

Smart Meter Texas



SMART METER — TEXAS —

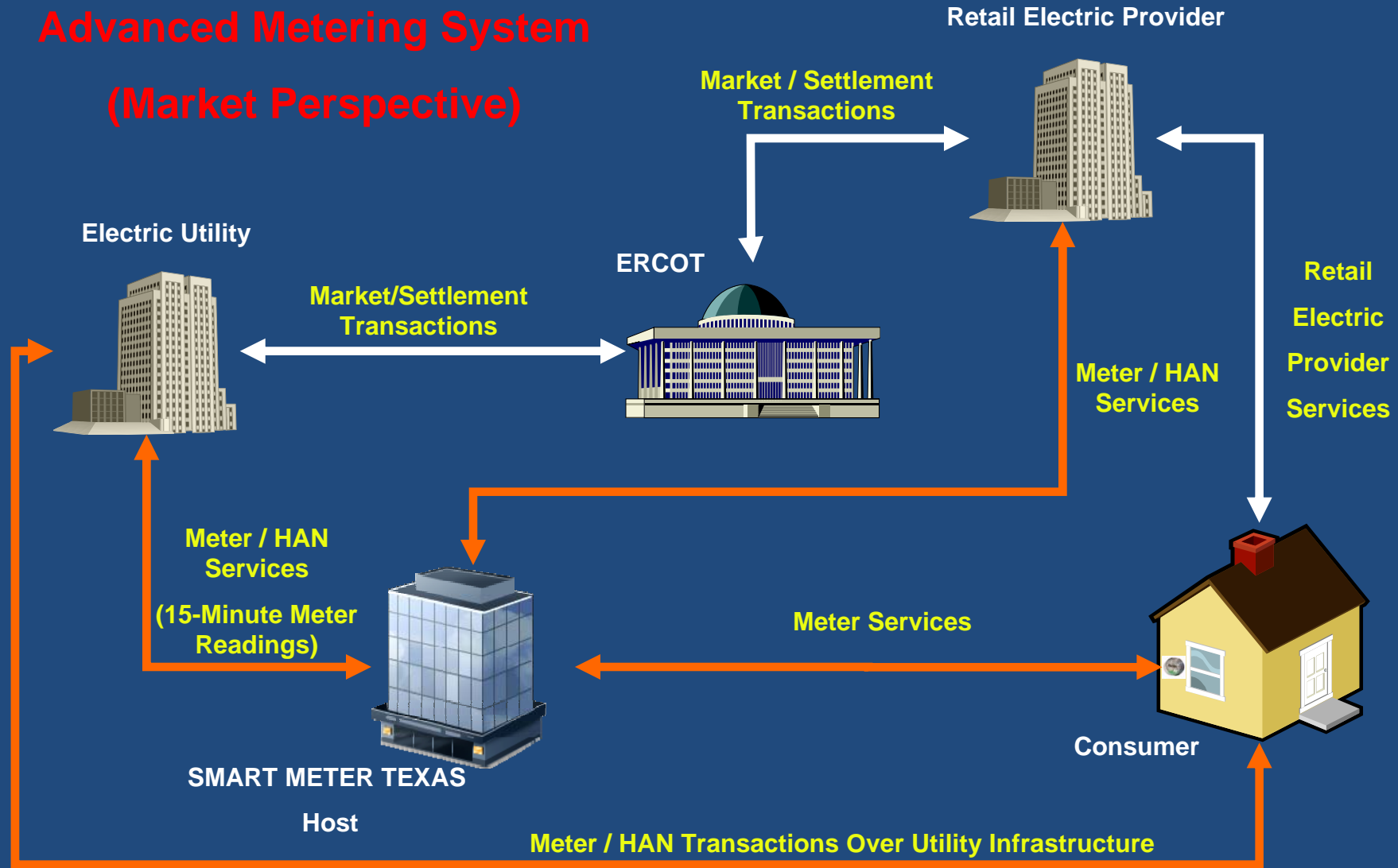
AEP REP Relations Workshop

December 10, 2009

Overview of the Smart Meter Texas (SMT) Solution



Advanced Metering System (Market Perspective)



Overview of the Smart Meter Texas (SMT) Solution



Texas Smart Metering - Welcome - Microsoft Internet Explorer

Address: C:\job -- Current Projects\Texas AMS\Prototype TCWP Demo 13 July 2009\index.html

SMART METER TEXAS

Español

A very **smart way** for Texans to **manage electricity!**

Current User Log In
User ID:
Password:
[New User Register](#) [Log In](#)
[Forgot User ID?](#)
[Forgot Password?](#)

Home Residential Business **3rd Party** REPs TDSPs **Regulators** Learn More

Welcome to Texas Smart Metering UI Prototype Demonstration

This is a **prototype** of the Texas Smart Metering user experience.

