



Design Document for the
Release 4.3
of the
Common
Advanced Metering System
Web Portal and Data Repository
Design, Build, Test, Deploy

Release 4 Design Document for SMT 3<sup>rd</sup> Party One-Time Energy Data Agreements v1 September 6th, 2012

Prepared for
Texas Competitive Electric Market
Transmission and Distribution Service Providers (TDSPs)





### **Document Information**

This Design Document outlines the functional and technical designs that support the build, test and deploy of 3<sup>rd</sup> Party One-Time Energy Data Agreement

### **Revision History**

Revision Number	Revision Date	Revision By	Summary of Changes	Changes marked
V1	09/06/2012	Ashish Khanduri, Jonathan Hosu, Joselito Samoy, Shaun McCullough	Original Draft	

### **Approvers**

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			v.

Bob Frazier – CenterPoint Energy Houston Electric, LLC

Donny Helm - Oncor Electric Delivery Company, LLC

Denny Daugherty – AEP Texas North Company, AEP Texas Central Company

Robert Roberts – Texas New Mexico Power Company





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# **Traceability Matrix**

Functional Tracker	Business Requirement #	Business Requirement Description	3rd Party	Process Description
3rd Party	BR - 019.015	<ul> <li>Ability for 3rd parties, customers, and TDSPs to set up LOAs. Note – This is in place for 3rd parties in 3rd Party Phase 1, Customers have the friends and family functionality, and this will not be implemented for TDSPs</li> </ul>	P1.1	<ul> <li>3rd Party meets with RES/Business customer and collects information</li> </ul>
3rd Party	BR - 019.015	<ul> <li>Ability for 3rd parties, customers, and TDSPs to set up LOAs. Note – This is in place for 3rd parties in 3rd Party Phase 1, Customers have the friends and family functionality, and this will not be implemented for TDSPs</li> </ul>	P1.2	<ul> <li>3rd Party logs into SMT and navigates to My Account/Customer Relationships, then clicks on one the "One-Time LOA for Energy Data" button</li> </ul>
3rd Party LOA	BR - 019.012	<ul> <li>Ability for a 3rd party to attest on the common web portal that they have a Customer authorization (hardcopy or electronic) authorizing them to read only access the Customer's data</li> </ul>	P1.3	<ul> <li>On the 'Create LOA' page, 3rd Party enters the RES/Business info collected into SMT UI, affirm authorization and clicks 'Submit' to initiate the invitation</li> </ul>





# **Traceability Matrix**

Functional Tracker	Business Requirement #	Business Requirement Description	3rd Party	Process Description
3 <sup>rd</sup> Party	BR – 019	Ability for a Customer to electronically authorize release of usage data to a 3rd party (i.e. someone other than the Rep of Record - either a REP, aggregator, or registered 3rd party).	P2.1	<ul> <li>RES/Business user opens email and clicks on "Accept" to start the acceptance process for the relationship</li> </ul>
3rd Party LOA	BR – 019.012	<ul> <li>Ability for a 3rd party to attest on the common web portal that they have a Customer authorization (hardcopy or electronic) authorizing them to read only access the Customer's data</li> </ul>	P2.1	<ul> <li>RES/Business user opens email and clicks on "Accept" to start the acceptance process for the relationship</li> </ul>
3rd Party	BR - 019.014	<ul> <li>Ability for 3<sup>rd</sup> parties and / or Customers to receive a notification when access has been granted, access has been changed, or access has been revoked for an ESIID</li> </ul>	P2.3, P2.4	<ul> <li>SMT sends a confirmation email to the RES/Business user (with copy of LOA) indicating that 3rd party has been granted access to one-time report</li> <li>SMT sends a notification email to the 3rd party that the LOA has been accepted</li> </ul>





# **Business Rules**

#	Rule
4	If a user does not accept or reject an agreement initiation request from a 3rd party within 30 days, the agreement status becomes "Not Accepted"
6	Agreements in "Not Accept" state cannot be revived
7	Agreements in "Completed" state cannot be revived
8	If the 30 invitation period expires and a user clicks Accept or Reject on the invitation email, SMT will message the user that the invitation has expired.
10	A 3rd Party is allowed up to three One-Time Energy Data agreements per ESIID per year





