

New applications for telecom
development

Internet of Things and C&I



Vladimir Daigele
BDT/IEE/TND



Internet of Things


Definition

The Internet of Things (IoT) has been defined in Recommendation ITU-T Y.2060 (06/2012) as a global infrastructure for the information society, enabling advanced services by interconnecting (physical and virtual) things based on existing and evolving interoperable information and communication technologies.

IoT
Environment

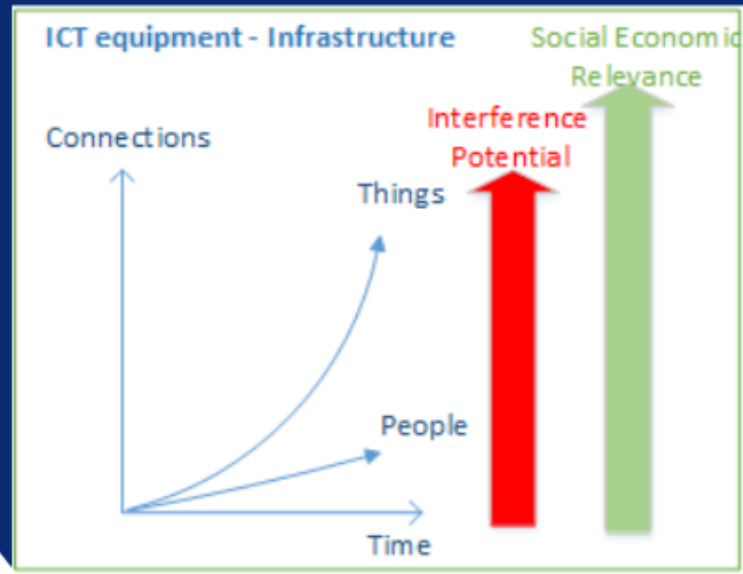
Impacts to
the
established
order

Developing
countries
needs

 Conformance and Interoperability of ICT environment = IoT readiness



Impacts to the established order



Developing countries needs

(identified by ITU-D Q4/2)

- Quality
- Safety
- Interoperability
- Spectrum Environment free of interference
- National Rules
- Sustainability
- Reliability
- Resilience
- Affordability (e.g. economy of scale)

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Relevance of ICT Products in daily life

Are ICT devices (e.g. smartphones) already essential goods?



Essential goods

ICT products in the digital era

Essencial goods

A Definition:

A physical item required by a consumer in order to sustain health or life.

Some essential good types that are produced by business operators include food, water, gasoline and heating fuel, as well as residential building materials that can be used to construct homes for shelter

ICT products in the digital era



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Conformance and Interoperability



What is
Conformity
and
Interoperabili...

Combat
counterfeit of
ICT products

What is Conformity and Interoperability (C&I) and why is relevant for the digital economy?

- C&I aims to connect and protect ICT networks and users
- C&I enhances testing competency and skills
- C&I increases trust

WTDC17

Ecosystem



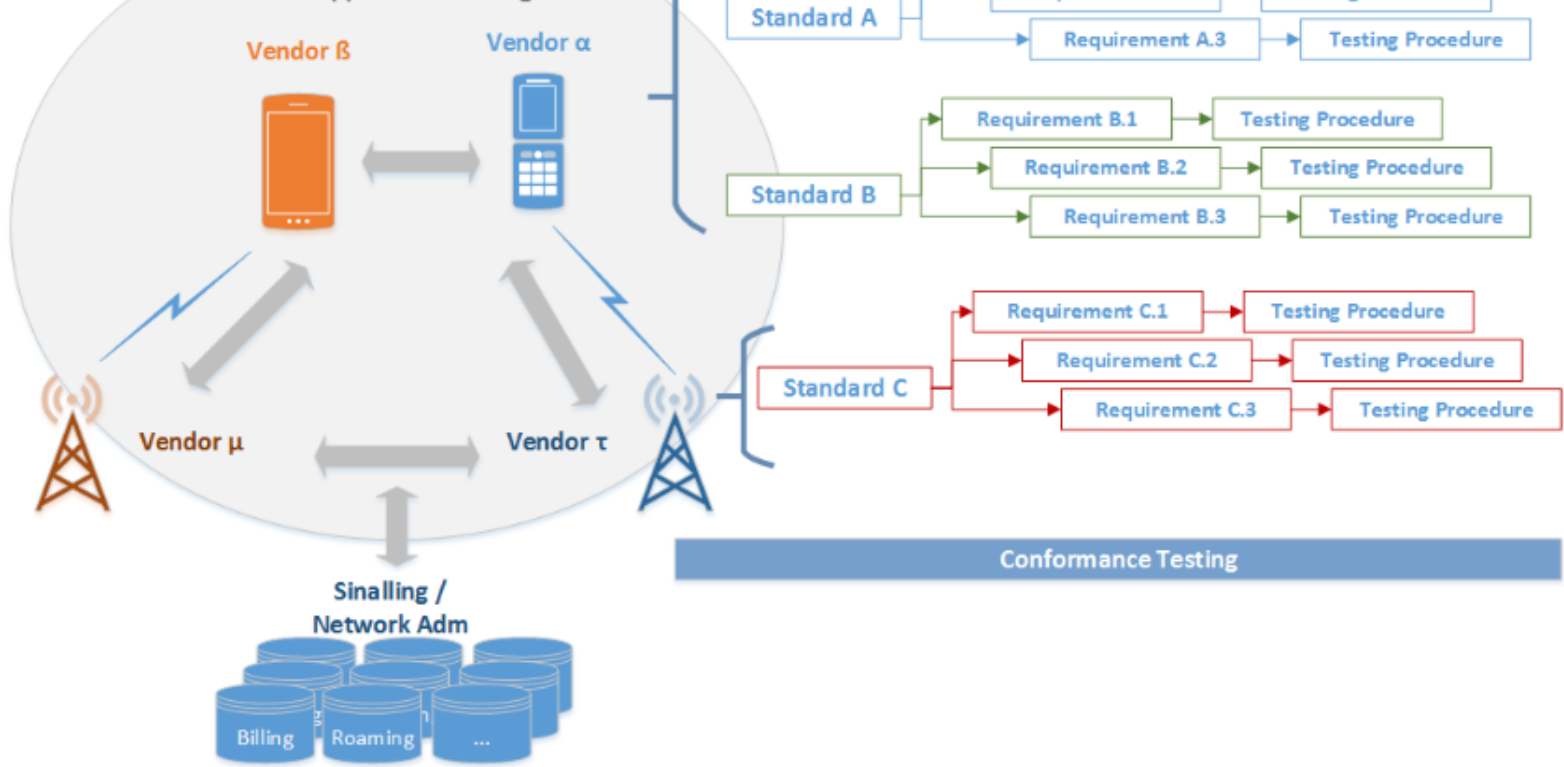
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The widespread conformance and interoperability of telecommunication/ICT equipment and systems through the implementation of relevant programmes, policies and decisions can increase market opportunities, competitiveness and reliability as well as encouraging global integration and trade;

