

Fiorano[®]

Enabling change at the speed of thought[®]

FIORANO API MANAGEMENT



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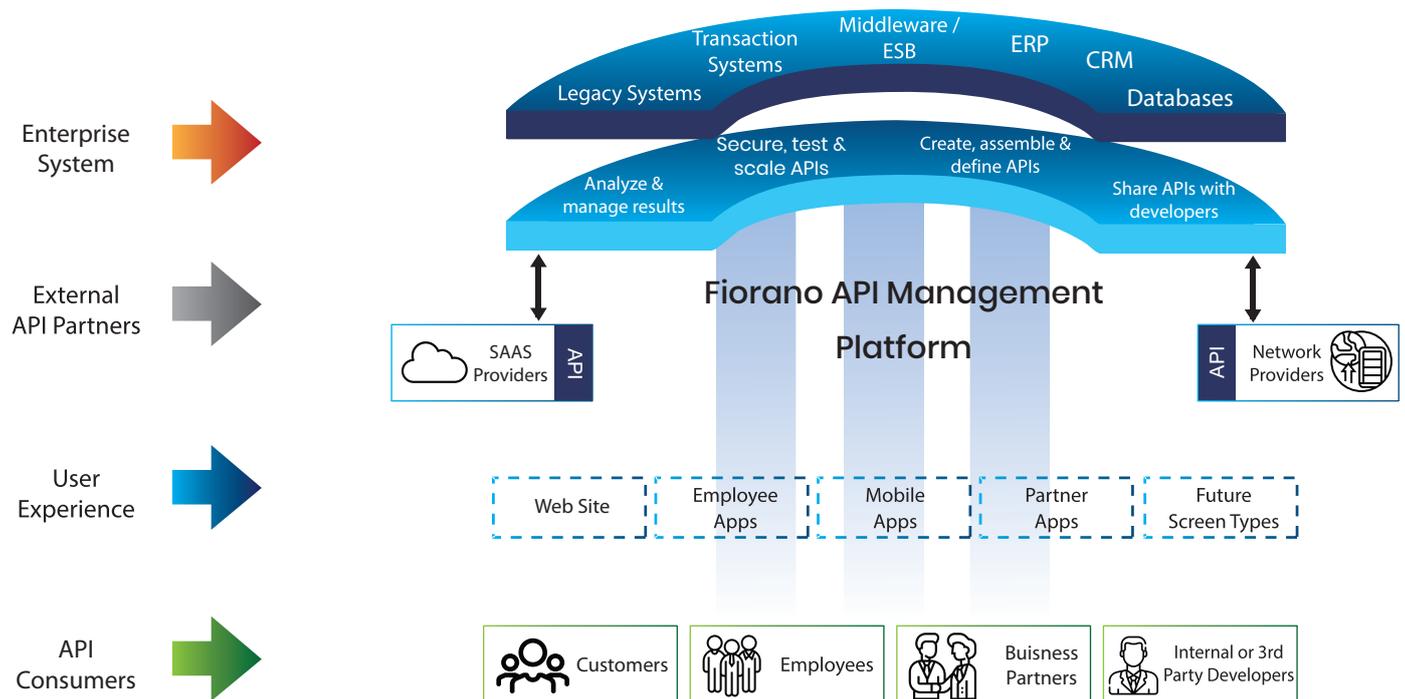
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OVERVIEW

Exposing interfaces to unique corporate data creates value that many companies have difficulty unlocking on their own. By exposing internal enterprise data and application functionality to external applications on mobile devices, consoles and affiliate web sites, an organization can transform its business into an extensible platform. Enterprises require ways to publish APIs to external developers, to interact with customers over new mobility and social channels, innovate and evolve ways to reach new customers through partner and third-party applications and exploit the exponential explosion of client end-points to drive end-user business.

Fiorano API Management offers a range of capabilities, including protocol transformation, standards-based access management, version management, API rate limiting, metering (analytics) and mobile backend-as-a-service (MBaaS). Backend and third-party web services can be transformed into easily consumable APIs, governed by self-service policies.

