

Helmut Bernhard, 13<sup>th</sup> September 2016 EMEA Senior Solutions Architect



- > PCI-DSS news
- Regulations and
   Directives in line with
   the EU-Digital Single
   Market strategy
- > comForte Regulations and Security Solutions recap

Agenda



### What is new in PCI-DSS 3.2?

- > What is new in PCI DSS 3.2
  - > new sub-requirements for service providers affecting requirements 3, 8 (e.g. multi factor authorisation), 10, 11 and 12.
  - > Appendix A2 incorporates new migration deadlines for removal of Secure Sockets Layer (SSL) /early Transport Layer Security (TLS) in line with the December 2015 bulletin
- > How long do organisations have to implement PCI DSS 3.2?
  - > PCI DSS 3.1 will retire on 31 October 2016, and after this time all assessments will need to use version 3.2. Between now and 31 October 2016, either PCI DSS 3.1 or 3.2 may be used for PCI DSS assessments. The new requirements introduced in PCI DSS 3.2 are considered best practices until 31 January 2018. Starting 1 February 2018 they are effective as requirements and must be used
  - > Compensating control for Tokenisation is under stress (not only) due to new EU-regulations



### Digital market initiatives

- > EU NIS (Network and Information Security) Directive
  - > The NIS Directive provides legal measures to boost the overall level of cybersecurity in the EU
- > EU GDPR (EU Data Protection Rules Reform)
  - > The objective of this new set of rules is to give citizens back control over of their personal data, and to simplify the regulatory environment for business
- > eIDAS Regulation (electronic identification and trust services for electronic transactions in the internal market)
  - > Electronic identification (eID) and electronic Trust Services (eTS) are key enablers for secure cross-border electronic transactions and central building blocks of the Digital Single Market
- > the Revised Directive on Payment Services (PSD2)
  - > The PSD II aims at enhancing consumer protection, promoting innovation and improving the security of payment services within the EU





### Digital market initiative NIS - Implications

- > EU NIS (Network and Information Security) Directive
  - > Status
    - > DRAFT ready May 2016
    - > Date of EU vote unknown
    - > Date of ratification unknown
- > Implications
  - > To early in the review cycle
  - > complements EU-US Privacy Shield Framework





### Digital market initiative GDPR - Implications

- > EU GDPR (EU Data Protection Rules Reform)
  - > Status
    - > Date of EU vote April 2016
    - > Date of ratification May 2018
- > Implications



The level of risk associated with the GDPR has catapulted data protection into the boardroom

Jane Finlayson-Brown, PARTNER, Allen & Overy, 3/2016





# What needs to be done (focus GDPR)

- > Data protection should be included by design within all customer data management implementations (certification needs via EU/national to be selected authorities)
- > Every consumer will have easier access to any data saved about them
- > Every consumer will have the right to know if and when data on or about them has been hacked
- > Every consumer will have the "right to be forgotten," where data can and should be deleted once it is no longer necessary
- > Not meeting these areas can carry a financial penalty of up four per cent of global turnover, which includes all cash revenue that a company generates during a year





# cF Focus is -> GDPR Security of Processing (Article 30)

- > the controller and the processor shall implement appropriate technical and organisational measures, to ensure a level of security appropriate to the risk, including inter alia, as appropriate:
  - > the pseudonymisation and encryption of personal data;
  - > the ability to ensure the ongoing confidentiality, integrity, availability and resilience of systems and services processing personal data;
  - > the ability to restore the availability and access to data in a timely manner in the event of a physical or technical incident;
  - > a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the security of the processing.





### Digital market initiatives implications

> eIDAS Regulation (electronic identification and trust services for electronic transactions in the internal market)

#### > Status

- > Date of EU vote July 2014
- > Date of ratification July 2016

### > Implications

- > Since July 1, 2016, eIDAS repeals the existing eSignatures Directive, it replaces now any inconsistent national laws in Europe
- > It includes electronic signatures, seals, time stamps, registered delivery services and certificates for website authentication
- > Possible usage for mobile banking 2FA for PSD2 (more to come in 2017)
- > There is no EU-wide certification authority and other trust service provider listed yet from service provider organizations like ETSI





