



Data Secure Product Line

Enterprise-Class Data Security

Benefits

Data Secure is an Enterprise-class cryptographic solution for data security. Its advantages are better appreciated in an heterogeneous context, as a unique cryptographic security infrastructure, applicable to the widest contexts, with consequent savings on implementation and management; most importantly it is compliant with recognized Italian and international standards.

- Platforms: Win32, AIX, Solaris, HP, Linux, AS/400, OS/390, z/OS, AS/400, Open VMS, Tandem.
- Transports: SPAZIO, MQ (via ad-hoc adapters), other generic transports via pre/post processing, either in E2E mode or Link mode.
- Available as a toolkit for C, C++, VB, Java C#, Cobol mainframe.
- Available as a Command-line (scripting).
- May be interfaced with HIGH ITSEC certified Digital Signature devices, like Ncipher, Rainbow, Smart Card Genplus, Eutron, and other.
- Provides ICSF interface for z/OS environments.
- Suitable to files of any size, even several Gigabytes, thanks to its crypto buffer chaining technology.



Main Technical Characteristics

- Symmetric Cryptography DES, T/DES and AES
- Asymmetric RSA Cryptography up to 4096
- Hashing MD5 and SHA-1, SHA-2
- Digital signature PKCS7, S/MIME and PGP
- PKI Interface via PKCS#10 to X.509 certificates
- Cryptographic Token Interface and HSM in PKCS11 and MSCAPI standard

