



EUROPEAN DATA PROTECTION SUPERVISOR

ePrivacy review: Security, Confidentiality, Privacy by Design

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The EDPS

**The European Data
Protection Supervisor:**
an independent institution
responsible for ensuring
the protection of personal
data by the EU institutions
and bodies



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Outline

1. Security
2. Confidentiality
3. Privacy by Design



Information Security

Objectives:

- **Confidentiality**
- **Integrity**
- **Availability**



Information Security

Risk management process:

- Identify assets
- Define security objectives
- Threats and vulnerabilities
- Assess risks
- Choose measures
- Implement
- Iterate



Confidentiality

- European Convention of Human Rights,
Article 8

“Private ... life ... and correspondence”

- Charter of Fundamental Rights of the
European Union,

Article 7:

“Private ... life and ... of communications”



Confidentiality

What?

- Content of communications
- Metadata

When?

- In transit
- At rest, integrity of the device



Privacy by Design

GDPR Article 23

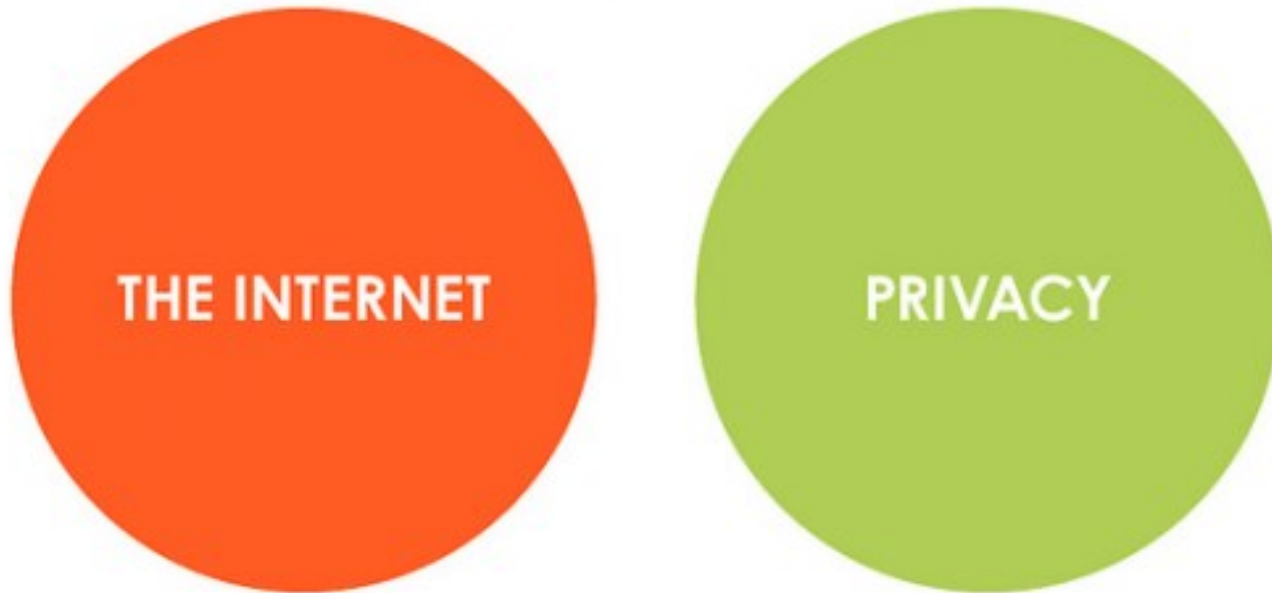
- Data Protection by Design
- Data Protection by Default

When?

- In transit
- At rest, integrity of the device



Challenges to Privacy



A HELPFUL VENN DIAGRAM



Internet Privacy Engineering Network

Privacy and security must become design goals for IoT (and other) devices at all levels:

- Protocols
- Operating systems
- HW
- User interfaces
- Applications



In real-life development, existing building blocks are used and reused as they are available, often designed without privacy in mind. Developers do not have time and resources to re-develop existing tools, and poor privacy propagates into new applications.



Thank you!

For more information

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