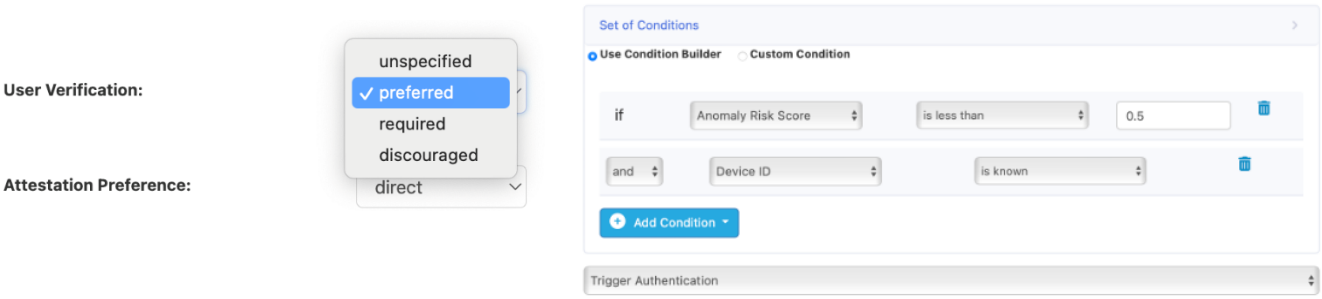
SMART SENSE V1.0 DATASHEET

DATASHEET

The role of risk signals is evolving. Historically, risk signals have been used to compensate for the inherent weakness of passwords, but they proved ineffective against attacks such as man-in-the-middle (MITM) and phishing. Today, with the availability of FIDO passkeys and security keys, organizations now have access to convenient and robust protection against these threats. However, new risk signals are needed to address different scenarios: (1) reducing the need for step-up authentication with new devices, (2) prompting users to create passkeys only when there is strong evidence the *legitimate* user has signed in, and (3) protecting users against new and advanced types of scams. As an add-on to the Nok Nok S3 Suite, Nok Nok™ Smart Sense leverages AI and machine learning technologies to analyze typical user behavior, generating an "anomaly score" that can be utilized in the Nok Nok rules engine. This feature enables the ability to tailor the use of passkeys according to the anomaly score associated with a specific authentication event.



For example, when the anomaly score is low, indicating that a legitimate user has been authenticated, you can prompt the user to create a passkey through Nok Nok's Registration Rules.

The anomaly score also allows you to set user verification to "required" in cases where suspicious activity is detected, while maintaining a default setting of "preferred" when no anomalies are present. This approach balances security and convenience, particularly for users operating laptops in "clamshell mode," where accessing the fingerprint sensor may be challenging.

Additionally, the anomaly score can guide decisions on whether to trigger step-up authentication when a synced passkey is used on a new device for the first time, or when the passkey provider does not provide an "authentication intent" signal (refer to NIST SP 800-63).

FIND OUT MORE

For more information about Nok Nok Smart Sense, please visit https://noknok.com/products/smart-sense/. Nok Nok provides a variety of trial options for Smart Sense including Software-as-a-Service, container image, and installable software. To try Nok Nok's solutions, please visit https://www.noknok.com/demonstration.

FEATURES	BENEFITS
Anomaly Score	Anomaly score to make it easy to detect and assess anomalous situations. The anomaly score's computational model is trained using multiple input signals, including GPS location, network information, device information and authenticator information. The anomaly score's computational model is specific to the individual user. The score requires sufficient data points in order to produce meaningful results. The availability of a meaningful anomaly score can be checked via the rules engine.
Integration into Nok Nok Granular Adaptive Policies	Use the anomaly score in rule conditions of Adaptive Authentication in Nok Nok S3 Suite and Nok Nok Authentication Cloud to trigger passkey creation or step-up authentication in the case of unknown devices and other situations. The anomaly score can be used in **Registration Rules** and **Authentication Rules**.
Dry Run	Ability to test rules that use the anomaly scores to assess the expected impact on historic events before deploying the rules for production. This can be used to fine-tune the threshold used in rules.
Data Control	Tight control over the data used for training the AI/ML model as the Smart Sense module can be operated along with the S3 Authentication Server.
Smart Sense Supported Platforms	**Cloud platforms**: AWS, Microsoft Azure, Google Cloud Platform **Operating Systems**: Rocky Linux 9, RHEL 8, RHEL 9 **Java**: Adoptium and Red Hat OpenJDK 17 and 21, Oracle JDK 17, Oracle JDK 21. Python 3.10 or higher **Databases**: MySQL 8.0 and 8.4; PostgreSQL 14, 15, and 16; AWS Aurora

ABOUT NOK NOK

Nok Nok lets you create safer, faster user experiences with key-based passwordless authentication based on the FIDO standards that enable compliance with global user and data privacy regulations. Nok Nok is leader in passwordless customer authentication and is trusted by the biggest banks, telcos and fintechs including BBVA, Mastercard, Intuit, NTT DOCOMO, Standard Bank, T-Mobile, and Verizon.

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