



PingFederate®

Internet Identity Security Platform

PingFederate delivers immediate business value:

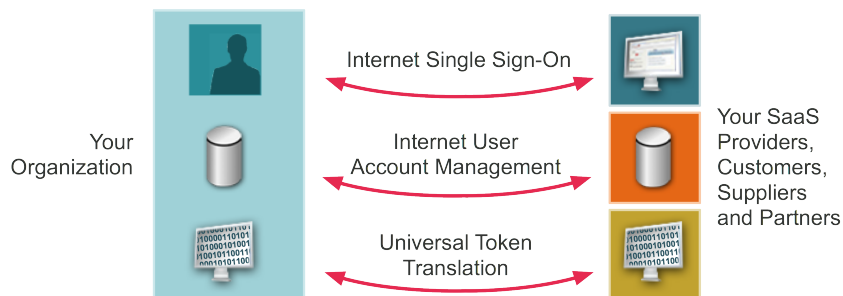
- Increased user productivity
- Improved security
- Improved compliance
- Reduced IT costs
- Reduced help desk costs
- Increased user adoption rate
- Increased agility and competitiveness
- Additional revenue opportunities

PingFederate is the first Internet Identity Security Platform that delivers an enterprise-class, scalable, cost-effective and standards-based software solution for managing all of your external identity connections with customers, Software-as-a-Service and Business Process Outsourcing providers, partners, affiliates and others. You can have Internet Single Sign-On and Identity-Enabled Web Services connections in days with point-and-click configuration, out-of-the-box integration capabilities, multi-protocol support and automated user account management. That's why hundreds of enterprises and service providers base their Internet Identity Security strategy on PingFederate.

Lowest Cost Per Connection PingFederate's support for industry standards, easy to deploy architecture and centralized management services provide an out-of-the-box solution that is significantly less expensive to own and maintain than building proprietary connections, using open source-based solutions or upgrading an existing Identity Management Stack.

Works with What You Have Thanks to an ever-growing list of off-the-shelf add-on modules, PingFederate easily integrates with whatever identity management and application deployment infrastructure you already own. PingFederate eliminates the major system integration and upgrade projects required with other Internet identity products.

Easy to Deploy Internet SSO projects have a reputation for being lengthy. PingFederate deploys in days, not months, and additional identity connections take hours. PingEnable, Ping Identity's implementation services, support services, expert methodologies and training encompass lessons learned from over 300 implementations, ensuring success whether it is your first connection or your 100th.



PingFederate delivers Internet SSO, Internet User Account Management and Identity-Enabled Web Services



Three Types of Identity Connections

PingFederate supports three types of secure Internet identity connections:

Internet Single Sign-On Users sign on once to their corporate network and PingFederate securely and transparently communicates their identity to Internet applications, removing the need for subsequent application sign ons.

Identity-Enabled Web Services After a user's identity has been received by a Web application, it may need to share that identity with "downstream" Web Services. PingFederate Identity-Enabled Web Services is the "glue" needed for this process to occur.

Internet User Account Management Internet application user accounts are automatically created, updated and deleted throughout the user's organizational lifecycle.

Internet Single Sign-on

Multi-Protocol Support PingFederate provides flexible, integrated support for all versions of the SAML protocol (1.0, 1.1 and 2.0), as well as WS-Federation. All commonly-used SAML profiles, bindings and other features of the standard profiles are supported.

Identity Mapping and Attribute Retrieval PingFederate supports Identity Mapping, the core of identity federation, through Account Mapping and

Account Linking. Service Providers can translate or map to identities in local data stores based on attributes included in the incoming SAML assertion. Attributes can be retrieved through PingFederate's external data look-up capabilities from JDBC, LDAP and other resources for inclusion within SAML assertions and attribute queries for Account Mapping and Linking, as well as making authorization decisions.

Integration Kits For identity providers, PingFederate Integration kits provide "first mile" integration with Web access management systems, directories, portals and authentication systems—including strong authentication mechanisms. For service providers, PingFederate Integration Kits provide links into target application environments including Web Servers, applications servers and custom applications.

PingFederate Express™ integration enables rapid, maintenance-free PingFederate Internet SSO Service Provider endpoints in minutes. PingFederate IdPs create PingFederate Express configurations using a connection template and then export a PingFederate Express configuration file. The Service Provider then installs PingFederate Express using the supplied configuration file with no identity federation knowledge required. A new PingFederate digital signature option eliminates partner certificate management by removing the burden of annual certificate exchanges.



PingFederate

Internet Identity Security Platform	Internet SSO Standards-Based Federated Identity	Internet User Account Management Express and SaaS Provisioning	Universal Security Token Translation Security Token Service	
	Configuration & Administration		Runtime Services	
Add-On Modules	Integration Kits	Security Token Translators	SaaS Connectors	PingFederate Express

The PingFederate Internet Identity Security Platform delivers Internet SSO, Identity-Enabled Web Services and Internet User Account Management in a single software product with common configuration, administration and runtime services

Identity Enabled Web Services

Security Token Service: PingFederate acts as a WS-Trust Security Token Service (STS), creating and validating security tokens that get bound into SOAP messages to transport identity information in a secure, standards-based manner.

Security Token Translators integrate with local security domains and WS-Trust client SDKs allow Web Services developers to send security tokens to the PingFederate STS for validation, processing and translation.

Application Integration: WS-Trust client SDKs for Java and .NET applications provide developers with interfaces for interacting with the PingFederate STS by sending and receiving requests to create, validate and exchange security tokens.

