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Session : SMART METERING PART B – DISCOMs, AMISPs, OEMs and SIs

Considerations in Large Scale AMI System

Presented By

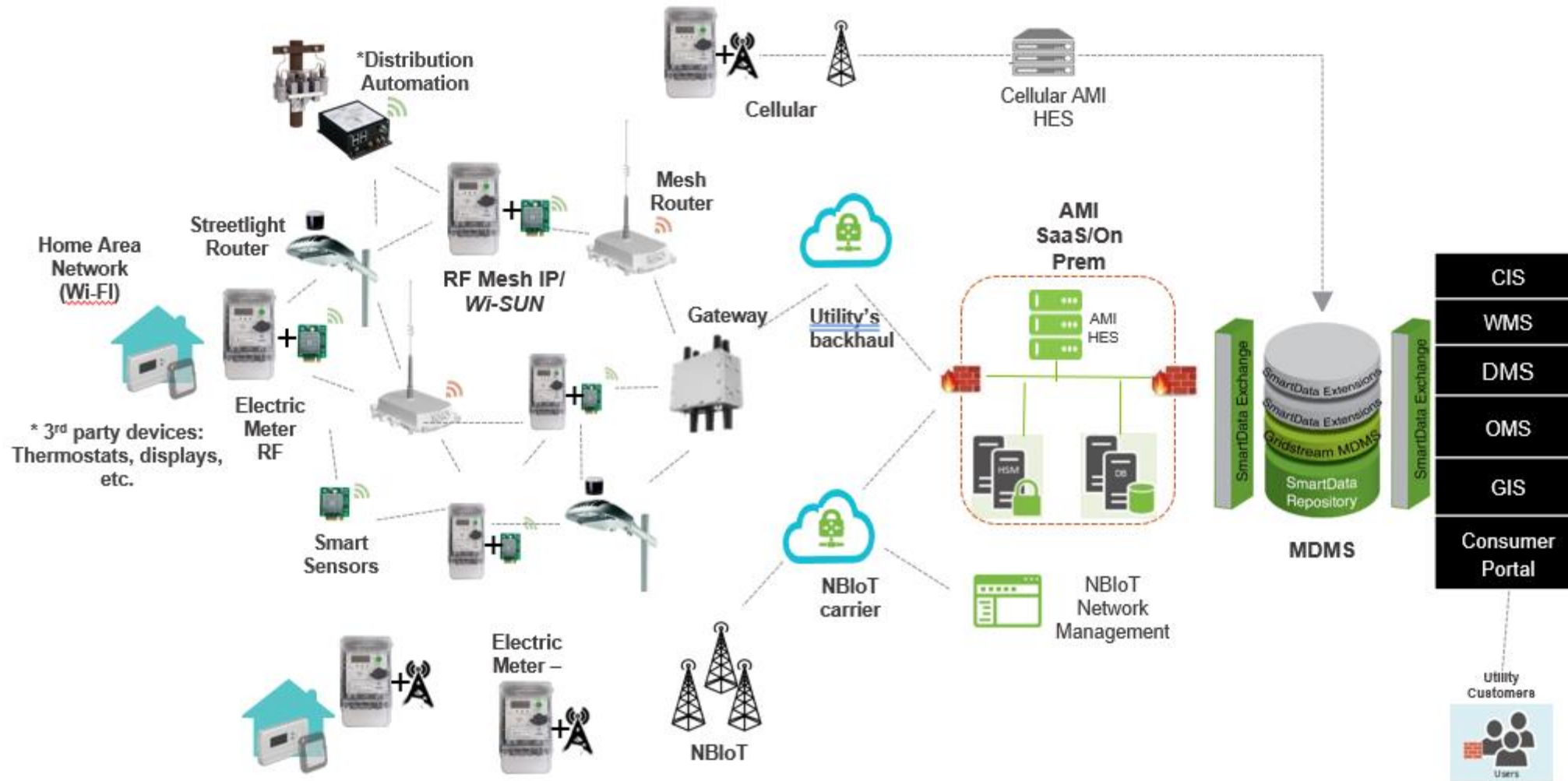
Ganesh Kashyap, CEO, Landis+Gyr India Ltd.