### Digital market initiatives

- > the Revised Directive on Payment Services (PSD2)
  - > Status
    - > Date of EU vote January 2016
    - > Working paper ECB mid of 2017
    - > Date of ratification January 2018 (?)
- > Complimenting SEPA and PCI-DSS, PSD2 authorizes payment initiators and account information services to officially become payment service providers
- > Banks are now called ASPSPs (Account Servicing Payment Service Providers)
- > SCA (Secure Customer Authentication) in combination with customer authorisation still unclear, a RTS (Regulatory Technical Standard) expected from the ECB first half of CY2017
- > Disruptive "movements" are already here, eg. MC potential purchase of VocaLink, Google bought Apigee (API-ISV)





# PSD2 The new disruptive model

AN UPDATED PAYMENT MODEL INCLUDING A PAYMENT AN UPDATED INTERACTION MODEL INCLUDING AN **INITIATION SERVICE PROVIDER (PISP) ACCOUNT INFORMATION SERVICE PROVIDER (AISP)** Customer Merchant Customer PISP **API** API API API **Issuer Bank Acquirer Bank/** Customer's Customer's Customer's **Processor** Bank A Bank B Bank C **Card Network** --->Present flow ← Future flow



PSD2 (major changes)
> With PSD2, the Directive will allow retailers to 'ask'

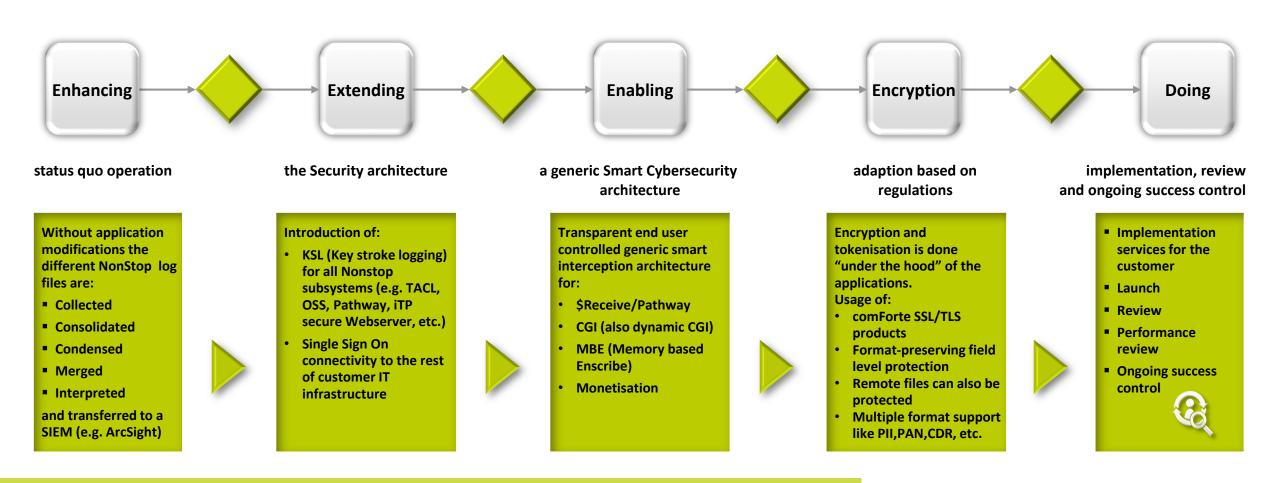
- > With PSD2, the Directive will allow retailers to 'ask' consumers for permission to use your bank details. Once you give permission, the retailer will receive the payment directly from your bank no intermediaries
- > The direct connection between retailers and banks will be enabled using Application Programming Interface or APIs for short
- > The use of API's is exciting because it enables companies (innovative companies) to connect to financial institutions directly
- > With PSD2 they're introducing Account Information Service Provider or AISP's, which will allow you to view all of your multi-bank details in 1 portal.
- > This is interesting stuff because now it means that current and new providers, not necessarily banks, can consolidate your account information in 1 place and acquire insightful data about you. This offers lucrative cross selling opportunities for these new providers

REQUIREMENTS		FEATURES	
STRONG CUSTOMER AUTHENTICATION	1	STRONG PKI AUTHENTICATION + BIOMETRICS OR PIN	**
DYNAMIC LINK TO A SPECIFIC AMOUNT AND PAYEE	2	SHOW AND SIGN EACH PAYMENT TRANSACTION	**
ACCESS TO PAYMENT ACCOUNT INFORMATION FOR THIRD PARTIES	3	OUT OF BAND AUTHORIZATION OF ACCOUNT ACCESS	**
ENSURE USER PRIVACY	4	TOKENIZATION OF THE USER	**
PSPs ARE REQUIRED TO FIND EVIDENCE AGAINST FRAUD	5	NON-REPUDIATION AND PROOF WITH DIGITAL SIGNATURES	**



