

# ENZO UNIFIED SOLVES THE CHALLENGES OF MOBILE ENTERPRISE BaaS

## Enzo Unified Enables Enterprise Backend as a Service and Simplifies Mobile Data Access

### CHALLENGES

- Mobile applications can become slower as number of users increases.
- Building a secured and flexible middle-tier for mobile devices is challenging.
- API learning curve slows down implementation timelines and raises complexity.

### SOLUTION

Enzo Unified offers a Backend as a Service for mobile enterprise development with built-in caching, improved security, and removes the API learning curve.

### BENEFITS

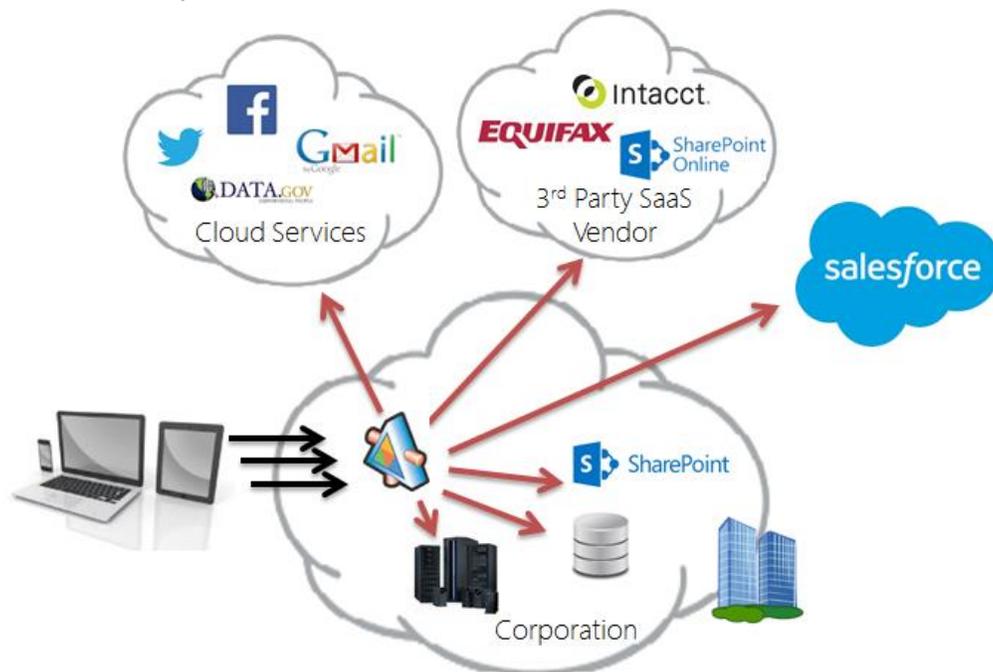
- Simplify mobile development and reduce IT complexity with an Enterprise BaaS.
- Improve security by centralizing authentication and auditing.
- Enhance performance by implementing centralized caching.
- Eliminate complex APIs to build applications faster.

Mobile computing is evolving at a rapid pace, offering convenience for consumers, new business models for companies and better tools to the mobile sales force. As such, companies strive to implement modern mobile applications that rely on a mix of enterprise data (such as customer data), real-time information (like weather data) and SaaS services (such as sending SMS messages). In addition to data access challenges, companies also need to build custom backend services (BaaS) including scheduled jobs, data caching (for performance reasons) and access to private storage (like internal databases). This creates further challenges for most organizations that need skilled resources to build such complex systems. As a result, companies that build enterprise mobile applications face three primary challenges: access to data (internal, legacy, and external) is hard because it usually involves APIs, complex security schemes, or additional middle-tier data services; backend services need to be built so that mobile devices do not perform CPU or memory intensive tasks; and a shortage of talent able to build a complete enterprise mobile application due to the level of complexity. How can companies build enterprise mobile applications much faster? How can organization simplify their data ecosystem for mobile computing without building custom services? How can a mobile application rely on a single authentication mechanism to make it easier to access internal, legacy and cloud data? How can an organization accelerate enterprise mobile projects? And how can a company build its own private BaaS for higher performance, stronger security, and simplified development?

## THE CHALLENGE

Building enterprise mobile applications can be both difficult and lengthy because IT departments need to create the middle-tier infrastructure necessary to access internal databases, legacy systems, files, and other services. This middle-tier infrastructure is needed for performance and security reasons, so that access to internal resources can be throttled, secured and audited. The ability to cache information in a way that is consistent for all users, across devices, can be difficult to achieve and requires senior resources on staff. In many instances, real-time (or near-time) information is needed which requires access to live systems (such as Customer Support databases, or marketing databases); while accessing this information directly can work for smaller implementations, larger organizations need to build a service layer that buffers access to these underlying systems to avoid potential performance degradation or even DoS (Denial of Service) Attacks.

