

Agenda



GDPR Explained

Key GDPR Requirements

Addressing 5 Critical GDPR Requirements

- Data Protection Impact Assessment
- Purpose Limitation
- Data Protection
- Incident Response
- Breach Notification



GDPR Explained

"GDPR is a complex set of regulations specifying how organizations must protect EU citizens' personal data. Here are six fundamental principles of the GDPR."



Expands and standardizes data protection rules across entire European Union

Gives EU citizens "ownership" of their personal data

Broadly defines personally identifiable information (PII) "any data that can be used to identify a person"

Organizations must seek permission from citizens to use their personal data



GDPR Explained



EU citizens can withdraw right of an organization to use their personal data

EU citizens can monitor the use of their data, decide who can use it, and can demand its return to them

In summary: they have the right to be "forgotten"





Key GDPR Mandates

"GDPR is complex but the key mandates can be broken down to eight major points."



1. Big Fines

GDPR compliance violations can be huge: 4% of global revenue or €20 million whichever is greater

2. Data Protection Officer Required

Organizations >250 employees must have Data Protection Officer who will be personally liable for data breaches

3. Strict Breach Notification

Organizations must notify authorities within 72 hours of a data breach



Key GDPR Mandates



4. Global Reach

Any organization anywhere in the world collecting EU citizen personal data must comply

- 5. Comprehensive Monitoring and Security Controls Organizations must establish strict PII access monitoring, documentation, and security controls
- 6. On-Demand Demonstration of Data Security
 Organizations must be able to demonstrate their data
 protection process at any time

Key GDPR Mandates



- 7. Data Protection Impact Assessment
 Organizations must assess the scope, purpose, and sensitivity of data processed
- 8. Applies to Organization Affiliates

 GDPR rules apply to a company's partners, vendors, subcontractors, and cloud providers who store or access PTT



GDPR Compliance is Challenging



- GDPR compliance violations can be big
 4% of revenue or €20 million whichever is greater
- GDPR requirements are complex
- Data environments are large, complex, and distributed
- PII is often stored in many applications and databases across the enterprise









Monitor - Detailed audit/alerting of PII usage – "Who, What, Where, When and How"



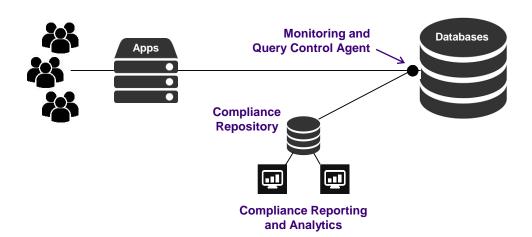
Report/Analyze - Out-of-the-box GDPR compliance reports and alerts. Analysis of users, organizational context, applications, PII access for audit and breach forensics



Protect - 70 granular access policies automatically mask or block inappropriate access to PII





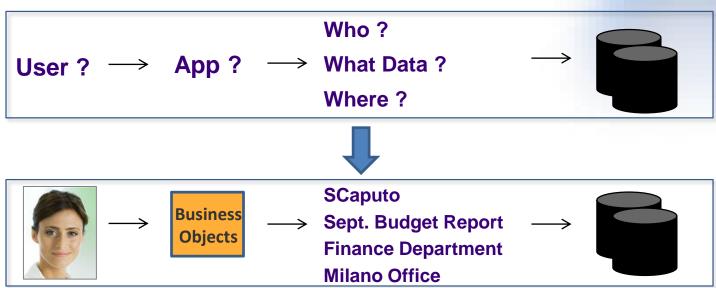


- Unobtrusive
- Comprehensive
- Quick to Install
- Low Admin Effort





Establishes "business context" for comprehensive, accurate compliance and effective protection







Addresses Five Critical GDPR Requirements





Purpose

Limitation







Impact Assessment

(Article 35) (Article 5-1b)

Data Protection

(Article 5-1f)

Incident Response

(Article 5-2)

Breach Notification

(Articles 33/34)





GDPR Impact Assessment – organizations need to conduct audit of what is PII, how it is used, and by whom to confirm and attest they are GDPR-compliant

Teleran addresses by:

- Enabling a "GDPR Readiness Assessment" by discovering sensitive PII and auditing/documenting who is accessing PII, with which application, and for what purpose
- Applying appropriate data masking and access control policies to protect PII, ensure compliance





GDPR Data Protection Impact Assessment







Purpose Limitation - personal data use must be limited to stated purpose and no other

