

PRODUCTIVITY THROUGH METADATA VISIBILITY

How will the EU General Data Protection Regulation (GDPR) impact you? Keep your SAS® data assets and platform secure.

1st December 2016 Michelle Homes



GDPR – General Data Protection Regulation

- Who is aware of the GDPR EU regulation?
- Do you know if your organisation needs to comply?
- What are the sanctions if you don't comply?





GDPR – General Data Protection Regulation

- Apply from 25th May 2018
- Harmonise data protection laws
- Regulation promotes techniques such as anonymization, pseudonymization and encryption
- Sanctions: Up to 20,000,000 EUR or up to 4% of the annual worldwide turnover





173 STATEMENTS

GDPR consists of 173 statements, detailing the legislation

99 ARTICLES

Legislation
72 Hour Breach

Notification

ARTICLE 83

Administrative Fines
"10 000 000 EUR, or in the case of
an undertaking, up to 2 % of the tota
worldwide annual turnover of the
preceding financial year, whichever
is higher"

11 FACTORS

These Factors are key to the size of the fine. Part 1 Such as "Data protection by design and by

default".

"Security of processing"

TECHNOLOGY

Technology use is expected in 20% of the Articles

LEGAL

Legal Interpretation is needed in at least 6% of the Articles, and 12% of the statments

COMPLIANCE

Compliance especially automated compliance will assist in 20% of th Articles.

MONITORING

Monitoring of Data Processing applies to 19% of all the Articles.

SPECIFIC DATA AREAS THAT ARE IN THE REGULATION

Childrens Data
Direct Marketing
Pseudonymisation of Data
Health Data
Right of Access
Right to be Forgotten

Natural persons may be associated with online identifiers Devices, IP Addresses, RFI Tags, Cookie

identifiers,Applications,Tools That leave traces to indentification

DATA PROTECTION OFFICER

The data protection officer shall have at least the following tasks:

(a) to inform and advise the controller or the processor of their obligations

(b) to monitor compliance with this Regulation

"The controller and processor shall ensure that the data protection officer does not receive any instructions regarding the exercise of those tasks. He or she shall not be dismissed or penalised by the controller or the processor for performing his tasks."

Published from www.vciso.co GDPR Report 2016

GDPR FINES

ARTICLE 83/4

"Infringer says of the following provisions shall, in accordance with LODG 1000 strikes to administrative fines up to 10 000 000 EUR, or in the case of an undertaking, up to 2 % of the total worldwide annual turnover of the preceding financial year, whichever is higher."

ARTICLE 83/5

"Infringements of the following provisions shall, in according with paragraph 2, be subject to administrative fines up to 2000 Companies in the case of an undertaking, up to 4 % of the total worldwide annual turnover of the preceding financial year, whichever is higher:"

ARTICLE 83/6

"Non-compliance with an order by the supervisory authority as referred to in Article 58(2) shall, in accorder 20,000 h or this Article, be subject to administrative fines up 0.2200300

EUR, or in the case of an undertaking, up to 4 % of the total worldwide annual turnover of the preceding financial year, whichever is higher."

STATEMENT 148

"In order to the enforcement of the rules of this Regulation, penalties including administrative fines should be only used to the property of this Regulation, in addition to, or instead of appropriate measures imposed by the supervisory authority

STATEMENT 151

"The rules on administrative fines may be applied in such a manner that in 30 m also fine is imposed by competent national courts as a criminal penalty"

Fines On Global Revenue

Up to 2% 10,000,000 EUR Up to 4% 20,000,000 EUR Appropriate Measures Criminal Penalty Denmark

Published from www.vciso.co GDPR Report 2016



http://vciso.co/ gdpr-questionsyou-need-toanswer-within-30-days/

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How does this affect AU businesses

- Some Australian businesses covered by the Australian Privacy Act 1988 (Cth)(the Privacy Act) (known as APP entities), may also need to comply with the GDPR if they offer goods and services in the EU or monitor the behaviour of individuals in the EU.
- Article 30: except for a "an enterprise or an organisation employing fewer than 250 persons"
- Office of the Australian Information Commissioner resource:
 https://oaic.gov.au/resources/engage-with-us/consultations/australian-businesses-and-the-eu-general-data-protection-regulation/consultation-draft-australian-businesses-and-the-eu-general-data-protection-regulation.pdf