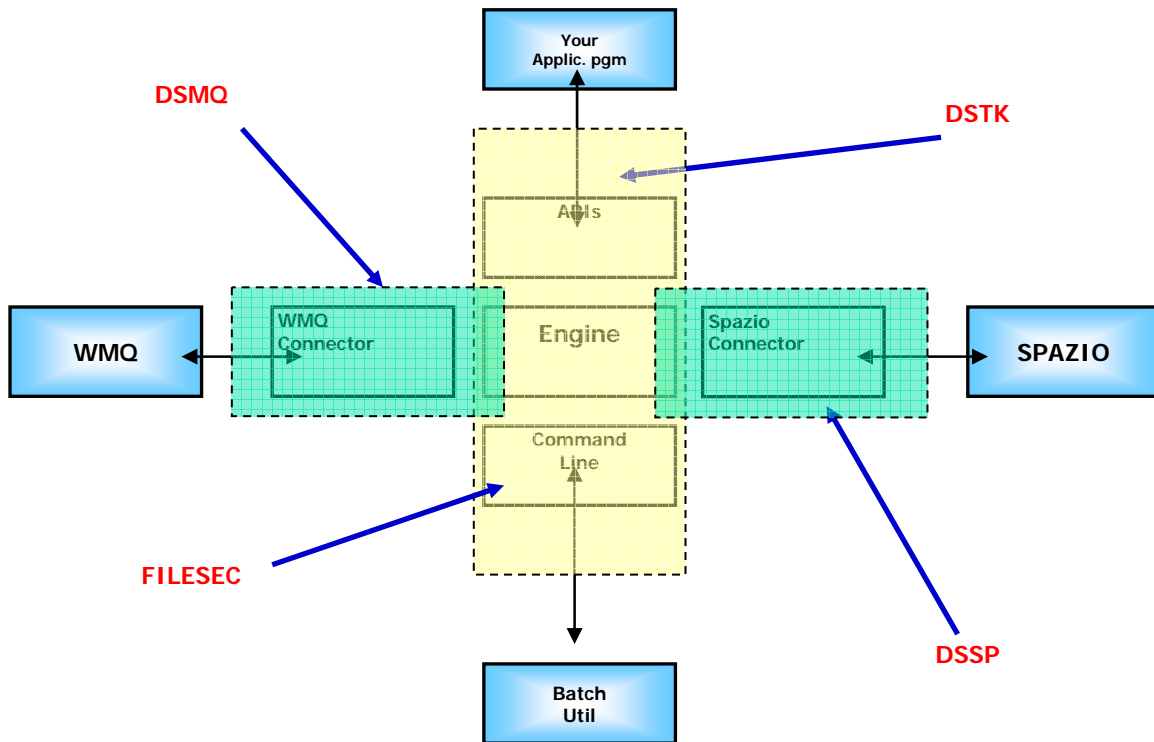
Compliance to Standards

- PKCS
- S/MIME
- PGP
- Main legal Standards
- Data Secure is fully **INTEROPERABLE** with any other solution compliant with the above standards
- **SPAZIO DSTK Community Edition** is named by CNIPA as Software product able to perform digital signatures according to the CNIPA standards

Data Secure Functional Architecture

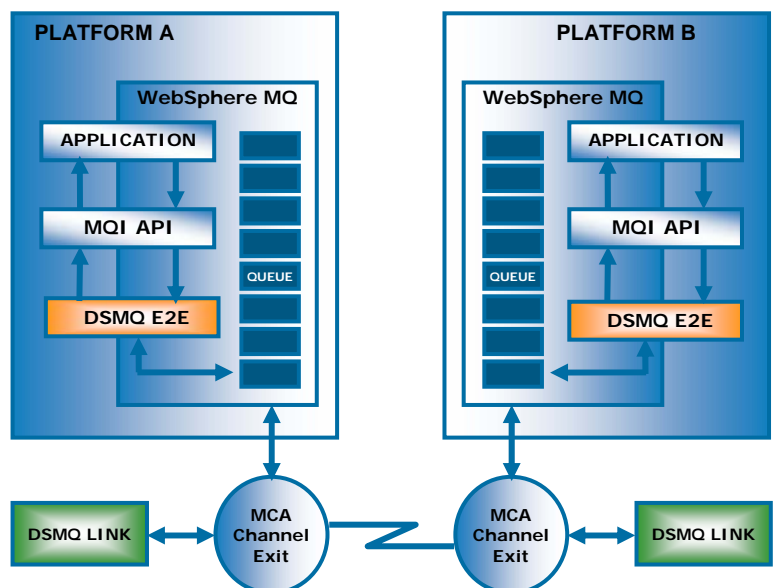
The following components are part of the Data Secure product line. They can be used either alone or in any combination.

- **DSTK**: Cryptographic multiplatform APIs (Unix, NT, z/OS, AS/400, VMS, Tandem).
- **FILESEC**: Cryptographic Utility using a command-line interface.
- **DSSP**: Security for SPAZIO Channels; link oriented or End to End; application transparent.
- **DSMQ**: Security for of WMQ Channels and Q Managers; both link oriented and End to End; application transparent.