# **Functional Rules**

#	Rule	Context/Comments
1	If customer is residential non-registered, display an optional language preference field. Do not display Language Preference field for business users	3rd Party initiates a customer agreement request
2	If customer is a registered SMT user, then UI will prompt for only Customer's email address and auto fill Customer Information fields	3rd Party initiates a customer agreement request
3	ESIID/Meter# pair must be validated and not belong to another account if not registered; ESIID/Meter#/Email must be validated if registered	3rd Party initiates a customer agreement request
4	Company Name field with information from Company Profile and cannot be edited	3rd Party initiates a customer agreement request
5	Contact Name, Phone, and Email will be auto populated from personal profile but can be manually overwritten	3rd Party initiates a customer agreement request
6	SMT will forward non-registered user to either a residential or non-residential registration page based on User Information in Customer Agreement initiation request	Non-registered user proceeds to register for an SMT account after accepting or rejecting a customer agreement request
10	Only actions for which a 3rd Party user has permissions will be active on the View & Edit Customer Agreements page	View & Edit Customer Agreement page for both Customers and 3rd Parties
12	If user enters multiple meters or devices during customer agreement initiation, SMT will create separate agreements for each meter or device	3rd Party initiates a customer agreement request
13	If the 30 day invitation period expires and a user clicks Accept or Reject on the invitation email, SMT will message the user that the invitation has expired.	Customer Accepts Ongoing Relationship request
14	If during a "Pending" or "Extension Pending" status changes, and later the customer clicks Accept or Reject on the invitation email, SMT will message that the invitation has expired due to an change in agreement status and will message the customer to go to My Account / 3rd Party Relationships to review the agreements.	Customer Accepts Ongoing Relationship request
15	SMT will pre-populate registration form with information provided in Customer Agreement initiation request form	Non-registered user proceeds to register for an SMT account after accepting or rejecting a customer agreement request
16	"Resend Email" button on a customer agreement will active only when the agreement is in Pending state	3rd Party views a Customer Agreement





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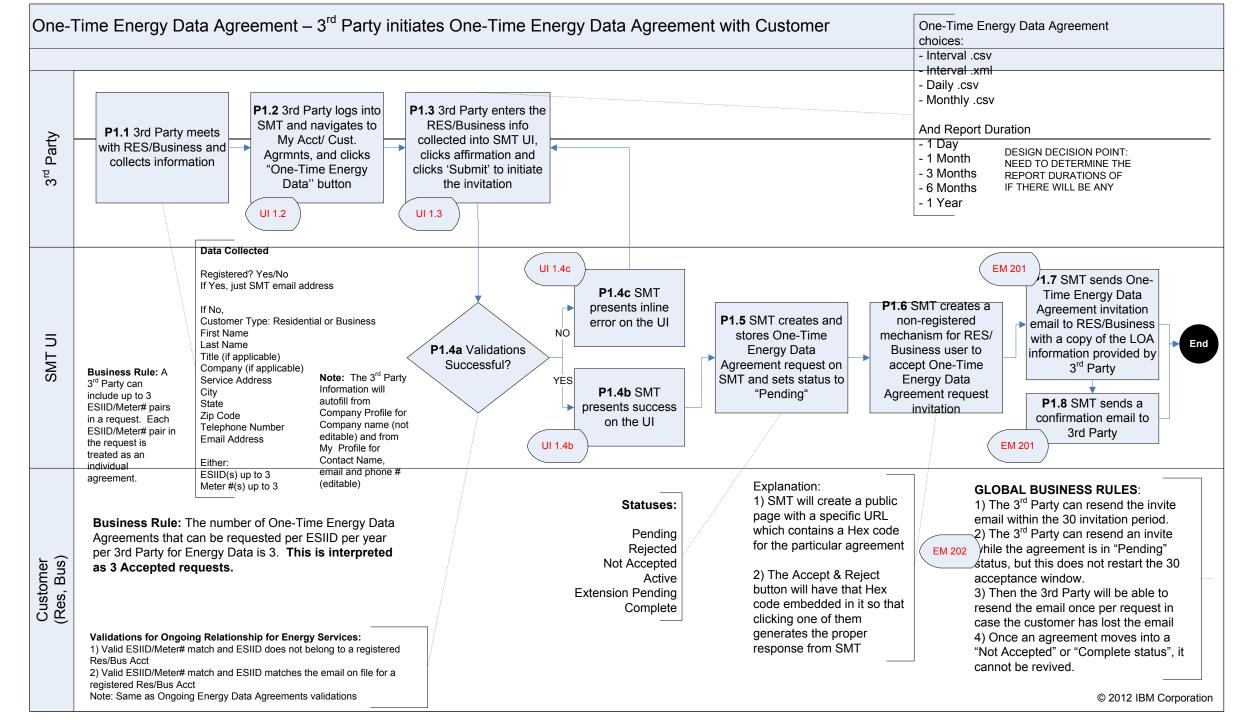
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Welcome, Tom

