edifecs

Smart Trading Cloud Repository

This security white paper applies to product version: 8.8.1

Table of Contents

Security White Paper Overview

Edifecs focuses on security principles, and protection of all your data in the Smart Trading Cloud Repository including confidential information and protected health information is among our primary design criteria. Edifecs makes security a priority to prevent data leaks and unauthorized access. Edifecs cares about your data stored in the Smart Trading Cloud Repository and ensures that your data is protected in transfer to and from the cloud and within the system. Edifecs also offers user management policies in case you need to suspend access to data in the cloud or change permissions for certain users.

This white paper outlines Edifecs approach to security and compliance for the Smart Trading Cloud Repository and focuses on security including details on organizational and technical controls regarding how Edifecs protects your data.

1. Authentication
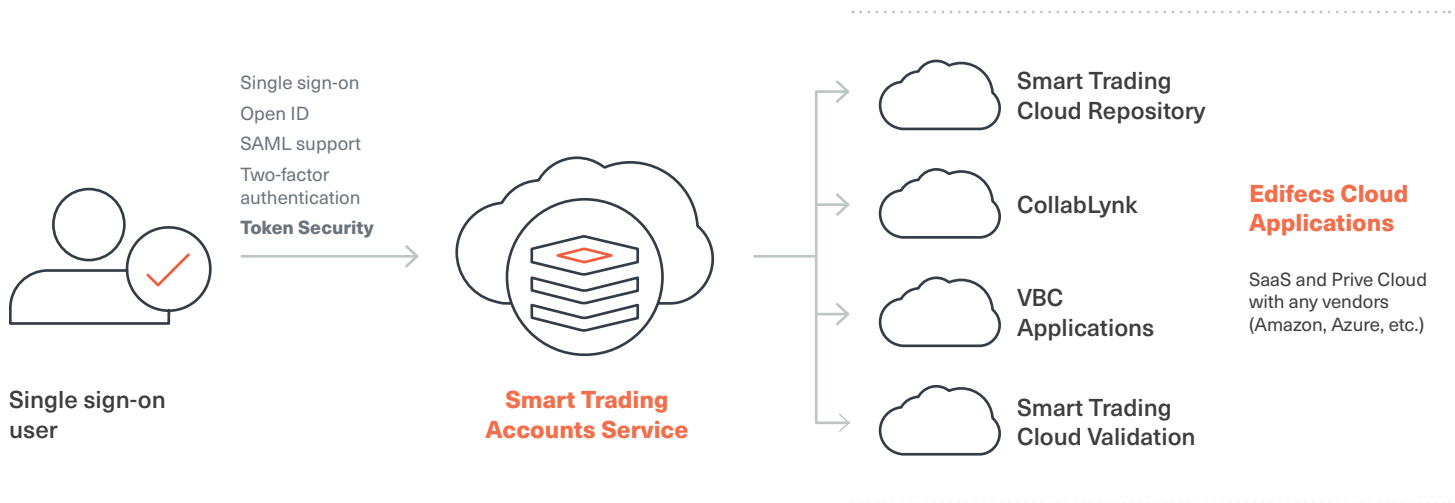
The authentication process on the Smart Trading Cloud Repository is designed in a way to prevent third-party users from accessing the data you store. All your data is protected by the Smart Trading Accounts Service that has some substantial advantages, such as:

- Single sign-on that allows you to login to the Smart Trading Accounts Service once and access other Edifecs applications without having to enter your credentials again.

- Standard protocols and OAuth 2.0, OpenID Connect, and SAML support. The Smart Trading Accounts Service does not store or release your password. Authentication is based on the opaque tokens exchange that do not have any information about your identification and ensures safe authorization data transfers.

- Fine-grained authorization that enables object-level security and allows you to manage access permissions and exactly define the access policies you need.

To make the authentication process even more secure, on your request, Edifecs can provide you with the following extra services:

- Two-factor authentication that requires a combination of two separate factors to confirm a user's identity and ensures that only you can access your user account. This improves the security of your data stored in the Smart Trading Cloud Repository.

- Ability to manage your login sessions and view the history of your user account activities.

