

Texas Standard Electronic Transactions

INTRODUCTION TO TX SET

2023_05 TXSET

Protocol Disclaimer

This presentation provides a general overview of Retail Transaction Processing and is not intended to be a substitute for the ERCOT Protocols, as amended from time to time. If any conflict exists between this presentation and the ERCOT Protocols, the ERCOT Protocols shall control in all respects.

For more information, please visit:
[Protocols - Nodal \(ercot.com\)](https://ercot.com/protocols-nodal)

Housekeeping

Restrooms

Refreshments

Attendance sheet

Questions



**Please silence smart phones
& other electronics**

Antitrust Admonition

To avoid raising concerns about antitrust liability, participants in ERCOT activities should refrain from proposing any action or measure that would exceed ERCOT's authority under federal or state law. For additional information, stakeholders should consult the *Statement of Position on Antitrust Issues for Members of ERCOT Committees, Subcommittees, and Working Groups*, which is posted on the ERCOT website.

Course Objectives

What is TX SET?

Where do I find Tools/References?

How does TX SET work?

How is TX SET managed?

Agenda

1. Introduction
2. Governing Documents
3. TXSET Working Group
4. Transaction Overview
5. Transaction Process Flow
6. MIS Portal
7. TXSET Implementation Guides
8. Appendix

Introduction

What is TX SET?

- **T**exas **S**tandard **E**lectronic **T**ransactions
- Set of ANSI EDI transaction guidelines
- Facilitates retail business processes
- Maintained by TX SET working group

Benefits of TX SET

- Standardization of automated processes
- Improves data quality and efficiency
- Greater transparency
- Improved security
- Allows reporting flexibility
- Increased cost savings

When are TX SET used?

To execute Retail market processes

- Move In
- Move Out
- Switch
- Disconnects
- Reconnects
- Updates to premise information
- Updates to customer information

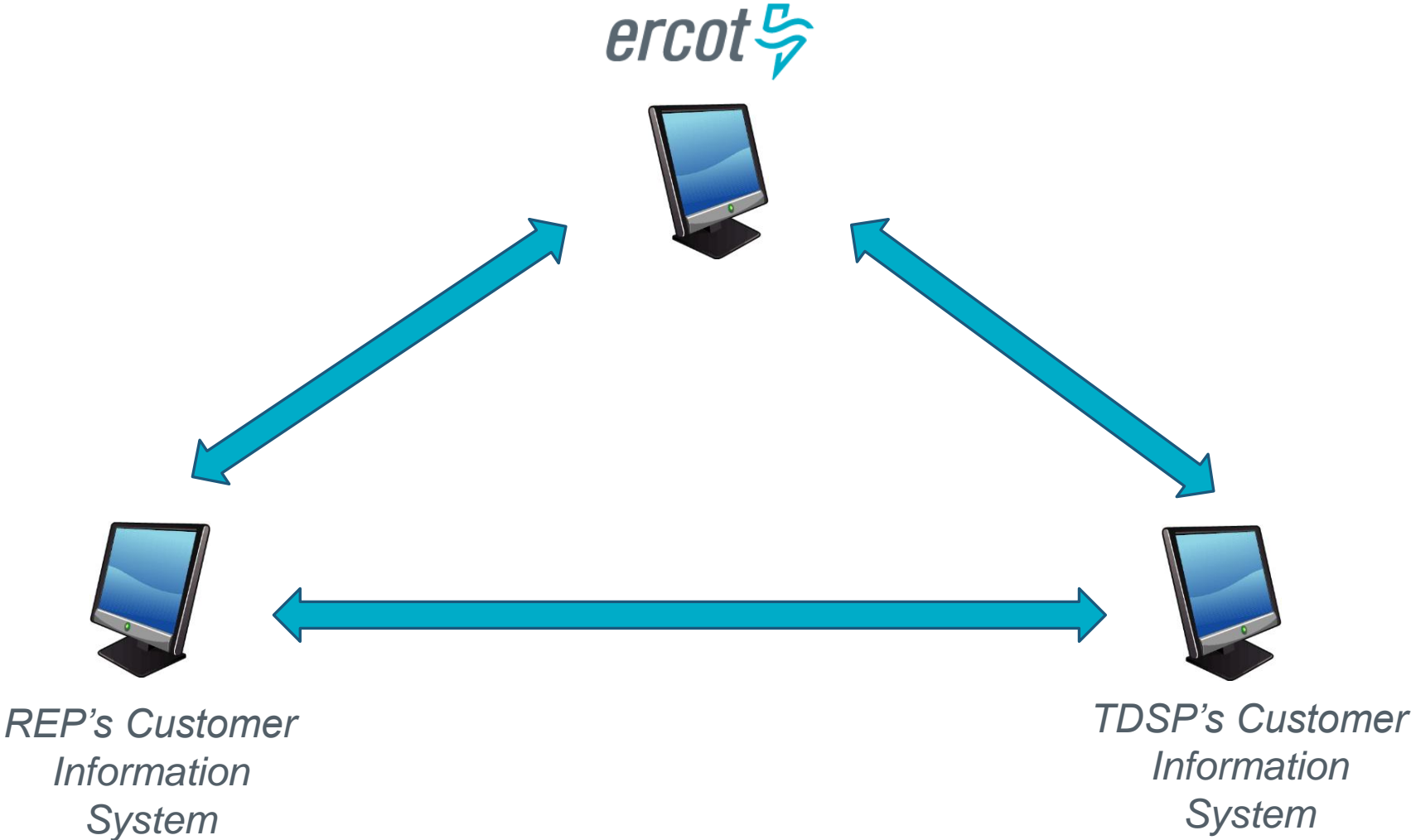
How are TX SET Delivered?