**Add HAN Device** 

# 3<sup>rd</sup> Party initiates One-Time Energy Data Agreement:

# My Account / Customer Agreements page

TEXAS™ Log Out Home | My Account | Usage | Notices | Help Page will display a search view if User has more **Customer Agreements** My Account / Customer Agreements than 25 customer agreements as per current **HAN Device Messages** production pattern My Profile **Search for Customer Agreements** Company Profile Manage Users \* Indicates a required field. **Pending Approvals** Choose your search criteria and type in a one or more search items, Agreement Number(s) \* Select type of agreement search criteria. Customer Last Name ESIID(s) Meter Number(s) HAN Device MAC Address. Type one or more search items: 102\* (separated by commas) Help: You have more than 25 Customer Agreements associated with Search your account. • You may search for an agreement by Agreement number, Customer Last Name, ESIID, Meter Number, HAND Device MAC address Create a new agreement: You may enter a list of up to 100 search items **Ongoing HAN Services Ongoing Energy Data** [Hide Help]

**One-Time Energy Data** 

SMART METER



### 3<sup>rd</sup> Party initiates One-Time Energy Data Agreement:

Initiate One-Time Energy Data Agreement (page 1 of 2)

**Functional Rule 1:** If customer is residential non-registered, display an optional language preference field. Do not display Language Preference field for business users

Functional Rule 2: If customer is a registered SMT user, then UI will prompt for only Customer's email address and auto fill Customer Information fields

**Functional Rule 3:** Meter Number, ESIID and Email fields must be validated.

#### **Functional Rule 12:**

If customer enters multiple meters or devices during customer agreement initiation, SMT will create separate agreements for each meter or device

#### Validation:

#### ESIID/Meter # pair is not valid:

Your 3rd Party Agreement request cannot be completed at this time due to one of the following reasons:

- -The ESIID specified is incorrect
- The Meter # specified is incorrect
- The ESIID/Meter # pair specified is not correct
- The customer may not have a Smart Meter yet. A meter with a digital display is not necessarily a Smart Meter. The customer should contact their REP to determine their meter type.
- If the customer has recently received their Smart Meter, the meter information may not be available for access through the Smart Meter Texas portal until up to 60 days after installation of the Smart Meter

#### ESIID/Meter #/Email combination is not valid:

- The ESIID/Meter #/Email combination specified is not valid

SMART ME TEXAS™	TER			Welcome, Tom Log Out
Home   My Account	t   Usage   Notices   Hel	p		
Customer Agreements HAN Device Messages My Profile Company Profile Manage Users Pending Approvals	My Account / Customer Agreem  Initiate One-Time Energy D  Complete this form to send an inv If your meter number starts with a The invitation will be sent to the c If you customer is already register  *Indicates a required field	lata Agreem itation to your of letter, please en ustomer email a	customer for a One-T nter the number with address you provide	ime Energy Data Agreement
	*Is customer already registered *Is customer a residential or bus  Customer Information  *First Name:   Middle Initial:  *Last Name:   Title:   Language Preference:   Company Name (if applicable)  *Street:  *City  *State  *Zip:   Phone Number:  *Email Address:  *Meter 1:   Meter 2:   Meter 3:	ESIID	O Yes O Residential  Meter N	No Business  umber  Daily csv O Monthly csv
	*Report Type: *Report Duration:	Select repor X months X months X months		© 2012 IBM Corpo

X months





# 3<sup>rd</sup> Party initiates One-Time Energy Data Agreement:

# Initiate One-Time Energy Data Agreement (page 2 of 2)

#### **Business Rule 10:**

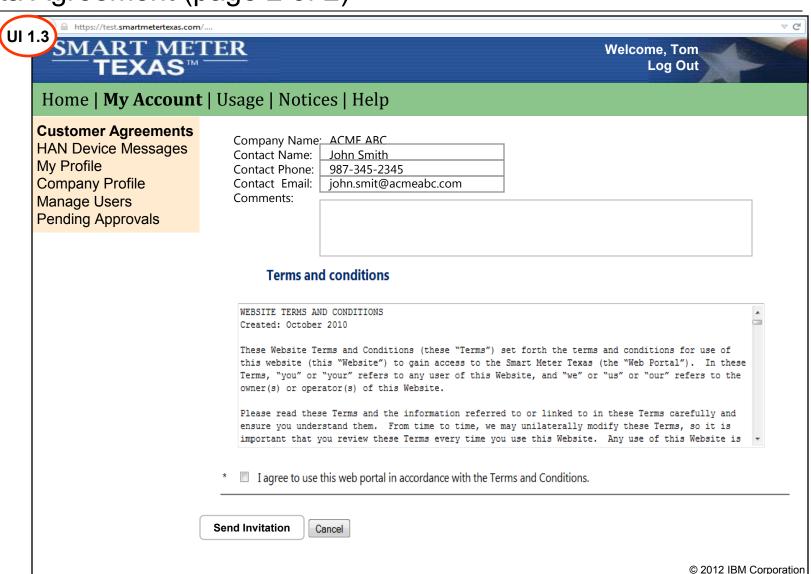
A 3<sup>rd</sup> Party is allowed up to three One-Time Energy Data agreements per ESIID per year

#### **Functional Rule 4:**

Company Name field will display information from Company Profile and cannot be edited

