

# One Identity Safeguard Authentication Services

The next generation of Active Directory bridge technology

## Introduction

One Identity Safeguard Authentication Services by Quest provides enterprisewide access, authentication and authorization for UNIX, Linux and Mac OS X systems by using an organization's existing Active Directory (AD) infrastructure. Safeguard Authentication Services' patented technology allows non-Windows resources to become part of the AD trusted realm, and extends AD's security, compliance and authentication capabilities to UNIX, Linux and Mac OS X.

Safeguard Authentication Services is the undisputed leader in the Active Directory bridge market with nearly 1,500 customers and more than 5 million deployed licenses. Only Safeguard Authentication Services provides the functionality, flexibility and scope of integration to meet the needs of the most complex and demanding heterogeneous global organizations.

## Tools for managing your AD bridge

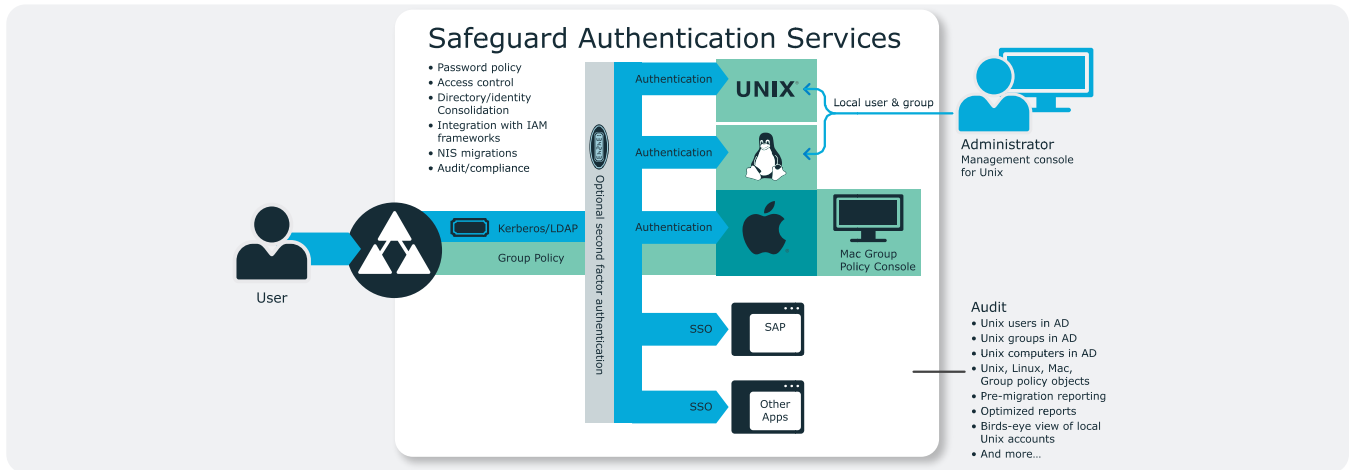
Safeguard Authentication Services has robust and flexible UNIX utilities, as well as flexible deployment options. It contains a powerful set of tools for creating and managing your AD bridge, including:

- Product configuration and licensing
- Guidance to help with initial setup and integrating systems with AD

## Benefits

- **Eliminates complexity** by allowing UNIX, Linux and Mac OS X systems to participate as "full citizens" in Active Directory
- **Consolidates the administration** of AD-enabled systems and AD Bridge
- **Delivers strong authentication** as part of the AD bridge solution
- **Provides centralized authentication** and single sign-on
- **Facilitates the migration of all systems and users** to a single Active Directory-based infrastructure
- **Simplifies** security and compliance

- A broad range of migration and deployment options
- NIS migration tools with pre-migration assessment and preparation
- Group Policy and local UNIX users and groups management tools
- Simplified and compliant auditing and reporting
- Strong authentication for non-Windows systems



**Safeguard Authentication Services** natively implements Kerberos, LDAP and single sign-on for UNIX, Linux and Mac OS X systems in the same way they are implemented in Windows.

### Strong Authentication

Safeguard Authentication Services includes licenses for powerful AD-based, one-time password (OTP), strong authentication across all supported UNIX, Linux and Mac OS X platforms. In addition, Safeguard Authentication Services extends Windows-based smart cards to UNIX and Linux and supports third-party OTP solutions.

### Audit, alerting and change tracking

Only Safeguard Authentication Services gathers the vital data demanded by auditors. Safeguard Authentication Services enables you to audit, alert and provide a detailed change history of UNIX-centric information managed by Active Directory.

### Compliance

Safeguard Authentication Services uses the same industry standards as AD to provide a compliant alternative to multiple identity stores and points of authentication, as well as noncompliant directories, such as NIS. It also quickly and easily gathers the critical information demanded by auditors, and seamlessly facilitates strong authentication for non-Windows systems.

