

DS3 AUTHENTICATION TECHNOLOGIES

DS3 (Data Security Systems Solutions Pte Ltd) is a leading data security provider and integrator with more than 20 years experience in Information Security. DS3 expertise ranges from building world-class security products and components, to enterprise security consulting, to deploying solutions for the Banking, Government and Enterprise environments.

The DS3 Authentication Security Module (ASM) and Authentication Server come as a complete 2-factor authentication solution out-of-the-box. There is no need for any additional hardware / software / database to support the solution. To date, more than 100 appliances have been used for:

- Consumer Banking Logins
- Corporate Banking Transaction Portals
- Fund Management Sites
- High Value Payments Authorizations
- Mobile Banking Security
- Private Banking Sites
- Secure Remote Access VPNs
- Secure 2FA Logins For Intranet Applications
- Secure ATM Pin Encryption And Translation

Its deployed base range from companies with 100 remote-access users to large Internet Banking 2FA deployments of with millions of active users.

HIGHLIGHTS

Markets and Industries

- Enterprise Remote Access
- Company Intranets
- Banking and Financial Institutions
- Government Applications
- Online payments and transactions
- National Authentication Infrastructures
- ASP Hosting sites

Solution Segments

- 2-factor authentication
- Internet banking and Mobile banking security
- End-to-end protection of login and transactions
- Enterprise Secure Remote Access
- Privileged logins for Intranet applications
- Transaction non-repudiation with Digital Signatures

Application Client Supported

- IBM Websphere
- Oracle Web Logic
- Sun Java Enterprise Server
- Microsoft IIS, IIS .NET (ISAPI)
- Apache Tomcat
- Apache with PHP
- Checkpoint, CISCO, F5, Fortinet, Juniper VPNs
- UNIX PAM
- All RADIUS compliant clients

2FA Tokens Supported

- Hardware RSA, VASCO, OATH tokens
- PKI USB tokens, smartcards, X.509 certificates
- Software on J2ME, Windows Mobile and iPhone phones
- Windows software, flash drive tokens
- Flash, Browser tokens
- SMS and Email OTP
- Scratch card, Grid Cards, Pin Mailer
- Biometric tokens

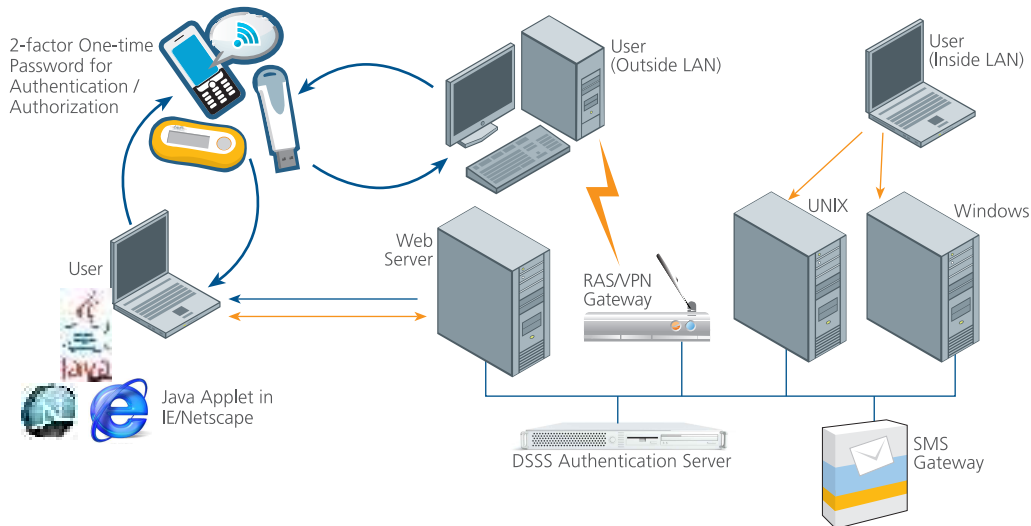
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THE IMPORTANCE OF 2FA SECURITY TODAY

2-factor authentication (2FA) refers to the use of something you know PLUS something you have, to establish identity and privileges. This contrasts sharply with traditional password authentication, which requires only one factor (knowledge of a password) in order to gain access to a system.

2FA drastically reduces the incidence of phishing, online identity theft and other online fraud, because passwords are no longer enough to give outsiders access to information. Many companies today wishing to leverage on its benefits face budget constraints, feature and implementation issues with regards to 2FA security.



2FA SECURITY MADE EASY, COST-EFFECTIVE & FLEXIBLE

The Authentication Security Module (ASM) is primarily a black-box security appliance that sits behind the company's web servers or VPNs. The solution provides strong end-user authentication to protect the end-users' identities while interacting online with the organization.

ASM Features

- Multi-Application Authentication System for VPNs, Windows / UNIX logins, Internet Applications
- Easy Token Migration
- Comprehensive Audit Logging
- 2-Factor Token Management System with Multi-Token Support
- Built-In Password Self-Service Module
- High-Availability Support
- Centralised Web-Based Server Administration

While other 2FA solutions typically bind the customer to either specific or proprietary tokens, limiting their solution's choices, the DS3 Authentication Server Module is extremely flexible, supporting all major hardware and other types of tokens. The token management system within the DS3 Authentication Server allows the organization to flexibly allocate different 2nd factor tokens to different users depending on their preference, usage pattern, budgets and risk profile.

Multi-token Support

- PKI tokens, X.509 certificates
- Mobile phone tokens
- SMS, Email OTP tokens
- Flash, Browser tokens
- Hardware RSA SecurID and VASCO OTP tokens
- Desktop OTP software tokens
- Scratch card, Grid tokens
- SMS, Email OTP tokens
- OATH tokens (HOTP, TOTP)
- Flash, Browser tokens
- Biometric tokens
- Scratch card, Grid tokens
- Biometric tokens

Together with the centralized architecture that the DS3 ASM supports, the project upfront token costs, on-going administrative costs and deployment resource needs are lowered.

ENHANCED TRANSACTION SECURITY

For the larger enterprises or security-sensitive institutions such as banks, the ASM can be upgraded to the DS3 Authentication Server. The upgraded module allows the authentication solution to scale beyond the typical 1000+ users up to millions of users through the use of Java APIs to allow for straight-through processing of user and helpdesk provisioning and automatic token and key management. Over and above the flexible token management, the DS3 authentication server offers additional features including an optional embedded FIPS-certified Hardware Security Module (HSM), end-to-end security of user credentials, PKI digital signatures, Smartcard-based Key Management, and scalable, multi-domain capabilities.

The DS3 Authentication Server is a high-performance security appliance designed for banks, governments and enterprises to carry out large-scale end-to-end user authentication security, authorization of sensitive and high-valued transactions, and protection of application data through PKI cryptographic operations. It defends against dictionary attacks, replay attacks, phishing attacks and man-in-the-middle attacks.

The DS3 ASM and DS3 Authentication Server are definitely a must-have for the security-conscious organization.