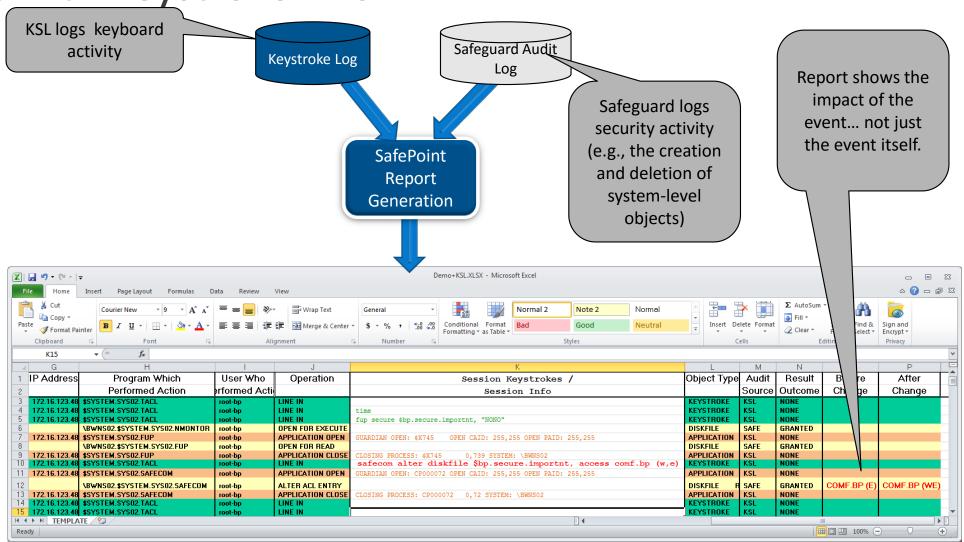
# comForte Cybersecurity and Privacy blueprint

> Result oriented Cybersecurity and Privacy innovation process



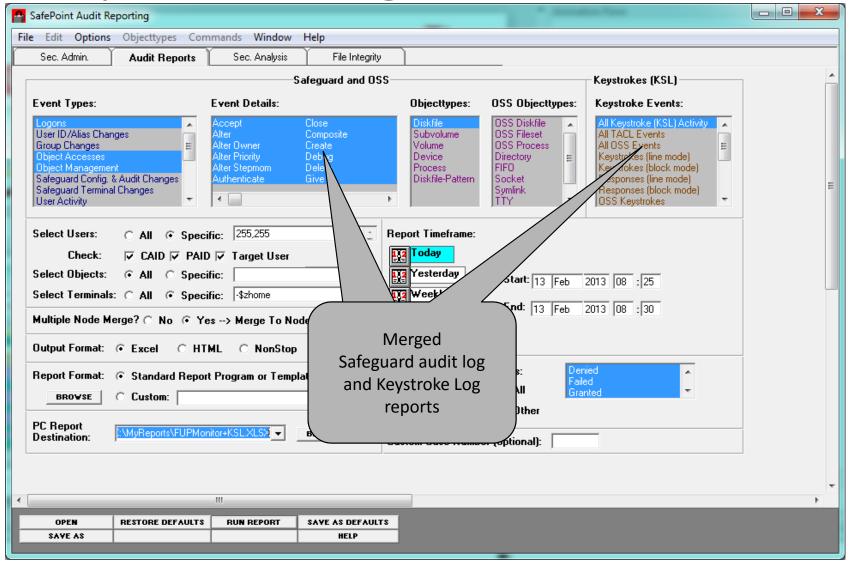


SafePoint/KSL Reports – Merging Keystroke with Safeguard log Report with Keystroke Info



