



Managing Privacy in a Changing Environment.

An Overview of the Compliance issues of Managing Privacy in a Data Rich World

Simon Rogers, Security and Privacy 30/04/14



Background







A Data Centric View of the World – the case for change

[Personal] Data is the currency of the digital narket. Like any currency it has to be stable and rustworthy.

Viviane Reding, Vice-President of the European Commission Responsible for Justice, Fundamental Rights and Citizenship.

Date: 25/01/2012







Data has Real World Value.

- According to the Boston Consulting Group, the digital economy accounts for 8.3% of UK's GDP, a higher share than any other EU country. The Group estimates that the benefits to the average UK consumer from the internet is £2,300 per annum.
- Commission's proposals would cost the UK anywhere between £100 million and £360 million per annum

Figures quoted by the then Lord Mcnally, former Minister of State at the Ministry of Justice, March 2013





External Factors Driving Change

Technology

- Internet of Things
- Big Data (Volume, Velocity, Variety and Veracity)
 - · Data (Personal Data) Rich Society
 - Penetration into society
 - · Volumes of collection
 - Immediacy of processing
 - Data as commodity
 - · Blurring of work and private BYOD







External Factors Driving Change 2

- Globalisation of business and lengthening of Supplier Chain
 - More data flows across borders
 - Lengthened supplier lines means Data Owner (Controller) loses sight of their data
 - 'New' less transparent services, Cloud etc

Access of Data – ethical concerns

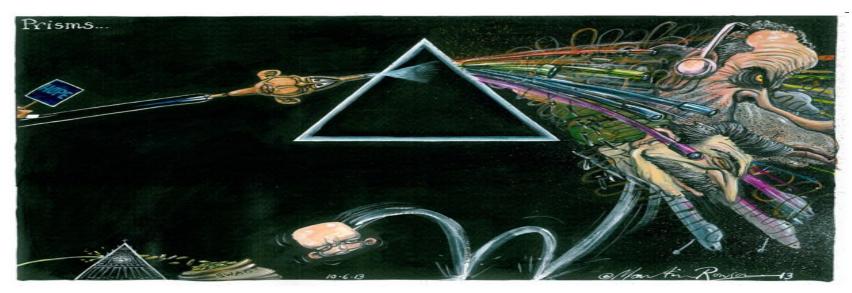
- Recent allegations NSA etc
- Data mining/ profiling etc
- Criminal activity

Privacy has no value to most until it is lost OR you are blamed for causing it to be lost





What Happens When It Goes Wrong



The Guardian 9 June 2013





Both Private and Public Sector

How Target knows when its shoppers are pregnant - and figured out a teen was before her father did...

By Nina Golgowski

UPDATED: 13:19, 18 February 2012







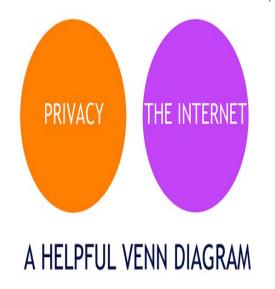
Are we redefining privacy ...

the real debate we should be having ... is about what privacy in a cyber-connected world can realistically mean given the volumes of data we hand over to the private sector in return for our everyday convenience, and the continued need for warranted access for security and law enforcement".

Sir David Omand, former head of GCHQ

 "Google spins an invisible web of our personal data."said Jacob Kohnstamm,

DPA (Dutch Data Protection Authority) chairman in a latement.





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The result of CHANGE and the catalyst for CHANGE

- Compliance Change
 - European Regulation (wide ranging change)
 - Designed to modernise the Directive
 - · Allow freer flow of data
 - · Harmonise processes
 - · Prevent back doors

20 Years is a long time ...

- **Google 1996**
- 9/11 2001
- Facebook 2004
- **iPhone 2008**
- Snowden 2012





Data Privacy Overview – The Current Compliance Picture







The Law We Operate Under ... Key EU Directive etc.

