Taking tokenization and application transparent data protection to the next level

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Why care?

> **Data Breaches everywhere**
  > 3.7 Billion records breached since 2013
  > It is not a question of *if* but *when* attackers will succeed to get into your network

> **European General Data Protection Regulation (GDPR) and PCI DSS**
  > GDPR: Fines up to 20 Mio or 4% of global annual turnover, whichever is greater

> **Losing business with your customers**
  > Obvious: In case of a breach
  > But also: Not winning new or extending existing business contracts
Now what?

> Ignore the issue or...
> Hope that it does not happen to you
> Do something
High Level View on a typical Payment System

[Diagram showing the interaction between different components of a payment system, including POS Terminal, ATM, Payment Processing System, Visa, MC, Hosts, Transaction Log Files, Card Holder Files, Import/Export.]

PAN PAN PAN
Introducing comForte SecurData

POS Terminal → Payment Processing System → SecurData
ATM → Payment Processing System → SecurData
Visa, MC, ... → Payment Processing System → SecurData
Hosts → Payment Processing System → SecurData

SecurData

Transaction Log Files
Card Holder Files
Import/Export

Token → SecurData
Token → SecurData
Token → SecurData
PCI 3.4 ✓
comForte SecurData

What is comForte’s SecurData?

- Provides technology to successfully and easily protect any sensitive data at rest with minimal efforts and without changing existing applications.
- Helps lower compliance costs and significantly reduces the impact of data breaches.

Key Benefits with SecurData:
- Proven Solution, in production at multiple sites today
- Experience: comForte performed 20+ POCs B24 (classic and eps), Connex, and Homegrown applications.
- Secure, Flexible, Scalable
- Various advanced features
- Cost efficient

Diagram:
- Application
  - I/O Intercept or API
  - PAN Rendered Unreadable
- Data Base
- SecurData Manager
  - Audit Log
  - Tokenization Engine
  - Access Rights
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**Key Benefits with SecurData:**

- Proven Solution, in production at multiple sites today
- Experience: comForte performed 20+ POCs B24 (classic and eps), Connex, and Homegrown applications.
- Secure, Flexible, Scalable, high performance
- Various advanced features
- Cost efficient
Now this sounds simple...

So for tokenization you basically just need an intercept library and a tokenization engine?

No!

> Integration is key for security without gaps and for cost efficiency
> Important considerations must be taken into account
> The devil is in the detail
comForte SecurData – Easy Integration

- comForte SecurData makes integration easy - flexible configuration framework and preconfigured Base24 package
- Less effort, less costs, less time needed to be in full protection mode
Next level of cost & time efficiency – Online Migration

Online Migration capabilities of comForte’s SecurData allows to migrate from plain to tokenized data while the application is processing transactions.
Locating sensitive data is key

comForte SecurData can locate sensitive data elements in highly complex structures (e.g. ISO8583 structures as used in B24)
You can only protect data element if you can locate it
=> Full protection without need for extensive workarounds and high efforts
=> Faster implementation, less efforts, highly reduced costs
Next level data protection - built-in high security

Key Custodian Control to secrets

High Security Protection with Hardware Security Module (HSM)
Mind the gap! When passing out data in the clear

> If your data protection solution cannot integrate with file transfer tools:

- **Custom Transformation tool**
  - **Tokenization API**
- **Encryption API**
- **VISA**
- **Client Frontend Server**
- **Secure Channel** (e.g. FTPS/SFTP)
- **Tokens**
- **Encrypted File**
- **PANs**
If you have a sophisticated application transparent data protection framework instead:

On the fly de-protection or translation to other protection format, e.g. PGP
Next level Database support – Transparent SQL/MX Integration

> comForte SecurData currently supports application transparent integration for Enscribe and SQL/MP

> SQL/MX is currently supported via call to an API only, however application transparent integration for SQL/MX (“intercept”) will be ready soon

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Interoperability - comForte SecurData On HPE NonStop
Interoperability - comForte SecurData On HPE NonStop

HPE NonStop

- Secure Channel (e.g. FTPS/SFTP)
  - MS Windows hosts
  - Linux/Unix hosts
  - IBM Mainframe,...

PANs

comForte SecurData

Tokens
Next level of Enterprise integration

HPE SecureData Management Console

HPE SecureData (Virtual Appliance)

Authentication & authorization sources (e.g. active directory)

HSM

MS Windows hosts

HPE NonStop

Linux/Unix hosts

IBM Mainframe

Tokens

cF DS integrated into HPE Secure Data

better always on
Summary comForte’s SecurData / cF Data Security
Thank you!
For your attention