The Backdrop: AMI Systems are complex



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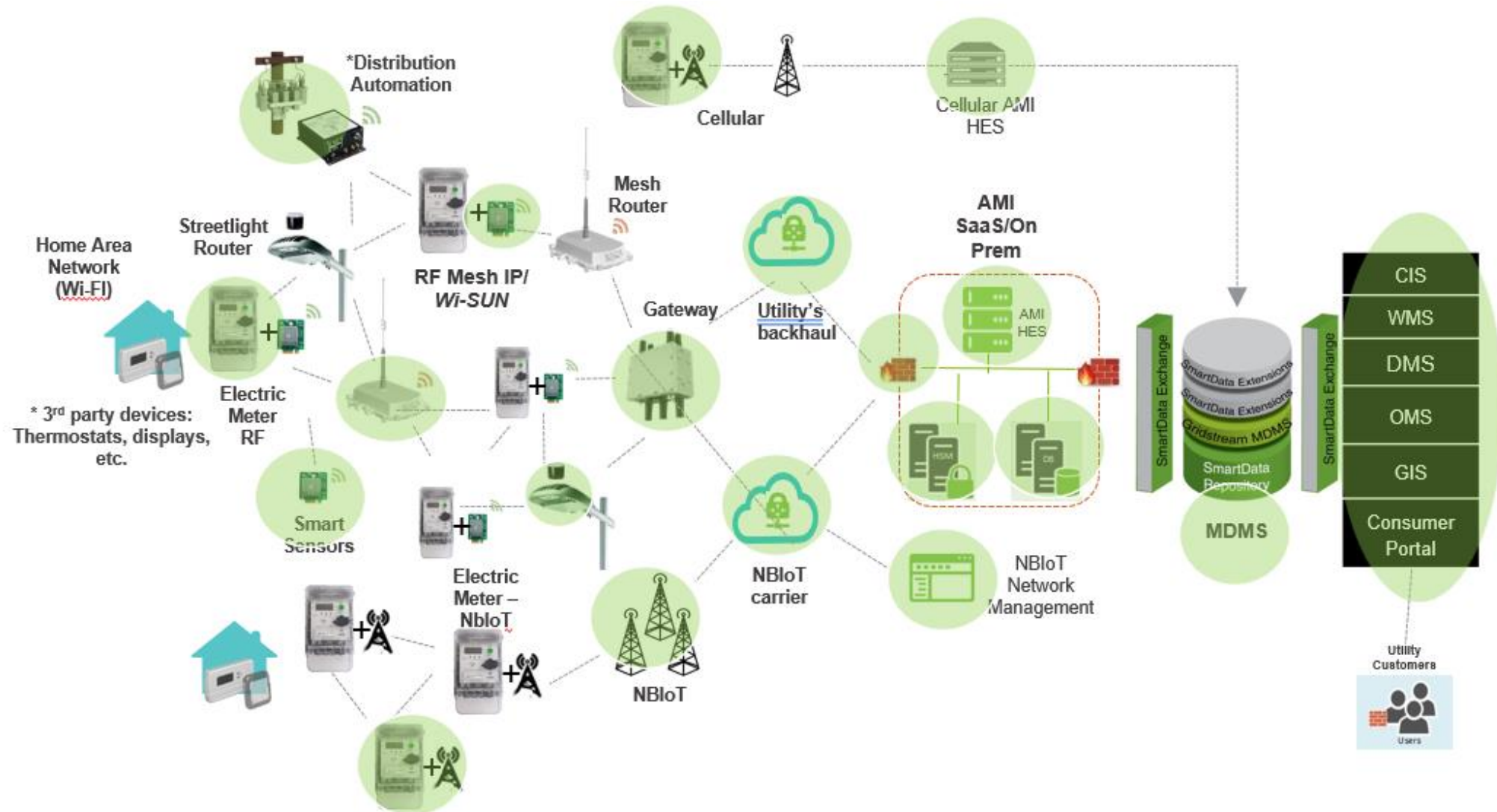
Ideal Architecture for large-scale AMI Requires Systems Thinking vs Individual parts

