



## Fiorano API Management Capabilities

- API Gateway
- API Development
- Mediation
- API Repository
- API Security

## Key Features

- Secured access to your APIs
- Metering
- Monitoring
- Management
- Developer portals to publicize APIs

## Platforms

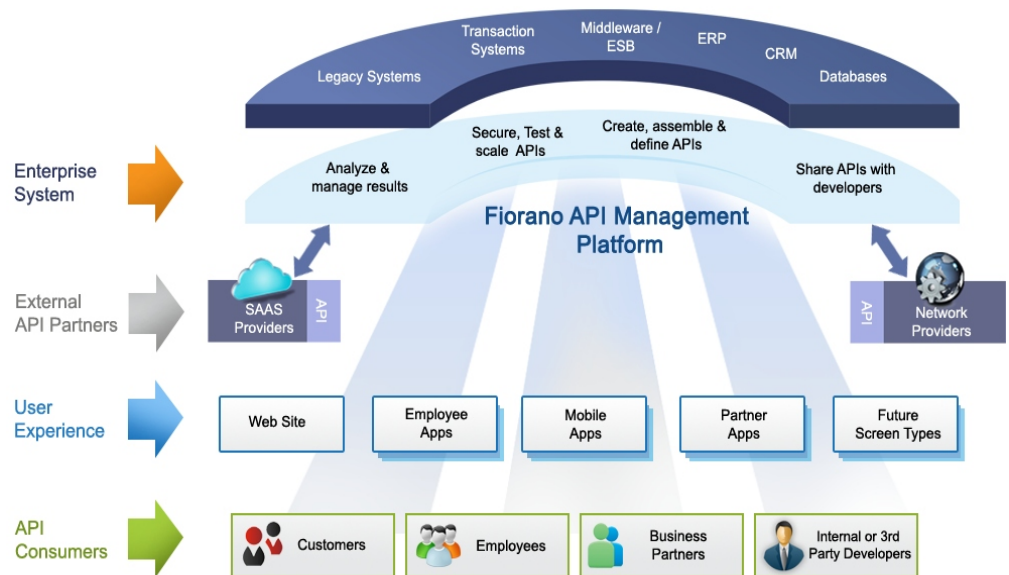
- On Premise
- Cloud Service

## Fiorano API Management<sup>™</sup>

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.

Fiorano API Management is particularly well suited for enterprises that need deep integration capabilities to build APIs on top of existing applications. It also provides contextual analysis and visibility into API initiatives and associated digital assets to help drive developer and user



Leveraging Existing Enterprise Assets

## Fiorano API Management 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.

## 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.

## Fiorano API Management 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 Role Based Access Control

### 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

### API Gateway Server

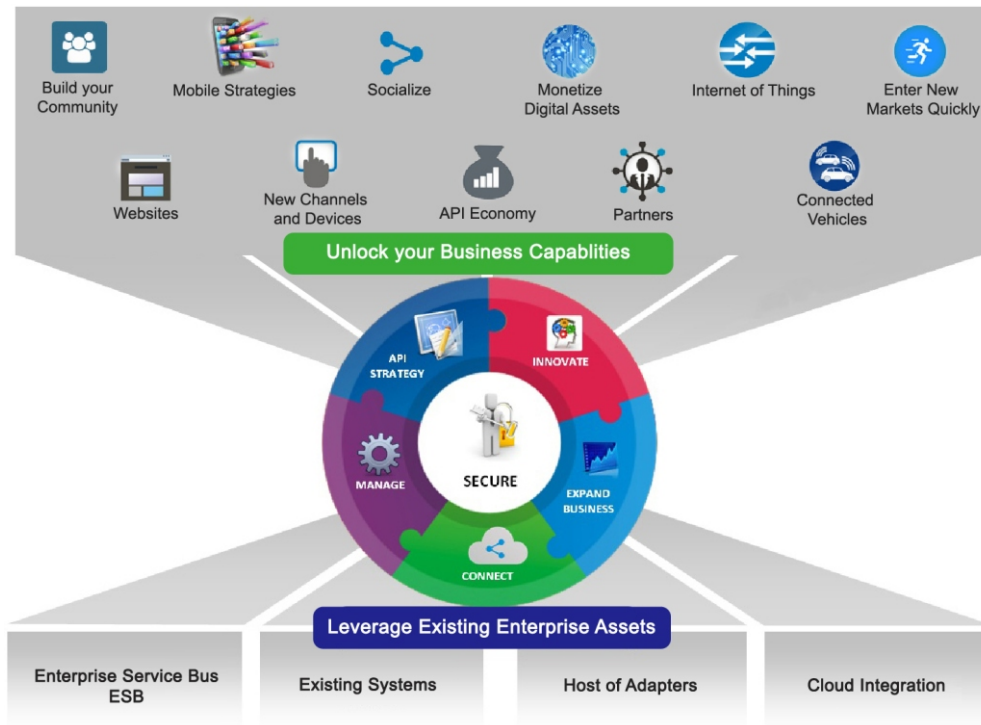
- Acts as a reverse proxy server for the backend REST/SOAP based web services that are to be exposed as APIs
- Receives client requests and performs Caching, Traffic Control, Quota Management, Authentication and Authorization before letting the request pass to a back end server
- Provides load balancing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

### Developer Portal

The developer portal allows enterprises to publish and socialize their APIs. Support is included for:

- Self sign-up of developers, allowing automatic subscription to public APIs
- Viewing API documentation related to various public and protected APIs

## The API Economy



## Benefits of Fiorano API Management

### Industry best security and integration in one solution

- Based on Fiorano's market leading ESB and SOA 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

## 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

## 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 500 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 SOFTWARE

Founded in 1995, Silicon Valley based Fiorano is a USA (California) Corporation, a trusted provider of enterprise integration middleware, high performance messaging and peer-to-peer distributed systems. Fiorano powers real time, digital enterprises with a bimodal integration and API Management strategy that leverages the best of systematic (centralized, high-control) and adaptive (federated, high-speed) approaches to deliver solutions across cloud, on-premise and hybrid environments.

Global leaders including Federal Bank, Rabobank, Royal Bank of Scotland, Temenos, Boeing, British Telecom, Capgemini Telecom, L'Oreal, McKesson, NASA, POSCO, Schlumberger, US Coast Guard and Vodafone have deployed Fiorano to drive innovation through open, standards-based, event-driven real-time solutions yielding unprecedented productivity.

To find out more about how Fiorano can help you meet your enterprise integration objectives, visit [www.fiorano.com](http://www.fiorano.com) or e-mail [sales@fiorano.com](mailto:sales@fiorano.com)

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