Available both as an on-premise platform and as a cloud service, Fiorano API Management is particularly well suited for enterprises that need deep integration capabilities to build APIs on top of existing applications. It provides contextual analysis and visibility into API initiatives and associated digital assets to help drive developer and use.



COMPONENTS

API MANAGEMENT SERVER

- ☂ This is the central server which acts as the repository for the API Projects created by users and deploys them to API Gateway Servers.
- ☂ Hosts the API dashboard.
- ☂ Incorporates an Analytics engine and performs various aggregation/ingestion functions.
- ☂ Manages access control, clients and their subscriptions.

API GATEWAY SERVER

- ☂ Acts as a reverse proxy server for the backend REST/SOAP based web services that are to be exposed as APIs.
- ☂ Receives client requests and performs Caching, Traffic Control, Quota Management, Authentication and Authorization before letting the request pass to a back-end server.
- ☂ Provides load balancing capabilities in case the target service is hosted on multiple backend servers.

API DASHBOARD

- ☂ The dashboard, hosted within the API Management server, provides interfaces to:
 - ☑ Create API projects with zero coding.
 - ☑ Define various API products, Developers and Subscriptions Analyze API trends, investigate spikes, define various roles, environments, partners and more.

DEVELOPER PORTAL

- ☂ The developer portal allows enterprises to publish and socialize their APIs. Support is included for:
 - ☑ Self-signup of developers, allowing automatic subscription to public APIs.
 - ☑ Viewing API documentation related to various public and protected APIs.

TYPES OF API EXPOSURES

EXPOSE-TO-ALL APIS (PUBLIC)

- ☂ APIs open to all developers.
- ☂ Apps typically targeted towards consumers outside the enterprise.
- ☂ Goals: engaging customers through external developers.

EXPOSE-TO-SELECTED APIS (PARTNERS)

- ☂ APIs open to select business partners only.
- ☂ Apps targeted towards both consumers and business.
- ☂ Goals: specific to the business of the enterprise.

EXPOSE TO ENTERPRISE APIS (INTERNAL)

- ☂ APIs exposed only to developers within the enterprise.
- ☂ Apps targeted towards employees and/or enterprise systems.
- ☂ Goals: driving employee productivity and internal system efficiencies.

KEY FEATURES

SECURED ACCESS

- ☂ Security descriptors provide fine-grained control over which end-users and user-groups can access an API.

METERING

- ☂ For each API, a count is maintained of the number of times the API has been called, together with a list of which applications have made the calls. It is possible to set metering limits as well as charges on a per-call (or other) basis for all API calls.

MONITORING

- ☂ This allows system administrators to track which APIs are using the most resources (CPU, memory etc.) and to graph the related information to identify hotspots and contention. Using this information, system administrators may decide, for instance, to split API-call load over multiple API Gateway servers (provided the underlying deployment allows for this scaling-out process).

MANAGEMENT

- ☂ Provides a high-level view of the overall implementation of API Management across the enterprise, including a synopsis of the security, metering and monitoring processes running across multiple servers within and outside the enterprise firewall.

DEVELOPER SUPPORT AND SOCIALIZATION

- ☂ Exposed APIs need to be marketed or socialized to third-party developers. This is typically done via developer portals, either within or external to the API management platform, where available APIs are published.

MONETIZATION

- ☂ This feature can be used to monetize APIs so that revenue can be generated for the use of the APIs. A variety of rate plans can be assigned to the products and subscribers/Developers register for rate plans. Advanced plans such as revenue sharing, and custom attribute-based metering are supported.

ANALYTICS

- ☂ Options to aggregate the Analytics data based on time, configure separate Analytics Database for each environment and delete analytics data separately for an API Project.

TRACE

- ☂ Traces HTTP messages sent from an application to a proxy and it helps analyze data from the start of a request till a response is received by the application.

DEBUG

- ☂ The Debug feature allows the interception of a message at various points of policy execution and aids in analyzing/modifying the message at the respective breakpoints.