Ultra Large-Scale System of Systems



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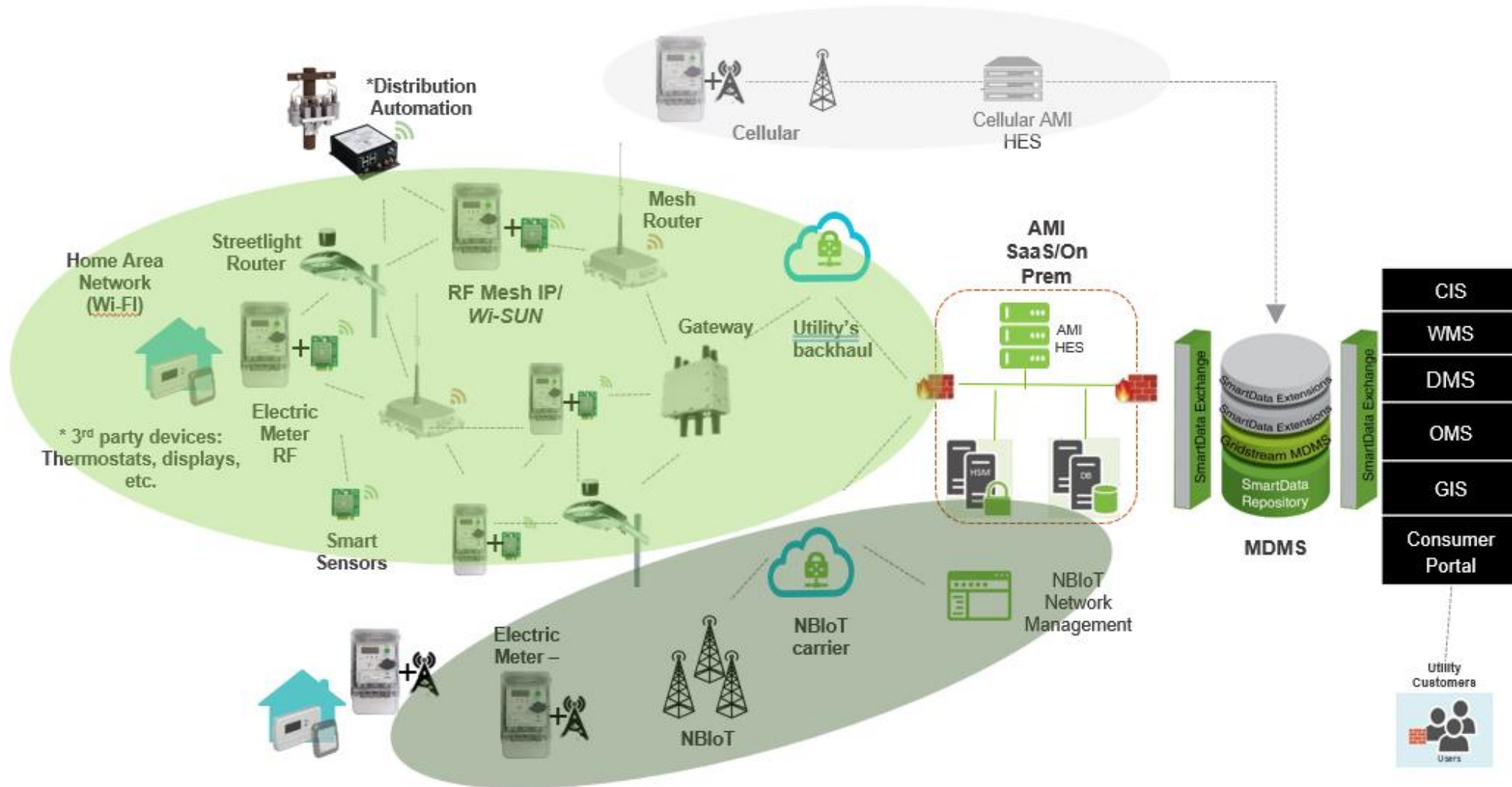
System Design recommended for Distributed Intelligence, critical step towards Grid Modernisation