NAESB EDM v1.6

North **A**merican **E**nergy **S**tandards **B**oard
Electronic **D**elivery **M**echanism

- Version 1.6 is a National Standard
- Secured computer to computer data protocol
- Modified to fit ERCOT Market

Transaction Flows



Acronyms

TX SET – *Texas Standard Electronic Transactions*

PURA – *Public Utilities Regulatory Act*

PUCT – *Public Utility Commission of Texas*

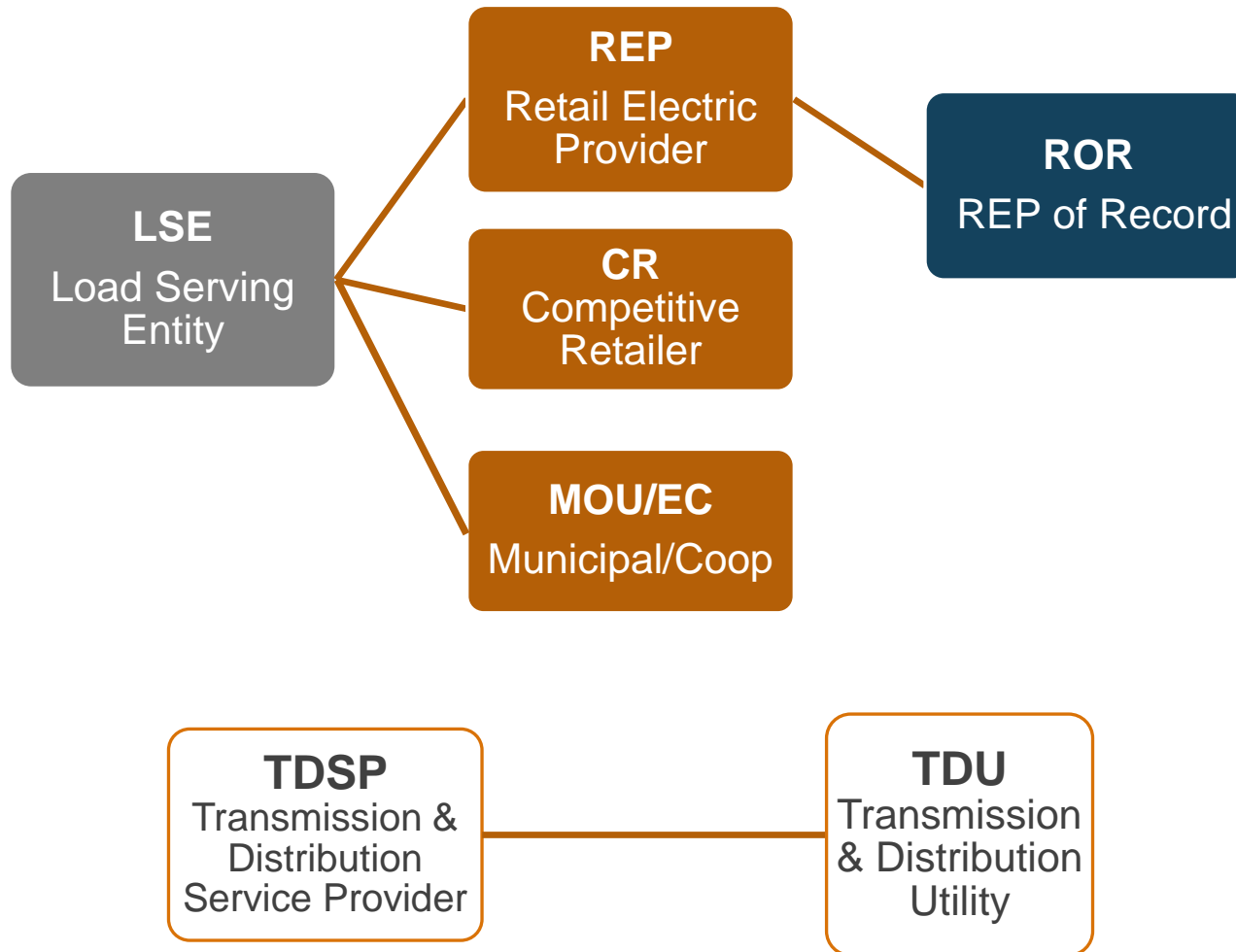
ERCOT – *Electric Reliability Council of Texas*