Personal Data - Responsibility & Accountability

Data Protection Impact Assessments (DPIA)

"Data protection by design and by default"





"Data protection by design and by default"

Essential elements in EU data protection rules

Keep personal data secure





Data security governance

...mindset that embraces governance and show some formalism in securing their data

Earl Perkins Research VP

Gartner Security & Risk Management Summit, July 2016

http://www.gartner.com/smarterwithgartner/six-trends-in-cybersecurity/

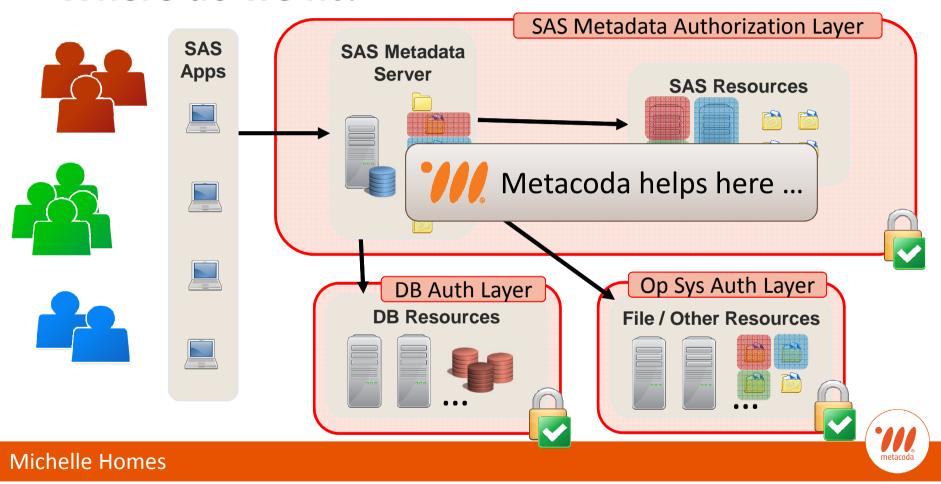


A few questions...

- What is the impact/cost to your organization of someone getting access to data/reports they shouldn't?
- When was your last SAS platform security project?
- When was it last tested? How extensive? How long did it take?
- Have there been any changes since it was last tested?
 - Deliberate, accidental, expected, unexpected?
- How do you know if it's still secure today?



Where do we fit?

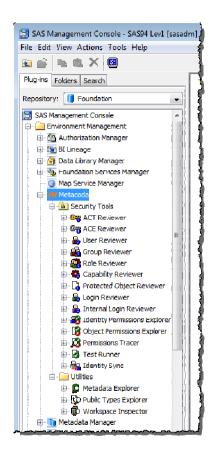


About Metacoda



... since 2007

- Provide add-ons to SAS® Software for enhanced metadata visibility and exploitation
 - Metacoda Identity Sync
 - Metacoda Security Plug-ins
 - Metacoda Testing Framework
 - Metacoda Utility Plug-ins free
 - Custom Tasks (for SAS Enterprise Guide & AMO) free
- Goals:
 - Improve your productivity through enhanced metadata visibility
 - Helping to keep your SAS® platform secure





A few social media quotes....





@metacoda your plug-ins have saved me days not hours with validating metadata for the LBG upgrade. Customer service is also totes amaze



Quentin Baudewijns 1st

Consultant at SAS Belgium & Luxembourg

Loading metadata identities into SAS Metadata from AD using the tool was very easy. It worked like a charm. This is a great tool!



Wouter Germishuys 1st

Analytics Operations Manager at Telstra

I wish all software companies had the customer engagement that Metacoda has. Their tools are excellent and is industrial strength. Keep on building awesome tools and we will buy them:-)



Wouter Germishuys 1st

Analytics Operations Manager at Telstra

The Metacoda set of plugins is worth it's weight in gold if you have SAS deployment. We couldn't have migrated our system without the plugins. Please keep building excellent tools.