### Migration

Ideally, most heterogeneous organizations want to consolidate into one secure and robust directory for all of their systems. Safeguard Authentication Services can help you quickly achieve that goal by streamlining the process of integrating UNIX, Linux and Mac OS X systems and users to the AD domain. It also facilitates a fast and accurate migration from multiple authentication mechanisms, identities and directories into a single AD-based infrastructure. Capabilities include:

- Mapped User Mode provides an elegant alternative to a full migration. It allows the migration to proceed at its own pace while quickly resolving the most pressing compliance requirements. Mapped User Mode enables organizations to achieve immediate compliance with no impact on the Active Directory schema.
- UNIX Personality Management creates alternate UNIX “personalities” to define profiles in AD for different systems, using standard schema attributes based on the default AD schema definition.
- Ownership Alignment Tool simplifies the time-consuming final step of resolving user-ID conflicts at the end of a migration.
- It provides a flexible tool set for aligning the ownership of conflicting files; this allows you to quickly realign user namespace conflicts before, during or after your primary migration to AD.
- Full RFC 2307 NIS Map Support provides full support for users migrating their NIS infrastructure into Active Directory’s RFC

2307 NIS maps, enabling them to completely retire their existing NIS infrastructure. RFC 2307 is supported with advanced NIS map import wizards, NIS map editors for Windows, and full RFC 2307 support in the Safeguard Authentication Services NIS proxy.

- UNIX Account Import Wizard imports users and groups to personalities from sources such as NIS, local files or remote shells. It also enables you to choose sophisticated matching criteria (for linking to account principal) from pop-ups. This greatly simplifies the tedious work of migrating users into AD.

## Enterprise Group Policy

Safeguard Authentication Services provides an easily implemented, infinitely scalable, and natively integrated extension of the Windows Rights Management Service Group Policy to UNIX, Linux and Mac OS systems. Through this framework, you can leverage the existing Group Policy extensions built into the product, or develop your own based on the simple ADM template methodology, or the more capable client-side extensions.

## Safeguard Authentication Services includes generic scripting, file copying and customization, as well as a collection of powerful prepackaged Group Policies and flexible policy management.

In addition, the product leverages existing Windows security policies, making AD entirely authoritative for UNIX, Linux and Mac OS X access control. Safeguard Authentication Services includes a powerful Group Policy interface for Mac OS X systems that provides control over the entire range of Mac policy and preferences, including support for third-party applications through Preference Manifest integration.

## Safeguard Authentication Services also audits and tracks changes to Group Policy Objects.

Overall, the installation of One Identity software products has reduced downtime and saved the bank around 100 staff-days of work each year.

*Alexander Nesterenko,  
Deputy Head of the IT Support Department*

## Active Directory for UNIX, Linux and Mac OS X

Safeguard Authentication Services seamlessly extends an existing AD infrastructure to the rest of the enterprise. Safeguard Authentication Services natively integrates UNIX, Linux and Mac OS X systems to allow them to act as full citizens within AD and benefit from AD's security and compliance advantages. Key capabilities include:

- Extends AD password policy to UNIX, Linux and Mac OS X
- Supports the most complex AD environments including multiple domains, cross-forest trusts, and nested groups
- Leverages AD's AES 128 strong encryption (128-bit keys) for UNIX, Linux and Mac OS X to enhance security
- Synchronizes UNIX system clocks with AD
- Supports the RFC 2307 schema definition
- Supports custom schema configuration as well as implementation options for pre-R2 schemas without extension.

## Centralized authentication and single sign-on

Safeguard Authentication Services natively implements Kerberos and LDAP on UNIX, Linux and Mac OS X systems in the same way they are implemented in Windows. In addition, it provides single sign-on SAP, a powerful application programming interface (API) that allows you to add single sign-on to internally developed applications and guidance for creating single sign-on to a number of popular applications (such as DB2, PuTTY, Samba and Apache).

## Centralized access control

Safeguard Authentication Services enables you to configure access rules using several options:

- Local, file-based access lists that determine what users can access on the UNIX and Linux machines (down to the level of the individual services). These can then be centrally managed through Group Policy.
- UNIX Personality Management helps control access by defining the user namespace for a given set of computer hosts.
- Windows security policies and the User Workstation features can provide granular, per-user access control to UNIX computer objects in AD.

## Simplified identity management

Safeguard Authentication Services enables you to simplify identity management based on your existing AD investment. Using Safeguard Authentication Services, AD-based identity management solutions— including those for provisioning, password management, strong authentication, privileged account management, and auditing and reporting—from and other vendors can be naturally extended to non-Windows systems.

Safeguard Authentication Services can also work with an existing IAM framework to **reduce the number of systems that require custom integration** and individually managed connectors.

Extensive cross-platform support Safeguard Authentication Services provides centralized authentication support for the widest range of UNIX, Linux and Mac OS X platforms including Solaris, IBM AIX, HP-UX, SuSE, RedHat, Fedora, VMware, and others. For a complete list of supported platforms refer to [oneidentity.com/Safeguard-Authentication-Services](https://oneidentity.com/Safeguard-Authentication-Services)

## About One Identity

One Identity delivers unified identity security solutions that help customers strengthen their overall cybersecurity posture and protect the people, applications and data essential to business. Our Unified Identity Security Platform brings together best-in-class Identity Governance and Administration (IGA), Access Management (AM), Privileged Access Management (PAM) and Active Directory Management (AD Mgmt) capabilities to enable organizations to shift from a fragmented to a holistic approach to identity security. One Identity is trusted and proven on a global scale - managing more than 500 million identities for more than 11,000 organizations worldwide.

For more information, visit [www.oneidentity.com](https://www.oneidentity.com).