NAESB – *North American Energy Standards Board*

MP – *Market Participant*

ESI ID – *Electric Service Identifier*

Participants



Governing Documents

Hierarchy of Rules



Public Utility Regulatory Act
(PURA)



PUCT Substantive Rules



ERCOT Protocols

Rules/Policies/Standards that govern the ERCOT market

- Created through collaborative efforts
- Define procedures used by ERCOT and Market Participants (MPs)
- MPs, ERCOT and Independent Market Monitor (IMM) bound by Protocols

ERCOT Protocols

[About ERCOT](#)[Services](#)[Committees and Groups](#)[Market Rules](#)[Market Information](#)[Grid Information](#)[Market Participants](#)

[Home](#) > [Market Rules](#) > [Protocols - Nodal](#)

Related Content

On this site

[Protocol Revision Requests](#)

[Protocol Revision Subcommittee](#)

Protocols - Nodal

The Protocols outline the procedures and processes used by ERCOT and Market Participants for the orderly functioning of the ERCOT system and nodal market. The current set of Protocols as well as requests for changes and clarification may be found in this section.

In This Section

[Current Protocols - Nodal](#)

The Nodal Protocols become effective upon Texas Nodal market implementation; the current set of Nodal Protocols are in this section.

[NPRR Submission Process](#)

Find the directions and forms to submit a Nodal Protocol revision request.

[Protocol Interpretation Request Submission Process](#)

Read about the process for submitting a PIR, and find the form.

[Protocol Library - Nodal](#)

Find the monthly versions of the complete Nodal Protocol set, including summaries of revisions.

Relevant ERCOT Protocol Sections

Section 2 – Definitions and Acronyms

Section 9 – Settlements and Billing

Section 10 – Metering

Section 12 – Market Information System

Section 15 – Customer Registration

Section 18 – Load Profiling

Section 19 – Texas Standard Electronic Transaction

Section 21 – Revision Request Process

Section 24 – Retail Point to Point Communications

Section 15 - Customer Registration

- ERCOT is the Registration Agent for the Retail Electric Market
- ERCOT maintains the Registration Database of all ESI IDs
- All Competitive Retailers operating in ERCOT register their customers via TX SET

