Security and Privacy

Components that should be assessed:

- **Secure booting** (cryptographically generated signatures).
- **Access control** (minimal access required to perform a function).
- **Device Authentication** (device should authenticate itself prior to receiving data).
- **Fire walling and IPS** (what's going to control traffic that is destined to terminate at the device).
- **Updates and patches** (software updates and security patches to still have the possibility of security failure).

05.06.40

Threats

- **Security and Privacy**
  *Hackers and (even) Terrorists.
  - objects become active participants
  - objects with control

- **Control** by Giants
  *Multinational firms

Confidence in and acceptance of IoT will depend on the protection it provides to people's privacy.

"Privacy is dead - get over it" Steven Rambam

Information Technology

Agenda

- Intro to IoT
- Definition
- Next cycle
- How to make something IoT
- Benefits
- Threats
- Companies already in IoT
- Dashboard and KPI's
- Final thoughts

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Living in a smart world

How does an object becomes part of IoT?

Thecasesolutions.com

Dashboard

Benefits
Thecasesolutions.com
$1.9 trillion in the year 2020

- Connect even more with things
- Preventive, condition-based maintenance.
- Cost decline in sensor and storing data processing.
- Operate machines more efficiently.
- Play with things in a new level.

Thecasesolutions.com

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Recorded Future: Analyzing Internet Ideas About What Comes Next

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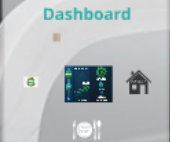
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Definition

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ERICSSON

Internet of Things WORLD
June 17th - 18th 2014
Palo Alto, Silicon Valley, USA

CISCO

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THE NEXT CYCLE

FOURTH INDUSTRIAL REVOLUTION
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Technology Cycles Have Tended to Last Ten Years

Mainframe Computing 1960s	*Mini* Computing 1970s	*Personal* Computing 1980s	*Desktop Internet* Computing 1990s	*Mobile Internet* Computing 2000s	*Wearable / Everywhere* Computing 2014+

Others?

KPCB

Image Source: Computersciencelab.com, Wikipedia, IBM, Apple, Google, NTT docomo, Google, Jawbone, Pebble.

FOURTH INDUSTRIAL REVOLUTION

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1 — Steam engine
2 — Mass production
3 — Internet technology
4 — Internet of Things

Benefits

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Internet of things

Vehicle,asset,person & pet monitoring & controlling

Agriculture automation

Energy consumption

Security & surveillance

Building managment

Embedded Mobile

Everyday things get connected — for smarter tomorrow

M2M & wireless sensor network

Everyday things

Smart homes & cities

Telemedicine & helthcare

- Cost decline in sensor and storing data processing.
- Operate machines more efficiently.
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