

Privacy and Security: *same beast?*

Warm Welcome!

**Data Privacy Day
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same beast?

If it's not, why not?

privacy and security

If it's the same 'thing', how so?

We can talk about systems
and their security
but it doesn't make sense to
talk about systems and their
privacy

Setting the Scene

So what is Privacy?

Same beast?

Data Privacy Laws

Privacy vs Security

Individual vs Collective

Same beast? Rights

What draws me to my research

Concept of Privacy

Territorial privacy by protecting the close physical area surrounding a person

Privacy of the person by protecting a person against undue interference

Informational privacy by controlling whether and how personal data can be gathered, stored, processed or selectively disseminated.

same beast?

privacy and security

Security is a process

Privacy is associated with people

Security ~ know what to address with what means

Privacy ~ no agreed-upon methodology that supports the systematic engineering of privacy into system

same beast?

privacy and security

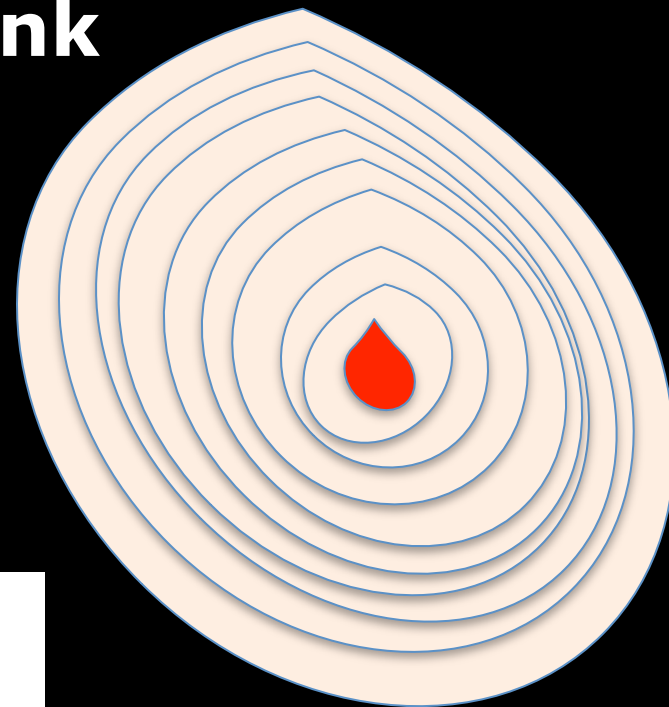
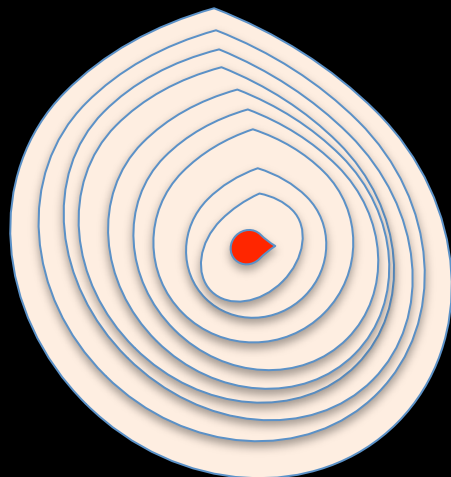
Conceptually and methodologically privacy is often associated with security

**In terms of data privacy protection, security is seen as a way to protect or safeguard privacy
Confidentiality ~ personal data**

Privacy ~ surveillance

Privacy can mean different things at different times to a single person

Security is a chain; it's only as secure as the weakest link



The weakest link is people

EU Data Privacy Laws

Directive 95/46/EC of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (DP Directive)

Complex interplay of entities

Control of personal data

Directive 2002/58/EC the processing of personal data and the protection of privacy in the electronic communications (e-privacy Directive)

Privacy of the individuals

GDPR

Any companies **processing** personal data

The number of **data subjects** involved in the processing activities

Controllers (not in the EU) processing activities, including monitoring **aimed** at offering goods and services to EU citizens

GDPR

Definition

Consent

Breach notification

Fines

Controller, Processor and Producer

Principles and Concepts

Demonstrate compliance

The Devil is in the Details...

Privacy vs Security

Privacy is a complex issue : different users ; different expectations

Security : focus on obscurity tools

Data Privacy compliance :

privacy preserving and transparency tools ; access/portability, rectification and erasure

Individual vs Collective

Privacy is often viewed as an individual right that must be sacrificed in order to attain other socially desirable, but competing goals.

zero-sum approach

Privacy refers to an individual's ability to exercise personal control over the collection, use and disclosure of one's recorded information

Positive sum approach

same beast?

privacy and security

Anonymity

Pseudonymity

Unlinkability

Unobservability

Confidentiality

Integrity

Authenticity

**Availability of personal
data are ensured**

***When security is
compromised is privacy
violated?***

Anonymity – the state of being not identifiable within a set of subjects

Pseudonymity – being pseudonymous is the state of using a pseudonym as ID

Unlinkability of two or more items of interests (subjects, message etc) means that within the system from the attacker's perspective, these items are no more and no less related after his observation than they are related concerning his a priori knowledge

Unobservability – the state of items of interest being indistinguishable from any items of interest (of the same type) at all

pseudonym

(2a) 'pseudonym' means a unique identifier which is specific to one given context and which does not permit the direct identification of a natural person, but allows the singling out of a data subject;

Rights

Right to access/portability

Right to rectification

Right to erasure and to be forgotten

privacy and security

Right to object

How to comply or/and put these into practice?