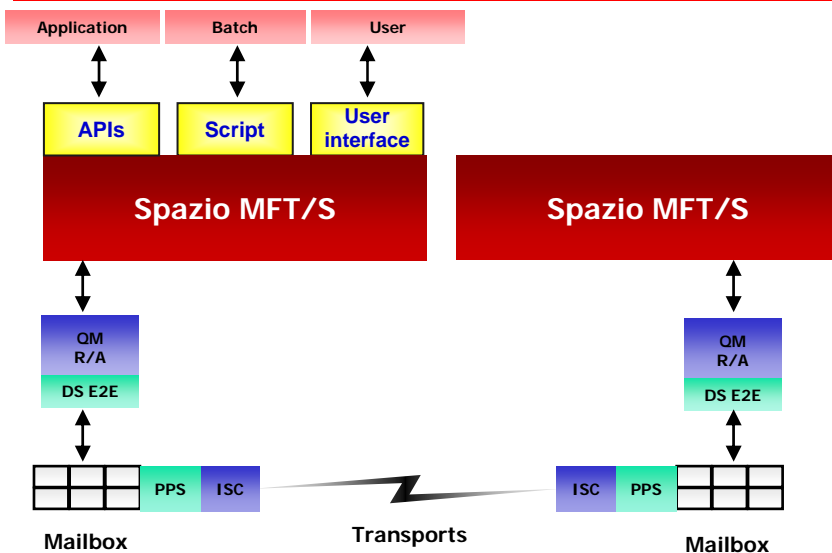


Data Secure for WMQ

- DSMQ is the component aimed at securing WMQ channels.
- It is available either in Link mode (channel security), or in End to End mode (Queues security too).
- In E2E mode the DSMQ takes advantage of the WMQ API exit to supply Security Services leaving UNCHANGED the applications. Thus also queue-resident messages are secured, not only while in transit on the channel. Security is therefore brought up to the application level.



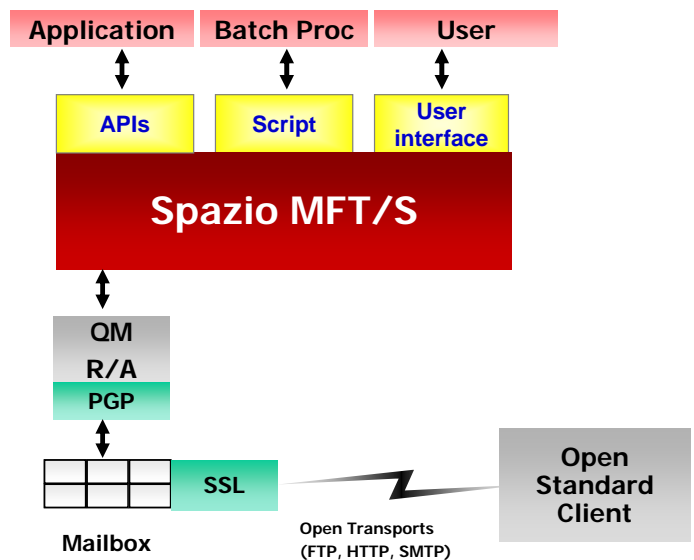
Data Secure for SPAZIO



- DSSP is the component targeted at securing SPAZIO channels.
- It is available either in Link mode (PPS green layer), or in End to End mode (DSE2E green layer).
- In either mode total application transparency is provided. The same differences between Link and End to End solutions mentioned for the WMQ case still apply. In E2E mode queue-resident files are secure, and not only while in transit on the channel.

Data Secure for SPAZIO - Open Edition

- In the "open" domain, **SSL** and **PGP** represent the de facto standards for providing link level or E2E security services.
- DSSP OPEN SSL is a link level solution, providing security to the FTP transport channel.
- DSSP OPEN PGP is an END to END solution, providing security to the files in the SPAZIO mailbox also. Files reside in the mailbox in a secure fashion.



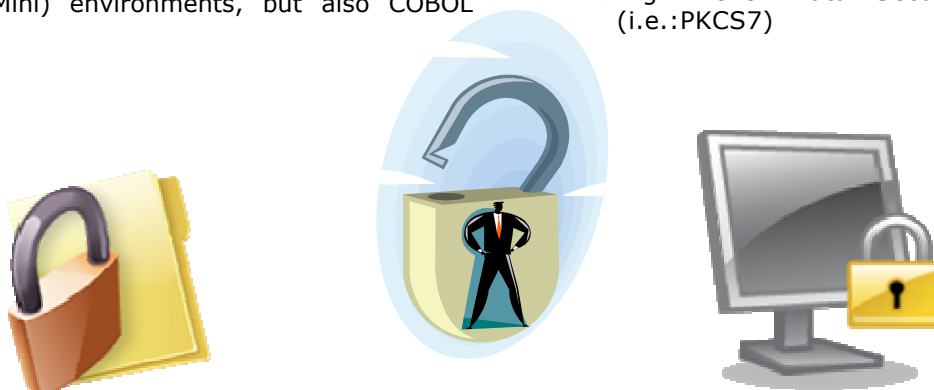
Data Secure Toolkit

DSTK is the Toolkit of choice for developers willing to insert advanced cryptographic functionalities into their applications.

