

**Hewlett Packard
Enterprise**

GDPR: Make Compliance Good for Your Business

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Agenda

- **Why should you care about the General Data Protection Regulation (GDPR)?**
- **What opportunities does it pose for you?**
- **How We Do It**

Key Terms and Definitions

Personal data: Information relating to an identified or identifiable natural person/data subject
(e.g. Name, Address, IP Address, biometric data, gene sequence)



Natural persons who can be directly or indirectly identified by the processor, controller or a third party

Processes personal data on behalf of the controller
(e.g. cloud service, call center)

Determines the purposes and means of the processing of personal data, making decisions
(organization delivering the service)

What is The EU General Data Protection Regulation – (GDPR) ?

Nariadenie Európskeho parlamentu a Rady (EÚ) 2016/679 z 27. apríla 2016 o ochrane fyzických osôb pri spracúvaní osobných údajov a o voľnom pohybe takýchto údajov, ktorým sa zrušuje smernica 95/46/ES (všeobecné nariadenie o ochrane údajov)

- GDPR replaces previous Data Protection Directive
- Data Protection Directive created to regulate control of Personally Identifiable Information (PII)
- GDPR will harmonize data protection laws across 27 EU member states
- Clearer rules for data transfer across borders
- Better control over individual's data and its use
- Comes into force on 25th May 2018



EU General Data Protection Regulation (GDPR) - Key Changes

- **Data Protection Officer (DPO)**
- Increased responsibility around security **breach notification**
- Heavy non-compliance sanctions – **4% of Global Sales**
- Privacy **by design** and privacy by default
- **Right to be forgotten** and data portability
- A **single set of rules** and a **single data protection authority**
- EU Regulation will apply **across borders**
- Greater **compliance** requirements



What technical delivery does GDPR compliance require ?

- Corporate Governance monitoring and enforcement
- Social media monitoring - internal & external where permitted
- Ability to freeze data across a complex IT legacy architecture
- Cross-media visibility and comprehension
- De-duplication, clustering and synthesis of mass data
- Necessity to respect national and international data privacy standards
- Fast and effective response to the Business



The industry should see this as an **opportunity**

- better **data management and governance**
- overall enhancement of companies **IT security**
- avoid very! costly **data breaches**
- avoid **reputational** damage
- **competitive advantage** thru GDPR compliance
- **customers** will appreciate strengthened security of their very own data

The Window of Opportunity



In order to prepare for the May 2018 deadline, organizations *must interpret the GDPR requirements, map technology to them, and quickly identify the correct information to be tightly managed and protected.*

Information insight is the key to solving these challenges of large volumes of data and high levels of complexity.

The risks are high - lost customer confidence, security breaches, fines, sanctions, and potential lawsuits.

GDPR – Key Challenges

Report Compliance

Get Customer Consent

- What can be done with what data?

Find All Customer Data

- Within all systems, across borders
- At Processor and Controller
- Show it on demand to customer – Subject Access Requests (SAR)
- Comply to „Free Movement of data“ – or „Right for Portability“

Protect All Customer Data

- Data Pseudonymization
- Breach Detection & Notification
- Comply to „Right to be Forgotten“

Which “Entities” should be most engaged in GDPR preparation?

B2C corporates

Those acquiring personally identifiable information from private citizens in the normal course of business e.g.

- a. Retailers - supermarkets
- b. Personal insurance
- c. Retail Banks
- d. Telcos

B2B corporates

- a. Those with a large workforce where the PII is employee data
- b. Those which have agents who are B2C

Government agencies

Those who acquire PII due to their engagement with the public e.g.

- a. Healthcare
- b. Municipal Authorities



Seven Recommendations for immediate action

1. Adopt a **comprehensive framework** and strategy for digital security
2. Focus on the **DATA - records management, classification, encryption and retention**
3. Conduct a **full audit** of current and **likely risks initiatives**
4. Bake **security into all processes** (Security by design)
5. Mobilize the larger workforce around **data security** (prod. design, supply chain ...)
6. Bring **partners & customers** up to rigorous security standards
7. Rethink the role of IT (become a **valued business partner**)

HPE delivers a flexible, modular, intelligent set of solutions to help customers identify & take action on customer data in accordance with GDPR

GDPR Use Cases	How HPE delivers
Personal Data Assessment	HPE ControlPoint HPE Structured Data Manager
Defensible Disposition	HPE ControlPoint HPE Structured Data Manager
Secure Content Management	HPE Secure Content Management Suite
Litigation Readiness and Response	HPE Verity Suite
Adaptive Backup and Recovery	HPE Adaptive Backup and Recovery Suite HPE Enterprise Secure Key Manager (ESKM)
Encryption and Pseudonymisation	HPE Adaptive Backup and Recovery Suite HPE SecureData, HPE Atalla HSM HPE Secure Mail and HPE ESKM
Breach Response and Reporting	HPE ArcSight HPE Secure Data, HPE Atalla HSM HPE SecureMail and HPE ESKM
Breach Prevention and Neutralization	HPE ArcSight HPE Fortify HPE SecureData, HPE Atalla HSM HPE SecureMail and HPE ESKM

Encryption and the GDPR

“The GDPR is clear that if data is encrypted or otherwise obfuscated, then a data breach will not be deemed to have occurred even if the encrypted data is exposed.”*

