Axway Mobile Gateway

Build an API-first strategy for mobile applications and the Internet of Things

Axway Mobile Gateway provides the security and scalability digital enterprises need to expose data and services as mobile APIs to developers, apps and “things.”

With more than eight billion mobile devices in use worldwide today, it’s clear that mobile computing has forever changed the way we work, collaborate, purchase and play. And on the Internet of Things (IoT), there were more than 16 billion connected devices at the end of 2014, with that figure expected to rise to 40-50 billion by 2020 — creating a massive market, predicted to generate more than $19 trillion over the next five years.

The emerging digital economy and our ever increasing demand for mobile has created new IT challenges, as organizations race to execute a mobile strategy that gives employees, customers and partners the mobile access they demand while also securing data, minimizing risk, meeting regulatory demands and supporting the high data volumes generated and consumed by Internet-connected devices.

Axway Mobile Gateway provides the capabilities you need to quickly transform existing IT services and business applications into a lightweight, flexible and secure API-oriented platform for mobile devices, machine-to-machine communications and the Internet of Things.

Deliver mobile APIs on top of existing Web Services and application APIs

Mobile users spend an average of 81 minutes a day using native applications compared to 74 minutes using a browser. This is why the centerpiece of any mobile strategy must be the secure and efficient delivery of APIs to support native mobile applications and mobile browsers, and a central API-first architecture that will ensure re-use across mobile and other integration projects. However, most enterprise Web Services and APIs are not built on the right standards (such as REST, JSON and OAuth) and lack the security, control and monitoring required in the mobile world.

Feature Highlights

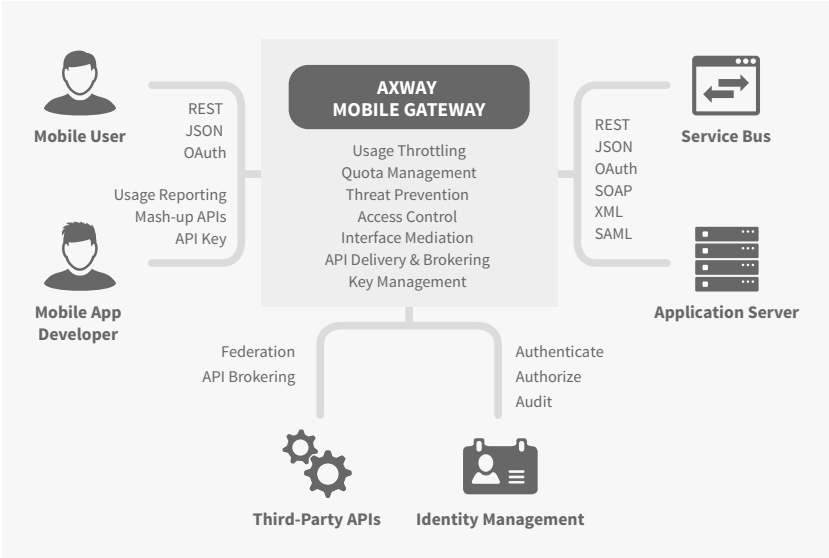
Enterprises and government agencies around the world rely on Axway to deliver scalable and secure mobile APIs that leverage existing application and security infrastructure.

Mobile API Management
Expose existing assets via secure, mobile-and connected-device-friendly APIs.

- Dynamically transform protocols, e.g. HTML5 WebSocket, REST, SOAP, JSON, XML
- Create API mash-ups
- Manage API versioning and lifecycle
- Virtualize APIs and ports
- Maintain backward API compatibility
- Standardize APIs across different application versions
- Onboard and manage developers, teams and partners
- Publish, promote and consume APIs through a self-service portal

Mobile Access Security
Protect mobile APIs from threats and integrate with security infrastructure.

- OAuth support
- Quota management and rate-limiting
- Integration with identity management platform for authentication and SSO
- Real-time threat detection and blocking, including message-level and data harvesting attacks
- Fine-grained, policy-based access control



Axway Mobile Gateway transforms existing systems and APIs into flexible and lightweight mobile-ready REST/JSON-style APIs on the wire. With support for a broad range of both standard and proprietary protocols including SOAP/XML Web services, Java APIs, JMS, FTP, TCP and WebSockets, just about any system can be accessed and used to deliver secure and scalable mobile solutions to smartphones, tablets and other Internet-connected devices.

Secure mobile access across devices and domains

A growing percentage of smartphone users also own tablets and additional phones for work or personal use, which complicates enforcement of security policies. Authentication, authorization and audit schemes must become more sophisticated to control mobile access that spans multiple devices and domains that are inherently less secure than non-mobile devices and domains.

With out-of-the-box integrations with all leading identity management platforms such as CA, Entrust, IBM, Oracle and RSA, Axway Mobile Gateway extends existing identity management platforms to handle new mobile requirements such as device authentication, identity federation (including OAuth) and contextual authorization. Axway Mobile Gateway also provides OAuth and SAML-based integration with cloud identity provider services such as Amazon, Facebook, Google and Twitter.

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Scale to handle increasing mobile traffic

Mobile computing can significantly increase application traffic, and scalability is crucial to ensuring the smooth delivery of rich content and interactions driven by technologies such as 4G networks, voice response and retina display.

Axway Mobile Gateway accelerates mobile API performance with wire-speed API delivery to any enterprise mobile platform — with no upgrades to back-end application resources required. Common CPU-intensive tasks such as parsing, schema validation, encryption and signing can all be offloaded to the Gateway to increase overall API throughput. The Gateway caches responses to high-frequency API calls to reduce the traffic going to the application server and databases.

Control mobile API usage

Compared to services used for B2B integrations, mobile APIs are exposed to larger and more diverse populations of developers and applications. This exposure introduces higher levels of operational and security risk. To guarantee high availability and a positive user experience for mobile APIs, you need an API delivery platform that provides security, control, monitoring and rich analytics.

Axway Mobile Gateway provides out-of-the-box capabilities to enable your technical staff to monitor, route, throttle, shape, and audit mobile API traffic at coarse or granular levels. Using any available attributes of the application, device, user, company or network, you can enforce quotas and service levels to manage mobile API traffic and operationalize the delivery of mobile APIs.

Enforce message-level security to protect mobile API traffic

Unlike network security appliances and web application firewalls, Axway Mobile Gateway detects and prevents message-level threats such as XPath and SQL injections, viruses and executables, large payloads, and other common attack mechanisms.

Out-of-the-box integration with CLAM AV, McAfee and Sophos detects and prevents common attacks against mobile APIs, including:

- Denial of service attacks
- Command injection attacks
- Malicious code and viruses
- Sniffing
- Spoofing, tampering, and impersonation
- Data harvesting
- Privilege escalation
- Reconnaissance

Feature Highlights

Mobile Traffic Control
Monitor, audit and control API traffic against policies.

- API usage tracking and analysis
- Traffic routing
- Traffic throttling
- Traffic smoothing and shaping
- Quota management
- Traffic management based on any device, user, company, application or network attribute

API Performance & Quality
Monitor and accelerate mobile API performance.

- Frequently used data cached to minimize repetitive calls
- CPU-intensive processing and security tasks offloaded to the Gateway
- Quality and performance monitoring
- Service level agreement monitoring and enforcement
- Alerts for API service degradation, outage or any failure to meet SLAs

For more information, visit www.axway.com