Main features:

- Callable from C, C++, C #, Java framework for distributed (Mini) environments, but also COBOL (mainframe).

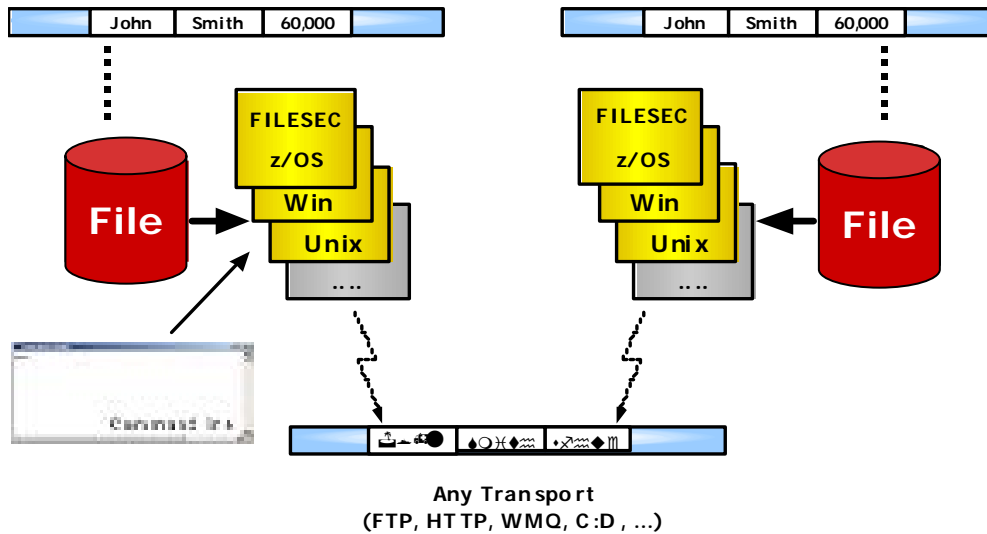
- Crypto Services can be invoked remotely through HTTP-HTTP/S protocol in REST mode.
- The services that may be used remotely are:
 - ◆ Crypto Services (Digital Signature services, Encryption)
 - ◆ High Level Data Security (DS) services (i.e.:PKCS7)



FILESEC

How FILESEC works

A simple outline:



FILESEC is the command-line component, available by script or JCL, that allows pre-post process of files.

- The file is pre-processed on the originating platform.
- The file can be transmitted with any transmission protocol, or locally stored.
- When necessary, FILESEC can be executed again at the receiving end, to decipher the file and verify its authenticity properties.

Who we are

Primeur is an Italian multinational company founded in Genova in 1988. We are now present in Europe, the US and South America as one of the leading vendors of middleware solutions for distributed and heterogeneous IT systems. Primeur has been focussing for years on the IBM WebSphere, Tivoli and Linux environments, becoming an IBM Premier Business Partner.

Our mission is to partner with our Customers in their journey towards successful implementation of SOA Technology and its business benefits, building SOA based technology components and privileging products that complement IBM's SOA reference architecture.

Primeur's flagship product, Spazio, has been constantly improved along the time to include the latest technologies and standards. Our solutions are available on the main hardware and software platforms such as: z/OS, AIX, UNIX, Windows, OS/400, Linux and z/Linux, VMS, Tandem.

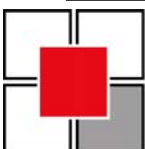
Primeur offers solutions in three areas of prime importance:

- Integration,
- Security
- System Management

Through a combination of products, services and qualified experience, Primeur solutions can also be tailored to meet the specific customer requirements

Primeur complies to a Quality Management System for Planning and Development of Software Products and Professional Service projects according to UNI EN ISO 9001:2000, certified by TÜV.

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www.primeur.com



For further information:

sales@primeur.com

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