



What is the Trust Required in New Smart Grid Uses and Applications?

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The Environment

- Safety and reliability are job one for utilities
- Coexistence of legacy and contemporary technologies is a given
- While delivering electricity is the purpose, the functions and performance are often controlled by software applications and systems
- Increased variable energy resources that are also enabling generation at the load end of the grid
- EVs are impacting the historical usage models
- Smart meters and increased data will lead to greater consumer demand for access and control

Some Implications

- Trust is needed throughout all layers from hardware through applications - trusted applications aren't sufficient
 - Legacy systems may not have capability of supported strong trust mechanisms
- Applications typically run by well-trained professionals in the electric power industry will ultimately move to service providers, to cloud infrastructures, and ultimately even to end consumers.
- Increased distribution and decentralization of applications and systems

My Short List

- Strong identity (and identity management) for all devices, processes, and users; and strong AAA
- Functionality even in degraded environments
- Confidentiality and privacy
- Build for the future – greater distribution and decentralization
- Easy-to-use user interfaces
- Open standards-based



Thank you.