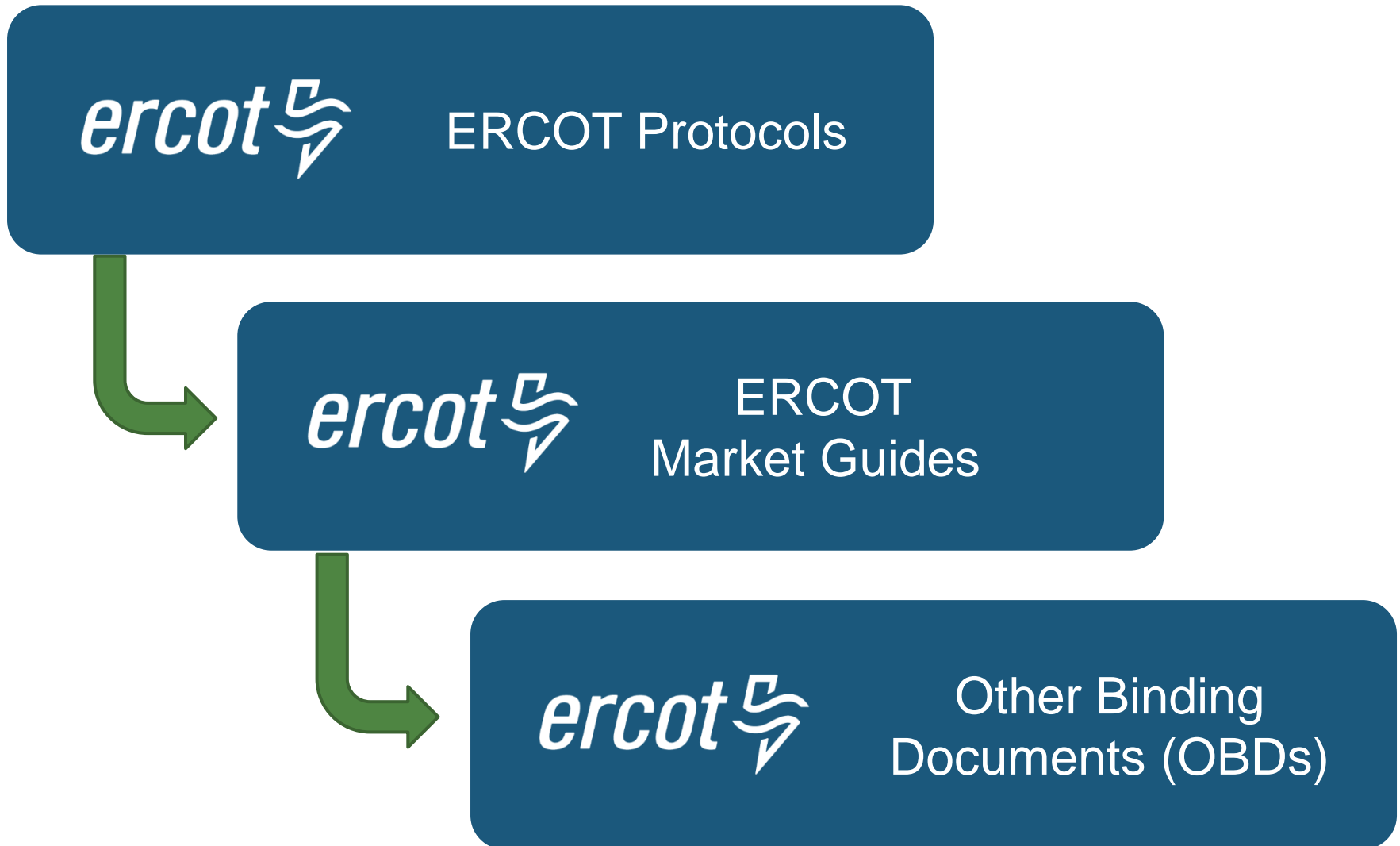
Section 19 – Texas Standard Electronic Transaction

- Transactions between Competitive Retailers (CRs), ERCOT, and Transmission and Distribution Service Providers (TDSPs)
- Validation process
- TX SET change control process
- Retail market testing process

Section 24 – Retail Point to Point Communications

- Transactions that do not flow through ERCOT
- Transactions that flow between CRs and TDSPs
 - Disconnect/Reconnect
 - Suspension of delivery
 - Remittance information
 - TDSP Invoice

ERCOT Market Guides



ERCOT Market Guides



[Home](#) > [Market Rules](#) > [Market Guides](#)

Market Guides

Market Guides are based upon ERCOT Protocols and serve as detailed reference documents for Market Participants. The guides act as a mechanism for establishing and adjusting market and operating processes.

In This Section

[Commercial Operations Market Guide](#)

Find the reference guide for commercial operations; and locate or submit requests for revisions.

