TIBCO Cloud Integration

The TIBCO Cloud Integration enterprise iPaaS (integration Platform as a Service) is the most versatile in the market, servicing the needs of both large and small enterprises. With its open core, you have access to best-of-breed technology that accelerates your digital business initiatives. It boosts business agility by empowering a wide variety of users to quickly connect your apps, data sources, and devices. And it automates business processes using any integration style, including modern API-led and event-driven, for maximum architectural flexibility.

The TIBCO Cloud Integration iPaaS provides a variety of no-code development experiences for different roles and integration use cases:

- Fast and easy web-based connectivity
- Model-driven development within an Eclipse environment
- Visual development of event-driven apps
- Business process automation via a guided experience

Comprehensive Connectivity

The TIBCO Cloud Integration iPaaS supports a diverse range of integration use cases including:

Application integration

- Connect SaaS and on-premises business applications and software
- Support all integration styles, including:
  - APIs: RESTful, GraphQL, AsyncAPI and gRPC
  - Event-driven integration flows
  - Messaging
  - File-based integration
  - Legacy integration styles including SOAP, XML, mainframe

Data integration

- Data migration, replication, and synchronization
- Data-as-a-service architecture using APIs
- Simple wizard to copy, archive, and analyze business-critical data
- Out-of-the-box capabilities for change data capture, batch processing, and paging

Event-driven integration

- Flexible real-time integration flows powered by an open-source event-driven core
- Wide range of triggers that consume events from various systems

Process automation

- Create, streamline, and automate business processes and workflows
- Provide a guided interface that speaks the language of the business, empowering business users to define or adapt processes themselves

Event-stream processing

- Event triggers that receive data streams
- Action-chain stream processing with the ability to join event streams from multiple sources
- Support for messaging and streaming frameworks such as Apache Kafka, Apache Pulsar, and AWS Kinesis

IoT integration

- Ingesting and publishing data feeds over popular IoT protocols, such as MQTT and CoAP

Edge processing

- Creating flows that can be exported from the cloud-based designer and deployed on a lightweight runtime engine optimized for execution on IoT devices and edge applications such as AWS Greengrass
- Running ML models on edge devices to locally process real-time IoT sensor data.

Mobile/Web integration

- Exposing and monetizing business services via standards-based APIs including native GraphQL with integration of databases and systems of record

B2B integration

- Support for all popular B2B integration protocols including EDI, SWIFT, HL/7 and file-based integration

Embedded Solution Marketplace

Discover pre-built integration solutions contributed by TIBCO experts and our vast customer and partner ecosystem. Access integration accelerators, apps, connectors, and more in a single click.

Full API Lifecycle Management

- Create, model, test, and implement APIs within a unified API developer portal
- Publish APIs on an API marketplace for discovery and consumption via AWS Marketplace
- Secure APIs with powerful authentication to enforce security policies and traffic limits with the TIBCO API gateway
- Measure ROI and API performance with advanced analytics

Service Registry

- Register, share, and easily discover REST APIs exposed by your apps and enable

Extensive Connector Library

Draw from an extensive library of 200+ pre-built connectors for virtually any endpoint including:

- API standards including HTTP, REST, Open API Specification (OAS), GraphQL, gRPC, Websocket, OData, and SOAP
- B2B protocols including HL/7, EDI, EDIFACT, X12, and ICD-9/10
- Big data and NoSQL endpoints such as, Apache Hadoop/ HFDS, Microsoft Azure Data Lake, Google BigQuery, MongoDB, Snowflake, Amazon DynamoDB, SAP HANA, Greenplum, and Amazon Redshift, Redis, and Google Cloud Datastore
- Business applications including HubSpot, Marketo, Microsoft D365, Oracle NetSuite, Workday, SAP S/4 HANA, Salesforce, ServiceNow, and Jira
- Custom connectors using our open SDKs
- File transfer and storage services including AS2, CFI protocol, FTP, FTPS, HTTP/S, local, SFTP (SSH),
- Mobile notifications including Amazon SNS, Android, iOS, and Twilio
- Messaging services and protocols such as, Apache Kafka, Apache Pulsar, Apache Qpid, Rabbit MQ, Apache Active MQ, Amazon SQS and SNS, Google Cloud Pub/Sub, Azure Service Bus, Red Hat AMQ, IBM MQ, and TIBCO Cloud Messaging software
- Process tools including variables, logger, mapper, patterns search, TIBCO BPM Enterprise, TIBCO Cloud LiveApps, and TIBCO Cloud AuditSafe software