#### **Functional Rule 5:**

Contact Name, Phone, and Email will be auto populated from personal profile but can be manually overwritten



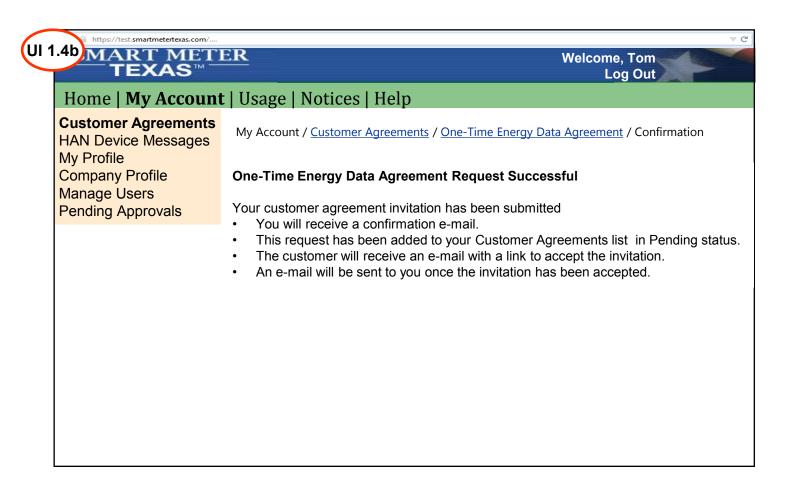




# 3<sup>rd</sup> Party initiates One-Time Energy Data Agreement:

# Customer Agreement Request initiated confirmation page

Customer Agreement is created status is set to Pending



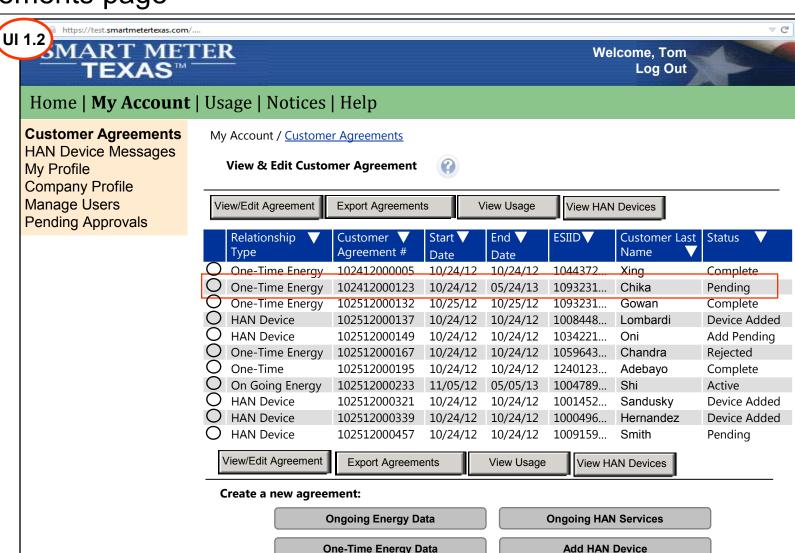




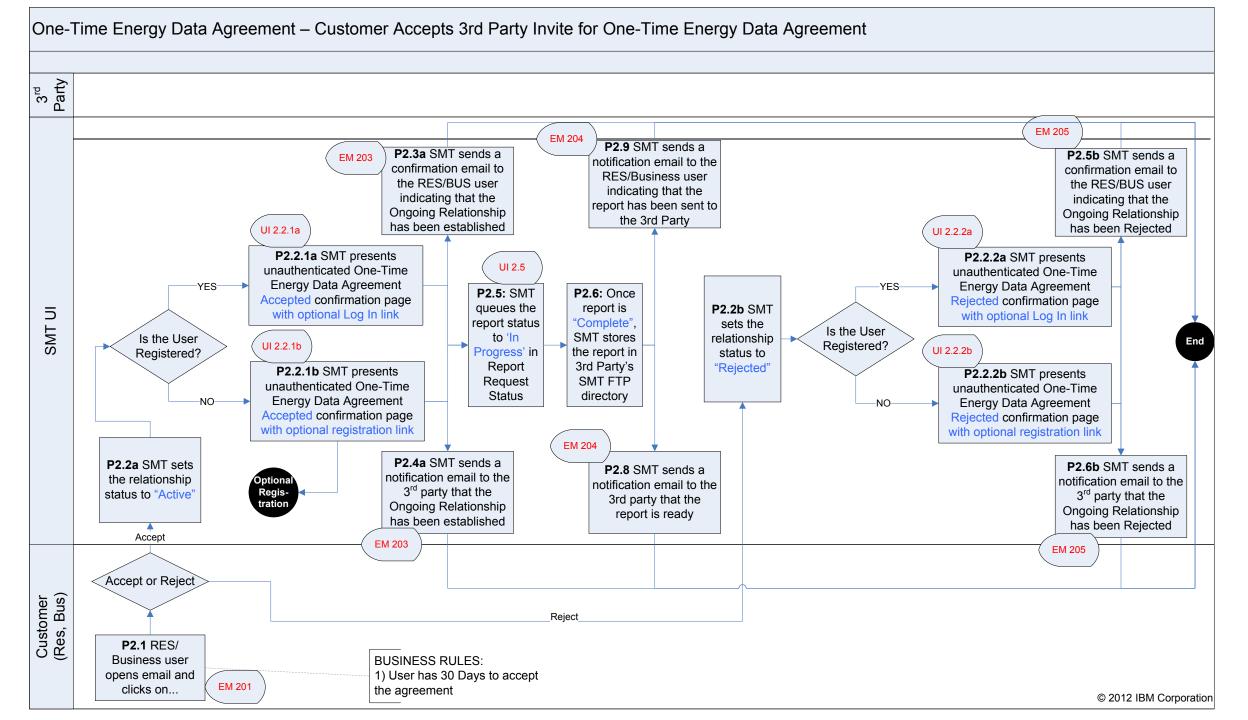
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### 3<sup>rd</sup> Party initiates One-Time Energy Data Agreement:

