

Vienna Cyber Security Week 2018 Protecting Critical Energy Infrastructure



Cyber Security Standards for Critical Energy Infrastructures

Session 2, February/2/2018

Wilhelm Wimmreuter InCharge Systems, Inc. February 2018





Cyber Security Standards in Critical Energy Infrastructure

Overcome the Race between different Standards

Can standards bodies overcome the different goals of centralised-legacy and distributed-network standards?

Standard Organizations on the Move:

State Regulators: FERC, FTC, ...deregulated marketsStandard Bodies: ITU, IETF, ...adopted regulation & new technology.Industry Forums: ATIS, ...try to fill the missing link(s)

David Isenberg's **"The Rise of the Stupid Network"** 1997, is reality and must be considered by all business operations using the Cyber-Space.



Challenges

- Transition from Human-Control through Closed-Central-Control towards Open-Distributed-Network-Control and Operation
- From Trust-by-Wire to Trust-by-Authentication
- Standards, Policy, Production and Operations have different goals and likely stick to their legacy practises

Opportunities

- Overcome the difference between centralised, closed and distributed open network standards
- Network-independent authentication migrates life-timeresponsibility and cost to the principal - user/employee
- Increase Security by simplifying policies and operations e.g.: Re-use secure credentials of principals PKI tokens



Stakeholders their Interactions / Influences for the Transition of Standards

State Regulators

- Federal Energy Regulatory Commissions, Government, etc.
- They Deregulated but execution & policies are still on the move.

