

WEB-APIs DRIVING DIGITAL INNOVATION



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Simply put, Web-APIs are the medium to make a company's digital assets consumable to any channel, which has a current or latent need. It helps companies to make the best out of the `Digital Core', which has been

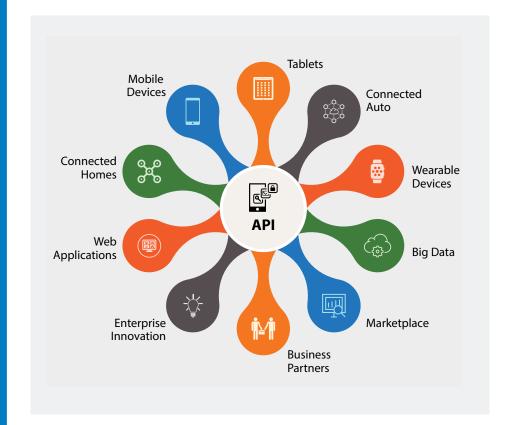
Importance of Web-APIs

developed over multiple years of effort and billions of dollars of investment. It helps create a wrapper of sorts around this Digital Core to make it more nimble by exposing the core functionalities in a more granular manner.

Web-APIs driving digital innovation

The five themes defining today's digital spectrum are social, mobile, analytics, cloud, and the internet of things, collectively called SMACIOT. Each technology theme can be described at length, but there is a common thread that links all these themes and surrounding entities. We call this as "API" (Application Programming Interface) in general and "Web-API" for web oriented digital APIs.

Digital is about leveraging the right technology to address the opportunities offered across SMACIOT in innovative ways. Enterprise APIs are a very critical catalyst for driving this innovation as they enable collaboration between SMACIOT technologies across channel barriers. They not only fuel growth, but also give enterprises a competitive edge by making an enterprise nimble to change, and keep ahead of the curve.





Why API Management?

An enterprise would generally have hundreds of digital assets for exposing as APIs. Once they finalize the initial set of APIs, the demand for more APIs typically increases exponentially. Thus, it is crucial to lay a strong foundation for managing these APIs to leverage their full potential, and to scale them up with demand. API management products provide a strong platform, which addresses the various aspects of

managing the APIs. These platforms offer pre-built sets of functionalities, which can be quickly configured to achieve most generic requirements from an API management perspective.

| Requirements | Out-of-the-box functionalities offered by an API Management Platform |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| API Life Cycle Management | Life Cycle Management of APIs from inception to implementation to retirement Versioning (how different versions of the same API can be provided to cater to rapidly changing business and customer needs) |
| API Development | Rapidly discover and expose back-end data and services as APIs to app developers and consumers Develop API proxies using easy-to-use UIs with drag, drop, and configure capabilities Test and debug APIs through in-built consoles Auto generation of API documentation and SDKs for multiple languages |
| API Access Control | Define usage quota and limits by application Traffic Throttling and Shaping (keep enterprise systems stable and available for users of APIs) Content Routing and Blocking |
| API Security | Protection against Denial Of Service and hacker attacks Use of open standards for federal identification and authentication using OAuth and SAML API-key generation and management Digital signatures, message envelopes, and encryption |
| API Mediation and Performance | Paging, caching, and message enrichment Transform, route, and mediate (SOAP < - > REST and XML < - > JSON) Message parsing, validation, translation, and enrichment Service aggregation, virtualization, refactoring, and process simulation |
| API Monitoring | Monitor SLA and Quality of service Problem Identification including guidance in debugging API Usage Tracking & Trend analysis (a key metric that helps propel or retire a function) Audit trails |
| API Socialization | Self-registration and subscription Access to documents based on the level of authorization Blog, ratings, and comments Incident ticket management Social media integration (followers and RSS feeds) Promote and test services |
| API Monetization | Define different plans and charges for API usage Track API usage Integrate with billing and invoicing systems |

Infosys Advantage

Dedicated Competency Center

Infosys has a dedicated Competency
Center involved in executing API
management projects, building skills on
API management, and creating thought
leadership in API management space. The
Competency Center has experts across
multiple leading products in the API
management space. Dedicated in-house
labs on different leading products in the
market are maintained by the center to
gain deep expertise on different products.
The Competency Center also works closely
with experts from different domains to
develop domain-specific solutions.



