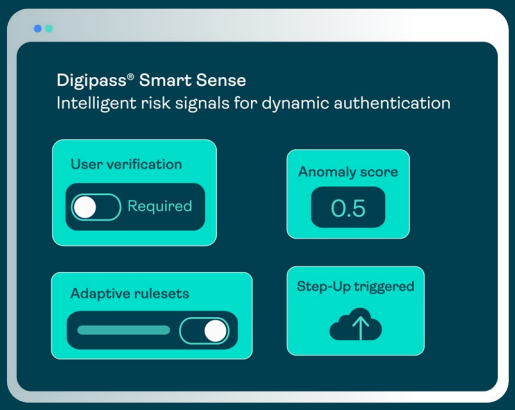
OneSpan



Datasheet

Digipass® Smart Sense

Smart Sense introduces intelligent risk detection to modern authentication

The role of risk signals is evolving

Historically, risk signals have been used to compensate for the inherent weaknesses of passwords. However, they have proven ineffective against attacks such as adversary-in-the-middle (AITM) and phishing.

With the availability of FIDO (Fast Identity Online) 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, such as:

1. Reducing the need for step-up authentication with new devices.
2. Prompting users to create passkeys only when there is strong evidence that the legitimate user has signed in.
3. Protecting users against advanced and emerging scams.

As an add-on to the Digipass S3 Authentication Software, Digipass Smart Sense leverages AI and machine learning technologies to analyze typical user behavior and generate an anomaly score that can be utilized in the Digipass Rules Engine. This enables organizations to tailor the use of passkeys based on the anomaly score associated with each authentication event.

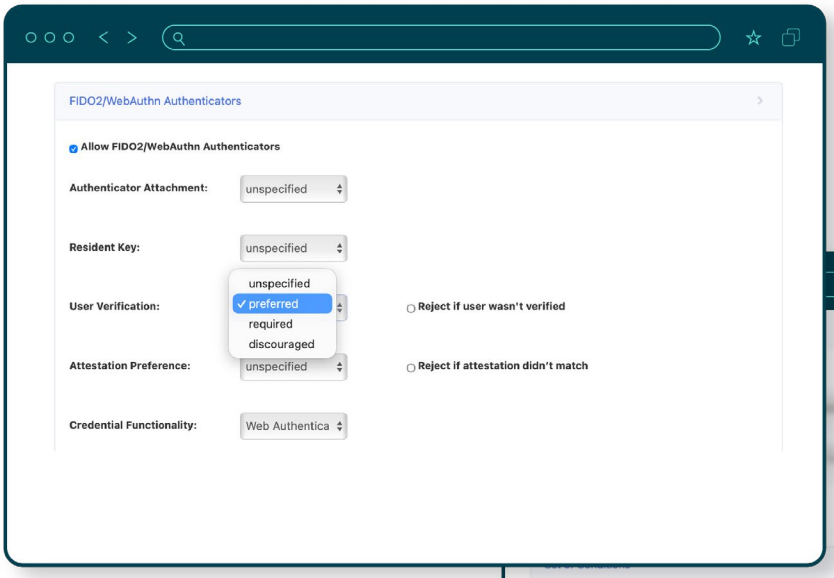


Figure 2: FIDO Policies

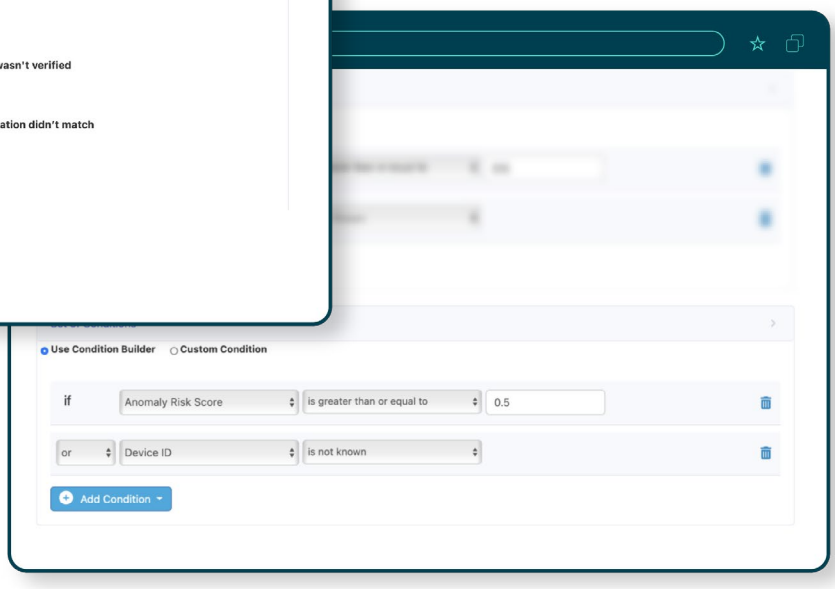


Figure 3: Adaptive Rulesets

Adaptive use of passkeys

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 Digipass 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 strikes the right balance between security and user convenience, particularly for users operating laptops in clamshell mode, where accessing the fingerprint sensor may be difficult.

Additionally, the anomaly score can help determine 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 supply an authentication intent signal (refer to NIST SP 800-63).

FEATURES	BENEFITS
Anomaly score	The anomaly score makes 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 to produce meaningful results. The availability of a meaningful anomaly score can be checked via the rules engine.
Integration into Digipass Granular Adaptive Policies	Use the anomaly score within the rule conditions of adaptive authentication, 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. Requires Digipass Smart Sense with Digipass S3 Authentication Software and Digipass S3 Cloud.
Dry Run	Test rules that use the anomaly scores to assess the expected impact on historic events before deploying rules for production. This can be used to fine-tune the threshold used in rules.
Data Control	Smart Sense processes behavioral signals locally alongside the Digipass S3 Server, allowing organizations to retain full control of the data and models with no cloud dependency.
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 OneSpan

OneSpan is a global leader in digital security, trusted by thousands of enterprises across 100+ countries—including more than 60% of the world's 100 largest banks—to safeguard digital accounts, secure financial transactions, and prevent fraud. Our award-winning solutions provide passwordless authentication, digital transaction security, and advanced mobile application protection, helping organizations meet the highest security standards and global compliance requirements. As cyber threats grow more sophisticated, OneSpan delivers cutting-edge technology to safeguard customers, mitigate risks, and ensure trust in every digital interaction.

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