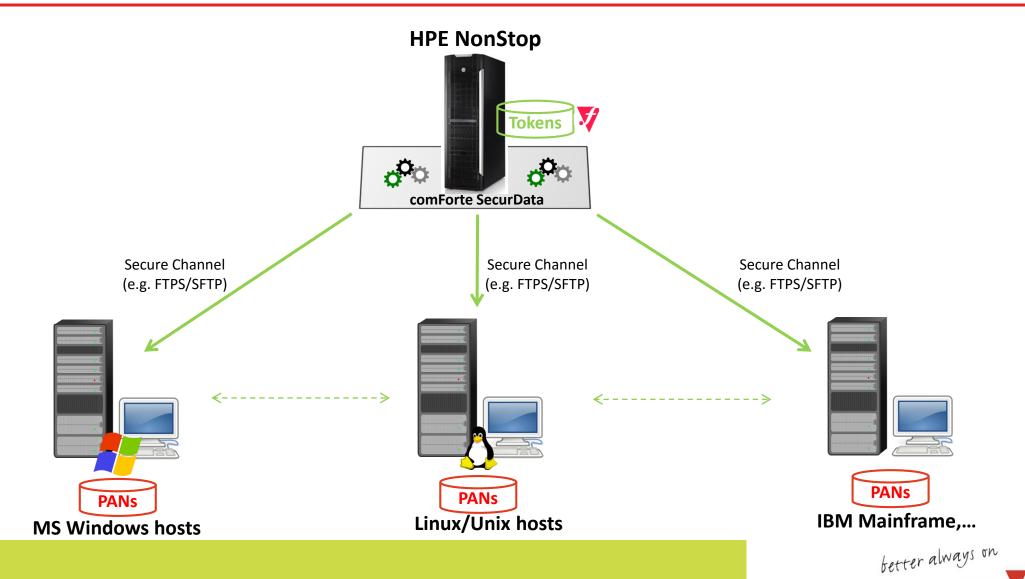


SafePoint Reports for merged and customized reports

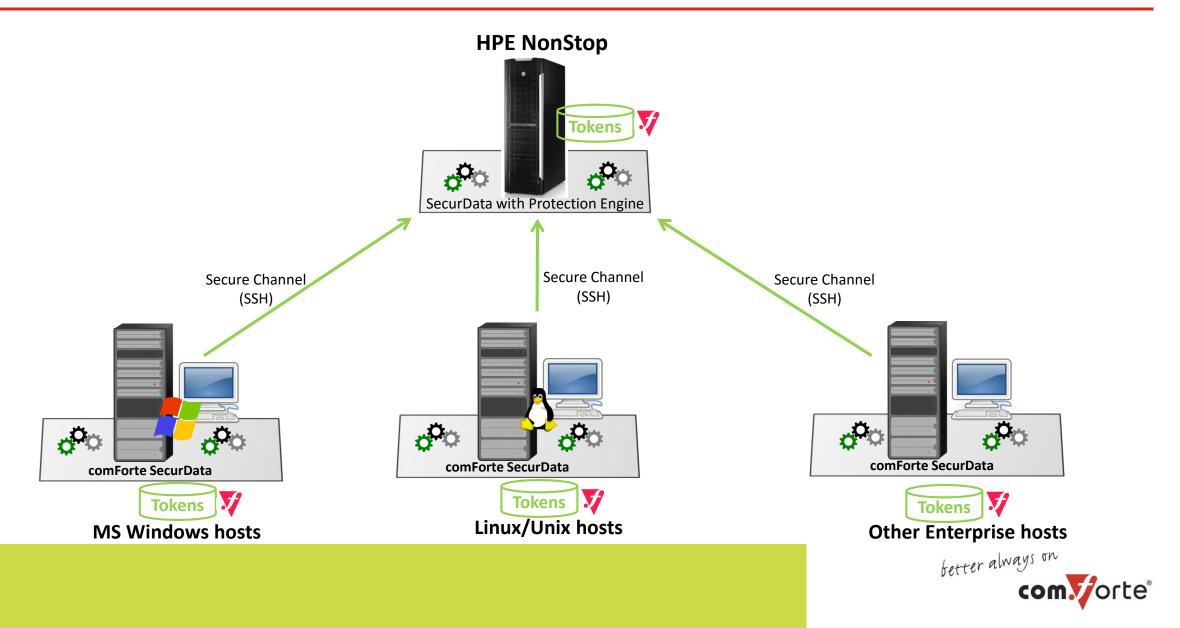




## comForte SecurData On HPE NonStop interoperability



# cF SecurData – NonStop as the tokenization server



# Regulations and Security - Recap



- > GDPR & PSD2 introduce a lot of data governance obligations
- > Use of personal data needs to be scrutinized and justified
- > Implementation of appropriate technical and organisational measures, to ensure a level of security appropriate to the risk
- >GDPR is coming, no doubt. May 2018! Start now!
- > Tokenization / Encryption of personal data is key as well as DR
- > comForte can help with encryption and tokenization of sensitive/personal data
- > Proven solutions / reference customers / lots of experience in the compliance space (e.g. PCI-DSS)





