

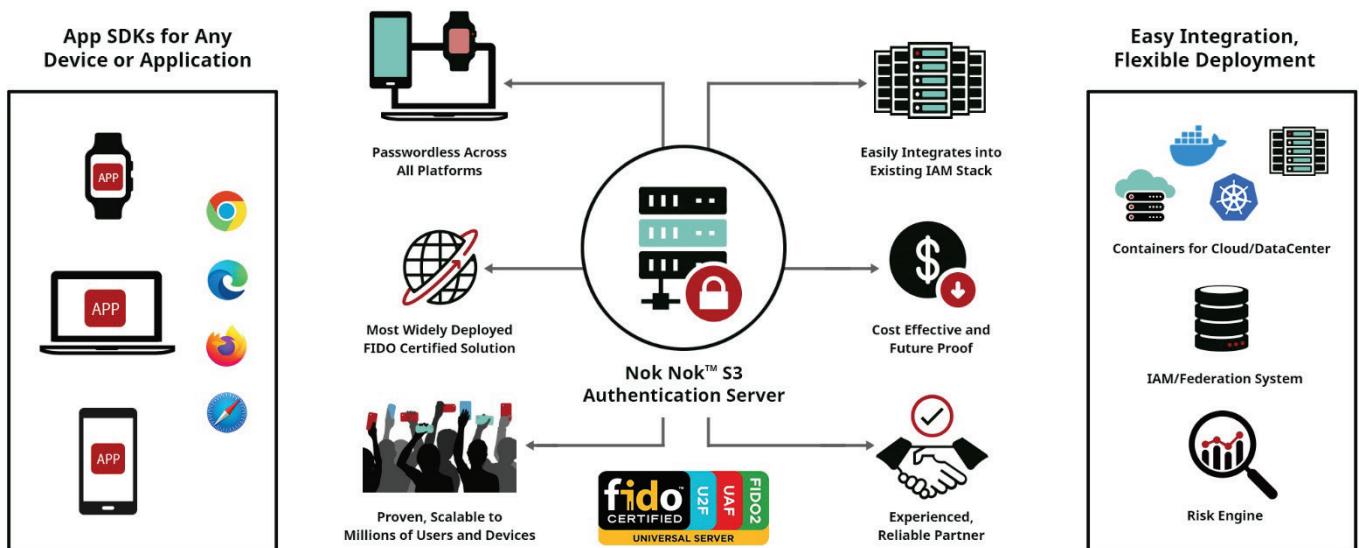


S3 AUTHENTICATION SUITE DATASHEET

The Nok Nok™ S3 Authentication Suite (S3 Suite) provides passwordless authentication that is significantly more user-friendly than legacy authentication and is more secure than traditional two-factor authentication, creating a vastly improved user experience and reduced account takeover.

The S3 Authentication Suite includes an Authentication Server and App SDKs for Mobile, Web and Smart Watch applications. It leverages the security capabilities already present on a user's device to bring strong and convenient authentication to any application. The S3 Suite enables organizations to easily turn billions of existing devices into strong, multi-factor authenticators through support for all FIDO protocols. And, with the S3 Suite's rich set of capabilities, organizations can support the full customer lifecycle from frictionless on-boarding and progressive profiling, through easy bootstrapping of new devices and account recovery, to suspension and deprovisioning of users.

S3 Suite Solution Architecture



FIND OUT MORE

For more information about the Nok Nok S3 Authentication Suite, please visit <https://noknok.com/products/s3-authentication-suite/>. Nok Nok provides a variety of trial options for the S3 Authentication Suite including Software-as-a-Service, container image and installable software. To try Nok Nok's solutions, please visit <https://www.noknok.com/trynow>.

FEATURES	BENEFITS
Adaptive Authentication	The S3 Suite Adaptive Policies can source multiple inputs including strong signals generated by the S3 Suite App SDKs, contextual information provided by business applications, and also risk signals provided by 3 rd party risk tools. In addition, it provides the flexibility to avoid additional authentication prompts (e.g., if last login is recent and risk is low), trigger authentication sequences (e.g., if transaction amount is high), or deny access (e.g., when a specific device is not trusted).
Authentication Protocols and Methods	FIDO UAF, FIDO U2F, FIDO2, WebAuthn - including attestation and FIDO Metadata Nok Nok™ Quick Authentication Out of Band Authentication via QR- codes and push notifications Session authentication, dynamic linking and transaction confirmation (non-repudiation) Email-OTP, SMS-OTP and Photo ID + Live Picture (Selfie) through third party services
Risk Signals	Geolocation, Device ID, Friendly Fraud, Device Health (on Android), Shared Device, Jailbreak Detection, and easy integration with third party provided risk engines and behavioral biometrics systems.
Administration Console	Web-based UI for managing the Authentication Server. Allows administrators to configure policies, change properties, and review server analytics details.
Granular Administrator Permissions	Granular administrator permissions make it easy to apply least privileges to different operational roles, such as call center or help desk agents, business analysts, administrators, etc.
Multi-Tenancy Support	Serve multiple segregated user groups with authentication from a single platform to improve operational efficiency.
Reporting and Analytics	View, generate, and download statistical data and authentication reports. Provides user base insights including unique users, device models, authenticators, authentications, transactions and deregistration over specified time periods. Tamper evident audit logs for meeting compliance requirements.
Backend Integration	Integration options to access management, federation and other backend systems: Session Plugins, REST API, JWT Authorization Tokens and EMVCo-3DS FIDO Data (“FIDO Blob”). Built in connectors to ForgeRock® Identity Platform and PingFederate®.
Authentication Server Supported Platforms	Cloud platforms: AWS, Microsoft Azure, Google Cloud Platform Operating Systems: Red Hat® Enterprise Linux 7 or CentOS 7 Java: Oracle JDK / OpenJDK 11.0.x, where x >=5 Application Server: Apache Tomcat 9.0.32 or later Databases: Oracle 12c Release 1, MySQL 5.7.10+, PostgreSQL 9.2+ Containers: Docker IoT Support: In combination with Nok Nok’s IoT SDK (licensed separately), it authenticates users to IoT devices
App SDK Supported Platforms	Platforms: Android 4.4+, WearOS 7.1.1. API 25 and later, iOS 8+, Watch OS 4.2 and later, JavaScript with WebAuthn API Programming environments: Objective-C, C++, Swift, Cordova for native Apps, Java, JavaScript App types: Web Apps, Progressive Web Apps (PWA), Mobile Apps, Hybrid Apps using WebView or mobile browser via App Links / Universal Links, Android Widgets Secure Hardware: Secure Elements, Trusted Execution Environments (TEE), Secure Enclave Authenticators: FIDO2 / WebAuthn platform authenticators and roaming authenticators (“Security Keys”) supporting any modality, authenticators using native APIs (e.g., TouchID, FaceID, Android Biometric API, Android Keyguard), PIN/Passcode authenticator, user presence authenticator, silent authenticator, 3rd party authenticator ASMs supporting any modality (e.g., speaker recognition), Apple Watch authenticator



ABOUT NOK NOK LABS

Nok Nok empowers global organizations to improve the user experience to access digital services, while meeting the most advanced privacy and regulatory requirements. Nok Nok Labs and its industry leading customers and partners include BBVA, DDS, Inc., Ericsson, Fujitsu Limited, Hitachi, Intuit, Lenovo, MTRIX GmbH, NTT DATA, NTT DOCOMO, OneSpan, SoftBank, Standard Bank, and T-Mobile. For more information, visit www.noknok.com.