



Fuel your customer experiences with high-quality APIs

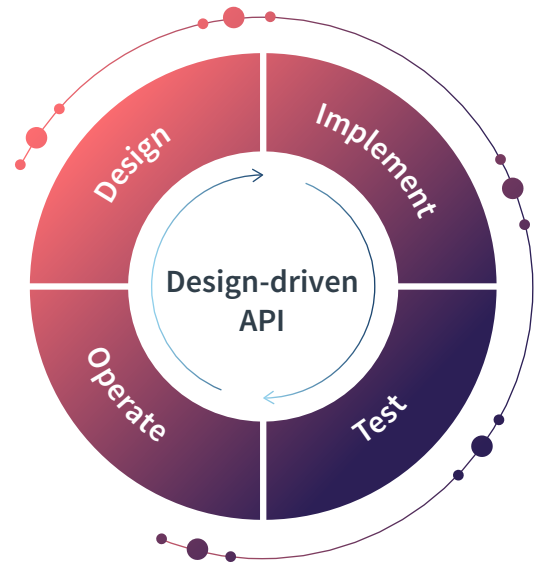
With Talend API Services it's easy to create user-friendly APIs to open your platform to new business opportunities, while improving time to market and developer productivity.

Build high-quality APIs 80% faster

Talend API Services provide full API development lifecycle support that encompasses design, test, documentation, implementation, and deployment — all in a unified environment. Create APIs up to 80% faster by eliminating the need to use multiple tools or manually code.

Design APIs in days – not months

Visual API Designer and team collaboration tools make it easy to define a contract-first API with consumers. Automatically simulate the API using live preview, then instantly generate API reference documentation to speed adoption. Deploy to popular API gateways for load balancing and mediation.



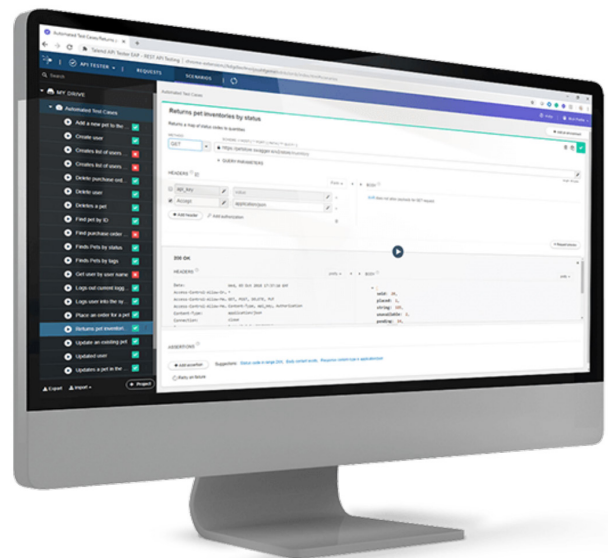
Test to ensure API quality

Ensure your APIs are solid and reusable with the API Tester. Automatically generate basic test cases from your API contract, then field-test your APIs by grouping tests together that simulate real-world examples. Integrate unit tests into a managed CI/CD process, ensuring consistent quality.

Implement faster with built-in data quality

Talend API Services combines API creation, data integration, and data quality in a single tool, enabling teams to develop and deploy end-to-end data integration jobs faster than hand coding at 1/5th the cost of competitors.

Implement the API using simple, visual tools and wizards with 2,000+ prebuilt components and connectors to natively connect databases, flat files, cloud-based applications, and more. Cut weeks of development time using Talend Data Mapper to parse and map complex EBCDIC files, and XML, JSON, and EDI documents.



Talend API Services Platform features

API development

- Visual Designer
- Support for OAS/Swagger, RAML
- Visual API Tester
- Automatic API mocking
- API testing automation
- Hosted API documentation
- API contract import into Talend Studio

Agile Application Integration

- Drag-and-drop route, data, and web/REST services creation and simulation
- Delivery and routing of messages and events based on Enterprise Integration Patterns (EIP)
- Reliable messaging backbone based on ActiveMQ
- Service creation, mediation, and simulation
- Functional, load, and security web services testing
- Data integration and transformation
- Command-line and scripting tools
- OSGI feature creation and deployment
- Microservice creation
- Microservice deployment and management

Design and productivity tools

- Eclipse-based developer tooling and job designer
- Team collaboration with shared repository
- Continuous integration
- Continuous delivery
- Visual mapping for complex JSON, XML, and EDI
- Audit, job compare, impact analysis, testing, debugging, and tuning
- Metadata bridge for metadata import/export and centralized metadata management
- Distant run and parallelization
- Dynamic schema, reusable joblets and reference projects
- Repository manager
- ETL and ELT support
- Wizards and interactive data viewer
- Versioning
- Export and execute standalone jobs in runtime environments
- Change data capture (CDC)
- Automatic documentation
- Pipeline Designer