- Connection to the Active Directory database through LDAP.

- Login with social network accounts to make your authentication more convenient.

Note that if a certain user leaves the company and there is a need to stop user's access to the company artifacts, it is possible to re-assign all artifacts to another user within the same organization or to an administrator if there is no suitable user at the moment.

2. Data Security

The Smart Trading Cloud Repository is a solution that allows you to store your files in the cloud reliably and securely. Protecting the confidentiality, integrity, and availability of our customers' user accounts and data is of the utmost importance to Edifecs, as well as maintaining customer trust and confidence. The Smart Trading Cloud Repository uses the highly secure Amazon Web Services (AWS) infrastructure since AWS's data centers are state of the art, utilize innovative architectural and engineering approaches, and are housed in nondescript facilities that ensures reliability and security.

HTTPS → **User Document** → Smart Trading Security Authentication Authorization **HTTPS** → **Smart Trading Cloud Repository** → **HTTPS** → **Amazon S3** → **Amazon AWS**
HIPAA certified storage
Option for FedRamp GovCloud
Highly secure data centers

2.1 Infrastructure security

The Smart Trading Cloud Repository uses the Amazon Simple Storage Service (Amazon S3) that redundantly stores your objects on multiple devices across multiple facilities in an Amazon S3 Region. The service sustains concurrent device failures since it quickly detects and repairs any lost redundancy. It is designed to deliver high durability, and scale past trillions of objects worldwide.

Amazon S3 stores data as objects within buckets. Only bucket and object owners have access to the Amazon S3 resources they create (a bucket/object owner is the AWS Account owner, not the user who created the bucket/object). Users do not access Amazon S3 buckets directly, and the Smart Trading Cloud Repository uses a high-level of User Identity and Access Security to internally access S3 buckets. Users are shielded from that, and no user has direct access to the buckets.

The Smart Trading Cloud Repository can offer data transfer over SSL and automatic encryption of your uploaded data.

Your data is fully secure since the Smart Trading Cloud Repository supports multiple access control mechanisms, encryption for both secure transit and secure storage at rest. The Smart Trading Cloud Repository protects your data from logical, physical, and infrastructure failures and application errors. It also guards against data loss and unintended user actions.

The Smart Trading Cloud Repository also uses Amazon Elastic Compute Cloud (Amazon EC2) - a web service that provides secure and resizable computation capacity in the cloud and works in conjunction with a virtual private cloud to provide security and robust networking functionality for your resources. EC2 supports multiple methods for encrypting data at rest.
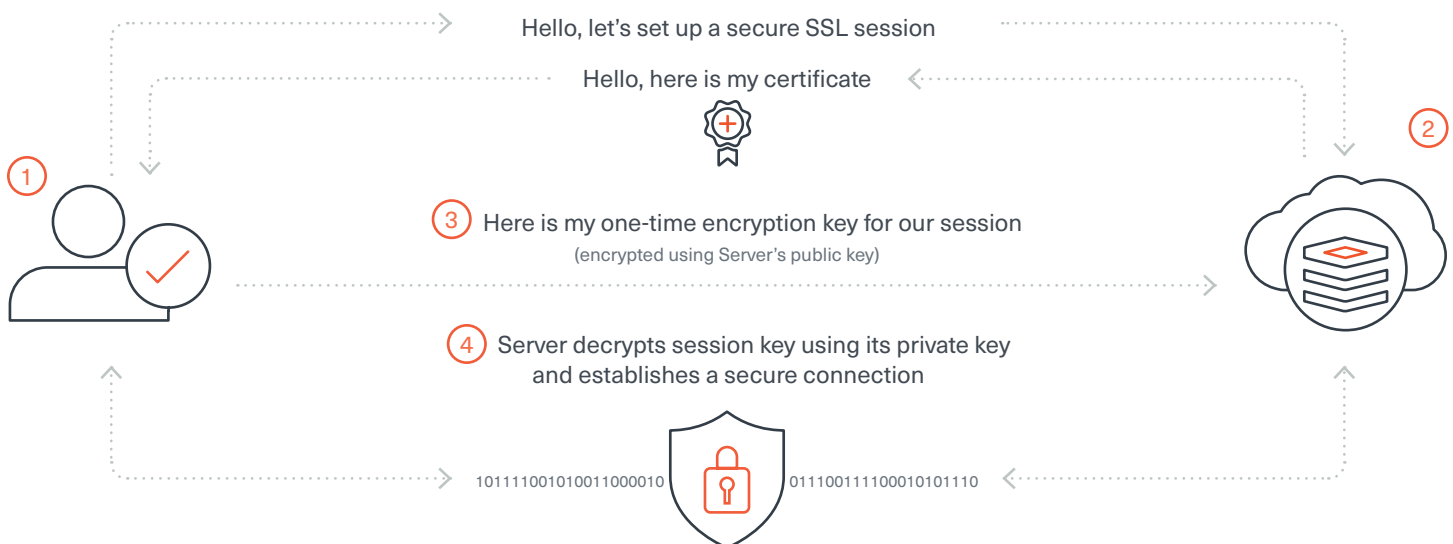
For additional security measures, Edifecs can offer dedicated EC2 instances that run in a virtual private cloud on hardware dedicated only to you. These instances are physically isolated at the host hardware level from non-dedicated and instances that belong to other users.

