's home-grown software solution to provide automated governance for the large number of APIs being developed in the organization by different teams and third parties. The use of this solution brings in a single-window dashboard to track all the APIs in the system, introduce higher quality coding through uniform standards, reduce delays due to manual approvals, and avoidance of duplicate APIs. This is a very useful software especially where **API Factories are running**, **Cloud Migrations** are going on, or **Centers for Enablement** are being established.



**Why Capgemini?** We have a deep domain expertise with **20+ Years** of FS experience, valuable thought leadership in Banking and Insurance Domain with our **World Reports**. We have implemented **50+ API engagements** across the globe on leading API technologies such as MuleSoft, IBM IIB, SpringBoot



### External Recognitions:

- IT Service Provider of the Year 2021 – **Everest**
- Leader in Open Banking IT Services PEAK Matrix Assessment 2020 – **Everest**



### Business Issues:

- No single view dashboard available to track the APIs being developed by teams
- No catalog of all the APIs
- Inconsistent quality of API coding standards
- Duplicate APIs not being detected
- Manual approvals and workflows of APIs



**Best-in-class partnerships:** MuleSoft, IBM IIB, Pivotal



### Our Offer Stack:

- API Governance Assessment
- API Governance Definition
- API Governance Setup
- Project Onboarding
- Continuous enhancements



**Did You Know?** The API Governance Center can reduce the **development time by 20-25% per API** due to the automated workflow and self-service approvals

## The Business Goal



## The Business Vision/Goal

As several financial institutions have opened up their data and systems to build third-party APIs, the governance and standardization of these rapidly-built APIs has become a challenge. Federated teams deliver these different APIs, approvals by SMEs are usually manual, ad-hoc and isolated, there is no single view of all the APIs and their costs, dependencies and benefits. Organizations need a single view/dashboard of all the APIs and also provide a standardized governance model to all the development teams, using automation and best practices.

#Governance #Standardization #Compliance #Insights



## Business Issues

### 1. Lack of Standardized Workflow and Automation in API Governance:

There is a limited awareness and lack of common understanding on API standards, there is no self-service capability available to validate compliance to standards. SME bandwidth is limited and there are delays in implementation while seeking approvals from the governance team. An automated single-view dashboard offering details about development timelines, costs and other important insights is not available.

### 2. Inconsistent development standards across APIs:

Most financial institutions face a lack of consistency & quality in the specification and development of APIs and the details of development are not easily available.

### 3. Limited reusability of APIs:

There is no easy mechanism to isolate duplicate APIs and APIs with overlapping capabilities or synergies. There is also no availability of a central repository or API Catalogue for reusable components and reference materials.



## The Solution

An automated API Governance Center provides standardized governance, reusable API libraries and saves time

- The API Governance Center is a home-grown software solution provided by Capgemini. It incorporates the industry-wide API standards & best practices, which are codified as rules in the API Center. These rules can be customized to the organization's specific needs and ensure adherence to business objectives
- It allows rules and standards to be enforced via tool-based governance workflow, as API artifacts become ready across the lifecycle
- It automatically enables developers with a self-service capability to validate their API specification for higher code quality, better standardization and faster approvals while decreasing dependencies on manual approvals and delays.
- Provides reusable templates, components and sample projects while avoiding duplicate APIs
- Provides single-view dashboards to see the progress, costs and dependencies of APIs



## Our Approach : Educate – Enable – Enforce

- **Educate:** Evangelize the API standards and operating Model to the stakeholders
- **Enable:** Provide reusable templates and embed SMEs in the overall governance model
- **Enforce:** Implement the tool to ensure high code quality, adherence to API standards and avoidance of duplicate APIs

## Client Value Proposition



### Client Benefits / Business Value

- **Governance Visibility:** Provides all the governance related information – approvals, compliance reports & insightful dashboards at enterprise level
- **Consistency in API standards:** Ensures single source of standards and governance across the life-cycle of APIs, and maintains consistency across projects using automation
- **API Catalogue:** Provides a library of APIs searchable by key metadata which can be leveraged for decision making & planning
- **Reduced Time to Market:** Saves 2-5 days of elapsed time per API due to workflow automation & developer self-service
- **Industry Best Practices:** Validates if code is compliant with industry best standards and local compliance rules
- **Automated Effort Estimation:** Calculates efforts as well as compare actuals once the development is done
- **Migration Assistance:** Provides tooling for the governance team to analyze, plan & build migration roadmap and estimates for existing apps



### Why Capgemini?

- **Proven API consulting and implementation experience:** 50+ API engagements across the globe on leading API technologies. We have a strong technical expertise in opening the API Economy, API Governance Center, API Factories, Cloud Migrations, Open Banking Platforms & API Security as well.