It **simulates a user's interaction and system behavior for two scenarios!**

You can...

- Select buttons and links on scenario paths
- Enter data on forms
- Get a feel for how the system will behave

Let's try the scenarios for a

- [Residential User](#)
- and then a [REP Admin](#)

Done, but with errors on page. My Computer

Future Release

Overview of the Smart Meter Texas (SMT) Solution



Overview of the Smart Meter Texas (SMT) Solution



Meter Interval Usage

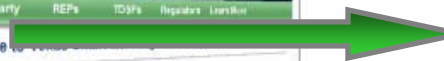
HAN Messages

Meter Attributes

Premise

REP of Record

Smart Meters



Demand Response

Settlement

Pricing

Text Messaging

Usage Display

Overview of the Smart Meter Texas (SMT) Solution



Texas Smart Metering - Usage Reports - Microsoft Internet Explorer

Address: rpe TCWP UX Demo with HAN 18 Nov 2009\meters\report_daily_usage_15min.html

File Edit View Favorites Tools Help

SMART METER TEXAS Welcome, lam A. User
[Log Out](#)
[Español](#)

Home My Account Usage Notices Help

My Smart Meter
 Authorized Accounts

My Smart Meter - Usage Reports

Description: Home
 Address: 123 Main St.
 Apt. 7
 Dallas, TX 75201

ESI ID: 04443684724670782
 Meter Number: 550940404581

Report Options

Report Type:
 Start Date: End Date:

Daily Use (each 15 minutes) - Kilowatt Hours for 05/01/2009

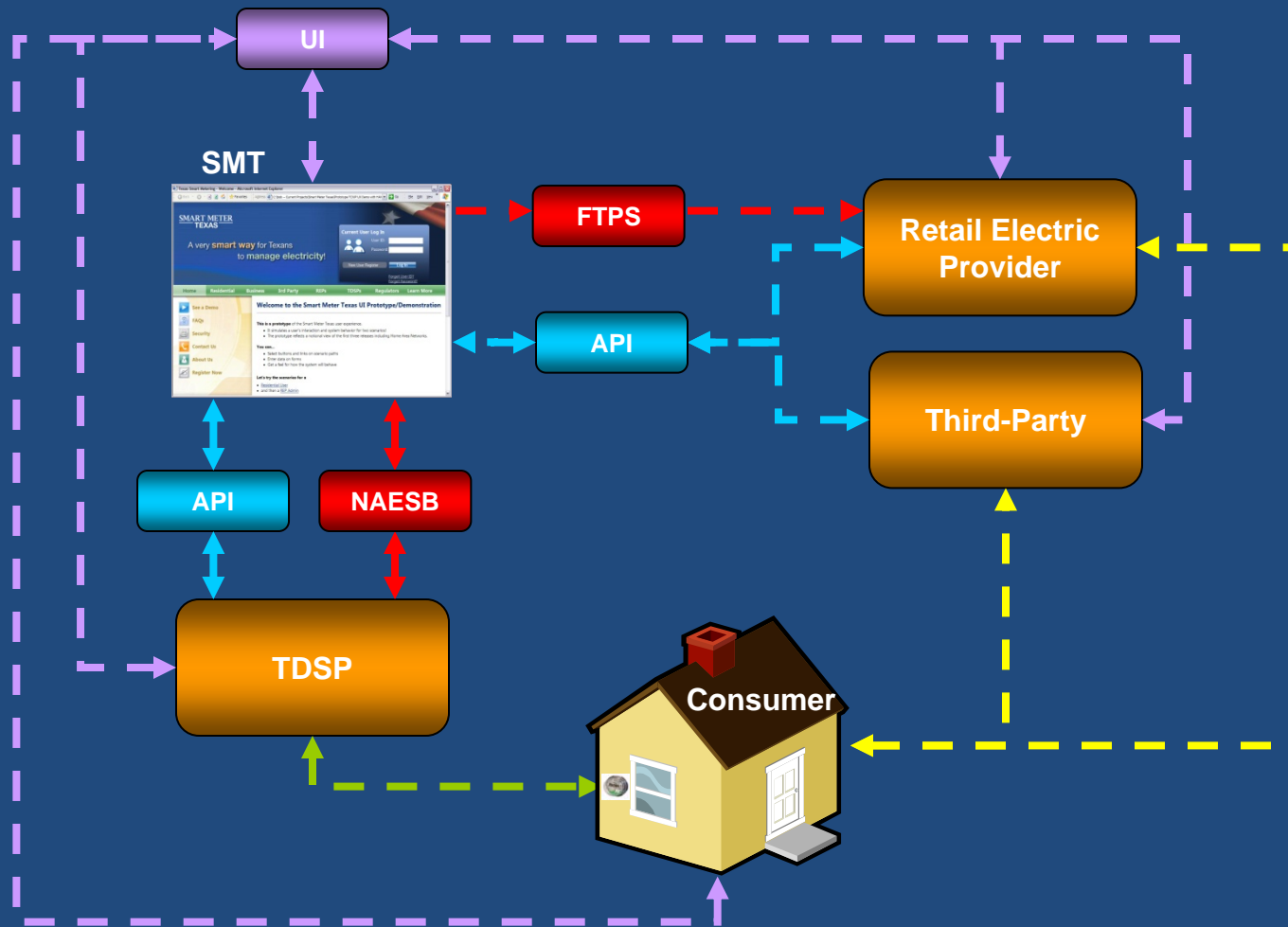
Use of Electricity Each 15 Minutes

Start Time ▼	End Time	Metered KWH
12:00pm	12:15am	XXX.XXX
12:15am	12:30am	XXX.XXX
12:30am	12:45am	XXX.XXX
12:45am	1:00am	XXX.XXX
1:00am	1:15am	XXX.XXX
1:15am	1:30am	XXX.XXX
1:30am	1:45am	XXX.XXX
1:45am	2:00am	XXX.XXX

Overview of the Smart Meter Texas (SMT) Solution



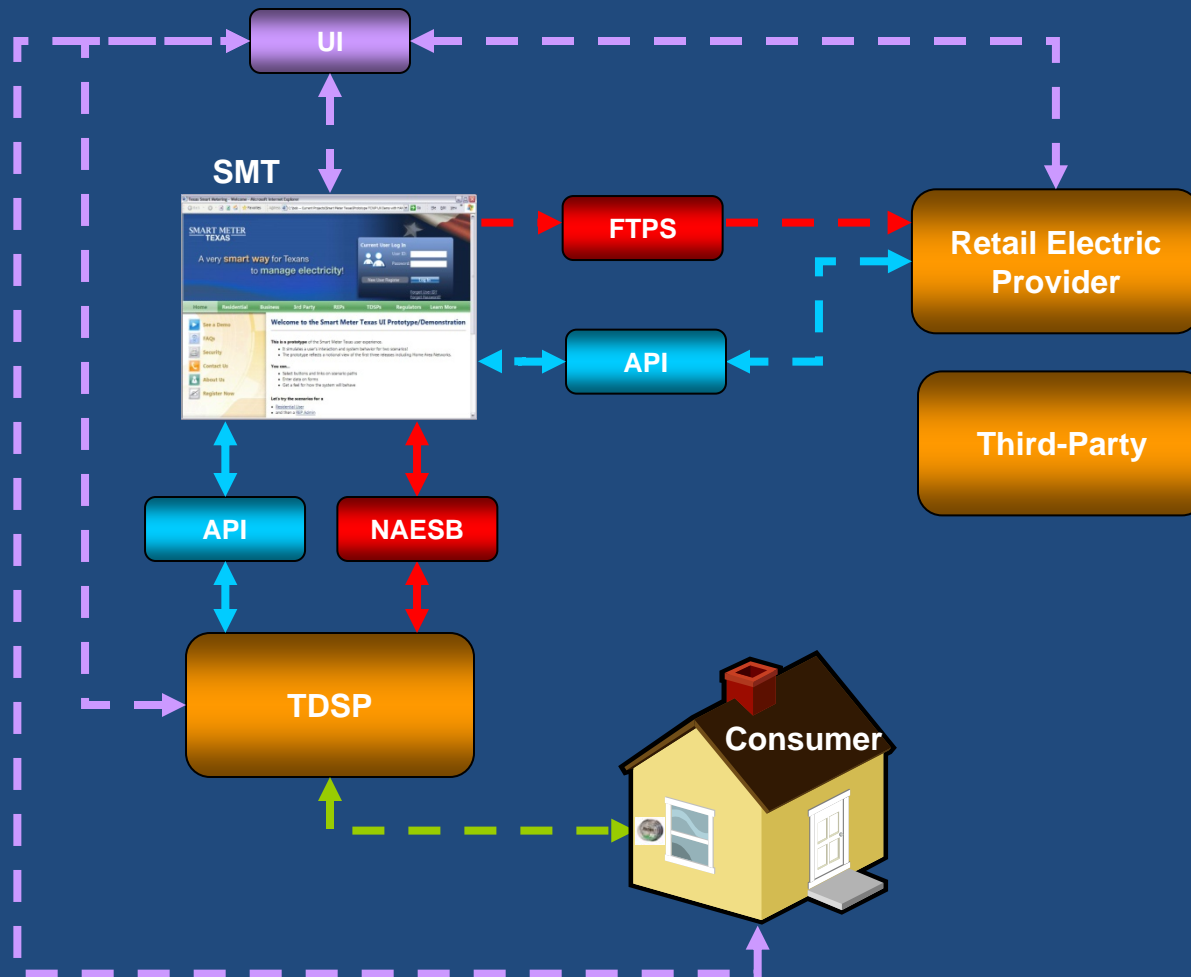
SMT (M1-M3, HAN)



