



CipherPlus CipherPlus

- Cryptographic enforcement of role-based access control to sensitive data
- Transparent column-level encryption for SAPERION®'s EDMS
- Privacy enablement for confidential data in any SQL database
- Encryption of persistent data and data in transit

Protect Metadata Through Selective Encryption

Metadata, or the indexing information that is attached to every document, is often stored in a SQL database. Access to the database is available to any insider with administrative or DBA privileges. Unauthorized external intruders may also be able to read, acquire or modify this data as a result of a network vulnerability or through having contact with the database server. The "Separation of Duties" can be cryptographically achieved through the use of **CipherPlus**, securing data in transit from the client end to the database server, while SAPERION® administers the audit trail, real-time replication, data mirroring, and full disaster recovery functionality.

The SAPERION® Enterprise Document Management System provides an advanced level of security in managing user access privileges. Documents stored within SAPERION® cannot be compromised without authenticating at the application or network layer. Enabling encryption on both the documents and associated metadata provides a sophisticated, more comprehensive level of data security.



Ensure Privacy Policy Adherence and Legislative Compliance

Pprivate and public institutions are becoming increasingly concerned about the risks associated with unauthorized access to databases containing sensitive client information. Corporations, especially in the financial industry, are working to address corporate privacy and legislative compliance concerns relating to the introduction of VISA's CISP, the Sarbanes-Oxley Act, the Gramm Leach Bliley Act (GLBA), and SEC Rule 17a-4. According to industry risk managers, between 40% and 60% of the threat to sensitive data comes from internal sources.

California's new privacy legislation, SB 1386, mandates that stakeholders be notified immediately upon discovery of a security breach if the stored data has not been encrypted. Unique identifiers such as social security numbers, driver's license numbers, account numbers, credit card or debit card numbers and state identification card numbers are specifically designated as "personal information".

| ACCOUNT | LNAME | FNAME | CREDITCARDNUM | CARDEXP | CITY | SSN |
|---------|----------|--------|------------------|---------|---------------|------------|
| 121501 | Smith | Mark | 4512-5555-3333-2 | 09/05 | Boston | 221-50-555 |
| 275122 | Greene | Graham | 3792-1234-5678-9 | 02/06 | Chicago | 215-11-123 |
| 511398 | Stewart | Sheila | 3199-0123-4567-8 | 05/07 | San Francisco | 123-45-678 |
| 881562 | Anderson | Peter | 4188-8901-2468-3 | 01/08 | New York | 111-22-333 |
| 225819 | Newman | Jane | 5112-3155-2233-4 | 07/05 | Miami | 756-55-678 |

Without CipherPlus, all database information is available in clear text to both authorized and unauthorized users.

SAPERION®

Document Imaging, Document Management, & Workflow
Integrated with: SAP, Lotus-Notes, CRM, & other applications
for Financial Institutions, Government, Hospitals & others.

Index-[Krypt_1]

MaxTrust Financial Services

Account: SSN #:

Last Name: First Name:

Credit Card #: Expiry:

City:

CipherPlus

Any number of index fields can be automatically encrypted on
the client side and sent securely to the SQL database.

2:Data in Table 'ENACCESS' in 'SaperionDB' on '(local)'

| ACCOUNT | LNAME | FNAME | CREDITCARDNUM | CARDEXP | CITY | SSN |
|---------|-------------|--------|-----------------|----------|---------------|-------------|
| 121501 | AA06659CBB0 | Mark | CD5B21DCF35A179 | C9573FDE | Boston | CD5728DBEB5 |
| 275122 | BE1C758BB00 | Graham | CA5929DCF35E109 | C95C3FDE | Chicago | CB5F25C3EF5 |
| 511398 | BA027980AA0 | Sheila | CA5F29D7F35F139 | C95B3FDE | San Francisco | C85C23C3EA5 |
| 881562 | B40F7E8ABB0 | Peter | CD5F28D6F3571B9 | C95F3FDE | New York | C85F21C3EC5 |
| 225819 | BD0F6687AD | Jane | CC5F21DCF35C139 | C9593FDE | Miami | CE5826C3EB5 |

Personal identifiers are encrypted and role-based access privileges
enforced, securing sensitive information from unauthorized access.



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