TRACK

- ☂ Tracks geographical location of the client based on the IP address in the request. This is helpful to track specific requests for security purposes or to get the most active regions for a particular Server Group.

KEY CAPABILITIES

API GATEWAY

- ☂ Fiorano provides a linearly scalable, agent-based API gateway. Agents (i.e. exposed APIs) have the inbuilt capability to handle policies to detect threshold overruns and exceptions/error conditions, with the generated events being monitored via a central Fiorano API Enterprise Server that may be hosted either in the cloud or within the Enterprise firewall.

API DEVELOPMENT

- ☂ The Fiorano platform allows developers to create APIs using a visual drag-drop-configure approach. Fiorano supports Webservice and REST-based API development.

MEDIATION

- The platform includes a powerful set of prebuilt mediation components for data transformation, routing, protocol transformation and more.

API REPOSITORY

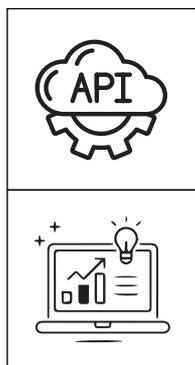
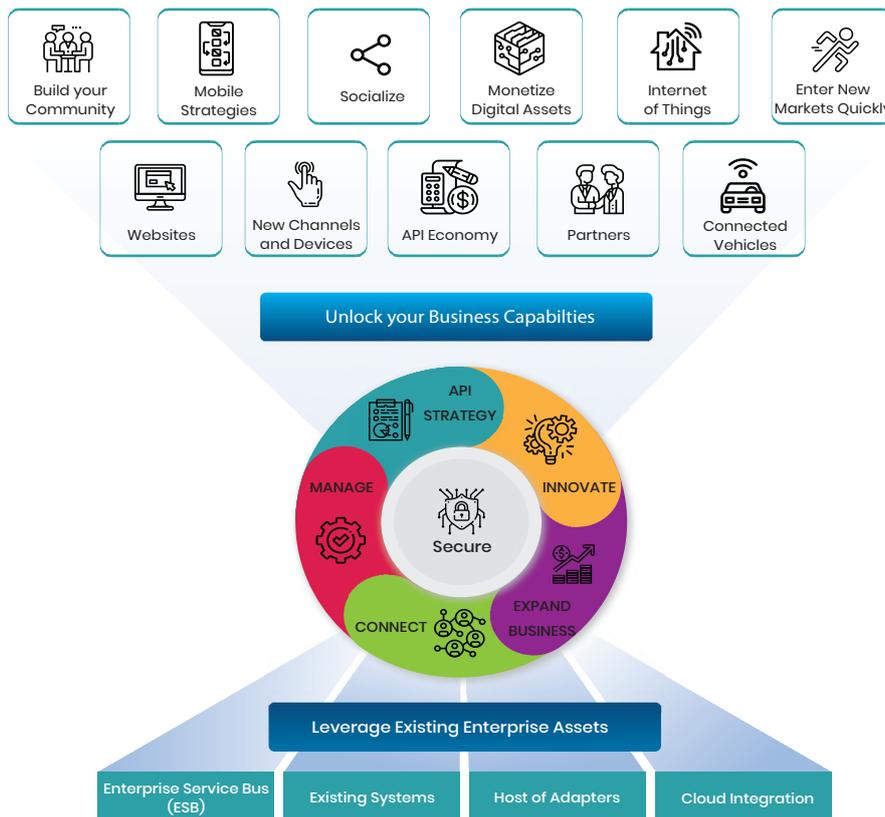
- Fiorano includes an API Repository allowing

developers to manage and test deployed APIs from a web-based console.

API SECURITY

- Deployed APIs can be secured using WS-Security standards for webservice-based APIs and HTTP-based authentication for REST based APIs.

BENEFITS

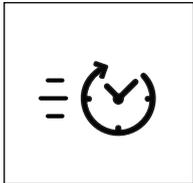


INDUSTRY BEST SECURITY AND INTEGRATION IN ONE SOLUTION

- Based on Fiorano's market leading Hybrid Integration Platform.
- Download, install and begin deploying your APIs in 30 mins.