# My Account / Customer Agreements page



Page will display a list of customer agreements if User has less than 25 customer agreements as per current production pattern







### Customer receives email request (page 1 of 2)



### SMART METER TEXAS™

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

This is an invitation from <3rd Party> for an Ongoing Energy Data Agreement for you to review and accept/reject.

<3rd Party name> would like to initiate an Ongoing Energy Data Agreement.

Agreement # <XXXXXXXXXXXX

- This Agreement provides a single energy usage report to <3rd Party name>.
- This energy usage report is for <15 minute interval, Daily, Monthly> usage data, and the length of the report is for the last <1 day, 1 month, 3 months, 6 months, 1 year>

Neither Smart Meter Texas nor any regulatory agency has reviewed <3rd Party name>'s privacy policy. You are encouraged to review the terms of their privacy policy before accepting this agreement, so you can understand how <3rd Party name> collects, uses and shares your information. Their privacy policy can be viewed at: link> or <The Privacy Policy has not been provided.>

Neither Smart Meter Texas, your Transmission/Distribution Service Provider, nor your Retail Electric Provider is responsible for the privacy statements, practices, or policies of any 3rd Party you grant access to your smart meter data.

Company Name: <3rd Party name> 3rd Party Email: <3rd Party email>

3rd Party Phone Number: <3rd Party phone number>

3rd Party Contact: <3rd Party contact>

FPO for position only

Sid Faity Contact. Sid Faity Contact>

Comments: <optional 3rd Party comments>

Customer Address: <customer address>
Customer Email Address: <customer email>
Customer Phone #: <customer phone #>
ESIID: <ESIID> (mask all but last seven)

Customer First Name: <customer first name>

Customer Last Name: <customer last name>

Customer Middle Initial: <customer middle initial>

Meter Number: <meter number>

You have until <expiration date of invitation> to accept this invitation. After that date, the invitation will be voided. Please click "Accept" to complete the acceptance process.

By accepting this invitation, you are authorizing <3rd Party name> to perform the indicated services.

#### Accept

Reject

Click Accept to enter an
One-Time Energy Data Agreement
with <3rd Party name>

Click to Review the Smart Meter Texas Security & Privacy Policy

Clicking the "Accept" or "Reject" button will take you to the Smart Meter Texas website to complete the process.

Regards,

Smart Meter Texas Team

Have a question about Smart Meter Texas? Click <a href="here">here</a> to view our FAQs.

The Smart Meter Texas 3rd Party program allows a 3rd Party, after obtaining your permission, to obtain and use your Smart Meter Energy Data.





### Customer receives email request (page 2 of 2)

As a customer, you own your smart meter data and <u>do not have to grant access to any 3rd Party</u>. Marketing Policies may vary from 3rd Party to 3rd Party. A 3rd Party may market their products and/or services to you regardless of whether or not you choose to grant them access to your smart meter data. Granting access to your smart meter data may enable a 3rd Party to match their product or service with your energy needs.

By approving a 3rd Party's access to your smart meter energy data you are granting them permission to access your service address, meter number, Electric Service Identifier (ESIID), and 15-minute electricity usage data, on a continual basis through Smart Meter Texas, until the agreement expires or you revoke access.

Please note: Any business relationship with a 3rd Party is solely between you and the 3rd Party to whom you grant authorization to access and use your energy data.