Directive 95/46/EC of the European Parliament and the Council of 24 October 1995

Human Rights Act (article 8)

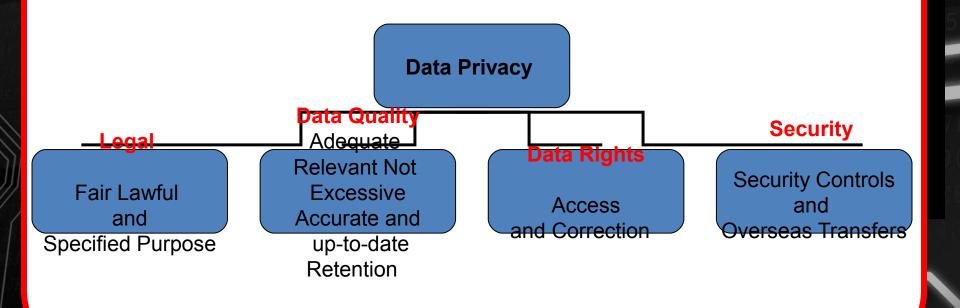
UK Data Protection Act 1998 (Other EEA Countries equivalent)

The Privacy and Electronic Communications Regulations





Fundamentals of Data Privacy



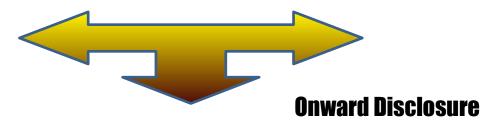




Data Protection Summary

Relates to Personal Data – (throughout its lifecycle)

Collection Destruction



- Provides Minimum Enforceable Standards
- · Consequences of Failure
 - · Fines (£500,000) and Criminal Penalties
 - Damage to Reputation



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Chain of Responsibility and Rights

Affects All data processed in the EEA

 Places Responsibilities regarding the Processing of Personal Data by organisations (Data Controllers) inchair outsourcers (Data Processors)

Gives Rights to living individuals (Data Subjects) regarding the processing of their data.

Authority

Controller

Data Subject

Processor



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Examining the Scope of Change







Europe Recognises the Need for Change

All those active on the <u>European market</u> should be held to essentially the same standards...in order to ensure effective and consistent protection of all European citizens across the EU.

Peter Hustinx
Data Protection Supervisor
21/06/2013

Justice Commissioner Viviane Reding said ..."One continent, one law; that is what I call opening the market,"

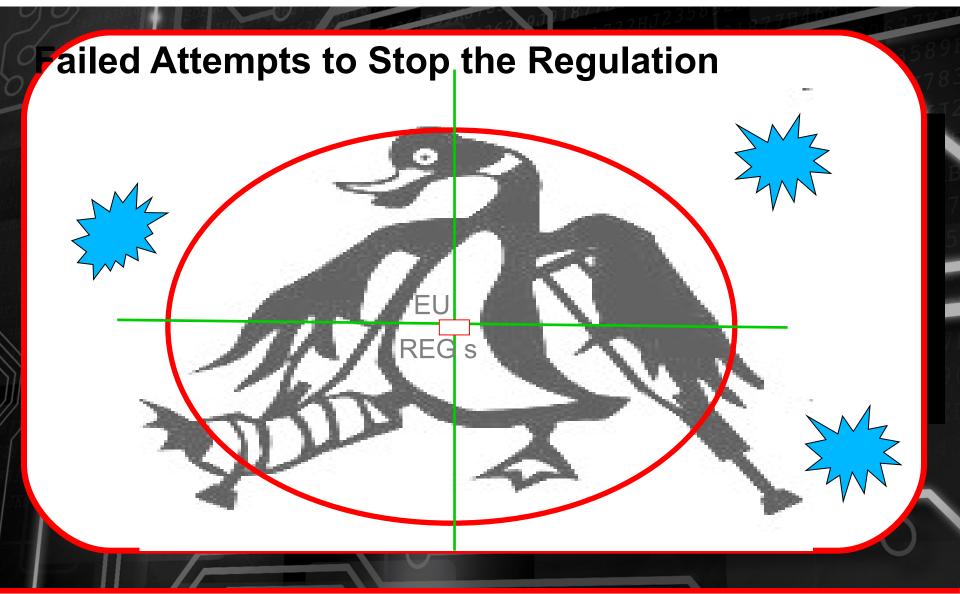


BBC

6 June 2013









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The Legacy - Low Awareness in the UK

Half UK IT decision makers unaware of coming EU data laws, study shows

Computer Weekly Warwick Ashford Thursday 24 April 2014 13:04

Recent research commissioned by Trend Micro Research

850 Candidates

Multiple European Countries

UK did not score as well as others...







