Upgrading CA Directory

CA Directory is a mature directory server that provides the scalability and reliability needed to support the most demanding online services. Its superior technology enables ultra-high-speed performance for both read and write operations as well as transparent distribution and replication to scale to any number of servers.

The table below provides a simplified summary of enhancements introduced in recent versions, key among which are:

1. Next–generation, simple-to-use UI for configuring and operating your distributed CA Directory infrastructure
2. REST–based management APIs for automated deployment and monitoring of CA Directory instances
3. Stronger password hashing algorithms and hardened binaries for enhanced security
4. Multilink DSP connections for higher search performance
5. Oracle DSEE bidirectional synchronization tool to allow customers to migrate off this legacy directory

Upgrading to the latest version provides the greatest breadth of capabilities to securely enable your business.
For additional detail related to the items in the table below please review the technical guides.

Overall upgrade benefits include:

- Improved security
- Improved user experience
- Simplified administration
- Lower total cost of ownership

For additional detail related to the items in the table below, please consult the technical guides.

Features—Directory Services	12.0.17*	12.0.18*	12.5	12.6*
Legacy directory server migration. CA Directory now supports add and modify requests containing null attribute values in order to support users migrating from legacy LDAP servers.	✓	✓	✓	✓
RFC 3062 support. CA Directory now supports RFC 3062, LDAP Password Modify Extended Operation.	✓	✓	✓	✓
Dynamic group enhancement. CA Directory now allows you to use the set dynamic-group command to manually exclude group members from a dynamic group members attribute.	✓	✓	✓	✓
SCIM server. CA Directory provides a SCIM server and supports the 1.1 specification and core schema.	✓	✓	✓	✓
DSP enhancements. CA Directory now supports multi-link DSP connections for improved performance.	X	X	✓	✓
Features—Improved Security				
CAPKI upgrade. CA Directory now uses the embedded CAPKI v5.0.2 (OpenSSL 1.0.1p), which supports TLSv1.2, for enhanced security.	✓	✓	✓	✓
Tomcat upgrade. CA Directory now ships with Tomcat 6.0.44, which addresses a number of security vulnerabilities.	✓	✓	✓	✓
SSL settings. Two new SSL protocol settings are introduced to limit the negotiated protocol to TLS1.1 (tlsv11) and TLS1.2 (tlsv12).	X	✓	✓	✓
Packet corruption. CA Directory addresses two serious instances that could lead to response network packet corruption. As a result of packet corruption, the LDAP client rejects the response as invalid.	X	✓	✓	✓
Password hashing. CA Directory now supports SCRYPT/BCRYPT password hashing.	X	X	✓	✓
CAPKI update. CA Directory now uses the embedded CAPKI v5.2, which replaces the BSAFE libraries for enhanced security.	X	X	X	✓

some of these enhancements introduced in CRs on these releases

CHART KEY:

- *Expanding support for enabling secure business through new applications and new use cases*
- *Simplifying use and lowering TCO*

Features—Authentication, Authorization and Session Management (continued)

Administration and Supportability				
SSL auditing. When SSL is enabled, the logs include the version in use, when possible.	✓	✓	✓	✓
Simplified installation. CA Directory now supports installation using Debian and RPM packages	X	✓	✓	✓
Log rollover. CA Directory now allows users to set maximum lines threshold for each log type. When this threshold is reached, the DSA rolls the logs roll over. You can also roll over logs on demand.	X	✓	✓	✓
DSA force start. A forcestart command-line option has been added, which allows starting a DSA that might not start due to its inconsistent state.	X	X	✓	✓
Browser-based UI. CA Directory now comes with a brand new management UI that is intuitive, easy-to-use and quick to deploy.	X	X	✓	✓
Automated operations. CA Directory now provides REST APIs for configuration and management.	X	X	✓	✓
ODSEE migration. Provides bidirectional synchronization between ODSEE and CA Directory to assist customers migrating off ODSEE.	X	X	X	✓
Platforms and Internals				
64-bit support. CA Directory server components can run on 64-bit platforms.	✓	✓	✓	✓
Operating system support: Red Hat 6.7	✓	✓	✓	✓
Red Hat 7.2	✓	✓	✓	✓
SUSE 12 SP1	X	✓	✓	✓
Red Hat 6.8	X	X	✓	✓
Ubuntu 16.04	X	X	✓	✓
CentOS 6.8	X	X	✓	✓

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CHART KEY:

☐ *Expanding support for enabling secure business through new applications and new use cases*

☐ *Simplifying use and lowering TCO*

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