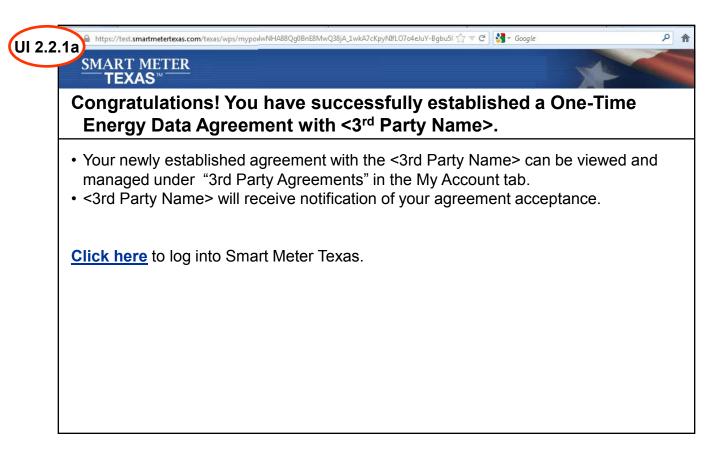
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# Customer Agreement accepted confirmation page – Registered SMT User

**Scenario:** User is a registered SMT user. **Action:** Customer Agreement status is set to Complete; SMT displays congratulations page, log in is optional.





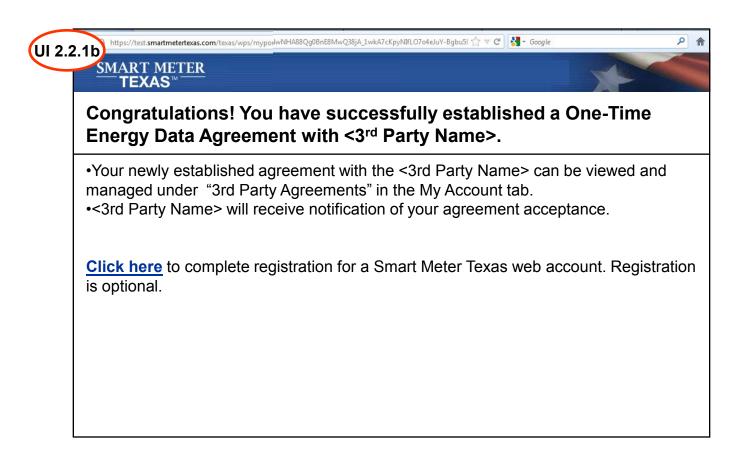


# Customer Agreement accepted confirmation page – Unregistered User

**Scenario:** User is not a registered SMT user. **Action:** User is presented a confirmation page. Agreement status is set to Complete. Optionally, user may choose to register for an SMT account

### **Functional Rule 6:**

SMT will forward non-registered user to a residential or non-residential registration page based on information in Customer Agreement initiation request form







https://test.smartmetertexas.com/

# SMT User Account Registration (page 1 of 2)

### **SMART METER** TEXAS™ Register Home > Select Account Type > **Create a Residential Customer Account** • Provide the following information to obtain access to this web site. If your meter number starts with a letter, please enter the number without the letter. Confirmation email will be sent to the email address you provide. •To complete the initial registration you must follow the instructions provided in the email received. \* Indicates a required field **Personal Information** \* First Name: Chika Middle Initial: \* Last Name: Akin Suffix: Phone: 987 - 654 - 4321 Ext. \* Account email address: first.last@hotmail.com \* Re-enter email address: first.last@hotmail.com \* Language Preference: English -Security \* User ID: chika \* ESI ID: 2004897723323 \* Meter Number: 2004897723323

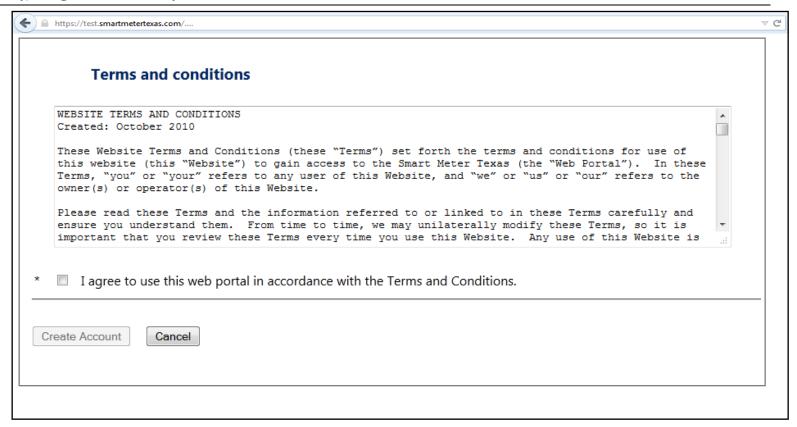
#### **Functional Rule 15:**

SMT will pre-populate registration form with information provided in Customer Agreement initiation request form