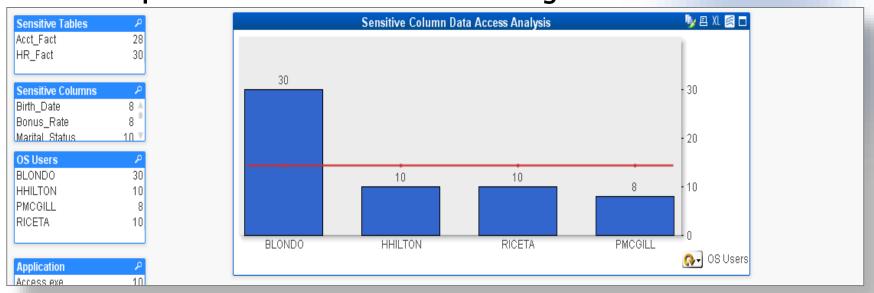
Teleran addresses by:

- Auditing PII access to ensure it is limited to stated use and no non-compliant access is occurring
- PII protection policies enforce purpose limitation by allowing only authorized users to access PII
- All other attempted access is prevented





GDPR Purpose Limitation Monitoring



Report showing sensitive column data access





Purpose Limitation PII Access Controls

Policy Selecto	Variable Analysis Cat	egory Analysis Glossary Advance	d Filters •		
yes no	Policies 13 2	Application Restriction Column Access Restriction Column Combination Restriction Column Restriction DDL Restriction DML Restriction Row Level Restriction BETWEEN Range Limit	Column Filter Requirement I IN List Limit Join Limit Join Requirement Join Restriction Large Table Restriction Partition Access Requirement	Relational Operator Restriction SELECT Restriction Self-join Restriction Table Join Requirement Table Requirement WHERE Requirement z.not in use	
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plication striction			Use this policy to prevent inefficient queries from access like MS Access in which users can easily launch queries w conditions.		244
l	This policy prevents queries on <	TABLE> if the query contains <column></column>		Access to <table><column> is not permitted. If</column></table>	
estrict Da	ta Masking	Datasource, Scho Sensitive Catego	ema, Table, Column, ry, Mask	Use this policy to mask sensitive columns.	
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olumn estriction	This policy prevents queries on < on <column> by <user>.</user></column>		Use this policy to prevent the use of a column as a filter constraint. This can be used for a variety of reasons incle avoiding low cardinality columns that will deliver massive resets or prevent access to data where filtering on this columnay compromise data access rules.	uding: Your query has been blocked because it contains a	234





Purpose Limitation PII Access Control



Compliance
Message to
application user
attempting to
access sensitive
data





Data Protection – personal data must be secure and remain unchanged. Security audits must be documented

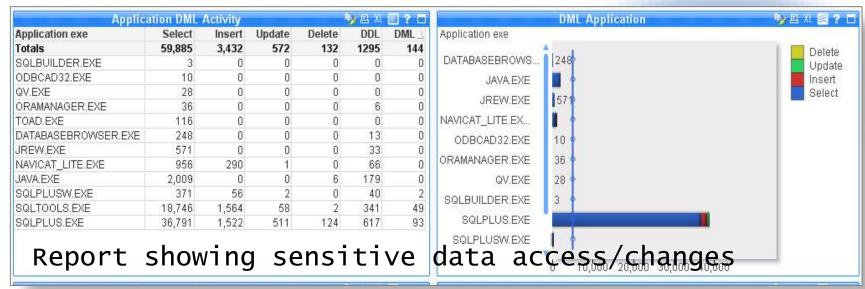
Teleran addresses by:

- Monitoring access to ensure personal data is unchanged or destroyed
- Audit reporting documents data security and integrity measures are in place
- Data protection policies prevent data manipulation or destruction of personal data





Data Integrity Reporting and Controls



DELETE Restriction	Prevents queries containing DELETE on <table> or <column>.</column></table>	Use this access policy to prevent deleting sensitive data.	





Breach Identification / Notification – organizations need to put in place process to be aware of and notify authorities and citizens if and when a breach occurs

Teleran addresses by:

- Identifying and alerting staff to suspected or actual data breaches
- Documenting breach for purposes of notification and preventing further breach activity
- Applying additional data masking and access control policies to prevent future breaches





Suspicious Activity Alerting

---Security Alert---

From: Teleran [mailto:501458408@chicisapp429v.corporate.gr.com

Sent: Saturday, July 23, 2019 3:22PM

To: rsimone@gr.com

Subject: GDPR Compliance Event Alert

Exception Activity: INSERT sensitive data to TEMP TABLE queries run 7/23/19 3:20 PM by User ID: DB

Administrator.

