Watched Folders

(Formerly TrustedX eIDAS)

A module for Entrust Signing Automation Server

Market Challenge

Entrust Signing Automation Server offers a convenient set of Web APIs to communicate with applications, but some environments require a more simple integration. For such scenarios, a solution is needed to ensure that documents can be fetched, signed, and returned efficiently without Web API.

Solution

The Watched Folders module for Entrust Signing Automation Server lets you automate your signing processes on network folders.

- It monitors selected folders in your network and applies a series of signature-related actions to any file added to them
- Processed files are put in an outgoing folder, along with a results report
- Suitable for end users and applications, the low cost and quick setup makes it ideal for many environments

BENEFITS

- Business applications simply need to access the watched folders on your network and drop files
- Batch signing supported
- Supports all signature operations
- Supports many formats, including PDF (PAdES) and XML (XAdES)
- Centralized management of keys and certificates in a secure store
- Supports multiple folders, and specific actions can be defined for each folder
- No installation required on user stations
- Documents are signed automatically when the files are sent to the server
- Easy and convenient management from a single console

Watched Folders

Watched folders at a glance

This module enables users and applications to use network folders in order to initiate automatic signature processes for one or more files.

Centralized management and control

- Centralized configuration of which folders are watched for signature processes
- Independent configuration of the process and signature characteristics for each folder

Folder management

- Multiple watched folders supported (e.g., folders are allocated to different applications requiring different processes)
- Dynamic watched folders greatly simplifies folder management – creates one dynamic folder with selectors instead of multiple static folders
- Priorities can be associated in folder watching and, therefore, in the execution of the signature processes
- Server Message Block (SMB), Common Internet File System (CIFS), and Network File System (NFS) network folders are supported

High performance

- Multiple Entrust Signing Automation server can be configured to work in unison in a cluster for processing the files in the watched folders
- Watched folders can be configured for high-performance environments, including selector and priority features

Security and trust

- Security relies jointly on the system administrator and the corporate network, as it depends on the user and application privileges assigned to the watched folders
- Folder access events must match the |signature event in the manual or automatic (unified log system) audit process
- The centralized system with an HSM FIPS 140-2 Level 3 rating provides a higher level of security and key protection

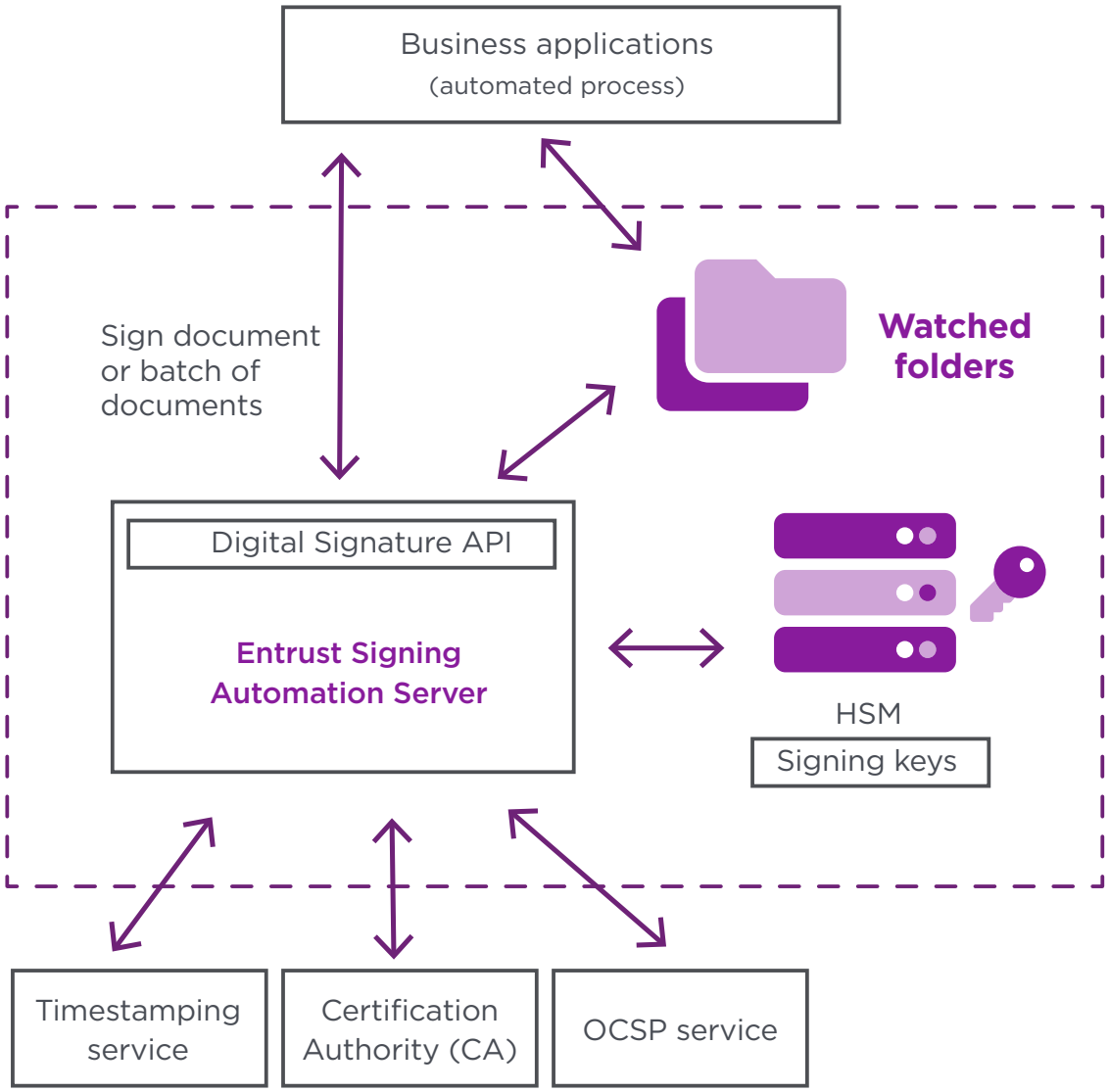
Solution scalability

- The watched folders module is an optional component of Entrust Signing Automation Server

Watched Folders

Architecture

The following diagram illustrates the watched folders as part of the complete Entrust Signing Automation Server.



Watched Folders

TECHNICAL SPECIFICATIONS

- Pre-requisites: the watched folders module requires Entrust Signing Automation Server
- Supported network file systems: SMB/CIFS and NFS
- Event monitoring: Simple Network Management Protocol (SNMP)
- Signature generation standards: PKCS#7, CMS, CAdES (ETSI TS 103 173), XML-DSig, XAdES (ETSI TS 103 171), Signature for PDF documents (IETF), PAdES (ETSI TS 103 172), and S/MIME
- Signature validation and augmentation standards: PKCS#7, CMS, CAdES (ETSI TS 103 173 and ETSI EN 319 122), XML-DSig, XAdES (ETSI TS 103 171 and ETSI EN 319 132), Signature for PDF documents (IETF), PAdES (ETSI TS 103 172 and ETSI EN 319 142), and S/MIME
- Timestamping support: IETF RFC 3161 and RFC 5816 compatible servers
- Certificate validation support: Using CRLs, IETF OCSP compatible servers and customized mechanisms (OCSP is required for LTV signatures)
- Database and directory access: Oracle, Microsoft SQL Server, PostgreSQL and MySQL, LDAP directory access protocol
- HSM support: PKCS#11 devices approved by Entrust

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