# SMT User Account Registration (page 2 of 2)

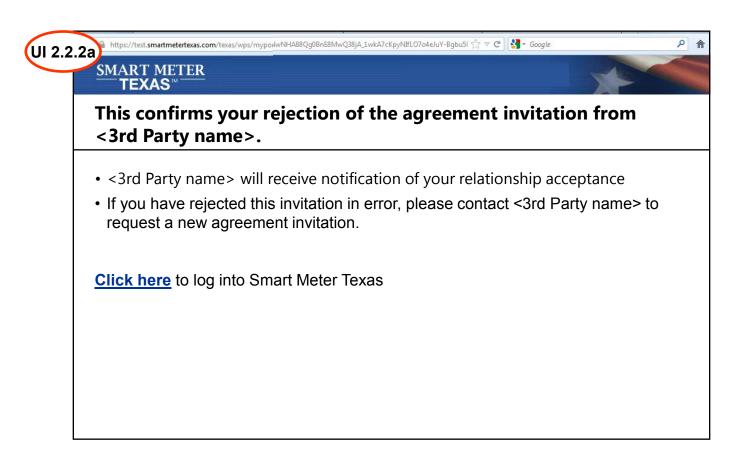






# Customer Agreement rejected confirmation page – Registered SMT User

**Scenario:** User is a registered SMT user **Action:** Customer Agreement status is set to Rejected; SMT displays a confirmation page.





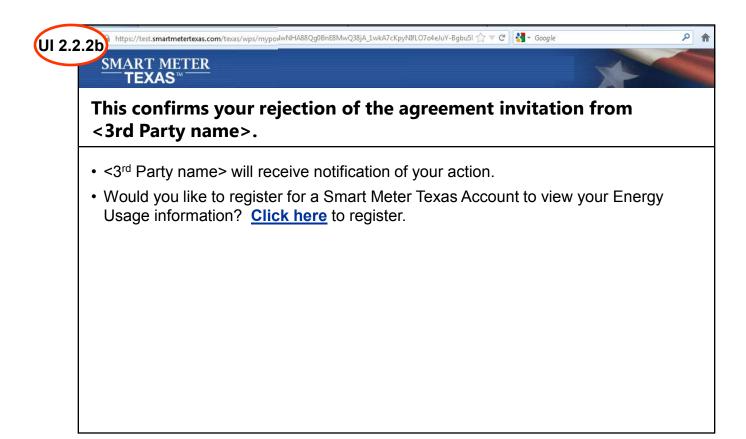


### Customer Agreement rejected confirmation page – Unregistered User

**Scenario:** User is not a registered SMT user. **Action:** User is presented a confirmation page with a prompt to take him through the SMT account registration process.

#### **Functional Rule 6:**

SMT will forward non-registered user to a residential or non-residential registration page based on Customer Information in Customer Agreement initiation request





### Customer views and manages 3<sup>rd</sup> Party Agreements:

View & Edit 3<sup>rd</sup> Party Agreement page

# \*\* https://test.smartmetertexas.com/.... \*\*SMART METER\*\* \*\*TEXAS\*\*\*

Welcome, Tom Log Out

### Home | My Account | Usage | Notices | Help

My Smart Meters

**3rd Party Agreements** 

HAN Devices

My Friend's Meters
My Profile

My Friends

My Account / 3rd Party Agreements / View & Edit Customer Agreement

**View & Edit Customer Agreement** 



**3rd Party Information** 

Company Name: Green Energy Services

Contact Name

Phone: 244-322-5454

Email: info@greenenergy.com

**Customer Information** 

Customer First Name: Chika Customer Last Name: Akin

Service Address: 400 N Olive Street, Sunnyville, TX 75012

Customer Email Address: cakin@gmail.com Customer Phone #: 000-000-0000

**Meter Data** 

ESIID#: 10443720007574303

Meter#: 104051941

**Customer Agreement** 

Customer Agreement #: 102512000233

Agreement Type: One-Time Energy Data

Agreement Status: Complete
Agreement Start Date: 01/01/2012

Agreement End Date: N/A

Report Type: Interval csv Report Duration: 3 months

Accept Agreement

Reject Agreement

Cancel

[Hide Help]

agreement

• This page show details of a 3<sup>rd</sup> Party Agreement.