Overview

- Move from Directive to Regulation
- Less Wiggle Room and Less Room to Hide
- Document and Demonstrate
- Tighter Control (sanctions)
- Increased Scope
- More Prescriptive
- SME Exemptions

INCREASED CORPORATE ACCOUNTABILITY

GREATER
RESPONSIBILITIES:
RIGHTS





New focus

Privacy by Design and Default

Consent and Legitimate Interests

Transparency – Icons on websites more information to Data Subject

European Data Protection Board

Data minimisation –storage and processing

Lead Authority

Pseudonymisation and Anonymisation

No Charge for Subject Access

Breach reporting

Right to Erasure (AKA Right to be Forgotten)

No registration

Data Portability

Monitoring and Profiling





Greater Scope – Data and Territorial

Not Just an EEA issue

This Regulation applies to the processing of personal data of data subjects in the Union by a controller **or processor** not established in the Union, where the processing activities are related to:

- (a) the offering of goods or services, irrespective of whether a payment of the data subject is required, to such data subjects in the Union; or
- (b) the monitoring of such data subjects.

More Clarity on Data

Identifiers provided by devices, applications or other online tools will be regarded as personal data, unless they do not relate to an identified or identifiable person.





Greater Scope – Data Processor

- Statutory underpinning and requirements to assist the Controller
- Notify the Controller of Breach without undue delay etc...
- May be deemed Controller if a processor processes personal data other than as instructed by the controller or becomes the determining party in relation to the purposes and means of data processing,











Sanctions

Relate to anyone Processor and Controller

Warning only when unintentional and 1st offence

Audits

Increased Fine 100,000,000 (100 Million) euro or 5%

Prevent Processing

Based on:

Intentional or negligent Nature, impact (both financial and non financial) and duration Financial gain from the breach (intended or gained) Previous Breaches and or repetitive breaches Degree of cooperation Degree of action to mitigate damage Technical and organisational measures implemented in line with the Act





Notification

 Data Breach Notification within 72 hours and without undue delay

A personal data breach may, if not addressed in an adequate and timely manner, result in substantial economic loss and social harm, including identity fraud, to the individual concerned – so not minor issues

Can be mitigated by encryption





Embedding Privacy

Privacy by Design – mandated

The principle of data protection by design require data protection to be embedded within the entire life cycle of the technology, from the very early design stage, right through to its ultimate deployment, use and final disposal. This should also include the responsibility for the products and services used by the controller or processor.

Privacy By Default

The principle of data protection by default requires privacy settings on services and products which should by default comply with the general principles of data protection, such as data minimisation and purpose limitation.





Document and Demonstrate

Data Protection Risk Analysis yearly

5000 data subjects during any consecutive 12-month period;

processing of special categories of personal data, location data or data on children or employees in large scale filing systems;

profiling on which measures are based that produce legal effects processing of personal data for the provision of health care

automated monitoring of publicly accessible areas on a large scale





Document and Demonstrate

Impact Assessment

a systematic description of the envisaged processing and purpose

an assessment of the necessity and proportionality in relation to the purposes;

an assessment of the risks to the rights and freedoms of data subjects

a description of the measures envisaged to address the risks and minimise the volume of personal data which is processed,

a list of safeguards, security measures and mechanisms to ensure the protection of data

an explanation of data protection by design and default practices

compliance Review every two years





Role of the Data Protection Officer

- Removes some of the requirements to contact the Supervisory Authority
- Mandatory when
 - the processing is carried out by a public authority or body; or
 - the processing is carried out by a legal person and relates to more than 5000 data subjects in any consecutive 12-month period or
 - monitoring of data subjects special categories of data pursuant to Article 9(1), location data or data on children or employees and in large scale filing systems.





