

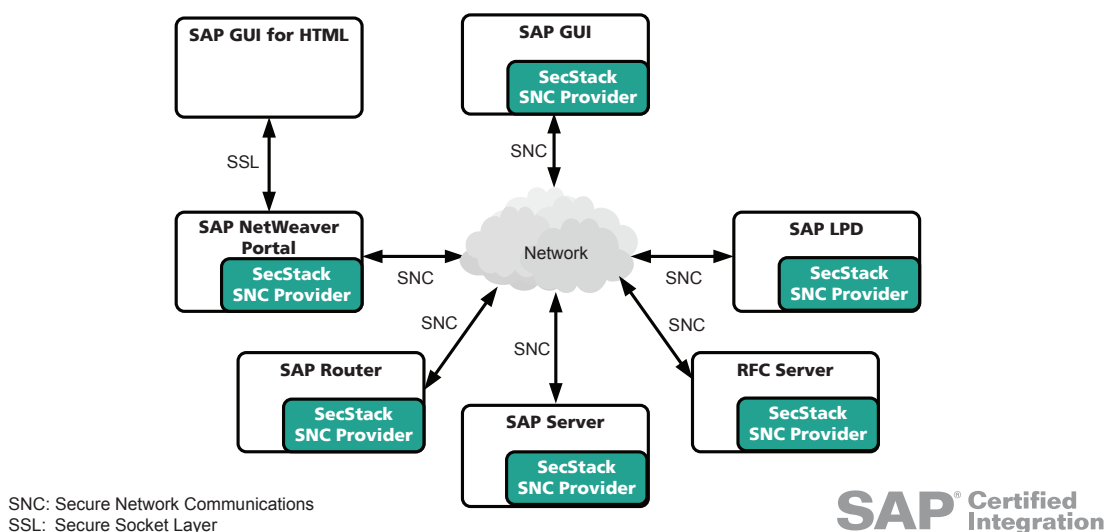
SecStack SNC/SSF Provider – High-End Security for SAP

The AdNovum Security Stack (SecStack) protects the communication chain in end-to-end security solutions. For the management of confidential data with SAP NetWeaver, the AdNovum SecStack can be extended with the SAP-SNC (Secure Network Communications) and SAP-SSF (Secure Store and Forward) providers.

Many companies use SAP NetWeaver for the management of confidential financial, project and personnel data. Unless additional security enhancements are used, the data is transmitted between individual SAP components via the network as plain text and without strong authentication. This may lead to security issues, as confidentiality, authenticity and integrity of the data can no longer be ensured. Such systems should not only be protected from manipulation from outside the company, but also from manipulation from within, e.g. from "man-in-the-middle" attacks.

In recognition of these facts, AdNovum offers Security Stack, a software that enables establishing a secure communication channel between SAP components (client, router, server and printer service) via the SAP SNC interface (Secure Network Communications). To further enhance protection of sensitive data, the secret keys used for the protection of the data are stored on hardware security modules (HSM) or smartcards. For the management of confidential data with SAP NetWeaver, the AdNovum SecStack can be configured to be used as a provider:

- Secure Network Communications (SNC) Provider
- Secure Store and Forward (SSF) Provider



Features and Tasks

SecStack SAP SNC Provider

SecStack SAP SNC Provider enables strong authentication, single sign-on (SSO), and encrypted communication between SAP components. It ensures integrity, confidentiality and authenticity of data and services, and protects them against manipulation even from within the company.

SecStack SAP-SSF-Provider

The SecStack SAP SSF Provider enables encryption and signing of SAP data (e.g. in data bases) with PKI mechanisms. It ensures integrity, confidentiality, authenticity, and auditability.

Product Highlights

High security

- Authenticity: System access using certificates
- Integrity: Digital signing of data
- Confidentiality: Encryption of data

Single sign-on (SSO)

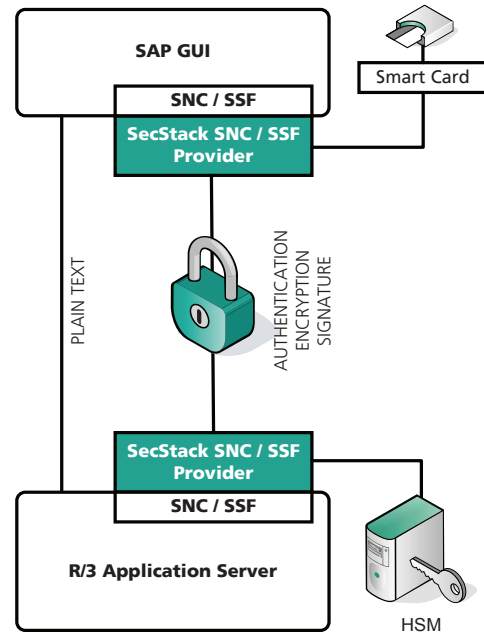
- Single login enables automated sign-on to all integrated systems

Simple and flexible integration and customization

- The SecStack SAP SNC/SSF providers can easily be customized and integrated into existing security infrastructures
- Available on 10 operating systems

Secure storage of credentials

Storage of user credentials (keys and certificates) on smart-cards and node credentials on Hardware Security Modules (HSMs) prevents unauthorized access to security-critical information



Technical Highlights

Platforms

- Solaris 10 (SNC Provider SAP-certified)
- Windows XP, 2000 und 2003 (SNC Provider SAP-certified)
- Windows Vista und 2008
- Linux, HP-UX, IBM-AIX, AS/400, z/OS

Protocols and standards

- GSSv2, PKCS#11, SSL, X.509

SAP versions

- R/3, NetWeaver

Reference UBS

The SecStack SNC Provider was developed as part of a comprehensive security solution for the identification, authentication and authorization of bank servers on behalf of UBS AG. The goal was to create a uniform interface (API) for the seamless integration of a large number of users, operating systems and applications.

Today, over 20,000 users and over 2,000 servers on ten different operating systems can access the keys stored in virtual safes over a uniform user interface. The AdNovum SecStack SNC Provider thereby enables a seamless integration of SAP-R/3 systems into the bank's security infrastructure.



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