Download event report pdf.







Data Breach Identification



Suspicious Activity Dashboard identifying the possible GDPR violation of accessing and moving sensitive data





Data Breach Forensic Audit Documentation

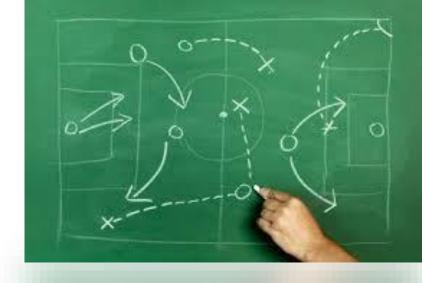
Suspicious Activity Dashboar	d Exception Analysis Exception SQL Analysis Filters Statistics	
		D II ⊕ XL ©
SQLPLUS.EXE	130 NSERT INTO SH.CUSTOMERS_TEMP VALUES ('23258', 'Marshall', 'Kahn', 'M', '1943', 'married', '77 West Guthrie Avenue', '48346', 'Noma', '51985', 'FL', '52595', '52790', '417-634-7770', 'B: 30,000 - 49,999', '1500', 'Kahn@company.com', 'Customer total', '52772', nul	
SQLPLUS.EXE	130 NSERT INTO SH.CUSTOMERS_TEMP VALUES ('23258', 'Marshall', 'Kahn', 'M', '1943', 'married', '77 West Guthrie Avenue', '48346', 'Noma', '51985', 'FL', '52595', '52790', '417-634-7770', 'B: 30,000 - 49,999', '1500', 'Kahn@company.com', 'Customer total', '52772', nul	
SQLPLUS.EXE	131 INSERT INTO SH.CUSTOMERS_TEMP VALUES ('30411', 'Nolita', 'Banas', 'F', '1945', 'single', '87 South Luquillo Avenue', '72996', Scheveningen', '52296', 'Zuid-Holland', '52771', '52770', '299-767-6233', 'F: 110.000 - 129.999', '3000', 'Banas@company.com',	
SQLPLUS.EXE	131 INSERT INTO SH.CUSTOMERS_TEMP VALUES ('30411', 'Nolita', 'Banas',	
SQLPLUS.EXE	'F', '1945', 'single', '87 South Luquillo Avenue', 72996', 'Scheveningen', '52296', 'Zuid-Holland', '52771', '52770', '299-767-6233', 'F: 110,000 -	
SQLPLUS.EXE	132 129 ,999', '3000', 'Banas@ company.com', 'Customer total', '52772', null,	
SQLPLUS.EXE	TO_DATE('1998-01-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), null, 'I)	
SQLPLUS.EXE	O ALTER TABLE sh.customers_TEMP DISABLE constraint customers_country_TEMP_fk	

Documentation of compliance violation. Inappropriate access and movement of PII to temporary database table

Summary: Teleran Addresses 5 Critical GDPR Mandates

Impact Assessment	Purpose Limitation	Data Security & Integrity	Accountability & Documentation	Breach Notification				
(Article 35)	(Article 5-1 b)	(Article 5-1 f)	(Article 5-2)	(Articles 33/34)				
Audit where PII exists, how used, by whom. Identify / remediate gaps	Confirm PII use limited to stated purpose and no other	Protect PII from unlawful use, manipulation, destruction or loss	Demonstrate and document compliance processes	Establish process to: Identify data breaches. Notify authorities / citizens of breach				
Teleran Solution								
Discovers and classifies PII. Audits who accessing PII to identify / remediate compliance gaps	Monitoring documents adherence to purpose limits	Monitoring / controlling PII access and use to ensure protection	Audit reports demonstrate, document compliant PII access / control	Identifies and alerts to suspected or actual PII breaches				
Automatically applies data masking access control policies to protect PII and ensure GDPR compliance	Data masking and access controls enforce limits, prevent inappropriate use/users/apps	Delivers masking sand access policies to prevent: illegal data use, data manipulation, destruction	PII masking and access control and testing processes prove protection measures and GDPR-compliancy	Documents breach activity for notification. Applies new masking and control policies to prevent future like breaches				





- What is your GDPR compliance strategy?
- Schedule a Teleran GDPR Data Protection Readiness Assessment now to establish your GDPR roadmap

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