



Fiorano Hybrid Integration Platform



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OVERVIEW

Today's businesses need to be digital at the core. They require an extensible, scalable platform to support universal interoperability for all heterogeneous internal and external systems including partner channels to benefit from automation and next-generation tools. The platform needs to support legacy systems, improve efficiency, enhance agility, innovate products and services, and achieve situation awareness via analytics. Adaptability and durability are critical to meet the evolving needs of a global market. The platform must facilitate compliance with the latest industry standards, take advantage of available architectures including APIs and Microservices and offer flexibility to connect with multiple protocols.

Businesses need a platform that will not only cater to their current needs but also be ready to address requirements of the emerging new normal and next generation.

The Fiorano Hybrid Integration Platform (HIP) allows integration specialists and application developers from organizations to rapidly deploy a lightweight, powerful, and scalable IT infrastructure backbone, enabling asynchronous information exchange across the extended enterprise. Fiorano HIP unifies multiple systems, on-premise or in-cloud, combining the elasticity of cloud, the security of on-premises systems and the computing power of multiple executions.

COMPONENTS

FIORANO HYBRID IPAAS

The Fiorano Hybrid iPaaS can be deployed on-premise or anywhere in the cloud. It integrates applications across SaaS, on-premise and hybrid worlds with the ability to scale out on demand, quickly transforming application silos into functional services, integrating systems in cloud-to-cloud, cloud-to-on-premises and on-premises-only environments, regardless of location size, and type. The platform obviates point-to-point integration efforts and integrates heterogeneous applications and databases, streamlining the complex architecture of an enterprise.



Fiorano Hybrid Integration Platform (HIP)

With a REST-based, highly distributed yet centrally managed architecture, Fiorano Hybrid iPaaS overcomes the problems of monolithic integration brokers and application servers. Fiorano Hybrid iPaaS ships with a set of pre-built adapters allowing most integrations including packaged and SaaS applications to be performed 'out-of-box', with minimal programming effort. Key Fiorano Adapters include DB, HTTP, ISO20022 Validator, JMS, Kafka, Lambda, MongoDB, MQTT, SMTP, SAP and Salesforce, among others.

API MANAGEMENT

Fiorano API Management helps enterprises build APIs on top of existing applications, offering a range of capabilities including protocol transformation, mobile backend-as-a-service (MBaaS), standards-based access management, version management, API rate limiting, metering and API monetisation. Fiorano API Management transforms backend and third-party web services into easily consumable APIs, governed by self-service policies. Fiorano API Management with its API Management Server, API Gateway Server, API Dashboard and Developer Portal facilitates API Development, Mediation, Monitoring, Security and Monetization capabilities.

Key Features

SCALABILITY

- Peer-to-Peer architecture promotes a linear 'build as you grow' model, allowing an enterprise to add software resources in the form of Fiorano Peers at network end-points to absorb additional load on the platform.
- With dispersed computation and parallel data flow between nodes, Fiorano Peers scale naturally and seamlessly with the addition of new nodes and Enterprise Services across the network.
- With Fiorano, Commercial Bank of Africa grew from 100,000 customers to 38 million clocking over 1 billion in transactions a month.

EVENT-BASED

- Fiorano's event-based architecture facilitates asynchronous communication in cloud, on-premise or hybrid deployments to enable easier monitoring at runtime, external callout hooks for workflow monitoring, replay of failed data and integration with big data engines.

MICROSERVICES-CENTRIC

- Easy microservice orchestration and choreography enabling organizations to quickly adapt to evolving external business and environmental events.
- Allows each individual microservice to be independently configured, managed, updated and redeployed without disrupting other services or processes.

KUBERNETES

- Supports containerization by bundling applications with pre-configured files to facilitate quicker deployments. These applications can be deployed, managed, monitored, and scaled with Kubernetes.
- Supports automatic horizontal scaling of microservices wherein nodes can be increased when demand increases and decreased when demand decreases.

HYBRID, ELASTIC INFRASTRUCTURE

- Enables efficient, scalable integration flows to be deployed across cloud-to-cloud or hybrid environments, combining the benefits of centralized management, operations, and governance with the efficiency of distributed architectures in a single platform.
- Spawns peers as needed that understand how to interact with each other directly, avoiding any central chokepoint.
- Features including automatic application partitioning for performance optimization, runtime changes to running integration flows for dynamic 'non-stop' extensibility, simplified failure recovery and high-availability and scalability via distributed message-pipelines.

COMPOSABLE

- Facilitates 'composability' in an enterprise through a powerful set of visual tools that enable decomposition of monolithic and legacy applications into atomic microservices, which can be re-used and combined in a no-code format as new, composite business APIs to deliver packaged business functions and capabilities.

CLOUD-NATIVE

- Containerized deployment of atomic functions as microservices on elastic cloud-infrastructure.
- Service-mesh layers support East-to-West functional (e.g. routing) and non-functional (e.g. security policies and quality of service) mediation of service-to-service traffic.

SECURITY

- Distributed security model with multiple levels of authentication and authorization.
- Controlled deployment of services across network end-points, with automatic 'one-click' transitions across the software lifecycle (development, QA, staging, and production).

GOVERNANCE

- In-built governance for distributed services with centralized policy management.
- Each Fiorano microservice is fully decoupled from other services, can be developed in multiple supported languages and governed independently.

STANDARDS BASED INTEGRATION

- Implements standards for communication, connectivity, transformation and security, enabling application interoperability.

- Supports industry standards for integration including REST APIs, Open APIs, OData, Jason, GraphQL, event streams, Java, Web Services, and XML.

BENEFITS

POWER DIGITAL TRANSFORMATION

- Shifts enterprises' focus from non-productive maintenance plans to innovation and value creation projects.

DRIVE INNOVATION

- Enables innovative services for customers to improve customer experiences and rapidly address key customer requirements.

DRIVE BUSINESS VALUE

- Enables rapid development and effective utilization of resources for innovation and growth with intuitive studio tools to quickly create, test and deploy new projects that add value to organization.
- Easy-to-use and deploy platform with reusability through microservices to dramatically reduce development costs with pre-packaged integration content.

INCREASED VISIBILITY

- Organises enterprise software resources as services exposed via APIs for internal and external consumption, increasing transparency and customer satisfaction.

IMPROVED AGILITY

- Modifies business process implementations in near real-time facilitated by the flexibility of a comprehensive microservice-based architecture.

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 across the world, Fiorano technology has been put to the test and proven time-and time again with leading organizations including AT&T, British Telecom, Canadia 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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