[Data Transport Guides](#)

Read about ERCOT's standards for secure data transport, including the North American Energy Standards Board Electronic Delivery Mechanism and ERCOT's alternative to FTP.

[Inactive Market Guides](#)

Find inactive Market Guides and related documents.

[Load Profiling Guide](#)

Find the responsibilities and processes associated with load profiling; and find or submit requests for changes.

[Nodal Operating Guide](#)

Find the nodal guide that describes how ERCOT will interact with qualified scheduling entities, transmission operators, resource entities and load serving entities in the nodal market; and find or submit request for revisions.

[Operating Procedures](#)

Locate ERCOT processes and procedures for reliable daily grid operation and emergency actions.

[Planning Guide](#)

View the guides that provide ERCOT stakeholders and market participants with information and documentation concerning the ERCOT transmission planning process.

[Resource Registration Glossary](#)

The Resource Registration Glossary provides the name, description and supporting information for any data field that may be required from a Resource as part of the Resource Registration process.

[Retail Market Guide](#)

Get the reference guide for the retail market's rules and structure; and find or submit requests for changes.

[Settlement Metering Operating Guide](#)

Locate the standards and procedures for ERCOT-pooled settlement (EPS) metering; and find or submit requests for changes.

[Texas Standard Electronic Transaction Guides](#)

Find the implementation guides for the Texas Standard Electronic Transaction procedures; proposed and adopted changes; and the business process lifecycle for retail transactions.

[Verifiable Cost Manual](#)

Locate the manual which describes the process for Resources to submit verifiable costs to ERCOT. View related forms for revision requests as well.

Related Content

On this site

[User Guides](#)

[ERCOT Protocols](#)

ERCOT Retail Market Guide

Section 1 – Purpose

Section 2 – Definitions and Acronyms

Section 3 – Retail Market Guide Revision Process

Section 4 – Public Utility Commission of Texas

Section 5 – Electric Reliability Council of Texas

Section 6 – Retail Market Subcommittee Working Group

Section 7 – Market Processes

Section 8 – Municipally Owned Utilities and Electric Cooperatives

Section 9 – Appendices

Section 10 – Competitive Metering

Section 11 – Solution to Stacking

Section 7 – Market Processes

Section 7.3 – *Inadvertent Gain Process*

Section 7.4 – *Safety Nets*

Section 7.5 – *Standard Historical Usage Requests*

Section 7.6 – *Disconnect and Reconnect for Non-Payment Process*

Section 7.7 – *Transaction Timing Matrix*

Section 7.16 – *Business Processes and Communications Related to
Meter Tampering*

Section 7.15 - *Advanced Meter Interval Data File Format and
Submission*

Section 7.17 – *Business Processes and Communications for Switch
Holds Related to Deferred Payment*

Section 9 Appendix D1 – Transaction Timing Matrix

Transaction	Business Process	From	To	Timing/Business Rules	Protocol Reference Section
867_03, Monthly or Final Usage	Final	TDSP	ERCOT	Within three Business days of effectuating meter read	15.1.1.7, Completion of Switch Request and Effective switch Date
867_03, Monthly or final Usage	Monthly	TDSP	ERCOT	No later than three Retail Business Days after the scheduled meter read cycle or scheduled meter cycle by day of the month for a point of delivery	15.3, Monthly Meter Reads
867_04, Initial Meter Read	Initial	TDSP	ERCOT	Within three Retail Business Days of the effectuating meter read	15.1.1.7, Completion of Switch Request and Effective Switch Date

Appendices

Section 9 Appendix D3 – *TDSP's Discretionary Service Timelines Matrix*

Section 9 Appendix G – *ERCOT Specified File Format for Submission of Interval Data for Advanced Metering Systems*

Section 11- Solution to Stacking

Section 11.1 - *Overview of Solution to Stacking*

Section 11.2 - *ERCOT Operating Rules*

Section 11.2.2 - *Cancellation Rules*

Section 11.2.3 - *Concurrent Processing Rules*

Section 11.2.4 - *Pending Transaction Rules*

Section 11.3 - *Transmission and/or Distribution Service Provider Operating Rules*

Section 11.4 - *Retail Electric Provider Operating Rules*

TX SET Guides



[Home](#) > [Market Rules](#) > [Market Guides](#) > [Texas Standard Electronic Transaction Guides](#)

Texas Standard Electronic Transaction Guides

Information on each Texas Standard Electronic Transaction (Texas SET) used by the competitive retail electric market is available in this section. Implementation guides, retail market processes for transactions and Texas SET proposed and adopted changes can be found below.