Data Security capability	HPE product	GDPR article reference
Pseudonymizing data in production applications and databases	HPE SecureData with Format-Preserving Encryption (FPE)	<ul style="list-style-type: none">• Page 51, Article 83: Calls out encryption as an approach to mitigate risk associated with data protection• Page 121, Article 6, Section 4: Calls out encryption and pseudonymization as appropriate safeguards
Pseudonymizing data in analytics, production warehouse, or non-production systems	HPE SecureData with Format-Preserving Encryption (FPE)	<ul style="list-style-type: none">• Page 161–162, Article 32, Section 2: FPE satisfies guidelines a, b, & c for pseudonymization and encryption of personal data• Page 163, Article 34: If data is encrypted, communication of data breach is not required
Encryption and key management for bulk data on server/storage infrastructure	HPE ESKM + KMIP enables storage	
Collaborate to protect and share data over open public networks for legitimate business purposes	HPE SecureMail	

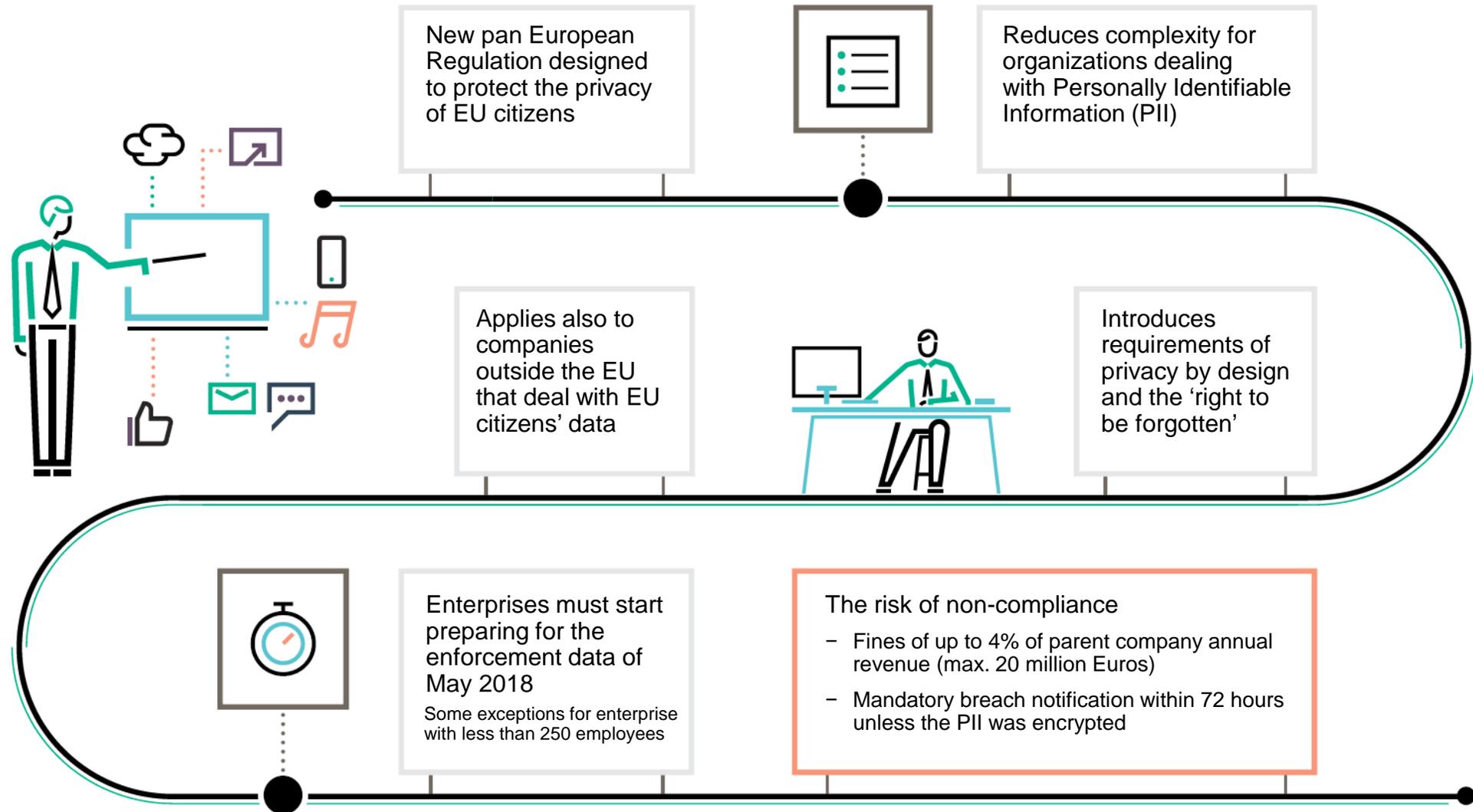
Field level, format-preserving, reversible data de-identification

Customizable to granular requirements addressed by encryption & tokenization

	SST	FPE		
	 Credit card 4171 5678 8765 4321	 SSN/ID 934-72-2356	 Email bob@voltage.com	 DOB 31-07-1966
Full	8736 5533 4678 9453	347-98-8309	hry@ghohawd.jiw	20-05-1972
Partial	4171 5681 5310 4321	634-34- 2356	hry@ghohawd.jiw	20-05-1972
Obvious	4171 56AZ UYTZ 4321	AZS-UD- 2356	hry@ghohawd.jiw	20-05-1972

NIST SP800-38G – Methods of Format Preserving Encryption

GDPR enacted to help protect EU citizen data from risk





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Thank you

hpe.com/solutions/GDPR

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“... the opportunity for security software GDPR-related concerns will be \$811 million in 2016, rising to **\$1.8 billion** by 2019.

GDPR-related storage software will grow \$258 million in 2016 to **\$1.7 billion** in 2019”

IDC, EU Data Protection Reform will Drive Growth in European Software and Storage Market”,
By Duncan Brown, Carla Arend and Archana Venkatraman, Nov 2015