- Relational databases and document storage including Microsoft SQL Server, Oracle MySQL, Oracle Database, ODBC/JDBC/OLE DB, PostgreSQL
- Storage services, such as Amazon S3, Box, Dropbox, Google Cloud Storage, Microsoft Azure Storage, and Microsoft SharePoint
- Various data formats including, COBOL, PL/I, RPG, XML, CSV, PDF, Apache Avro, JSON, and Microsoft Excel

Cloud-native App Development

- Development of scalable microservices and serverless functions for synchronous and asynchronous communication patterns
- Out-of-the-box integration with preferred dev-ops, CI/CD, and cloud-native tooling for deployments, configuration management, distributed tracing, and more
- Embedded support for deployment to AWS Lambda

Automated Integration Flow Testing

Robust debugging and testing capabilities including:

- Support for step-back testing, step-in and step-through debugging, sample data validation, and changing values in flight during testing
- Support for automated unit testing and mocking
- Support for remote debugging

AI-driven Experience

- Embed trained machine learning models into apps and APIs built using Catalyst ML and modelOps.
- Receive best-practice recommendations when connecting data between source and target fields based on historical continuous learning patterns

Flexible Deployment Options

A diverse set of deployment options to build integrations once and deploy them anywhere, including:

- TIBCO Cloud environment (within either on AWS or Microsoft Azure)
- On-premises data centers
- PaaS and container-based platforms including Cloud Foundry, Docker, Kubernetes, and offerings such as:
    - OpenShift

    - Managed Kubernetes Services across AWS, Azure, Google Cloud, Ali Cloud, CloudFoundry solutions such as Tanzu Application Service (TAS)
    - Container platforms and services such as Docker Enterprise, AWS ECS, Azure ACI, Google Cloud Run
- Serverless deployment including AWS Lambda, Azure Functions, Knative, and Pivotal Function Services
- Edge computing and connected devices including small and micro IoT devices

Centralized Governance

Manage and monitor integrations across the enterprise within a centralized, governed environment:

- Hierarchy of parent-child organizations provides logical boundaries between functions, departments, geographies, or customers
- Role-based access provides fine-grained control over team member access and permission level
- Operational dashboards list all integration applications along with their operational status, endpoints, visibility status, and type of implementation:
    - Application monitoring details including process, activity, and instance-level details
    - Operational and traffic analytics for deployed APIs
    - Monitoring of all apps in a single location regardless of deployment with the hybrid agent
    - Native support for cloud-native monitoring solutions including Prometheus and Grafana

Scalable and Secure Framework

The TIBCO Cloud Integration iPaaS is built with security in mind, through features such as:

- Multi-tenant platform with a logical separation of customers
- GDPR, ISO27001, SOC1 Type II, SOC 2 Type II, and PCI compliant
- High-availability with three availability zones for each deployment per region with auto-scaling to evenly distribute app instances
- Encrypted network traffic and data storage
- Dedicated support from TIBCO Compliance and Security team via phone, email, and web

- 99.95% uptime SLA
- Publicly accessible status reporting for all capabilities and systems

For a detailed overview of the security framework, system design, operational best practices, and more, see the TIBCO Cloud Integration Security Overview.

Get Started

Simply register for a free trial at https://account.cloud.tibco.com/signup/tci, and you are on your way. Free video help, user guides, samples, and examples are available with your trial.

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