IN THIS SECTION

[Texas SET Swimlanes](#)

Find the current swimlanes, which outline the business process lifecycle for retail transactions.

[Texas Standard Electronic Transaction Issues](#)

Locate current and past Texas SET issues, including those new, under review or closed.

[Texas SET Change Controls](#)

New and Pending (Under Review) Change Controls, those that have been Approved for future Texas SET versions, as well as all Withdrawn and already Implemented Change Controls.

[Current Texas SET Implementation Guides](#)

Find the latest Texas SET guides, which provide information on the electronic transactions in the Texas retail electric market.

Related Content

On this site

- [Texas SET Working Group](#)
- [Market Coordination Team for Texas SET Version Release 4.0](#)

Key Documents

[Change Control Log](#)

This contains a log of all change controls submitted

Jan 18, 2023 - xlsx - 178.4 KB

[TXSET Change Control Dispute Form](#)

Jul 23, 2015 - doc - 38.5 KB

[Texas SET Change Control Form](#)

Form to be completed only by Texas SET Working Group

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[Texas SET Issue Form](#)

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[Transactions Names Inventory](#)

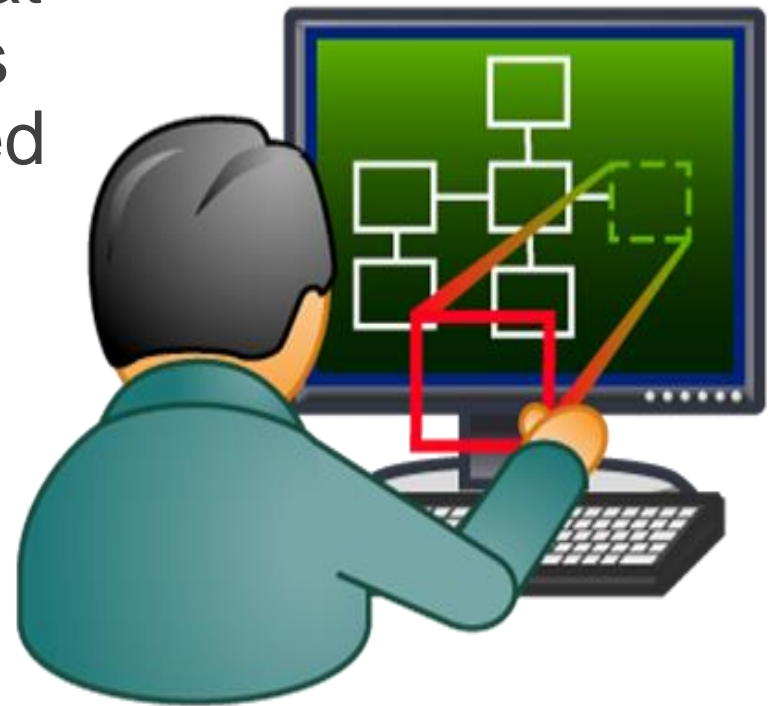
Transactions Names Inventory V4.0A

Feb 10, 2022 - xls - 63 KB

Texas SET Swimlanes

Texas Standard Electronic Transaction (SET) swimlanes are reference documents that outline the business process lifecycle for transactions used in the competitive retail electric market in Texas.

<https://www.ercot.com/mktrules/guides/txset/sw>



TX SET Swimlanes

MIS LOG IN

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[Billing Scenarios Version February 2017](#)

Feb 22, 2017 - zip - 41.6 KB

TX SET flow documentation for consolidated billing, remittance and dual billing

[Continuous Service Agreement Scenarios February 2017](#)

Feb 22, 2017 - zip - 352.2 KB

TX SET flow documentation for beginning and ending continuous service agreements (CSAs)

[Customer Move In Scenarios June 2012](#)

May 17, 2016 - zip - 188.3 KB

TX SET flow documentation for handling Move In changes and problems

[Customer Move Out Scenarios February 2017](#)

