TrustedX Electronic Signature
E-Signature Platform for Automated Processes

Fully automate your electronic signature activities

TrustedX Electronic Signatures is an on-premises solution for automated document signing integration. It allows your organization to fully implement and automate enterprise certificate-based document signing and verification processes into your business activities, and benefit from a centralized signing system for your own applications and services. TrustedX supports advanced electronic signature formats and multiple Certification Authorities (CAs), ensuring high compatibility and full integration into any environment.

BENEFITS

Integrate document signing and verification into your applications

TrustedX Electronic Signature is a web services platform providing a complete set of signature-generation, signature-verification, and signature-augmentation features. Signature capabilities can be accessed from applications through web services (APIs), or through watched folders¹ on your network. Application credentials and group-based rights assignment can be managed using your existing databases.

Leverage semantic interpretation of signatures

TrustedX Electronic Signature is the most complete signature service of its kind. Multiple CAs can be managed, all signature formats are supported, and the complexity related to managing trust is removed from your applications. The incorporated semantic services allow you to obtain all signer/signature data along with a trust level indicated using discrete values (four levels) and labels (i.e., government, corporate, finance, etc.).

Maintain strong compliance and auditing levels

The service can be deployed quickly, thanks to its compliance with standards and its multiple integration options. Audit logs are generated for any changes in the configuration made by the administrators and for the services accessed by the applications. These logs can be stored in a database or forwarded to a SIEM tool to generate reports.

Centralize your key and policy management for document signatures

The platform acts as a centralized certificate and key repository that your applications can leverage for signature processes, eliminating the need for in-app key storage and management. The service also centralizes management of signature policies that lets you model different behaviors for groups of applications, such as trust in certain public or corporate CAs, or which method to use for certificate revocation status check.

¹ Watched Folders is an optional module for the TrustedX Electronic Signature solution. For more information, please consult our dedicated datasheet.
**TECHNICAL FEATURES**

TrustedX incorporates functions that provide a set of security and trust mechanisms as services that can be used with different integration strategies:

- **SOAP/WS:** Using the OASIS DSS standard as an access protocol for web services
- **REST/WS, SOAP/WS:** Using the TrustedX integration gateway, which supports configuring traffic and data processing with an XML pipeline language
- **Java SDK:** For easy integration of electronic signature services in native Java applications

Features are grouped into the following categories:

<table>
<thead>
<tr>
<th>Authentication and Authorization</th>
<th>Long-Term Validation (LTV)</th>
<th>Object and Entity Management</th>
<th>Auditing and Accounting</th>
</tr>
</thead>
</table>
| Supports native authentication methods based on passwords and digital certificates. The validation can be delegated to LDAP/AD. | Extends a signature’s validity up to the lifetime of the TSA certificate.  
- Cryptographic reliability is preserved  
- The certification chain is incorporated as well as certificate status information at the time of signing  
- A timestamp is added  
The signatures can be extended further by adding additional timestamps. | Manages platform entities and objects. External repositories, such as user LDAP/AD, databases, files, and HSMs can be added for protecting private keys. | Logs are securely stored in a uniform and centralized way. It’s also possible to forward log data to an external SIEM tool for processing and generating a report. |

<table>
<thead>
<tr>
<th>Certificate Validation</th>
<th>Optional Service: Watched Folders</th>
<th>Signature Creation and Validation</th>
<th>Optional Service: Data Encryption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides PKI functions for validating certification chains and querying certificate status. Supports OCSP/CRL and customized mechanisms (e.g., databases).</td>
<td>Monitors selected folders in your network (called “watched folders”) and executes a series of signature-related actions (e.g. signing, verification, stamping, augmentation) on any file added to the folders.</td>
<td>Creates and validates signatures compliant with the PAdES, XAdES, and CAdES standards; including document, email, and web services signatures.</td>
<td>Provides document encryption and decryption functionalities. Supported formats are PKCS#7, CMS, XML-Enc, and S/MIME. Please contact us to learn more about this option.</td>
</tr>
</tbody>
</table>

**ARCHITECTURE**

The following diagram illustrates a typical integration of the TrustedX Electronic Signature platform into your organization.
About Entrust Datacard Corporation

Consumers, citizens, and employees increasingly expect anywhere-anytime experiences — whether they are making purchases, crossing borders, accessing e-gov services, or logging onto corporate networks. Entrust Datacard offers the trusted identity and secure transaction technologies that make those experiences reliable and secure. Solutions range from the physical world of financial cards, passports, and ID cards to the digital realm of authentication, certificates, and secure communications. With more than 2,500 Entrust Datacard colleagues around the world, and a network of strong global partners, the company serves customers in 150 countries worldwide.

©2020 Entrust Datacard Corporation. All rights reserved. SL21Q1-TrustedX-Electronic-Signature-Platform-DS