

Utilities Innovation

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Verizon

Power Grid Modernization

Early 2000s to 2015

Advanced Metering Wave

- ✓ “Utility of the Future” / “Smart Grid” Visioning
- ✓ One way digital to two-way – AMI
- ✓ Pilots – both sides of the meter to prove out “extrinsic” value in smart grid business case – HEM, DG, DR

Today

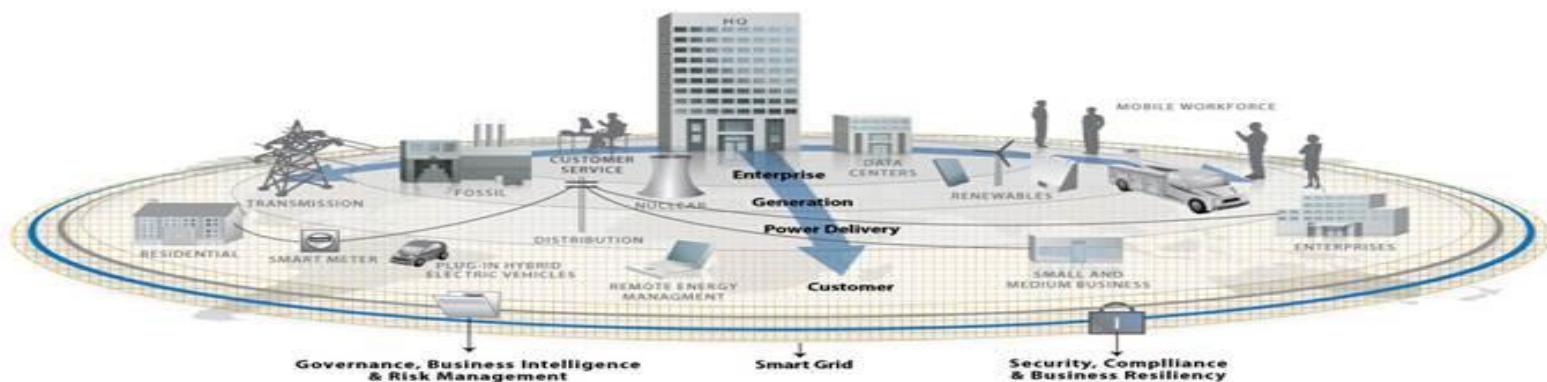
Beyond the Meter / Network Optimization

- ✓ Substation Automation
- ✓ Distribution Automation
- ✓ Intelligent Electric Device (IED) Harmonization
- ✓ Network Migration / Integration
- ✓ Data Management

2015 +

Network & Data Optimization

- ✓ Edge of Network Optimization
- ✓ Data Analytics
- ✓ Customer engagement
- ✓ New business models
- ✓ Industry Convergence – EV, Security, Entertainment,



Leadership In Innovation

LTE Network



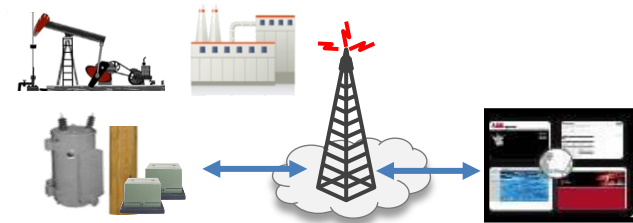
LTE Rural America



Open Development



M2M Management Center



Network + Device + Applications = Differentiated Services

Private Network Security

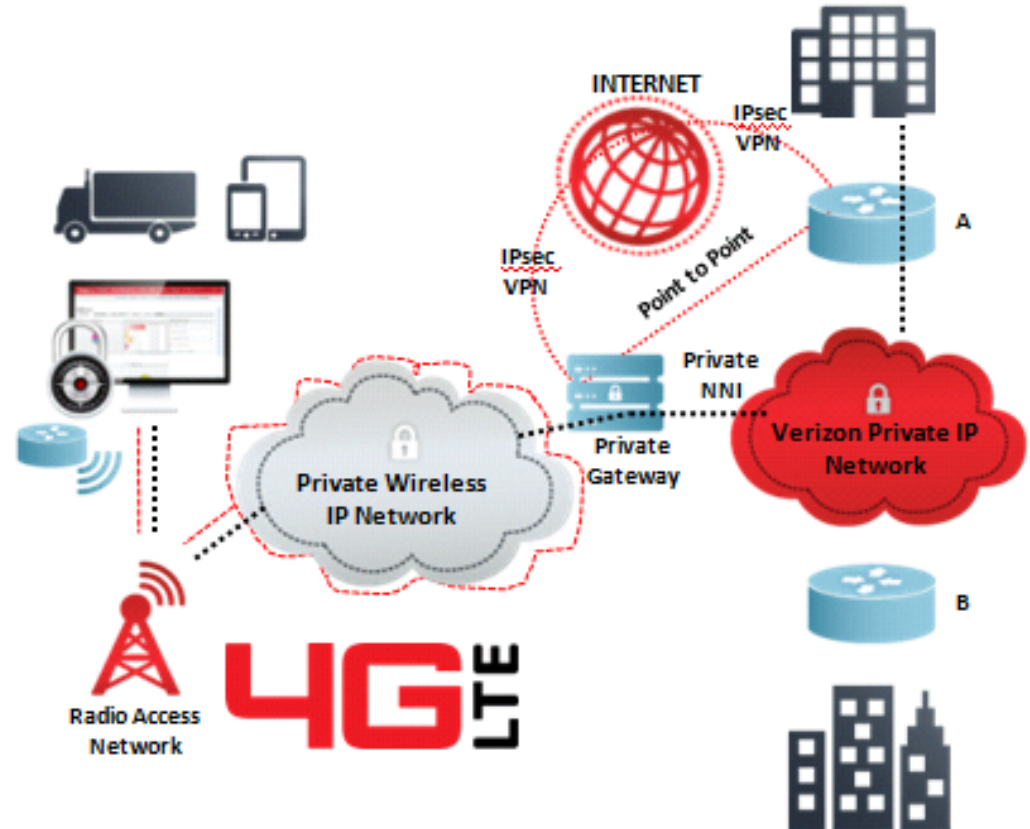
Use Case Characteristics

- Business resources on-the-go
- Wireless endpoints in WAN topologies
- Rapid deployment



Features

- Secure, mobile data connectivity
- Public and private enterprise IP addressing
- Dynamic Mobile Network Routing (DMNR)
- Customer-hosted authentication



Network Convergence