Interoperability

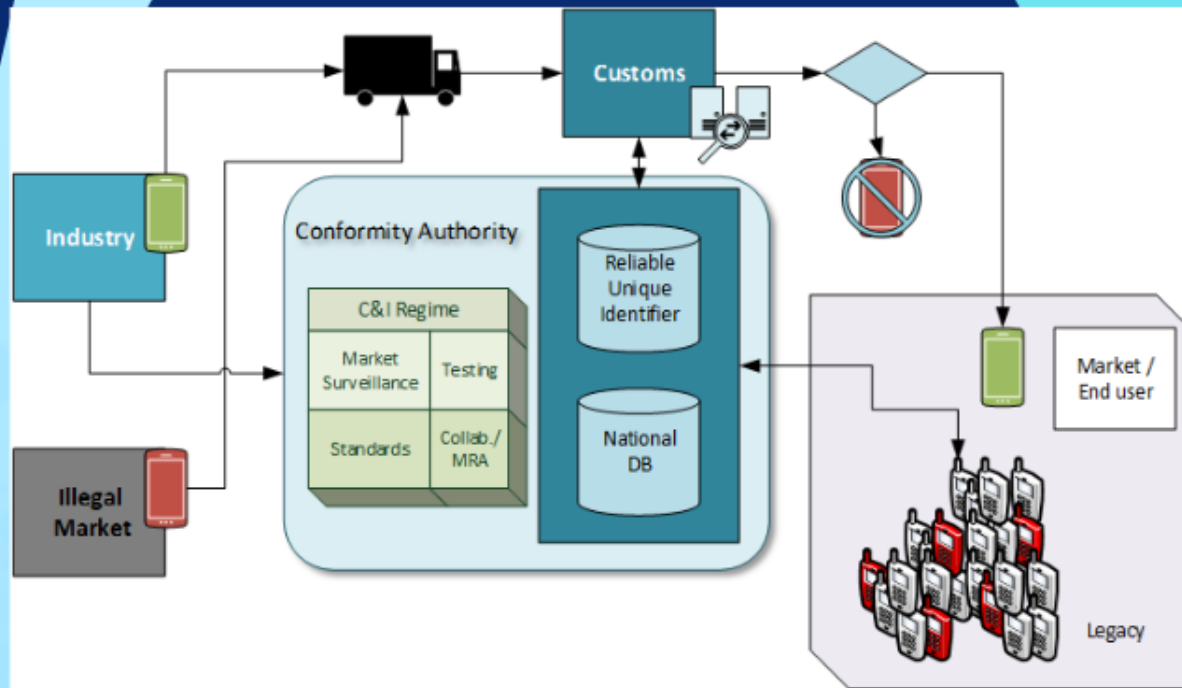
The ability of products and services from different supplier to work together



Conformity Assessment

Demonstration that specified requirements relating to a product, process or system are fulfilled

Combat counterfeit of ICT products



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Strategy

IoT readiness

Standards

Innovative approaches

Increase of the level of
conformance

ITU



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Connect and
Protect Users and
Networks

C&I
wheel

Future
Work



Future Work



Within ITU:

C&I Programme

Study Group 2 Q4/2 will investigate the impact of IoT to C&I

https://itu.int/go/CI_Development

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