Identity Mapping and Attribute Retrieval: When PingFederate is configured as an STS it enables Account Mapping. Service Providers can map identities to local data stores based on attributes included in the incoming SAML assertion. Attributes can be retrieved through PingFederate's external data look-up capabilities from JDBC, LDAP and other resources for inclusion within SAML assertions and attribute queries for Account Mapping as well as making authorization decisions.

Internet User Account Management

SaaS Provisioning automatically replicates account creations, changes and deletions in the SaaS customer's directory to SaaS providers' directories. PingFederate monitors the enterprise directory for changes in a designated group or filter. When administrators make such changes, PingFederate pushes them to the SaaS provider's directory at user-defined intervals, ensuring that only appropriate users have access to the application.

SaaS Connectors include the components required for SaaS Provisioning, eliminating manual account setup for SaaS Applications. Connectors also include Quick Connection templates to simplify connection setup with pre-populated connection settings, user/account provisioning parameters, and SSO endpoint parameters. Finally, they allow PingFederate to SSO-enable the numerous means that users employ to access their SaaS applications: desktop browsers, mobile device browsers, and even rich client applications such as Outlook email plug-ins.

Express Provisioning creates accounts at a Service Provider for users when they first attempt SAML-based SSO into the application. It creates accounts on-the-fly in the Service Provider's local directory (Active Directory, LDAP or JDBC), eliminating the need to implement a separate process to pre-provision users at the SP.

Configuration and Administration Console

Graphical User Interface: PingFederate's GUI-based administration console reduces the complex process of building external partner connections to just a few steps. By following prompts and screens to configure Internet SSO and Identity-Enabled Web Services connections, new connections can be live in just a few hours, even for administrators new to identity federation.

Administrator Access: Role-based access rights can be established for users of the Administrator Console, limiting access to specific tasks. These roles include User Administrator, Administrator, Crypto Administrator and Auditor. Authentication to the Administrator Console can be configured using an LDAP data store either by assigning an individual user or an LDAP group. Access to the PingFederate console can be optionally secured via X.509 certificate, providing stronger security if required.

Certificate Management: PingFederate eliminates manual command-line PKI certificate management by incorporating fully-featured, GUI-based certificate management capabilities. PingFederate also provides automatic notifications to the administrator when certificates are about to expire, and a new digital signature processing model simplifies partner certificate maintenance by removing the annual burden of exchanging signing certificates.

Common Runtime Services

Scripting Interfaces: Deep Web Services and scripting interfaces are available for interacting with a PingFederate server outside of the user interface. The Web Services interfaces can be utilized by external clients for Connection Management and interfacing with PingFederate's SSO directory service. In addition, a configuration automation tool can be used for scripting migrations of connection and configuration information between PingFederate instances, simplifying the development-test-production lifecycle.

Clustering: PingFederate provides high availability for critical services through self-contained clustering that delivers fail-over and performance scalability, even for geographically distributed data centers. User-session states and configuration data are shared among the servers, enabling them to process requests as a single entity, transparent to the user.

Logging and Reporting: PingFederate provides extensive logging that can generate highly detailed details. The logs, which can be viewed using third party tools, include Administrator Audit, Runtime Transaction, Server and Provisioner Logs. They can be used for compliance audits as well as troubleshooting.

"Ping Identity has developed a distinctive Internet Identity Security Platform that organizations can readily deploy today rather than pinning their hopes on what tomorrow's approaches may (or may not) bring.

As applications continue to move into the Cloud, PingFederate provides compelling business value for enterprises, government entities and service providers alike."

Scott Crawford

Managing Research Director,
Enterprise Management Associates



Technical Specifications

Minimum Hardware

- Intel Pentium 4, 1.8 GHz Processor
- 1GB RAM
- 250 MB free hard drive space

Supported Platforms

- Red Hat Enterprise Linux
- SUSE Linux Enterprise
- Solaris 10
- Windows 2003 Server*
- Windows 2008 Server
- Windows XP Professional*

*Supports VMware

Supported Standards

- SAML 1.0, 1.1, 2.0
- WS-Federation
- WS-Trust 1.3

Supported Browsers

- Internet Explorer v6.0, 7.0
- Firefox v2.0, 3.0

Integration Kits

- Java (IdP, SP)
- NET (IdP, SP)
- PHP (IdP, SP)
- CA SiteMinder (IdP, SP)
- Oracle Access Manager (IdP, SP)
- Microsoft Windows IWA/NTLM (IdP)

- LDAP (IdP)
- X.509 Certificates (IdP)
- BEA Weblogic (SP)
- IBM WebSphere (SP)
- SAP Netweaver (IdP, SP)
- Microsoft SharePoint (SP)
- Citrix Presentation Server (SP)
- Apache (SP)
- Microsoft IIS (SP)
- IBM Tivoli Access Manager (via WebSEAL) (IdP)

SaaS Connectors

- Google Apps
- Salesforce CRM

Security Token Translators

- User Name/LDAP (IdP)
- CA SiteMinder (IdP)
- Oracle Access Manager (IdP)
- Microsoft Kerberos (IdP)
- X.509 Certificate (IdP)
- Ping Identity OpenToken (IdP, SP)
- SAML 1.1 (IdP, SP)
- SAML 2.0 (IdP, SP)

Security Token Server SDKs

- Java
 - .NET (WSE3)
- Interoperable with WCF Clients

About Ping Identity Corporation

Ping Identity is the market leader in Internet Identity Security, delivering on-premise software and on-demand services to hundreds of customers worldwide. For more information, dial U.S. toll-free 877.898.2905 or +1.303.468.2882, email sales@pingidentity.com or visit www.pingidentity.com.

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