- **API Center is a Capgemini home-grown solution: It incorporates the vast experience and learnings from various engagements as pre-built rules in the tools. It as the ability to not only provide all the standardization benefits but also reduce the API development time by 20-25% per API.**
- **Best-in-class Partnerships: Our solution is supported by our partner ecosystem, including MuleSoft, Pivotal and IIB**
- **Analyst Recognitions: Leader in 2018 & 2020 Open Banking Everest Peak Matrix. Leader in the Everest Group PEAK Matrix™ for Digital Services in Consumer Banking**

### **Clients on this journey**

- **HSBC – Mule API portfolio complexity assessment API Migration from mule to spring boot, automated conversion tool – in progress\***
- **Malaysian Bank – Open Banking transformation journey along with API Governance Center**

### **Opening the API Economy for a Malaysian Bank**

#### **Business Challenges:**

The bank was undertaking a digital transformation journey & readying itself for Open Banking. The existing business services were being exposed as APIs for consumption by their mobile and other digital channels. They clearly needed to secure, analyze & monitor the external access to the resources which were being accessed by both internal and external applications. They were also looking to build the ability to measure, monitor and articulate the business value of APIs

#### **Capgemini Solution:**

- **API Discovery – Understanding of business services, API Standards, processes, identification of resources and building an API catalogue**
- **API Definition – Data mapping, API Design & definition using Swagger**
- **API Development – Built microservices & exposed their systems using Axway API Manager**
- **Testing – Performed CIT and supported UAT, Security & Performance Testing**
- **CICD – Built Jenkins pipeline to automate build & deployment process**
- **API Center enabled Governance:**
  - **Industry standard and best practices were codified as rules in tool**

- **Enabled developers with self-service capability to validate API Specs and Code through the central tool**
- **Multiple formats of review reports were generated which could be shared across teams**

#### **Client Benefits:**

- **Built the API platform by delivering 164 APIs within 6 months**
- **Increased Agility by breaking down silos**
- **Reduced complexity with REST/JSON based integration through out**
- **Enhanced customer & developer experience**
- **Generated revenue, directly through monetization or indirectly by providing a new channel to traditional business**
- **Analytics providing business teams with insights into all API communications & capability to customize and generate reports.**
- **Well defined standards and best practices provided through “API Center” to make APIs consistent across multiple domains.**
- **Business vocabulary built based on OXF standard**

#### **Offerings we sell**

1. **API Governance Assessment: Assessment of existing API governance to enable enterprises addresses process, standards and visibility gaps**
2. **API Governance Definition: We define the target process, operating model design and development standards to enable consistent delivery across the enterprise**
3. **API Governance Setup: Customize and rollout API Center based on the Governance model**
4. **Project Onboarding: Support onboarding of projects into API Center**
5. **Continuous enhancements: Provide continuous tool enhancements to support new technologies, standards and patterns**



#### **Questions to ask**

- **Do you have a central repository to know what all APIs are available across the organization?  
How do you weed out duplicates?**
- **Do you reuse components in API development to save time?**

- **How do you estimate the efforts to build APIs? Do you have central dashboard to see all the API developments? Is it automated or manual?**
- **How do you manage the coding standards and consistency across all the different APIs?**
- **Do you incorporate industry best practices into your API developments?**



**Keywords to listen for**



**Targets & Deal Size**

- **Markets – All Banks and Insurance organizations that are looking for API factory implementations, Governance of APIs, establishing Center for Enablement or Technology & Cloud Migrations**
- **Profiles – Banking & Insurance CIOs, CTOs or Chief Architects of the organizations**
- **Estimated Deal Size/Range – 1- 5 Mn USD**

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