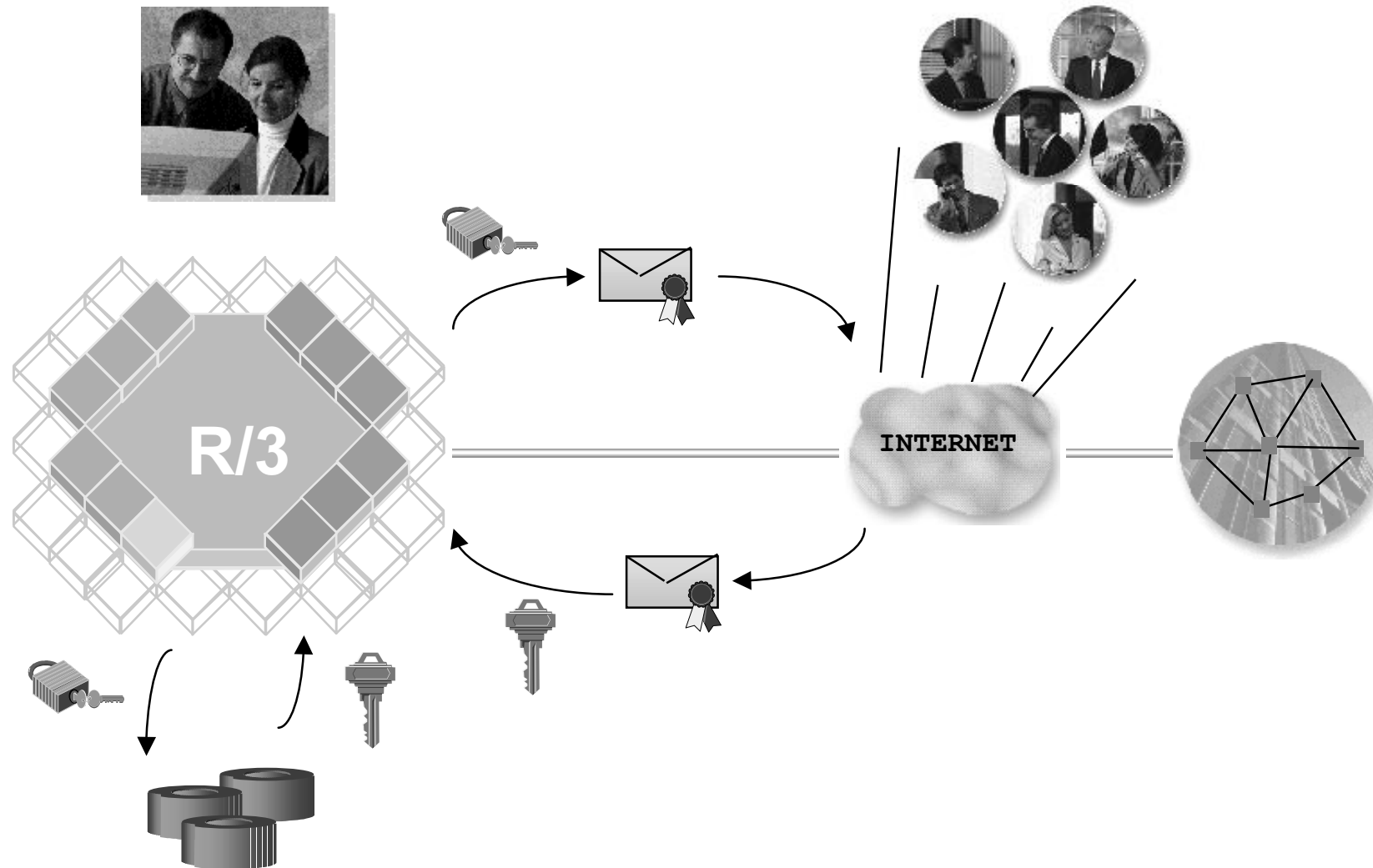


Secure Store & Forward (SSF)

SAP

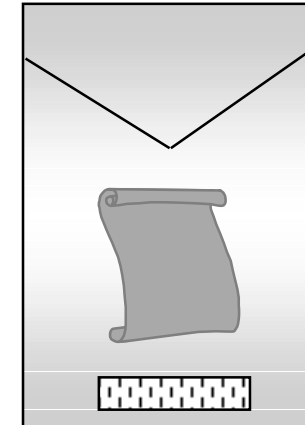


- **To provide security for R/3 data and documents during online transactions and beyond**
 - **When data is leaving the R/3 system
(electronic orders, payments, business information)**
 - **When data is stored on insecure media
(external database, diskettes, archives)**
 - **When data is transmitted over insecure networks
(for example: the internet !)**
 - **When data security is associated with persons and individuals
(digital signatures, privacy)**