Leslie Shroot 1st

Senior Consultant at Servian

Used this with a client yeasterday. All I can say is WOW!



Business Problems We Solve

- Keeping SAS Users & Groups in sync with Active Directory
 - Including large & complex directories ... all without code!
 - Metacoda Identity Sync
- Knowing/documenting your SAS Metadata Security
 - Easily showing an Auditor ...
 - » ... what someone has access to
 - » ... who has access to something
 - Metacoda Security Plug-ins
- Verifying & proving to an Auditor your SAS Metadata Security is still intact and you can quickly detect and act on changes
 - Metacoda Testing Framework



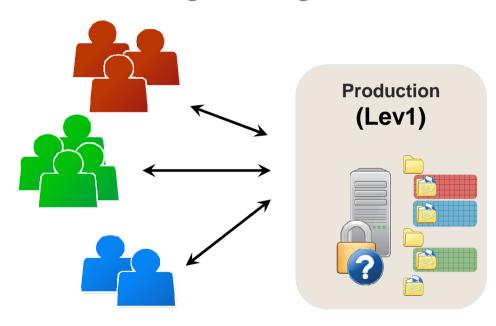
Metacoda Testing Framework

Helping keep a SAS platform secure over time.



Metadata Security Testing: Why?

Over time we get changes from various user roles ...

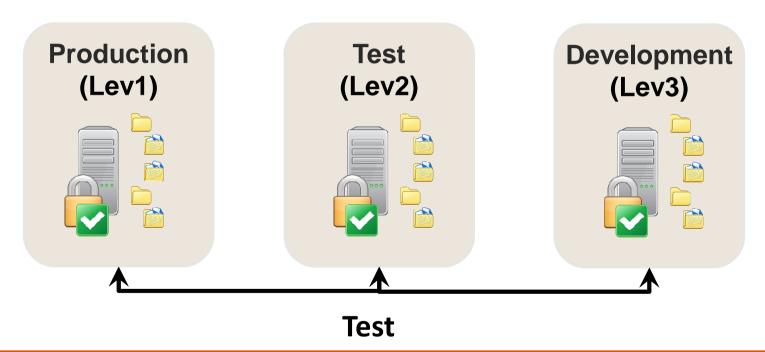


- ... is it still adequately secured?
 - tomorrow?
 - next week?
 - next month?



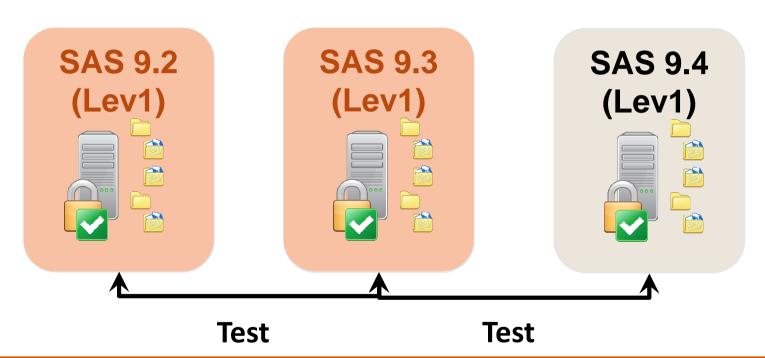
Metadata Security Testing: Why?

Test for consistency across multiple environments ...



Metadata Security Testing: Why?

Test for consistency during SAS version upgrades ...





Problems with Manual Testing

- From our experience:
 - It's almost exclusively an ad-hoc manual process
 - It takes too long, it's inconsistent & it's error-prone
- Consequently it's not done ...
 - with enough coverage & reliability to detect problems
 - with enough frequency to detect them promptly
- So we looked at how we could automate it

