



The Challenges of Establishing A Common AMS View In Texas

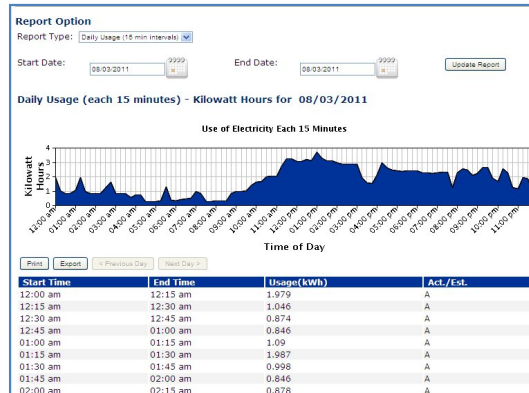
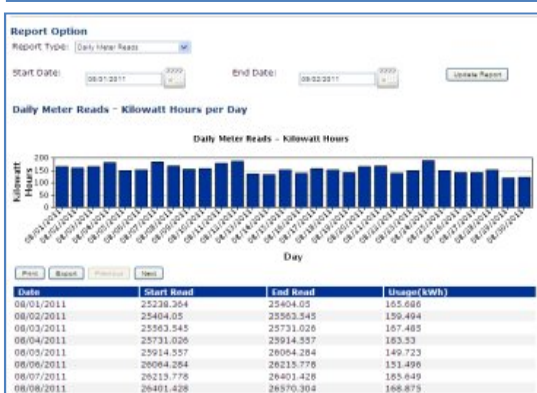
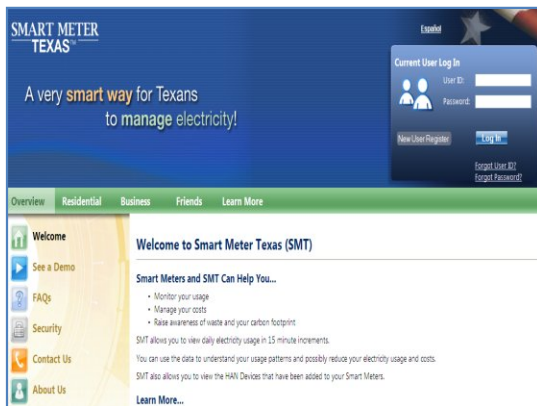
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Customer Enablement – Smart Meter Texas portal (2010)



- Common View – Four Utilities ~ 7.2 M Meters
 - ✓ Understand & manage energy usage
 - ✓ Provision HAN devices
 - ✓ HAN Services (Messaging, Pricing, Control)
 - ✓ Energy Data export functionality for additional analytics
 - ✓ Rep-of-Record Programs
 - ✓ Third-Party Programs



www.smartmetertexas.com



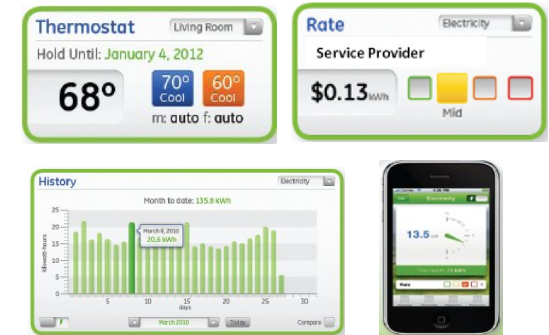
Rep-of-Record (ROR)

- Bill Analysis
- Summary e-mail
- Mobile applications

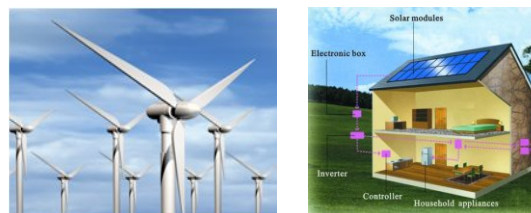
Third-Party (Retail Electric Provider, Others)

- Bill and Consumption Analysis
- Home Energy Management Solutions
- Vehicles & Appliances
- Distributed Generation