Rights

Any measures for erasure of published personal data shall respect the right to freedom of expression, ...

Article 17 – paragraph 2 a (new)

Rights

privacy and security

Not absolute Rights
Right to Freedom of
Expression
Transparency &
accountability

Individual's right to privacy

VS

State's right to know

Individual's right to know

too!

Reconciling the Rights

Can we do it?

Do we want to do it?

We must do it !

What is our stake?

Positive sum (win-win)?

Control over security and/or privacy?

Privacy controls impact business goals

Who decides to ensure positive sum?

Individual vs Organisation

As individuals, we employ privacy in the sense of revealing or withholding information about ourselves, in establishing and defining our relationships with others

Bonner, B. (2012)

The Problem of the 'Problem' of Privacy

Data and Privacy

Data Breach

**Messy Confluence of
Technology and Law**

Cyber Security

Cyber Events

In cyberspace, is it realistic or meaningful to talk about data and information assurance?

What needs to happen to assure that data loss and/or data breach will not cripple businesses operating in supply chains?

Data Breach

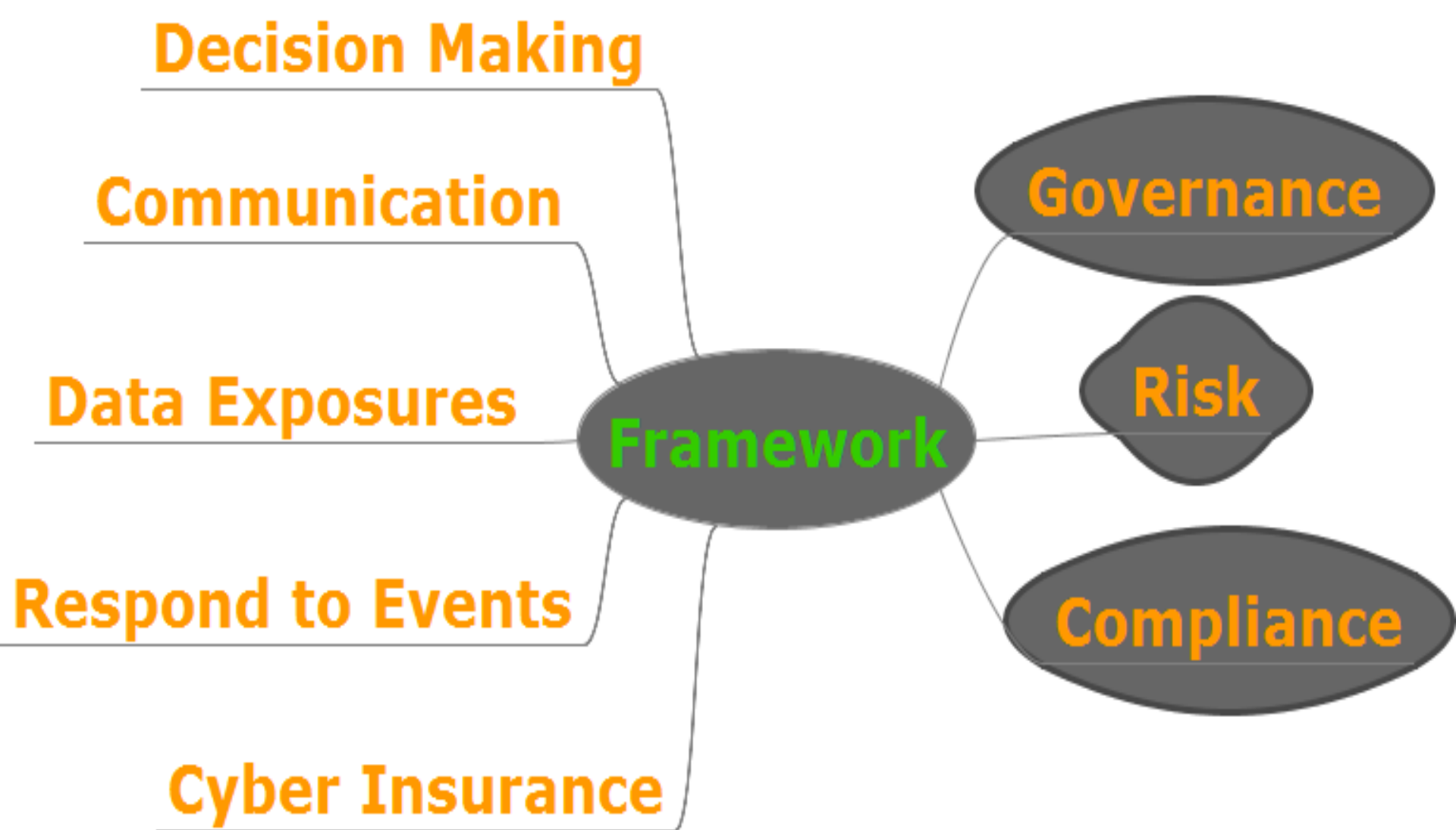
(9) 'personal data breach' means the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, personal data transmitted, stored

Art 4

Processing

Producers, data controllers and data processors shall take technical and operational measures to ensure such compliance in the design, set-up, and operation of automatic data processing or filing systems

Article 5 1a (98)



How do organisations address cyber risks in their digital supply chains?

Thank You

Cher Devey

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Any errors/omissions are mine alone

Any questions/answers raised will be noted without storage and disclosure of your identity

**Your privacy is respected and
I trust others will do too**

**Thank You
Cher**