



Axway AMPLIFY™ API Management



Innovate faster and more securely with comprehensive API management

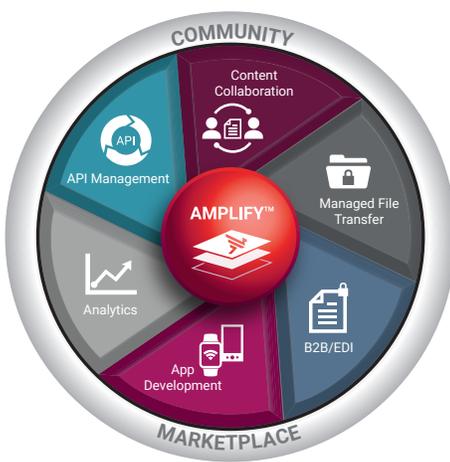
DATA SHEET



Across industries, disruptive competitors, new regulations and rising customer expectations are driving digital transformation. APIs are at the heart of digital interactions that will fuel this transformation by quickly connecting internal systems with new experiences that engage customers in dynamic and relevant ways.

The solution that meets today's requirements must manage the full lifecycle of API usage and provide a complete end-to-end set of services that simplify access to enterprise data, integrate with full API lifecycle support, and streamline app building to speed delivery of value to the business.

API Management



Powered by the Axway AMPLIFY™ hybrid integration and customer engagement platform

AMPLIFY API Management combines full API lifecycle management, a secure integration foundation, and monitoring and analytics to help you innovate faster and heighten ecosystem engagement. It is part of the Axway AMPLIFY™ hybrid integration and customer engagement platform that provides a complete solution for the rapid change and innovation your business envisions and your customers expect.

Key Features and Benefits

API lifecycle management

streamlines the management of the people and processes of the API lifecycle central to delivering digital value through the deployment, improvement and operations of digital initiatives.

- Use the graphical API Builder to **create and orchestrate** microservice based APIs
- API Builder also enables real-time orchestration of API calls to facilitate creation and increase performance of composite APIs
- Establish policies to promote conversion, operational stability, authorization and security
- Create and manage an **API catalog** for easy API search and discovery, and to support all API lifecycle stages, from registration through retirement

- Support **DevOps** to enable collaborative development of policies, automated continuous integration and promotion, deployment to staged environments, and continuous testing – with zero downtime for delivery and upgrades
- Adapt to business seasonality and unpredictable demand with an Elastic Topology deployment that can scale up or down depending on business need without compromising back-end system protection
- Take a best-practice **API-first approach** that leverages popular API design formats such as Swagger and RAML and provides APIs to enable customers to adapt and customize the API management process
- Provide a **developer portal** to boost adoption by making it easy for developers to join an API community and discover, consume, build and test APIs

Data drives relevancy, personalization, convenience and speed – the hallmarks of a good digital experience. The explosion in the quantity and sources of available data provides ripe opportunities when you can access, integrate and secure it with ease and speed.

A secure integration foundation

frees the data and services trapped in back-office silos with the security you expect in an enterprise solution.

- **Integration policy filters** and **prebuilt connectors** and **adapters** simplify and speed integration
 - A **Visual Mapper** with a graphical Data Map Editor and map engine simplifies data format transformation
 - **Microservices support** offers a clear separation layer between the developer-facing APIs and internal systems, and simplifies code maintenance, reduces development effort and enables parts of an application to be scaled separately
 - **Identity management** simplifies integrating with existing identity access management systems
- and provides for identity mediation, federation and audit
- **Data security** options dramatically reduce the time to implement a high level of security designed to avoid breaches
 - **REST-enabled digital MFT/B2B/EDI functionality** is preintegrated with API Management, simplifying enterprise-wide use of existing information and tools for new business uses
 - **Analytics and monitoring** provide the ability to measure and monitor success with visibility across the digital business value chain
- **Real-time operational monitoring** provides visibility to topology status, API activity tracking and performance monitoring
 - **Developer metrics** show API consumer adoption trends and API usage metrics that are important to understanding API program business success
 - Integration with Axway Decision Insight enables predictive **embedded analytics** in the API management tools for proactive identification of abnormal situations and key operational insight for decision-making

