

## Single Sign On (SSO) Solution Implementation

### Client:

Ping Identity Corporation, a provider of enterprise software and services for standards-based Web single sign on.

### Summary:

Setting up an enterprise-wide Internet identity management program was a tremendously complex and costly process. Proprietary and federated standards were an improvement but were not scalable.

### Challenge:

Locating a partner to augment staffing and capabilities for a scalable solution based on two open security standards while delivering true interoperability.

### Why Luxoft?

- A track record of innovation and cooperation in the IT sector
- A strong work ethic
- A dedicated work team
- A believer in Agile methodology
- Quick response in delivering results



**Ping Identity**<sup>®</sup>

### A Fast New Approach to Implementing Security Token Service

Historically, setting up an Internet identity management program across the enterprise was a nightmare sometimes lasting for months. The reason was that IT professionals had to struggle to integrate their own company employees, customers, trading partners, employees of acquisitions, affiliates, subsidiaries and joint ventures and perhaps countless other entities into a “manageable” federated identity management program.

Ping Identity was all too familiar with the challenge. As noted by Bill Wood, VP of Engineering for the Denver-based company, “A representative scenario could involve a client’s employees accessing up to a dozen or more different resources to do their daily jobs. This can entail an equal number of different user names and passwords,” he explains. “Any time a new entity comes on board it is back to square one to implement the integration process.”

Proprietary single sign on (SSO) solutions do not solve the problem largely because each time access is needed for a new partner a different security protocol must be implemented. The system becomes increasingly unwieldy and costly to manage.

Federated identity standards such as Security Assertion Markup Language (SAML) and WS-Federation offered by incumbent identity management stack vendors represent a substantial improvement over proprietary solutions. The problem is that they generally fail to meet scalability requirements, require 6 to 9 months to implement the first partner connection, and can force users into massive and costly upgrades to add Internet SSO.

### Searching for a Better SSO Solution

Ping was determined to cut SSO implementation to days instead of months, and add additional identity connections in hours. “After working several months with an ineffective and unproductive offshore operation, Ping Identity launched a two-month capability search,” o Wood reports. “The search covered 15 companies across 8 countries, landing at last with Moscow-based Luxoft.”

## Solution:

A Ping - Luxoft collaborative effort continues to yield impressive results across a variety of Ping's activities, an example being the capability to implement customers' secure Internet SSO in 30 days or less and turn around subsequent connections in less than a week.

## Results:

According to the client Luxoft took a proprietary test system and process that was not working as developed by another offshore provider and turned it into a "proof of performance" baseline on which Ping tests all of its fundamental protocols.

## Platforms & Technologies:

- Domain Skills
  - C, Java, .Net
  - SOAs
  - WS-Security
  - SAML 1.1 and SAML 2.0
  - Kerberos
- User Profile
  - Enterprise
- System geography
  - Worldwide
- Number of Users
  - NA
- Team Size
  - 15 Luxoft professionals in Moscow
- Duration
  - An ongoing relationship now approaching 5 years

*"Ping shifted from an offshore-developed program and process that was not working and with the help of Luxoft turned it into a baseline on which we test all of our fundamental protocols. It has become a new validation standard for Ping. We view it as a 'conformance engine' or 'proof of performance standard' the team put together with the first results within six weeks of getting the assignment. Put another way, Luxoft continues to contribute to our portfolio of products including server-based and adapter software as well as software quality."*

*Bill Wood, VP Product Development, Ping Identity*

According to Ping, factors leading to the selection of Luxoft included:

- An excellent track record of innovation and cooperation in the IT services sector
- A stable roster of experienced IT professionals with a dedicated work ethic
- A willingness to propose different courses of action when thought necessary
- A dedicated working team of 15 Luxoft professionals in Moscow
- A user of Agile methodology consistent with Ping's North American product development and testing teams

Wood notes that Agile is increasing in popularity because it relies on iterative incremental work of self-organized and self-managed teams. "The result is faster, more collaborative software development compared to document-heavy predictive processes," he says. "We are especially impressed about the speed at which Luxoft moved into action— approximately three months between RFI to contract to staffing the Luxoft team. They proved far more efficient than a previous vendor in India."

## Results

The collaboration began to show results in relatively short order as the Luxoft and Ping teams quickly established a smooth working relationship. "This relationship continues to contribute substantially across a variety of Ping's activities including requirements analysis; testing, product development and deployment strategies that together broadly support Ping's SSO services," Wood says. He adds "Contributions include successful augmentation of Ping's development capacity in Java, .Net and C skills, all furthering our ability to implement customers' secure Internet SSO in 30 days or less and turn around subsequent connections in less than a week."

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