• If the agreement is in Pending state, you may accept or reject the

• If the agreement is in Active state, terminate the agreement

Help:

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3<sup>rd</sup> Party views and manages Customer Agreement:

View & Edit Agreement page



# https://test.smartmetertexas.com/.... SMART METER TEXAS TM

Welcome, Tom Log Out

### Home | My Account | Usage | Notices | Help

#### **Customer Agreements**

HAN Device Messages My Profile Company Profile Manage Users Pending Approvals My Account / Customer Agreements / View & Edit Customer Agreement

#### **View & Edit Customer Agreement**



#### **Customer Information**

Customer First Name: Chika Customer Last Name: Akin

Service Address: 400 N Olive Street, Sunnyville, TX 75012

Customer Email Address: cakin@gmail.com Customer Phone #: 000-000-0000

#### **3rd Party Information**

Company Name: Green Energy Services

Contact Name: James Wilson Company Phone: 244-322-5454

Company Email: info@greenenergy.com

#### **Meter Data**

ESIID#: 10443720007574303

Meter#: 104051941

#### **Customer Agreement**

Customer Agreement #: 102512000233

Agreement Type: One-Time Energy Data

Agreement Status: Complete
Agreement Start Date: 01/01/2012

Agreement End Date: N/A

Report Type: Interval csv Report Duration: 3 months

### Functional Rule 16:

"Resend Email" button on a customer agreement will be active only when the agreement is in Pending state

#### **Functional Rule 10:**

Only actions for which a 3<sup>rd</sup> Party user has permissions will be active on the View & Edit Customer Agreements page

### Help:

- · This page show details of a customer agreement
- If the Agreement Status is Pending, the customer has not yet accepted or rejected your initiation request
- · You may resend an invitation email for an agreement in Pending status
- You may terminate an agreement in Active status [Hide Help]

Resend Email

Cancel





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### Customer receives email request (page 1 of 2)



#### SMART METER TEXAS™ ---

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

This is an invitation from <3rd Party> for an Ongoing Energy Data Ag Introduction vou to review and accept/reject.

<3rd Party name> would like to initiate an Ongoing Energy Data Agreement.

**Body** 

#### Agreement # <XXXXXXXXXXXX

- This Agreement provides a single energy usage report to <3rd Party name>.
- This energy usage report is for <15 minute interval, Daily, Monthly> usage data, and the length of the report is for the last <1 day, 1 month, 3 months, 6 months, 1 year>

Neither Smart Meter Texas nor any regulatory agency has reviewed <3rd Party name>'s privacy policy. You are encouraged to review the terms of their privacy policy before accepting this agreement, so you can understand how <3rd Party name> collects, uses and shares your information. Their privacy policy can be viewed at: link> or <The Privacy Policy has not been provided.>

Neither Smart Meter Texas, your Transmission/Distribution Service Provider, nor your Retail Electric Provider is responsible for the privacy statements, practices, or policies of any 3rd Party you grant access to your smart meter data.

Company Name: <3rd Party name> 3rd Party Email: <3rd Party email>

3rd Party Phone Number: <3rd Party phone number>

3rd Party Contact: <3rd Party contact>

Comments: <optional 3rd Party comments>

Customer First Name: <customer first name> Customer Middle Initial: <customer middle initial> Customer Last Name: <customer last name>

Customer Address: <customer address> Customer Email Address: <customer email> Customer Phone #: <customer phone #> ESIID: <ESIID> (mask all but last seven) Meter Number: <meter number>

You have until <expiration date of invitation> to accept this invitation. After that date, the invitation will be voided. Please click "Accept" to complete the acceptance process.

By accepting this invitation, you are authorizing <3rd Party name> to perform the indicated services.

#### Accept

Reject

Click Accept to enter an One-Time Energy Data Agreement with <3rd Party name>

Click to Review the Smart Meter Texas Security & Privacy Policy

Clicking the "Accept" or "Reject" button will take you to the Smart Meter Texas website to complete the process.

Regards, Smart Meter Texas Team Salutation

Not yet a member of Smart Meter Texas? Click here to register.

Reference

Want to learn more about what Smart Meter Texas can do for you? Click here to watch a demo.

Have a question about Smart Meter Texas? Click here to view our FAQs.



### Customer receives email request (page 2 of 2)

The Smart Meter Texas 3rd Party program allows a 3rd Party, after obtaining your permission, to obtain and use your Smart Meter Energy Data.

Education

As a customer, you own your smart meter data and <u>do not have to grant access to any 3rd Party</u>. Marketing Policies may vary from 3rd Party to 3rd Party. A 3rd Party may market their products and/or services to you regardless of whether or not you choose to grant them access to your smart meter data. Granting access to your smart meter data may enable a 3rd Party to match their product or service with your energy needs.

By approving a 3rd Party's access to your smart meter energy data you are granting them permission to access your service address, meter number, Electric Service Identifier (ESIID), and 15-minute electricity usage data, on a continual basis through Smart Meter Texas, until the agreement expires or you revoke access.

Please note: Any business relationship with a 3rd Party is solely between you and the 3rd Party to whom you grant authorization to access and use your energy data.





# Emails to Customers and 3<sup>rd</sup> Parties

#	Scenario
EM201	3rd Party initiates request for One-Time Energy Data agreement
EM202	3rd Party resends request for One-Time Energy Data agreement
EM203	Customer accepts 3rd Party request
EM204	SMT Notifies 3 <sup>rd</sup> Party that the One-Time Energy Data report has been completed
EM205	Customer rejects 3rd Party request

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