Specifications



API lifecycle management

API creation	<ul style="list-style-type: none"> • Build microservice backed APIs visually or programmatically • Design using either an API first or Model first approach • Define the API data model without writing any code • Package into docker container for deployment in your container platform • Automatically generates complete documentation
API orchestration	Orchestrate APIs with a visual interface to split incoming API calls into multiple underlying API calls
Catalog management	Build a central catalog of all available APIs – both REST and SOAP – and visualize them appropriately
DevOps support	<ul style="list-style-type: none"> • Team collaboration to create policies simultaneously • Integration to your CI/CD chain • Zero downtime for delivery and upgrades • Docker container support for on-premise, cloud and hybrid deployments
API-first approach	Import and export common API design formats such as Swagger, RAML, WADL, and WSDL
Developer portal	<ul style="list-style-type: none"> • Standards-based Joomla CMS portal with search/read/try/use API discovery and FAQs, articles and forums for building developer communities • Advanced search to easily browse large catalogs • Mobile SDK available to easily integrate APIs into your favorite programming language • Connectivity to enterprise identity providers



Integration foundation

Over 30 integration policy filters	<p>Data formats: XML, JSON, SOAP, REST, TEXT, HTML</p> <p>Data transport: SMTP, POP3, IMAP4, HTTP(S) 1.0 and 1.1, FTP(S), JMS, Filesystem, JDBC, Websockets as Proxy</p> <p>API definition standards: WADL, Swagger (1.0, 2.0), RAML, WSDL (SOAP1.1 and SOAP 1.2), Markdown for Documentation</p> <p>Enterprise Messaging Systems: JMS, IBM MQ Series, Active MQ, Tibco EMS</p>
Prebuild connectors and adapters	<ul style="list-style-type: none"> • Pre-built connectors for Salesforce, Azure, MS SQL, MySQL, MongoDB, Box, Swagger, Postgres • Composite connector for multiple data sources • Salesforce, Service Now with API Discovery • AWS S3 and AWS SNS
Mapping and transformation	<p>Graphically specify XML/JSON, JSON/JSON, XML/XML transformations</p>
Identity management	<p>Open authentication/authorization standards: LDAP, RADIUS, OCSP, SAML, XACML, OAuth 2.0 Client and Server, OpenID</p> <p>Connect Client and Server, API Keys (with Secret and without), AWS Style API Keys, Mutual SSL</p> <p>IAM integration: Okta, Ping Identity, Microsoft AD, Kerberos, IBM SDS and IBM Tivoli AM, CA SSO (formerly SiteMinder), Oracle AM/ES, RSA AM</p>
Data security	<p>Certificates, signatures and data encryption: PKCS, Kerberos, X.509 Certificates, XML Signature, XML Encryption, SSL/TLS, JWT, JWS, PGP, SMIME</p> <p>Compliance:</p> <ul style="list-style-type: none"> • Common Criteria Certification • Protection Profile for Enterprise Security Management – Access Control Version 2.1 • Enterprise Security Management – Policy Management Version 2.1 • FIPS and NIST B security compliance <p>Ws-* Standards:</p> <ul style="list-style-type: none"> • WS-Security, WS-Trust, WS-Federation, WS-SecureExchange, WSIL, WS-I, WS-Addressing, WS-SecureConversation, • WS-MetadataExchange, WS-SecurityPolicy, WS-PolicyAttachment • UDDI, WSRR, MTOM, WCF, XKMS • Tools for XPath, XSLT, XML Schema <p>HSM cards: Thales NCipher, Safenet Luna</p> <p>Anti-virus/Anti-malware: McAfee (Engine and Scan inside the application), ICAP Connector, Clam AV, Sophos</p> <p>AI-Powered API Security:</p> <ul style="list-style-type: none"> • PingIntelligence for APIs
REST-enabled MFT/B2B/EDI functionality	<p>Include available APIs for Axway MFT/B2B/EDI solutions in your API catalog</p>



 Analytics and monitoring

Operational metrics	Real-time, end-to-end visibility of API usage
Developer metrics	API consumer adoption metrics with visibility to top consumers, churn risk and quota status
API usage metrics	Measure most and least popular, volume, traffic and TPS
API performance metrics	API quality metrics with latency and error rates
API infrastructure metrics	Analysis of resource bottlenecks, error rates and latency
Traffic monitoring	Monitor and troubleshoot individual transactions, including drilling into processing steps and message content to perform rootcauseanalysis
Predictive analytics	Identify abnormal situations and use situational awareness to take proactive action before an issue becomes critical

Across products

Deployments	<ul style="list-style-type: none"> • Available in cloud, on-premise form factors and hybrid configurations • Elastic cloud deployment configuration supporting Kubernetes or Docker Swarm scales up or down to meet demand and incorporates scalable rate limiting for back-end protection • Geocustering available for both on-premise and cloud deployments
User experience	<ul style="list-style-type: none"> • Unified user interface • Single sign-on • Unified documentation portal

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