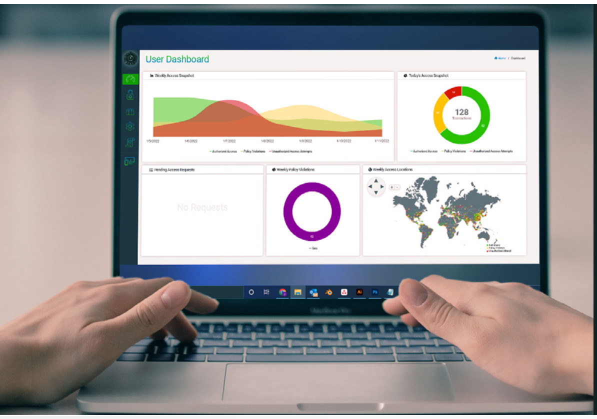
keyavi

Technical Overview

The Keyavi Self-Protecting Data Platform



The Keyavi self-protecting data platform is a RESTful API (Application Programming Interface) web service that infuses security directly into your documents. This allows Keyaviprotected documents to safely travel inside or outside your network and to be securely shared with your partners, suppliers and customers. With Keyavi, your documents are always secure and always under your control– on premise, on a device or in the cloud.

Security

Keyavi protects data with a multi-layered AES 256-bit encryption that is enhanced with micro-policies, security controls and near real-time reporting.

A Keyavi-protected document uses rolebased access to determine who is authorized to access a file. It also uses policies to control when, where and under what conditions the file is allowed to open.

Are you concerned about sensitive documents being shared outside of your offices? Keyavi geolocation can be used to ensure that sensitive files can only be opened in approved locations.

Visibility

Keyavi-protected documents are enabled with near real-time forensics. Every time a file is opened, a series of events is reported in the administrative dashboard of the Keyavi Service Node (defined below).

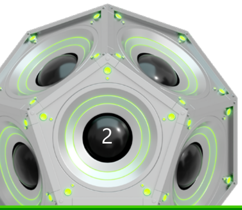
The forensics gathered include:

- who accessed the document
- when the document was accessed
- where the document was accessed
- on which device the document was accessed

The Keyavi desktop agent can collect more than 50 data elements.

Control

Keyavi's most innovative feature is continuous control. Are you concerned that a confidential document could be intentionally shared via email or accidently uploaded to cloud storage? Not a problem – with Keyavi, you can quickly and easily revoke access to the document. Was a user's laptop or mobile phone stolen? No worries! With Keyavi, you can permanently suspend access to Keyavi-protected documents on the lost or stolen device. Data protected with Keyavi is always under your control, with policies for both online and offline access.



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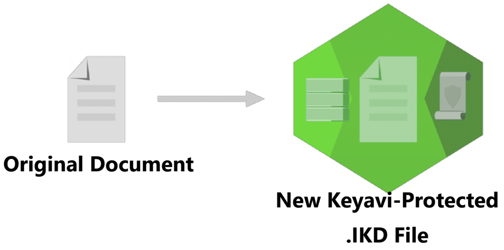
How Does Keyavi Uniquely Protect Your Critical Data?

Protecting a document with Keyavi is a non-destructive process to the original document.

1. The first step of the protection process places the document into an ".IKD" (Intelligent Keyavi Data) file — you can think of this file as a protective wrapper.

2. The next step in the process infuses the new .IKD file with a micro-database and policies, with very nominal increase in file size.



3. The last step in the process encrypts the .IKD file with multiple interlocking encryption keys. The default encryption algorithm is AES 256, which can be changed by the organization if required. No encryption keys are stored in the file and Keyavi-protected files are automatically opened with the native application used to create the original document.

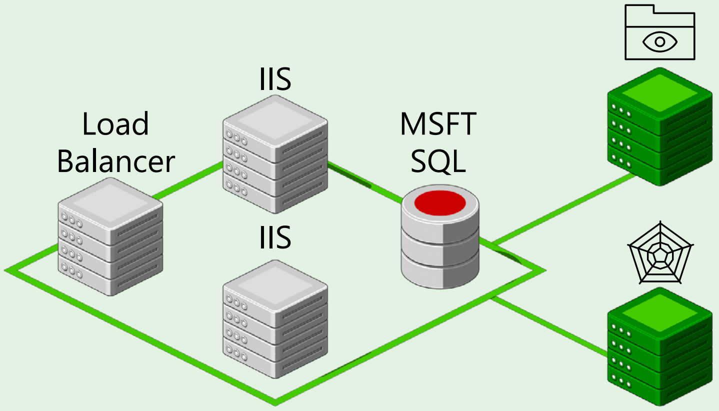
The Keyavi Data Enterprise Suite — Server Infrastructure

All servers have a minimum hardware spec. of Windows Server 2019 with 4 CPUS and 32GB of RAM

The Keyavi Service Node

The service node is the core of the Keyavi platform. It is a RESTful API-based web service that can be installed on premise or in the cloud. The node provides management, policy and the encryption needed to protect documents.

The Keyavi service node can be installed on premise or in the cloud.



Keyavi Intelligent Directory™

The Intelligent Directory is a service that automatically protects documents with Keyavi when a file is placed on a Windows Server file share. Intelligent Directory makes it easy for anyone in a company or department to protect files with Keyavi. It enables the bulk protection of files and rapid adoption of Keyavi within the enterprise.

Keyavi Web App

The web app enables users to protect and access Keyavi files via a browser. This zero-installation solution makes Keyavi available to anyone who needs access. You can even configure the web app to allow partners and customers outside of your organization to use Keyavi.

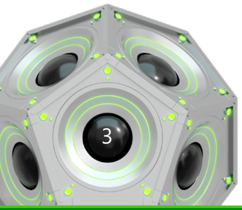
The Keyavi End-User Experience

Knowledge workers have a variety of devices and applications that they can use to create, view and interact with Keyavi protected files.

- Keyavi Agent for Windows
- Keyavi Intelligent Directory
- Keyavi Mobile App for Android & iOS
- Keyavi Viewer for Windows
- Keyavi Web App
- Keyavi Microsoft Office Add-Ins

Reach out to learn how Keyavi's self-protecting, intelligent and self-aware data security technology can boost productivity, growth and revenue.

Learn More



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