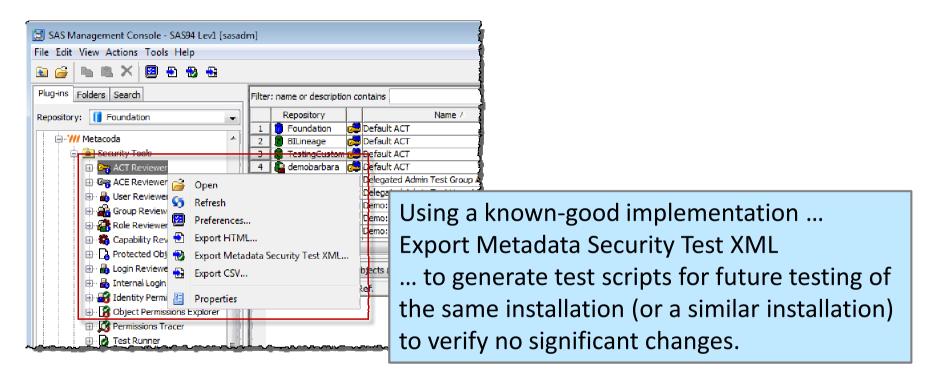


Metadata Security Testing

- An automated SAS metadata security testing framework includes:
 - Ability to export metadata security test specifications, as XML files, from an existing metadata server.
 - Test Runner: a new plug-in used to interactively run metadata security test specifications from XML files.
 - A batch interface for automated scheduled metadata security tests with HTML results and alert emails.