We hold strong partnerships with leading API product vendors and collaborate with them to evangelize usage of APIs, develop



















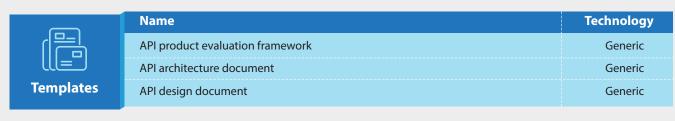
industry-specific solutions, influence product roadmaps, and team up to provide our clients robust and scalable solutions.

Our teams are engaged in helping clients implement API management programs leveraging leading API products.



Extensive repository of artifacts, tools, accelerators and POVs

We have leveraged our rich experience to develop many tools and accelerators for API management programs. These help reduce time-to-market, improve quality of delivery, and automate repetitive tasks.

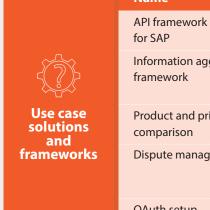




| Name | Technology |
|------------------------------------------------|------------|
| API adoption | Generic |
| API life cycle management | Generic |
| API environment administration and monitoring* | Generic |



| Name | Technology |
|----------------------------------------------------------------|---------------|
| Framework for distributed caching | Axway, Apigee |
| Global policies for metering and traffic shaping | Axway, Apigee |
| Framework for creation and tracking expiry of SSL certificates | Generic |
| API logging framework | Apigee |
| Unit test automation | Apigee |
| Global policies for exception handling | CA Layer7 |



| Name | Description | Technology |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------|
| API framework for SAP | Framework for exposing enterprise SAP services utilizing an API platform | Apigee |
| Information aggregation framework | Framework using Apigee for aggregating information from multiple external sources and providing as APIs to internal applications | Apigee |
| Product and price comparison | Framework for using APIs to perform product and price comparison across different companies | Apigee |
| Dispute management | Solution to use an API layer on top of BPM to allow customers to easily raise and manage disputes across multiple channels | IBM |
| OAuth setup | Framework to implement different OAuth scenarios | IBM |

API Management Engagements



Client:

Telecom provider in Australia

API Services:

Product Evaluation, Architecture Consulting, Implementation, Support

Technology:

Axway Vordel



Client:

Multinational telecom company in Germany

API Services:

Development, Support Operations

Technology:

Apigee Edge



Client:

Multinational clothing and accessories retailer based in USA

API Services:

Product Evaluation, POC, Design, Implementation

Technology:

Mulesoft



Client:

Luxury department store chain in USA

API Services:

Product Evaluation, Strategy, Architecture Consulting, Implementation

Technology:

IBM API Manager



Client:

Satellite service provider and broadcaster based in USA

API Services:

Implementation, Support, DevOps

Technology:

Apigee Edge



Client:

US-based multinational financial and payment services provider

API Services:

DevOps, Administration, Strategy, Architecture Consulting

Technology:

Apigee Edge





Client:

US-based multinational beverage corporation

API Services:

DevOps, Administration

Technology:

Apigee Edge



Client:

Retail department store chain in USA

API Services:

Strategy, Architecture Consulting, Implementation, Support

Technology:

Apigee Edge



Client:

Financial data and document services provider based in USA

API Services:

Architecture and strategy consulting, Implementation

Technology:

Oracle API Gateway



Client:

US-based global money transfer company

API Services:

Architecture Consulting, Implementation, Support

Technology:

CA Layer 7



Client:

Insurance provider in USA

API Services:

Administration, Implementation, Support

Technology:

CA Layer 7



Client:

UK-based multinational banking and financial services provider

API Services: Product Evaluation, Architecture

Consulting, Implementation

Technology:

Axway Vordel





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For more information, contact askus@infosys.com



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