

Lab Validation Report Summary

Connected Product Management with Xively

Providing Performance and Scalability for IoT Solutions, Connecting Products, Managing Data, and Engaging Customers

While IoT provides significant opportunities to create business value, organizations must harness the power of data to achieve these goals. Indeed, even though IoT is associated with connecting things, the value of IoT is locked inside the data obtained from these things, presenting IoT implementers with a three-part problem: moving the data, managing the data, and making the data actionable. Xively, the connected product management solution from LogMeIn, enables businesses to rapidly develop complete IoT solutions. Connected product management (CPM) helps companies corral the massive volume of IoT devices, users, and data into solutions that address the most pressing needs of today's businesses.

Get more information on Xively and the full ESG validation test [here](#)

The Product

Xively is an IoT solution that addresses the three main activities of connected product management: connecting devices, manage data, and engaging customers.

Xively simplifies the development of connected product systems, providing messaging and data logging services, and a C client library for devices, simplifying system development. The library provides messaging, security, and scalability for resource-constrained device environments.

Xively's management services enable provisioning and management of devices, device configuration, device firmware, users, groups, and passwords, removing this engineering burden from system developers. Xively provides numerous SDKs, enabling developers to build web apps and systems that interact with mobile devices.

Xively enables third-party application integration, and includes extensive Salesforce integration, enabling business automation such as Salesforce Service Cloud users seeing real-time connected device information and status inside their Salesforce application. Using Xively, developers can focus on providing value to the business with connected products.



? Why This Matters

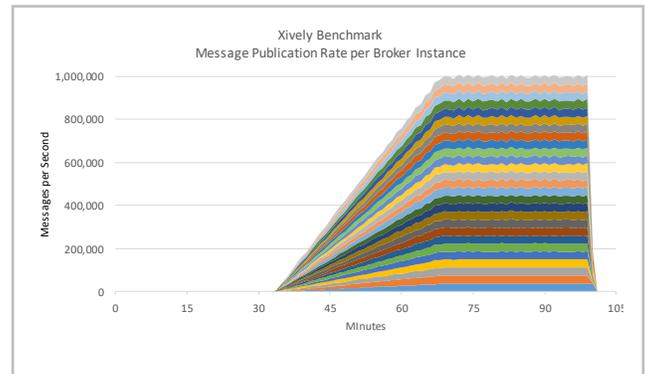
Bringing an IoT product to market is a complex and time-consuming effort. IoT systems demand infrastructures that support high throughput, low latencies, and flexible scalability to keep up with today's demands for moving data. In addition to creating the physical device, developers must connect the device to the Internet, structure and manage device data, and make that data actionable across their business. Extracting value requires a robust system of record, data analysis and integration with business apps.

ESG Lab validated that the Xively infrastructure with one cluster of nodes could sustain an astounding 1,000,000 messages per second sent and delivered, with an average latency of less than 25 ms. The Xively platform accelerates system development and time-to-market, providing secure communication, data management, and a visual business rules engine, enabling rapid business process development. Xively's Salesforce service console integration maximizes productivity while minimizing development effort. Xively is well suited for the most demanding connected product systems, which must sustain high transaction rates and low latencies, and scale as the solution grows, while rapidly integrating with third party applications.

ESG Lab Validation Highlights

ESG Lab performed hands-on evaluation and testing of Xively Connected Product Management IoT platform at LogMeIn's facilities in Boston, Massachusetts. The following is a summary of the results:

- Xively demonstrated the ability to sustain 1,000 connections per second and 1,000,000 messages per second sent and delivered, ensuring the service can meet the needs of the most demanding connected product applications.
- Messages were delivered with an average latency of less than 25 ms, providing the ability for Xively-based systems to operate in real time, controlling physical products with virtually no lag.
- The Xively platform-as-a-service infrastructure demonstrated greater than “three-nines” uptime—99.9% availability—ensuring connected products are highly available.
- The Xively development environment provides rapid prototyping features, enabling developers to model their connected products and develop applications without physical devices, accelerating time to market.
- ESG Lab observed that using Xively simplified product development. Developers can focus on creating the best product fit without investing significant time, effort, or money into custom engineering efforts.
- Xively's integration with Salesforce.com and other third-party applications enables developers to increase value by gathering data into existing or new business systems to drive automated business actions.



Issues to Consider

The results presented in this report are based on observations of application development workflows and activities. Due to the plethora and complexity of devices, processors, languages, libraries, and applications, it is recommended that developers investigate the applicability of Xively to their specific environment.

The test results presented in this report are based on applications and benchmarks deployed in Xively's production environment with industry-standard testing tools. Due to the many variables in each IoT use case testing your own overall IoT system architecture is recommended.



The Bigger Truth

A significant portion of organizations that are in the evaluation stage for IoT product development will need substantial guidance in navigating this complex landscape. But IoT decision makers don't just need to know what technologies are available to power IoT initiatives—they need to understand how technologies ultimately yield solutions that realize business benefits in the form of operational efficiencies, better customer engagement, enhanced products and services, and new business models.

Your IoT deployments will only be accelerated if ecosystem vendors and partners provide the right tools to help you shrink time to value. These tools include a solution-based approach that brings together technology, services, industry, and business process expertise. **During our validation, we found it quite impressive that Xively took the time and pain out of product development, enabling us to rapidly deliver a prototype, and then turn that into a deployed solution. We were equally impressed that the infrastructure could sustain 1,000,000 messages per second, meeting the needs of the largest IoT workloads. When you are searching for innovative ways to accelerate your IoT development and increase your product's business value, ESG recommends that you take a good look at Xively's platform for connected products.**

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