Role of the Data Protection Officer

- Can be shared
- · Fixed term 4 years or 2 if external.
- · Independent role
- Must be skilled and qualified
- Must be free to act
- Oversees much of the compliance activities and is responsible for raising awareness etc





Certification

EU Privacy Seals

- Involve audit and external validation by an accredited company that your processing is compliant
- · Can provide some protection in the case of a breach





Where are we going and how do we get there?







The Challenge **Draft Regulations** Implement a Compliant Business **Amendments** Manage Business Change Understand the Impacts Regulations Validate Existing Practides confirmed Understand the Issue Transitional Phase **Unit**ue Challenge Legislation in force (nearly 20 years since last change)



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Be Realistic

Get a balanced and proportionate view of the change – there is a lot of hysteria out there (disclosing not using BCC and Dawn Raids by ICO).

Don't ignore it and hope for the best as change to the proposal is increasingly unlikely

Make sure the people at the top know – they never like surprises

- Corporate briefings
- Explain the impacts
- Build the issue into the business and horizon scan (NHS)
- IBM can support and help in managing these messages

Be honest about where you are as a business.

- Much of the Regulations are about a mature approach to Data Privacy can you deliver that
- IBM provides a wide range of assurance services that can help in this area
- Don't confuse issues 27001 certification is not the same thing



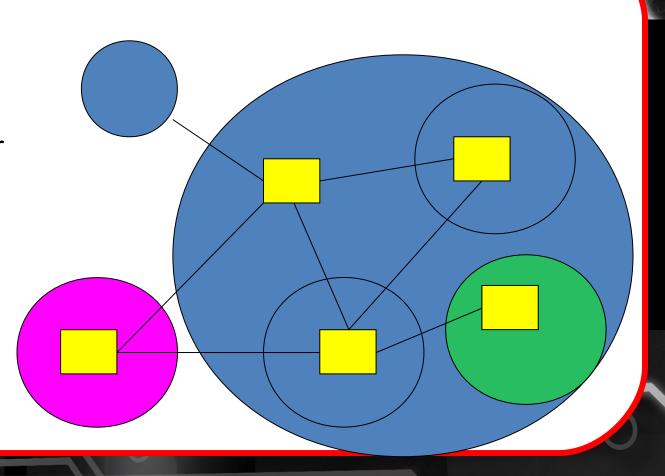


Get a Data Centric View of the Business

If you don't know what Data you have or where it goes you can never comply (or work effectively as a business)

IBM can assist in the mapping of data and its classification

Using skilled resource tools such as StoredIQ







Baseline Now – its going to get more stringent

Understand where you are, where you need to get to, how to get there and what skills, tools and services you need to achieve that.

IBM utilises a Maturity Model that underpins its Assessments and Privacy Improvement Model

This is based on the concepts of Adequacy and Compliance and provides a *real* and *granular* picture of where the business is in respect of governance of the relevant issues and how to improve.

PRIVACY MATURITY MODEL

5. Optimised

1. Initial



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This is a Business Issue

This has strong IT elements but this is a business issue. Remember reengineering a business process (in 2 years) is as painful as reengineering an IT system (maybe more painful !!!).

Don't try and do it all yourself – it is a business issue that needs specialist support across a number of different areas.

Get the right (appropriate) tools to assist with Privacy issues- strong Identity and Access Management tools and processes and Data oss Prevention Technology

Security and Privacy Governance







Core objectives of a data governance program:

- Establish guidelines and processes for information security decision-making
- Ensure Assets are valued and protected appropriately
- Minimise the risk of negative outcomes for the business from security and privacy threats
- Protect data and comply with regulatory requirements





Why You Need To Act

The Legislation will be ratified in the near future

But

In a world where the environment has changed so much shouldn't we be looking to mature our management of data anyway ...







IBM Data Privacy Offerings Summary

Data Protection Resource (including Global Privacy and Data Protection Officers)

Training and Awareness Services and Board Briefings

Data Privacy Assurance Check and Full Compliance Review

Data Privacy Improvement Planning

Data Mapping

Privacy Impact Assessments

Privacy by Design Assistance and Tool Sets

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Any Questions





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