Upgrading CA Advanced Authentication

CA Advanced Authentication is a flexible, scalable solution that incorporates risk-based authentication methods like device identification, geolocation and user behavior profiling, as well as a wide variety of multifactor, strong authentication credentials. This solution helps organizations provide the appropriate authentication process for each application to protect against online identify fraud and inappropriate access.

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

- **Push notification**
- **Authentication flows base on risk score**
- **Microsoft® Office 365® integration (passive mode only)**
- **Configurable import/export tools for profiles and rulesets**

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 user experience and security**
- **Simplified administration**
- **Lower TCO**

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

Authentication	8.0	8.1	8.1.3*	8.2
Credential SDKs. We are delivering SDKs for the CA AuthID (formerly ArcotID) and CA Mobile OTP (formerly ArcotOTP) that are designed to link into desktop platforms. These SDKs enable customers, system integrators and our CA Services teams to write custom PC-based applications to address customer needs.	X	✓	✓	✓
Callout. With this feature, you can write your own custom authentication in Java™.	X	X	✓	✓
CA desktop OTP clients. Due to browser vendors removing support for applets and plugins, we now provide desktop clients that can be downloaded onto Windows® and Apple computers.	X	X	✓	✓
Push notification. Push notification is now supported as an authentication mechanism. You can leverage our free mobile app to receive the notification or use the SDK to embed the notifications into their existing apps.	X	X	X	✓

* CA Advanced Authentication 8.1.1 and 8.1.2 were primarily maintenance releases, although 8.1.2 did introduce custom actions.

CHART KEY:

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

▮ *Simplifying use and lowering TCO*

Risk Analysis	8.0	8.1	8.1.3*	8.2
User behavior profiling. A self-learning model measures the similarity or difference of the current transaction to prior access by the same user, and can initiate action when the user's behavior deviates from the norm.	✓	✓	✓	✓
REST-based APIs. REST APIs have been implemented for requesting risk assessment. This simplifies the integration of risk-based analysis with mobile- and web-based apps.	X	✓	✓	✓
Mobility index. Mobility index is part of the user behavior profile. This helps you determine how typical a login of a particular user is when compared to similar users.	X	✓	✓	✓
Risk thresholds. Risk thresholds can be set for organizations and each organization can have its own risk advice thresholds.	X	✓	✓	✓
New user behavior rule. New product installations include a default rule that fires when the model score exceeds 50. This rule can be created manually if you are upgrading from a previous version.	X	✓	✓	✓
Mobile DeviceDNA libraries. We provide iOS and Android libraries to collect unique data available on mobile devices that enables identification of a user's mobile device. The machine signature (device fingerprint) matching uses an algorithm that is tuned for mobile DeviceDNA™.	X	✓	✓	✓
Custom rule types. If the rules included with the product do not meet your needs, developers can now create custom rule types.	X	✓	✓	✓
Custom actions.* You can define a custom action in addition to the default actions provided for the risk rules.	X	X	✓	✓
Secondary authentication flows based on risk score. The solution allows you to set different types of authentication mechanisms used for step-up based on risk score.	X	X	X	✓
Administration and Supportability	8.0	8.1	8.1.3*	8.2
Silent install. The silent mode of installation is supported on both Windows and UNIX®.	✓	✓	✓	✓
Mobile channel. We now install a new channel designator "MOBILE," which allows you to set different rules and policies for mobile channel (vs. web channel). In addition, reports also show tabs for web and mobile (if enabled).	X	✓	✓	✓
Audit log data management. This feature provides the ability to trim the audit log data using an automated process.	X	✓	✓	✓
Upgrade tool. An upgrade tool is provided to help customers running on WebFort 6.2.x or 7.1.x and/or RiskFort 2.2.9 and above or 3.1.x to upgrade to the latest release of the product.	X	X	✓	✓
Configurable import/export tools. We now provide configurable utilities that allow customers to import and export configuration data to migrate it from one environment to another.	X	X	X	✓

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Platforms and Internals	8.0	8.1	8.1.3*	8.2
SHA-2 support. SHA-2 based certificate support is available for SSL communication across all the components.	X	X	✓	✓
TLS support. TLSv1.0, TLSv1.1 and TLSv1.2 protocols are now supported.	X	X	✓	✓
CA SSO adapter. Integration with the 64-bit version of CA SSO is now supported by the adapter.	X	X	✓	✓
Office 365 integration. We now provide native integration to Office 365 that allows you to use the 2FA (CA AuthID or CA Mobile OTP) and/or risk-based authentication as part of the login process (passive only).	X	X	X	✓

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For more information, please visit **ca.com/multifactor-authentication**

CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate – across mobile, private and public cloud, distributed and mainframe environments. Learn more at **ca.com**.