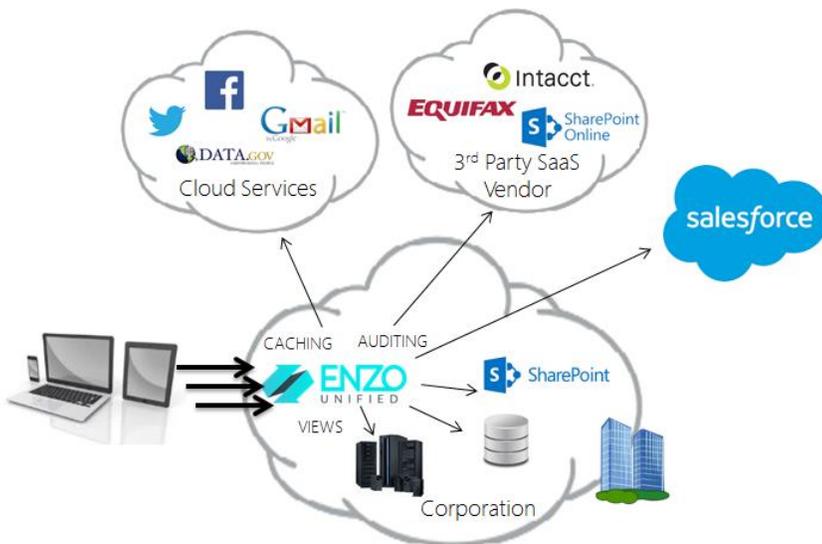
In addition, many of the systems being accessed by mobile applications require the use of complex APIs (such as an ERP system), which further increases the learning curve associated with building mobile applications. In many instances, the information needed by mobile applications is composed from multiple internal and external systems, such as databases and legacy systems, making it even harder to build and maintain. As a result, mobile development initiatives that tap into enterprise data sources and Internet services tend to face significant technical challenges related to complex service consumption, API learning curves, and data access security. Note that while mobile devices can connect to external services directly, it is often better to centralize access through an internal service for performance and security reasons.



## THE ENZO UNIFIED SOLUTION

Enzo Unified offers a unique BaaS platform that addresses the complex demands of mobile development by offering advanced caching and security options while significantly reducing the challenges of building common data views that merge information from multiple hybrid systems (both internal and external). The ability to implement flexible caching scenarios allows many devices to access near-time information with limited impact on performance since the information can be pooled asynchronously either on demand or on a schedule. With caching enabled, asking the same data from one or one thousand devices has no impact on performance on the underlying systems. In addition, caching helps significantly reduce latency on data sources that are far, or available through slow or unpredictable network routes.

In addition to caching, Enzo Unified allows developers to define Enterprise Views (or simply called views) that combine information from multiple systems, such as data from SalesForce, an internal SharePoint service and flat files, without the need to learn the underlying APIs. Views can access information from multiple disparate systems in parallel to provide greater performance. In addition, views can access information in real-time or return data from cache for faster response time. Because these views are exposed through Enzo Unified, they can be accessed easily from mobile devices using simple REST commands (through HTTP or HTTPS), allowing mobile developers to focus their energy on building more innovative solutions. In addition, these views can be used to mock data for testing purposes without accessing the actual underlying systems, offering maximum development and testing flexibility.



From a security standpoint, Enzo Unified acts as a proxy for both internal and external systems, providing strong data access segregation. This allows developers to use a single set of credentials to access information based on Access Control List (ACL) configured in Enzo Unified, and hide the actual credentials of the underlying systems. To tighten access control, the ACL in Enzo Unified can be configured to allow access to specific views only. In addition, Enzo Unified keeps an audit

of users and data requests providing the necessary information to support data governance initiatives.

## KEY USE CASES

- Build mobile applications faster without the need to learn new APIs
- Build centralized caching to reduce impact on internal and remote systems
- Create centralized views to simplify data access and reduce exposure of data loss

## FEATURES AND BENEFITS

- Simplify mobile development and reduce IT complexity with an Enterprise BaaS
- Improve security by centralizing authentication and auditing
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## SUMMARY

Organizations build increasingly more complex mobile applications for internal staff, mobile workforce and business partners in order to deliver better value and increase customer satisfaction. However most companies quickly face performance and security challenges as the number of devices grows, and spend more time learning new APIs as the ecosystem of data sources, both internal and external, grows over time. This increase in complexity means that organizations spend increasingly more time solving data challenges and less time building innovative solutions.

Enzo Unified solves this challenge by offering an enterprise BaaS that mobile devices communicate with securely. The enterprise BaaS solution offered by Enzo Unified allows companies to improve security and reduce the performance impact of larger deployment scenarios through the implementation of views, ACLs, auditing, and caching. With Enzo Unified organizations can focus on building more innovative mobile solutions, reduce IT complexity, and reduce implementation timelines.

## ABOUT ENZO UNIFIED

Enzo Unified is a data platform that helps companies reduce development and data integration project timelines, improve data quality, and increase operational efficiency by solving some of the most complex real-time data consumption challenges. For more information, contact [info@enzounified.com](mailto:info@enzounified.com), or visit [www.enzounified.com](http://www.enzounified.com).