One or more Communication Technologies



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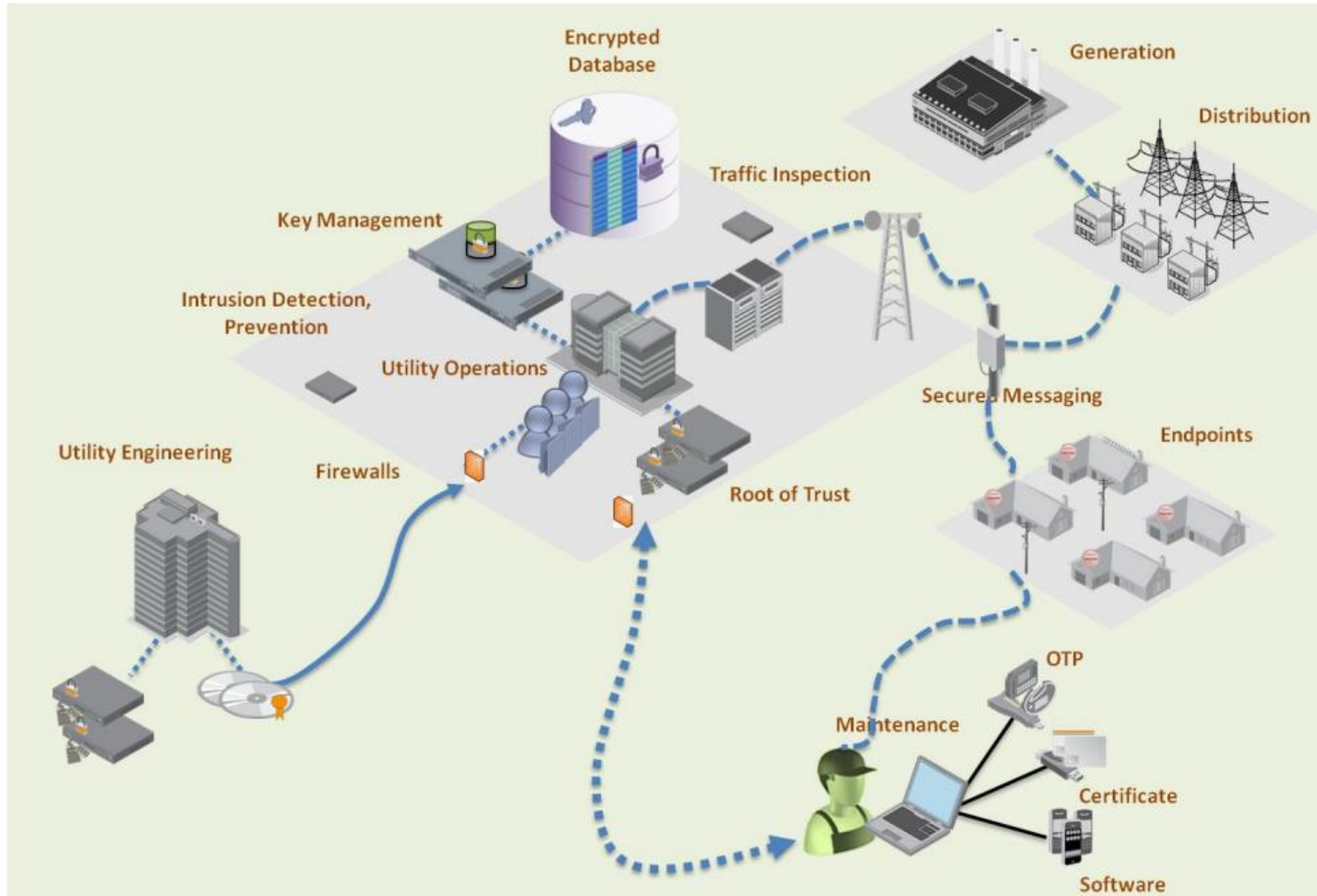
Holistic Design is recommended when deploying Multiple Communications technology

Consider for Multi-Layer Security



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Key Considerations:

- Built-in data protection at scale
- Tools and technology to efficiently govern data
- Industry standards compliance
- Trust through transparency

Provision for End to End Standards based security at all levels is critical for a secure system



Building the World's Largest IoT Network

Landis+Gyr Solutions

- Multi-modal metering communication network to enable swapping of RF mesh, PLC and cellular communications
- HES AMI system and MDMS platform scalable for 30M+ endpoints and multiple in-premise devices, including thermostats and appliances

Benefits

- One communication network using the same 802.15.4g mesh and G3 PLC technologies for the FAN and HEMS ecosystem
- IPv6 technologies for a “future proof solution”
- Highest standards-based security norms

Proven Security Solution

- Largest utility IoT network with over 30M+ devices deployed using the Landis+Gyr security solution
- Demonstrates flawless scalability
- Solution has been 100% effective in protecting from breaches since the deployment began
- Includes DLMS security

KEY TAKEAWAYS / RECOMMENDATIONS



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- Systems Thinking vs Individual parts
- Design effectively to harnessing the benefits of distributed Intelligence
- Plan holistically for Multiple communications technologies
- Provision for End to End Standards based multi layer security at all levels

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THANK YOU

For discussions/suggestions/queries email: isuw@isuw.in

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Links/References (If any)