Home Energy Management Solutions



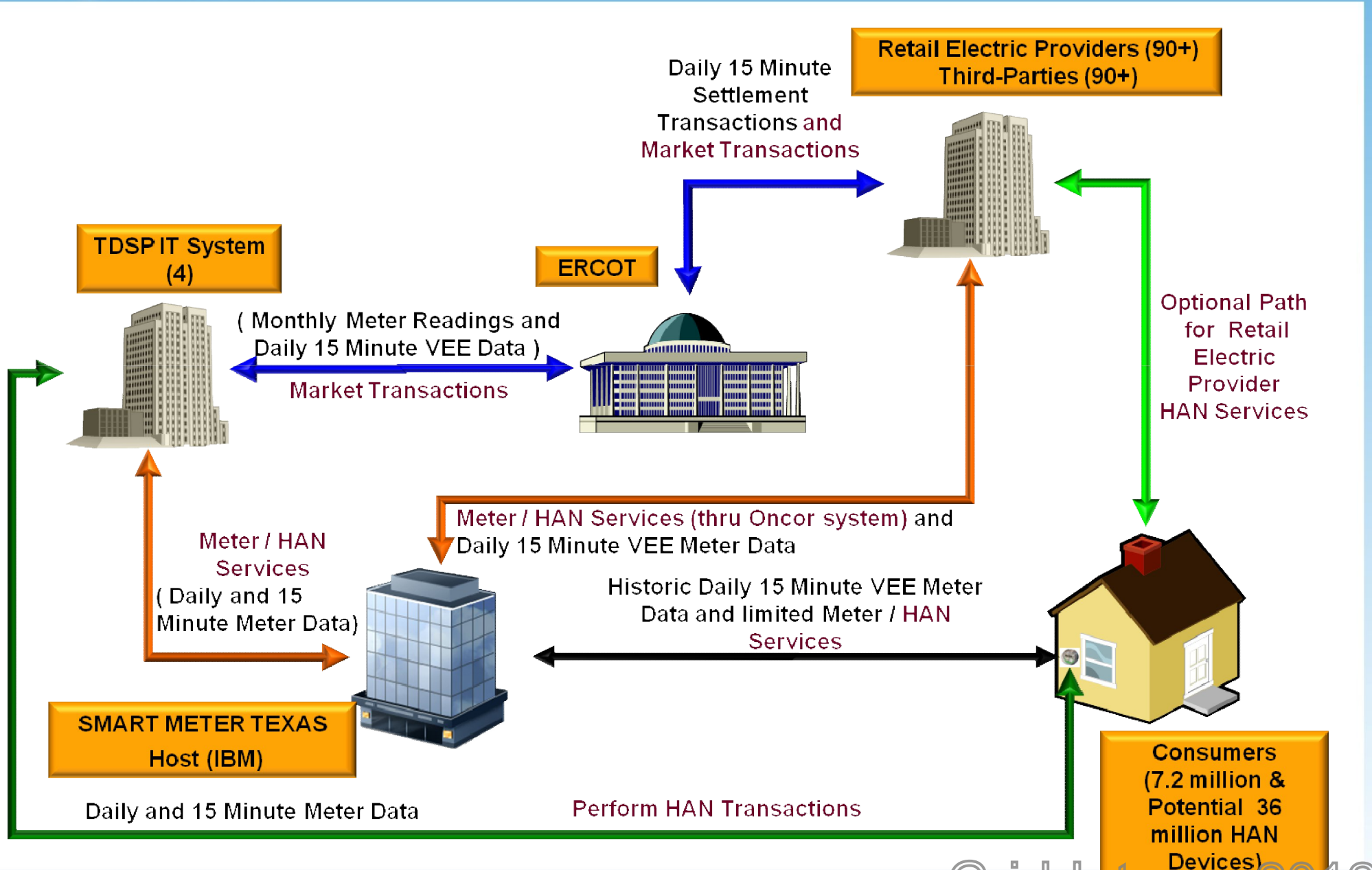
Distributed Generation



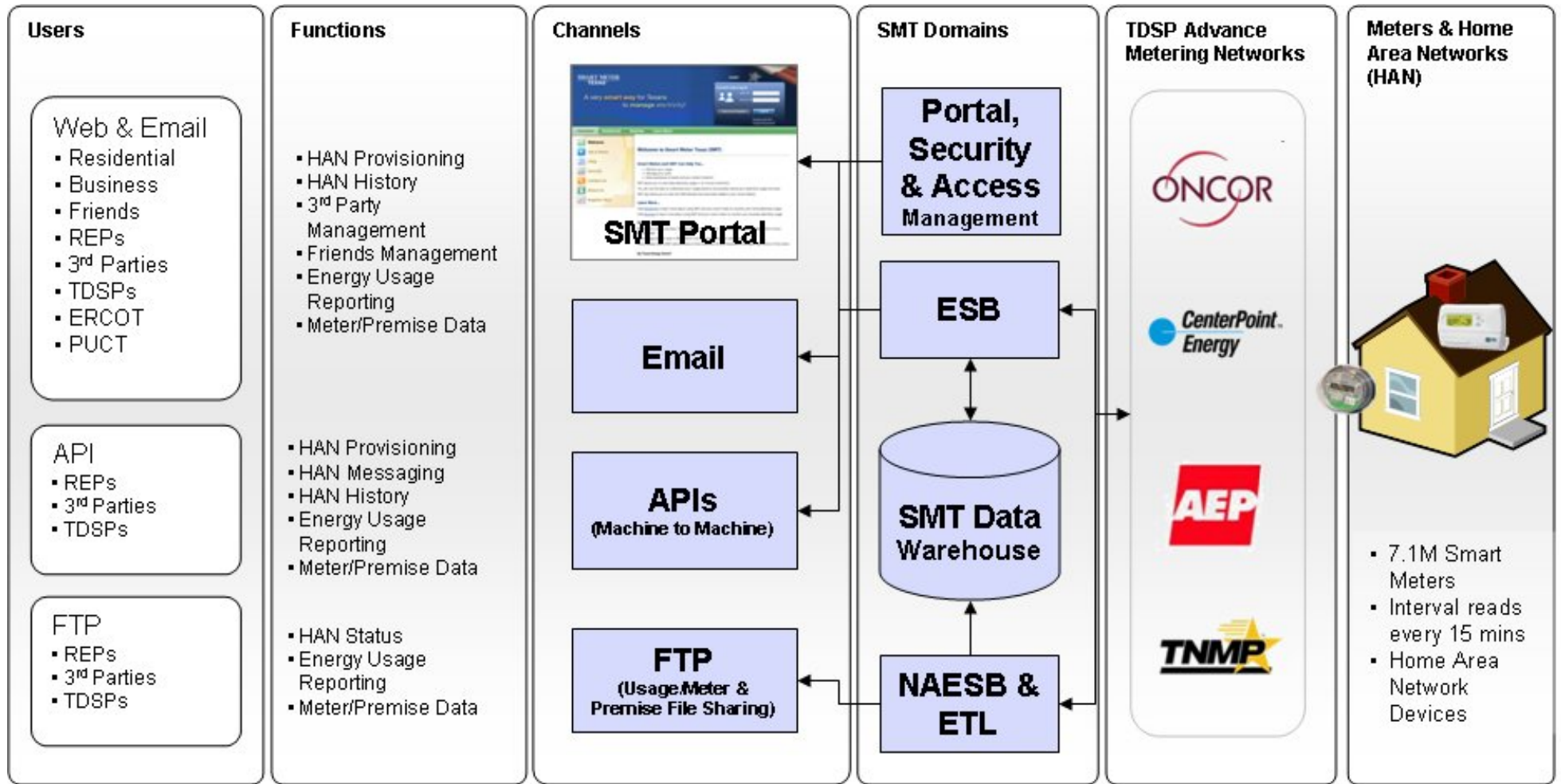
Vehicles & Appliances



The Texas AMS Landscape



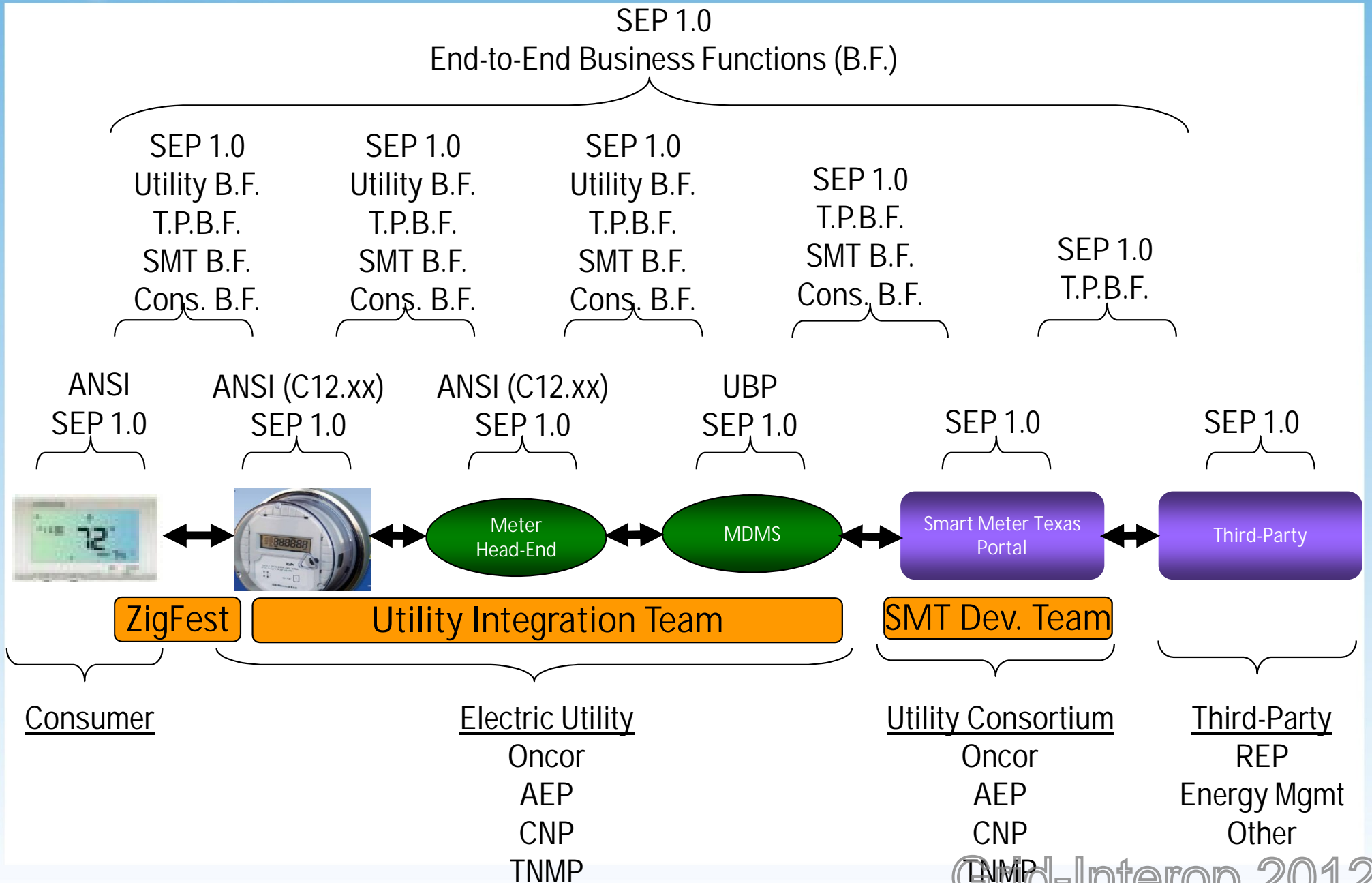
Smart Meter Texas Portal – Overview (Approx. 170 Functional Requirements)



GBS Design & Development inception: April 2009
 GBS AMS Production Support inception: Nov 2009
 GTS Hosting inception: Aug 2009

Usage Data
 •15 Min Interval
 •Daily Meter Reads
 •Monthly Billed Usage

Texas AMS Environment – HAN Integration Testing



Challenges / Lessons Learned

- Understanding evolving Industry Standards and associated gaps
- Understanding Regulatory requirements and associated gaps
- Understanding new Customer programs
- Understanding new Vendor programs / products
- Managing Change
- Identifying skills for higher order functions
- Identifying a common set of requirements for all parties
- Collaboration
- Establishing a common implementation philosophy
- Using a common set of standards based on different technologies
- Establishing a baseline platform capable of expansion
- Lack of conformance product / end-to-end testing programs