Overview of the Smart Meter Texas (SMT) Solution



SMT (M1-M3, HAN) – Baseline 1/31/2010



Overview of the Smart Meter Texas (SMT) Solution



SMT M Functions – Baseline 1/31/2010

Function	Retail Electric Provider		Customer		TDSP		SMT	
	API	UI	API	UI	API	UI	API	UI
Manage Personal Profile		X		X		X		X
Manage Company Profile		X		Non-Res		X		X
Manage User Access		X		Non-Res		X		X
Attach ESIDs				X				
Detach ESIDs				X		X		X
Retrieve Daily ROR Usage Files		ROR						
Retrieve 15-min Intervals	ROR	ROR		X		X		X
Retrieve Daily Usage	ROR	ROR		X		X		X
Retrieve Version Reports		ROR				X		X
Set Broadcast Messages								X

Overview of the Smart Meter Texas (SMT) Solution



- The following is a list of 'Future Release' functionality that was brought forward and will be included in the 1/31/2010 Baseline deployment:
 - *Graphs* for Usage reports
 - *Entity Profile* to contain common Company-level profile info
 - *Add by Import* to allow consumers to attach Smart Meters to their account by importing a file
 - *Automatic Purge* of User IDs / Companies that have been inactive for 6 months
 - Baseline *HAN* functionality

Overview of the Smart Meter Texas (SMT) Solution



SMT HAN Functions – Baseline 1/31/2010

Message Type	Retail Electric Provider		Customer		TDSP		SMT	
	API	UI	API	UI	API	UI	API	UI
Provision HAN Device	X	X				X		X
De-Provision HAN Device	X	X				X		X
Load Control	X							
Pricing	X							
Text	X							



Overview of the Smart Meter Texas (SMT) Solution



SMT Interfaces:

API/FTP interfaces	Initial draft Specification	Final Specification
Extract of LSE files from SMT FTP site (interval & register reads)	12/14/09	1/15/10
Request for Ad-hoc usage via web service calls to SMT	12/14/09	1/15/10
Extract of LSE/CSV ad-hoc usage response files from SMT FTP site and Portal web link	12/14/09	1/15/10

HAN Interfaces:

API interfaces	Initial draft Specification	Final Specification
Provisioning / De-provisioning	12/14/09	1/15/10
Smart Energy Profile 1.0 messaging	12/14/09	1/15/10

Overview of the Smart Meter Texas (SMT) Solution



Release Schedule

2007				2008				2009				2010			
1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.



AMIT Working Group – SMART METER TEXAS / HAN Requirements



SMART METER TEXAS / HAN – 1/31/2010 Release



SMART METER TEXAS / HAN – Future Releases

Overview of the Smart Meter Texas (SMT) Solution



- Future release functionality proposed by AMIT includes:
 - Additional roles for 3rd Parties, Supplemental ('Friends') users & Regulatory bodies
 - Additional reports for Billed Data & Meter/Premise Attributes
 - REP Ping/Poll of Smart Meters
 - HAN Provisioning for Customers & 3rd Parties
 - HAN Messaging for Customers & 3rd Parties
 - Subscription capability for Notifications
 - Meter Event (outage/restoration) Notifications

Smart Meter Texas



SMART METER — TEXAS —

Demo