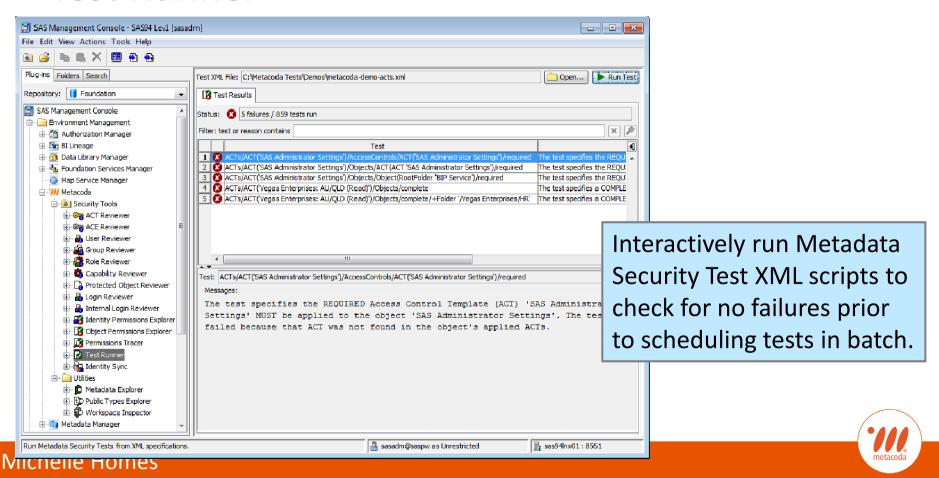


Metadata Security Test XML Export

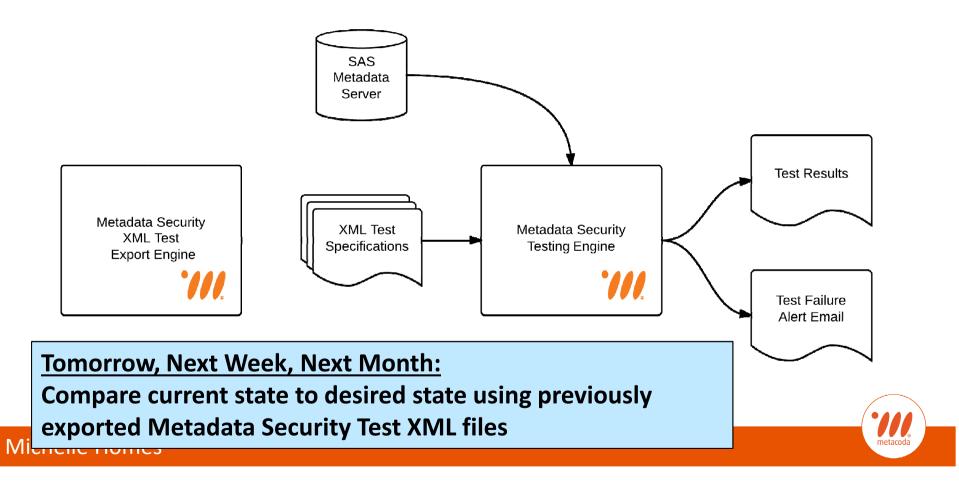




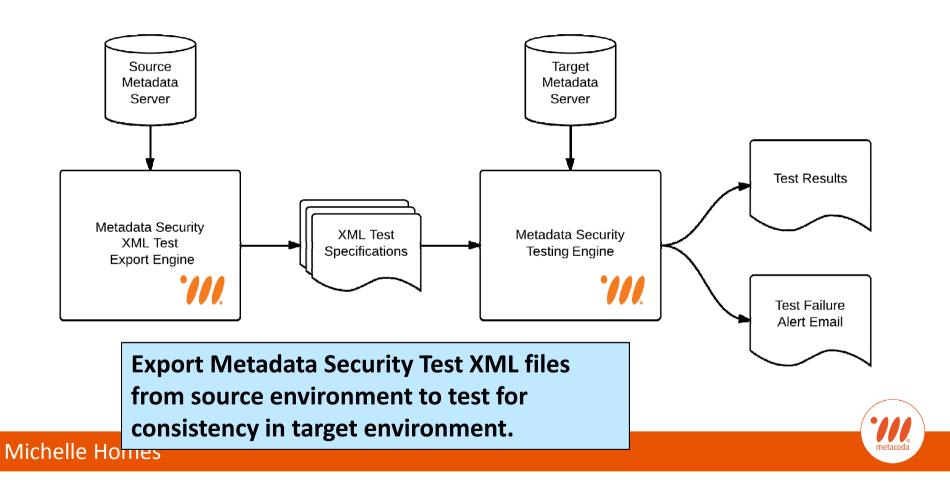
Test Runner



Testing a Single Environment: Test & Repeat



Consistency Testing Different Environments



Testing Best Practices

- U.S. & Danish Models: similar with differences...
- U.S. Model as seen in the Security Admin Guide
 - Combination of ACTs and Explicit Permissions (ACEs) applied to folders
- Danish Model as used by SAS Denmark (and many others)
 - Best Practice Implementation of SAS Metadata Security at Customer Sites in Denmark, Cecily Hoffritz & Johannes Jørgensen, SAS Global Forum 2011 Paper 376-2011 http://support.sas.com/resources/papers/proceedings11/376-2011.pdf
 - ACTs only (no ACES): "Green & Grey is Great!"
 - "6 Golden Rules"



Best Practices: Overview

- Prior knowledge & planning essential
- Apply security for Groups vs Users (use identity hierarchy)
- Apply security to Folders vs Objects (use inheritance paths)
- Prefer ACTs over Explicit Permissions (ACEs)
- Deny permissions only to PUBLIC or SASUSERS
- Org Groups only ever grant access (never deny)
- Automated scheduled testing with Metacoda Security Testing Framework



Posts/Papers about Testing ...

- Blog: Testing Conditional Grants in SAS Visual Analytics http://platformadmin.com/blogs/paul/2015/09/testing-conditional-grants-sas-va/
- Blog: Testing Recommended Practices with SAS Metadata Security http://platformadmin.com/blogs/paul/2015/06/testing-recommended-practices/
- Blog: SAS Metadata Security Testing <u>http://platformadmin.com/blogs/paul/2014/03/sas-metadata-security-testing/</u>
- SAS Global Forum 2014 Paper http://support.sas.com/resources/papers/proceedings14/1761-2014.pdf



Helping to keep your SAS® platform secure

Keep personal data secure

Time to invest in security - warns EC official Paul Nemitz

https://iapp.org/news/a/invest-in-security-to-comply-with-gdpr-warns-ec-official/





Want to learn more - webinars

 6th December - EU Personal Data Protection 2018 - Remain compliant and avoid hefty financial penalties https://attendee.gotowebinar.com/register/5119082425760435



 6th December - Identity Management in SAS 9.4 Metadata Environment

http://www.sas.com/en_us/events/users-groups/16q4/metadata-server-environment.html





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