Secure, multi-channel authentication

4TRESS™ Authentication Server enables financial institutions, managed service providers, and other organizations to support a wide range of authentication methods, building customer confidence in online transactions, increasing security, and reducing costs. Whether interested in one time password tokens or smart cards, static passwords or Q&A, 4TRESS Authentication Server provides a highly scalable, secure, centralized authentication server with the capability to manage a wide range of user credentials.

Key features

Wide range of authentication methods
- Token and EMV™ CAP/DPA card based authentication methods.
- Static secrets, in full or partial mode, including passwords, PINs, and secret questions.
- Pluggable framework enables easy extensibility to new authentication schemes such as mobile OTP and voice biometrics.

Comprehensive management tools
- Integration with remote authentication servers, such as LDAP and RADIUS, enables consolidation of multiple physical schemes into a single logical authentication model within a Service Oriented Architecture.
- Full lifecycle management of user credentials and physical devices.
- All authentication and administration actions are recorded within a centralized, digitally-signed tamper-evident audit log.
- Web self-service tools including token/card activation, PIN reset and password maintenance.
- Multiple service channel support (Web, IVR, ATM etc.) using a single authentication method.

Rapid deployment capabilities
- 4TRESS Authentication Server can be deployed on a variety of platforms.
- All 4TRESS Authentication Server functions are exposed through a standards based public API that can be accessed via SOAP, RMI, standardized XML schemas such as SAML, or message oriented software such as IBM® WebSphere® MQ.

Complete solution for consumer authentication

4TRESS Authentication Server enables financial institutions, managed service providers, and other organizations to reduce costs and increase security with a scalable and open standards-based platform.
Operating systems
- IBM® AIX® 5.1
- Sun® Solaris™ 8®

Hardware
- Sun SPARC (SunFire 280R, 240)
- IBM pSeries® System p5 Servers
- nCipher® Hardware Security Module (nShield™ and payShield™ for EMV)

Application server
- IBM WebSphere® Application Server
- Oracle® Database and Microsoft® SQL Server

Devices
- ActivIdentity Solo Reader
- ActivIdentity Tokens
- InCard® DisplayCard® and all other OATH compliant hardware devices
- OATH compliant software tokens for mobile phones
- All EMV™ compliant smart cards

Authentication schemes
- One-time passwords
  - ActivIdentity one-time password
  - OATH one-time passwords
  - One-time passwords via SMS
- PIN verification
- EMV authentication using ActivIdentity Solo Reader compatible with the following algorithms:
  - MasterCard® CAP
  - VISA® DPA
- Swivel® algorithm
- Static passwords (e.g. username / password logins)
- Question and answer

Administration features
- Password management
  - Self reset
  - Auto generation
  - Secure PIN mailer
  - Help desk change/reset
  - Set up
- Device management
  - Synchronise
  - Unlock
  - Assign/unassign
  - Import
- Credential management
  - Status (enable/disable)
  - Channel specific usage policies
  - Usage statistics
- User and permission management
  - User and user group management
  - Role management
  - User / role / group permission management

Secure audit
- Digitally signed tamper-evident log
- Audit log queries
- Online audit verification

Event reporting
ActivIdentity 4TRESS Authentication Server can report application level events using the following mechanisms:
- Log file entries
- SMNP notifications
- JMX™ messaging

Any enterprise management tool that is compatible with these formats can be used to monitor the ActivIdentity 4TRESS Authentication Server system.

Standards compliance
- Sun J2EE™
- RMI and SOAP
- MasterCard EMV CAP approved
- VISA DPA compliant
- FIPS140-2 level 3

Encryption information
- Protects cryptographic keys using HSM
- Triple DES encryption / decryption of secrets
- Database row level signing
- Audit log record signing

External authentication schemes
- Support for 3rd Party token vendors
- ODBC / JDBC data stores
- Remote RADIUS servers
- LDAP v3 systems, enabling integration into directories such as:
  - Computer Associates® eTrust Directory
  - IBM Tivoli Directory Server
  - Microsoft® Active Directory
  - Novell® eDirectory
  - Oracle Internet Directory
  - Sun Java™ System Directory

Related data sheets
- 4TRESS Authentication SDK
- ActivIdentity Tokens
- ActivIdentity Solo Reader

Related solution briefs
- Strong Authentication
- Device and Credential Management
- Secure Information and Transactions

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To find out more about ActivIdentity 4TRESS Authentication Server or for more information about ActivIdentity Financial Services solutions, visit our website

www.actividentity.com

Americas | +1 (510) 574 0100
US Federal | +1 (571) 522 1000
Europe | +33 (0) 1 42 04 84 00
Asia Pacific | +61 (0) 2 6208 4888

Email | info@actividentity.com