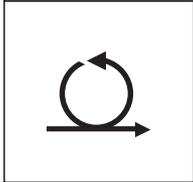
RAPID, CONFIGURATION-BASED API DEVELOPMENT - ZERO CODING

- Create and deploy new APIs in efficiently.
- Easily create portals to socialize your APIs.
- Visible ROI in days, not months.



OUT OF THE BOX BUSINESS ANALYTICS AND OPERATION INSIGHT

- ☛ Pinpoint key market fluctuations and correlations related to your business.
- ☛ Sophisticated inspection and debugging tools to identify bottlenecks and reduce development/deployment times.



SUPPORT FOR CONTINUOUS ITERATIVE DEVELOPMENT

- ☛ API updates with minimal interruption.
- ☛ Integrated debug/test/rollout to rapidly fix production issues.
- ☛ Point-and-click snapshot restoration to previous versions.
- ☛ Viewing API documentation related to various public and protected APIs.

GLOBAL LEADERS CHOOSE FIORANO

Fiorano helps organizations worldwide improve operational efficiencies and business performance by sharing information dynamically across global operations. Our commitment to developing standards-based solutions that deliver immediate ROI with proven interoperability and industry-leading reliability helps ensure our customers' sustained success in worldwide markets.

Fiorano understands the development, infrastructure and performance challenges facing IT departments in today's hyper-competitive markets. Over 600 enterprises worldwide have deployed Fiorano solutions, allowing them to:

- ☛ Extract business value from existing business and legacy applications spanning multiple, cross organizational boundaries.
- ☛ Deploy in a cost effective, incremental fashion, without disrupting existing operations or with major up-front investments.
- ☛ Meet dynamic surges in demand, deliver services without disruption and increase customer satisfaction without having to provision new hardware systems.
- ☛ Lower the cost of ownership and maintenance of IT systems via enhanced reuse of software assets and standards-based implementations.
- ☛ Reduce training costs and reliance on outside consultants, allowing in-house developers to deploy and manage complex integrations.
- ☛ Enhance productivity by allowing business-analysts to compose business processes with minimal programmer intervention.

BANKING

- ☛ Fiorano has helped many banks integrate their core banking system with disparate applications, boosting operational efficiency and productivity across processes, customers and partners.

E-COMMERCE

- ☛ Some of the largest retailers in the world use Fiorano solutions as a foundation for their e-commerce software infrastructure, solving complex integration problems that pull together CRM, ERP, custom apps, partners and suppliers.

FINANCIAL SERVICES

- ☛ Leading financial institutions have selected Fiorano infrastructure to deploy the next wave of flexible and adaptable risk management and STP solutions.

TELECOMMUNICATIONS

- ☛ Leading telecommunications companies use Fiorano to deliver millions of messages daily across complex, distributed workflows in mission-critical 24x7 environments.

GOVERNMENT /DEFENSE

- ☛ State and Federal Governments have deployed the Fiorano Platform to improve citizen services while simultaneously increasing revenues, while Defense Agencies have used the solutions to significantly enhance their response and intelligence gathering activities.

ABOUT FIORANO

Established in Silicon Valley in 1995, Fiorano is a global leader in high-performance hybrid integration, API Management enabling interoperability, agility, profitability and new revenue streams.

With decades of experience of working with organizations across the sectors such as Financial Services, Defence, Public and Healthcare all over the world, Fiorano technology has been put to the test and proven time-and time again with leading organizations including AT&T, British Telecom, Canada Bank, Commercial Bank of Africa, Dyckerhoff, Federal Bank, McKesson, NASA, UK National Health Service (NHS), Korea Telecom, L'Oréal (India), Schlumberger, United States Coast Guard, Vodafone and others who have deployed Fiorano for their mission critical applications, driving innovation with solutions built in just days, yielding unprecedented productivity.

To find out more about how Fiorano can help you meet your enterprise integration and API objectives, please visit www.fiorano.com or e-mail us at sales@fiorano.com.



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