



# General Data Protection Regulation

## What it Means for IMS Recovery



# GDPR - Are you Ready?

**What:** General Data Protection Regulation (GDPR)

**Where:** Worldwide

**When:** In effect May 2018

**Who:** Applies to any company that has data from an European Union (EU) citizen

**Bottom Line:** GDPR will increase privacy & protection for individuals and give regulatory authorities greater power to take action against businesses that breach the new laws



# What are the penalties?

Up to:

**4%** Of annual global revenue  
or

**€20 Million**

Whichever is greater

**94%**

of US CIOs have data that is affected

**90%**

of CIOs are worried about the impact it will have on their ability to process that data



# Key GDPR Challenges

- Security of Data Processing
- Data protection by Design and by Default
- Appointment of a Data Protection Officer
- EU rules for non-EU companies
- Increased end user rights
- Data breach notification is mandatory - 72 Hours!





# The Legislation

Article 32 of REGULATION (EU) 2016/679 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (of 27 April 2016) says:

Taking into account the state of the art, the costs of implementation and the nature, scope, context and purposes of processing as well as the risk of varying likelihood and severity for the rights and freedoms of natural persons, 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:

- (a) the pseudonymisation and encryption of personal data
- (b) the ability to **ensure the ongoing confidentiality, integrity, availability and resilience** of processing systems and services;
- (c) the ability to **restore the availability and access** to personal data in a **timely manner** in the event of a physical or technical incident;
- (d) a process for **regularly testing, assessing and evaluating** the effectiveness of technical and organisational measures for ensuring the security of the processing

# GDPR Compliance Recovery Requirements

## Recovery Solutions must provide:

- “TIMELY” recovery from any data loss or corruption
- PROOF that data is recoverable and that recovery is TIMELY
- REPEATABLE process to demonstrate continued compliance
- INTEGRITY validation for data





# From BMCs 2017 mainframe survey

Respondents indicated some of their most important data recovery challenges were:

Time taken to recover	27%
Recovery time prediction	15%
Proof of recoverability	15%
Understanding recoverability	12%

69% have concerns about Recovery

These are ALL required to comply with GDPR

# Recovery is NOT Disaster Recovery

- You might say “I’ve got it covered with my mirror” - You don’t!
- Mirroring is not the answer  
Everything gets mirrored - **Even data corruptions/deletions**
- Data can become unrecoverable



**80%**

of all unplanned LOCAL site outages are due to software or human errors





# Speed of Recovery

- “Recovery is all about speed”\*
- You have a choice of Backup and Recovery options
- How do you define “timely”?
- If one recovery option is faster than another, is the slow one, “timely”?

\* Customer comment from EMEA MAC, June 2017



# Recovery Estimation

- Recovery ESTIMATION provides an early guide to recovery time
- Can give you early indications of possible non-compliance



# Recovery Simulation

- Recovery SIMULATION must perform all the steps needed for a Recovery
- You must be CERTAIN you can meet your recovery time objectives (RTO)
- You must PROVE compliance
- Easily repeatable process



# Related Data Across IMS AND Db2

- All of the preceding applies to Db2 as well as IMS
- For related data, you need **COORDINATED** recovery of IMS and Db2 assets
- Recover Db2 and IMS to the **SAME** point in time



# Beyond Recovery

*GDPR states businesses must:*

*“Ensure ongoing confidentiality, integrity, availability and resilience of customers personal data”*





# Data Integrity Validation

- For IMS, this means pointer checking
- Validate the physical and logical pointers during image copy
- Validate again during recovery processes to ensure structural integrity



## In Summary



### **GDPR Mandates that companies have:**

- **Recoverability**
- **Timeliness**
- **Accuracy**
- **Data Integrity**
- **Proof**
- **Repeatable Processes**

# Key Takeaways



## GDPR affects everyone

- Anyone who does business with EU citizens
- Not just those businesses based in the EU



## It is coming SOON

- May 25, 2018



## Vendors can help

- Providing ESTIMATION, SIMULATION and PROOF of recoverability
- Defining TIMELY
- Ensuring INTEGRITY of unstructured data



# More About GDPR

[https://en.wikipedia.org/wiki/General\\_Data\\_Protection\\_Regulation](https://en.wikipedia.org/wiki/General_Data_Protection_Regulation)

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32017R0679>

**THANK  
YOU**