Components & connectors

- Cloud: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, and more
- Cloud data warehouses and data lakes: Snowflake, Amazon Redshift, Azure Data Lake Storage Gen2, Azure Synapse Analytics, Databricks Delta Lake, Google BigQuery
- RDBMS: Oracle, Teradata, Microsoft SQL Server, and more
- SaaS: Marketo, Salesforce, NetSuite, and more
- Packaged apps: SAP, Microsoft Dynamics, SugarCRM, and more
- Technologies: Dropbox, Box, SMTP, FTP/SFTP, LDAP, and more
- File management: open, move, compress, and decompress without scripting
- Control and orchestrate data flows and data integrations with master jobs
- Map, aggregate, sort, enrich, and merge data
- Standards support: REST, SOAP, OpenID Connect, OAuth, SAML, WSDL, Swagger, and more
- Transports/protocols support: HTTP, JMS, MQTT, AMQP, UDP, Apache Kafka, WebSphere MQ, and more
- EIPs for service mediation, routing, and messaging

Data governance

- Data cleansing and masking
- Automated data quality error resolution and rules enforcement
- Advanced data profiling
- Semantic discovery with automatic detection of patterns
- Comprehensive survivorship
- Data sampling
- Enrichment, harmonization, fuzzy matching, and deduplication
- Data preparation
- Data stewardship

Services management

- System monitoring: JMX/Jolokia
- Access to live statistics of message flow activity
- Integrated artifact repository
- Interface to deploy data services and routes
- Manage users, groups, roles, projects, and licenses
- Engine clusters
- Static IP addresses
- 3-month job execution log history
- Log export to S3
- Unlimited environments

Learn more at www.talend.com/products/application-integration/cloud-api-services

Specifications

Talend API Services supports these third-party components and products:

Components & connectors

- JAX-WS — Java API for XML-based Web Services (JAX-WS) 2.2 - JSR-224
- Web Services Metadata for the Java Platform — JSR-181
- JAX-RS 1.1/2.0 — Java API for RESTful Web Services — JSR-311
- SAAJ — SOAP with Attachments API for Java (SAAJ) — JSR-67
- WS-I support: Basic Profile 1.1, Basic Security Profile 1.1
- XKMS — XML Key Management Specification 2.0
- Metadata: WS-Policy, WSDL 1.1, WADL; Swagger 1.x, 2.
- Communication security: WS-Security 1.1, WS-SecurityPolicy 1.3, WS-SecureConversation 1.3, WS-Trust 1.4
- Messaging support: WS-Addressing, SOAP 1.1, SOAP 1.2, Message Transmission Optimization Mechanism (MTOM)
- XA transaction support: ActiveMQ, Oracle WLS JMS, Oracle RDBMS XA, PostgreSQL RDBMS XA
- Authorization policies: XACML 2.0, RBAC profile of XACML 2.0

- Policies: Compression policy, customer schema (XSD) validation policy, XSLT transformation policy

- SAML support: SAML 1.1 and 2.0, Security Token Service

- REST security: XML Signature + Encryption, OAuth 1.0 and 2.0

- SSO support: SAML SSO Profile 2.0, WS-Federation 1.2 Passive Requestor Profile

- OSGI: OSGI 5.0

Support for transports, bindings, data bindings, and formats

- Bindings: SOAP, REST/HTTP

- Data bindings: Aegis, JAXB 2.2, SDO, XMLBeans, JIBX

- Formats: XML, JSON

- Transports/protocols: HTTP, Servlet, JMS, MQTT, AMQP, UDP, Apache Kafka, WebSphere MQ, and many others via the Camel transport for CXF, including SMTP/POP3, TCP, and Jabber. Support for using a Talend ESB route. Extensibility API allows additional bindings for CXF, enabling additional message format support such as CSV and fixed record length.

- Web protocols: CometD, WebSocket

Flexible deployment

- Lightweight containers: Deploy services in OSGi (Talend Runtime), Apache Tomcat, or Spring-based containers
- Microservices: Deploy using the Spring Boot framework
- Java EE integration: Deploy services in JEE application servers such as Red Hat, JBoss AS, and IBM WebSphere
- Stand-alone Java client/server

Supported database and storage connectivity

Amazon Aurora, Amazon RDS, Amazon Redshift, Amazon S3, Apache Derby, AS400, IBM Db2, Exasol, eXist-db, Firebird, Google Cloud Storage, Greenplum, H2, HSQLDB, Informix, Ingres, InterBase, Java DB, JDBC, MariaDB, MaxDB, Microsoft Azure Blob Storage, Azure Queue Storage, Azure Synapse Analytics, Azure Table Storage, Microsoft OLE DB, Microsoft SQL Server, MySQL, Netezza, Oracle, Oracle ADW, PostgreSQL, Postgres Plus, SAP Business Warehouse, SAS, Snowflake, SQLite, Sybase, Sybase IQ, Teradata, VectorWise, Vertica



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White paper:

A field guide to web APIs

<https://www.talend.com/resources/web-apis-field-guide>

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