2.2 HIPAA compliance

The Smart Trading Cloud Repository is eligible to store, process, and transmit protected health information. So, organizations that are a subject to the security and privacy regulations of the Health Insurance Portability and Accountability Act (HIPAA) can leverage the secure Smart Trading Cloud Repository to store protected health information. The Smart Trading Cloud Repository meets the HIPAA, HITECH, and HITRUST CSF requirements related to the use and disclosure of protected health information, appropriate safeguards, individual rights, and administrative responsibilities.

For additional security of confidential governmental data, the Smart Trading Cloud repository can offer AWS GovCloud (US) that is an isolated AWS Region that allows moving workloads into the cloud by helping them meet certain regulatory and compliance requirements. It can also allow you to comply with U.S. International Traffic in Arms Regulations (ITAR) regulations and the Federal Risk and Authorization Management Program (FedRAMP) requirements and to follow a standardized approach to security assessment, authorization, and continuous monitoring for cloud products and services.

3. Security of Data in Motion

Hello, let's set up a secure SSL session

Hello, here is my certificate

3 Here is my one-time encryption key for our session
(encrypted using Server's public key)

4 Server decrypts session key using its private key
and establishes a secure connection

10111100101001100010   011100111100010101110

The data you upload or download from the Smart Trading Cloud Repository is transferred through the SSL-encrypted endpoints using the HTTPS protocol. Your data is automatically encrypted at rest. Alternatively, you can use a client encryption library to encrypt your data before uploading.

All data including data that contains protected health information is encrypted in transit between external sources and cloud by industry-standard transport encryption mechanisms such as TLS or IPsec virtual private networks (VPNs). Internal data that is transferred between EC2 instances is also encrypted using the TLS or other protocols that provide in-transit encryption.

Copyright

About Edifecs

An industry leader since 1996, Edifecs provides healthcare software solutions that improve operational performance by streamlining the exchange of information among health plans, hospitals, and other healthcare organizations, while enabling compliance with current mandates such as HIPAA 5010 and ICD-10.

Today, more than 250 healthcare customers use Edifecs technology to unify transactions from any information channel source and input mechanism, while automating manual business processes such as enrollment, claims and payments management. Edifecs is currently recognized as one of the 100 Fastest Growing Private Companies in the state of Washington, 100 Best Places to Work in the state of Washington, an Inc. 5000 fastest-growing private company and one of the 500 Fastest Growing Companies in North America by Deloitte.

For more information about Smart Trading Cloud Repository or any other Edifecs solution, contact us in one of the following ways:

EDIFECS, Inc.
1756 114th AVE SE
Bellevue, WA 98004 USA
www.edifecs.com

Main: (425) 435-2000
Sales: (425) 435-2200

Product Support Contacts:
+1 (855) 333 4462 (5:00 AM to 5:00 PM Pacific Time)
support@edifecs.com