

Standardization of the application of cybersecurity standards

Panel 1: Cybersecurity Act: value of standardisation for the new framework

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Cybersecurity Standardization and the Cybersecurity Act: Where are we today?

Brussels, 2019-01-21



CYBERSECURITY

- → Cyber threat is a worldwide phenomenon
- → Cybersecurity requires a worldwide approach

SMART GRID

TRANSPORT **SYSTEMS**



OIL

CLOUD COMPUTING

DATA THEFT

RAIL

ELECTRICITY

INTERNET OF THINGS



IEC

International Electrotechnical Commission



Standards Development (SD)

- → International Standards
- → Since 1906
 - → 80% of CENELEC standards are adopted from IEC standards

Conformity Assessment (CA)

- → Global CA Systems
- → Since 1974
 - → Cybersecurity certification services since 2017 (to IEC 62443 series)

Consistent Assessment of the application of standards

In the real world standards are not perfect

→ Consensus based → sometimes needs *interpretation*Eg: Assessment relies on "professional judgement"

In the real world there are

- Competent CABs → too strong
- Competent CABs → too weak
- Competent CABs → correct
- Incompetent CABs
- Eraudulent CABs

ACCREDITATION

VARIATION

Doubt in CA results
Lack of trust
Duplication of assessments
Added costs
Trade barriers

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ACCREDITATION

IEC CA System
common interpretation
common rules
common methodologies
peer assessment

→ Consistent comparable CA results, worldwide

World's Best Practice

→ attested by United Nations



Highest cost-benefit cybersecurity



Optimization formula

Highest cost-benefit cybersecurity

- requirements based on international standards
 - + competent CABs (accreditation)
 - + consistent & comparableCA results worldwide(IEC CA Systems)





Thank you

http://www.iec.ch

http://www.iec.ch/cybersecurity/

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