- ✓ **Data Integrity**
- ✓ **Privacy**
- ✓ **Authentication**
- ✓ **Non-repudiation**

realized with

- ➔ **Digital Signatures**
- ➔ **Digital Envelopes**



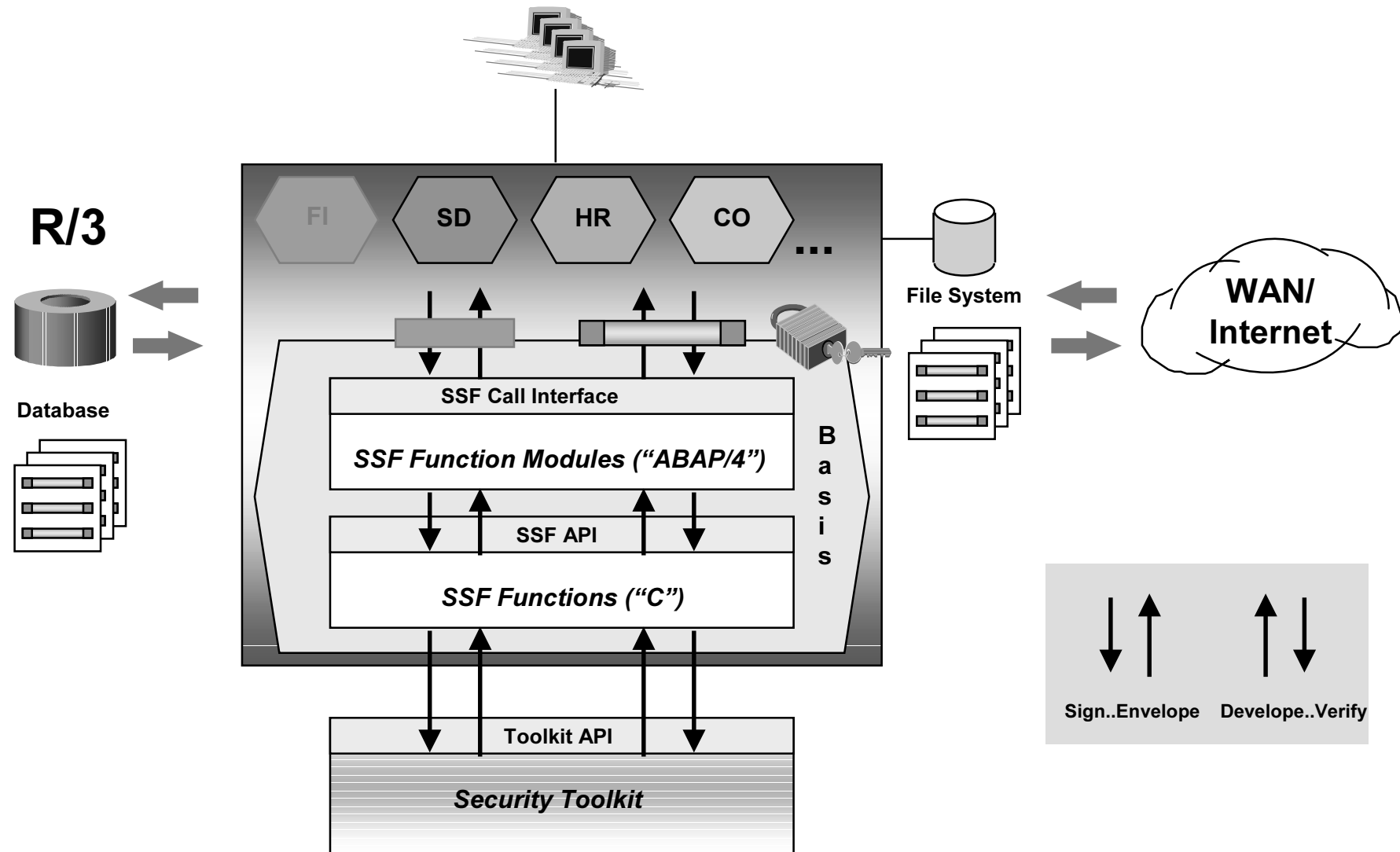
standardized format used: PKCS#7

Security mechanisms independent from

- **type or content of the data**
- **transport mechanism, service and protocol**

SSF Software Architecture

SAP



⇒ **Support the integration of external security products**

- **Any toolkit implementing the SSF API can be used**
- **Certification process starts in 1999**

⇒ **SAP Security Library (SAPSECULIB)**

- **default service provider for the SSF API**
- **no external security product necessary**
- **Digital signatures at the application server**
- **available with R/3 Release 4.5**

⇒ **Application server has a key pair for signing**

- **Archivelink II / SAP Content Server**
(Signed URLs for access control)
- **SAP Business Connector**
(Orders are signed)
- **Web Single Sign-On**
(Digital certificates for user logon)

⇒ **Individual users have their own key pair**

- **Product Data Management (PDM)**
- **Process Industry (PP-PI)**
- **Quality Management (QM)**