Feb 22, 2017 - zip - 143.1 KB

TX SET flow documentation for handling Move Out changes and problems

[Customer Switch Scenarios June 2012](#)

May 17, 2016 - pdf - 15.9 KB

TX SET flow documentation for handling customer switch request

[Disconnect Reconnect Non Pay Scenarios February 2017](#)

Feb 22, 2017 - zip - 131.9 KB

TX SET flow documentation for Disconnect and Reconnect for NonPay

[Mass Transition / Acquisition Scenarios September 2018](#)

Sep 25, 2018 - zip - 81.6 KB

TX SET flow documentation for customer dropped by competitive retailer (CR), reverted to AREP, disconnect for non-pay services request, and mass transition from defaulting CR to Provider of Last Resort (POLR)

[Switch Hold Scenarios June 2012](#)

Feb 5, 2016 - zip - 113.3 KB

TX SET flow documentation for handling Switch Hold add and removal

[Unplanned Outages Scenarios June 2012](#)

Feb 5, 2016 - zip - 52.9 KB

TX SET flow documentation of how to report unplanned outages

Texas SET Implementation Guides (IG)

TX SET Implementation Guides provide technical details contained within the electronic transactions used in the competitive retail electric market in Texas.

Current Version 4.0A supports PUCT Substantive Rules and market process revisions

<https://www.ercot.com/mktrules/guides/txset/version>

Market Coordination Team (MCT)

MCT is a Retail Market Subcommittee (RMS) Taskforce that is responsible for coordinating the ERCOT Retail Market's successful implementation of the next TX SET production version.

<https://www.ercot.com/committees/rms/mct>

TX SET v5.0:

What Retail functionality will be delivered?

When is the Market Flight Testing?

When is the Migration and Implementation scheduled?

TX SET v5.0 Functionality:

Creates **new IA** (Inadvertent) and **CR** (Customer Rescission) Move-In Transactional Solutions and **modifies MarkeTrak Processes** that supports the transactional solution.

“County” name added as part of the ESI ID Service Address

Creates 44 new **“Metered Service Type (MSL)”** descriptions

Adds Continuous Service Agreement **“(CSA) Start and End Dates”** that may minimize incorrect CSA CRs’ financial liability

Creates **new “CHP”** status code for **“TDSP Construction Hold”**

Replaces **“A13 Other”** with **“Specific Reject Reason”** codes

MarkeTrak Enhancements include new Subtypes, Smarter Validations and adds Complete Unexecutable Drop-down lists.

v5.0 Flight Testing and Implementation Schedule

ERCOT and Market Participants are currently conducting their internal Requirements gathering and System Design sessions.

Y2023 – Y2024: Estimated 12 -18 months for ERCOT and Market Participants Development, User Acceptance Testing (UAT), Training and Documentation.

Flight 0924 Required for All MPs for TX SET v5.0 Certification:

- Sign-Up Deadline : July 31, 2024
- Transactions Day 1: September 23, 2024
- Flight Concludes: October 18, 2024
- Flight Contingency: October 24, 2024

TX SET v5.0 Migration Weekend and Production Go-Live Plans:

- Migration Weekend: November 8, 2024 – November 10, 2024
- **Production Go-Live: Monday, November 11, 2024**
- Contingency Migration: November 15, 2024 – November 17, 2024
- **Contingency Go-Live: Monday, November 18, 2024**

TX SET Working Group

TX SET Working Group

Texas Standard Electronic Transaction (TX SET) Working Group:

Reports to the Retail Market Subcommittee (RMS)

Analyzes the need for new or modifications to existing electronic transactions

Recommends changes to retail market processes

Works with the ERCOT Flight Administrator to ensure that testing processes and procedures are defined and administered

Maintains the Texas SET Implementation Guides and the Texas Market Test Plan Guide

Collaborates with other Working Groups and Taskforces as directed by RMS

<https://www.ercot.com/committees/rms/txset>



TX SET Issue Submission Process

Formal method to initiate review of issues

Related Content

On this site

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Transactions Names Inventory Transactions Names Inventory V4.0A	Feb 10, 2022 - xls - 63 KB

Retail Market Testing

Flight Testing:

- All retail Market Participants are required to test for ERCOT certification
- Three Market flights per year
- End to End test scripts (i.e. connectivity, penny test)

Retail Market Testing

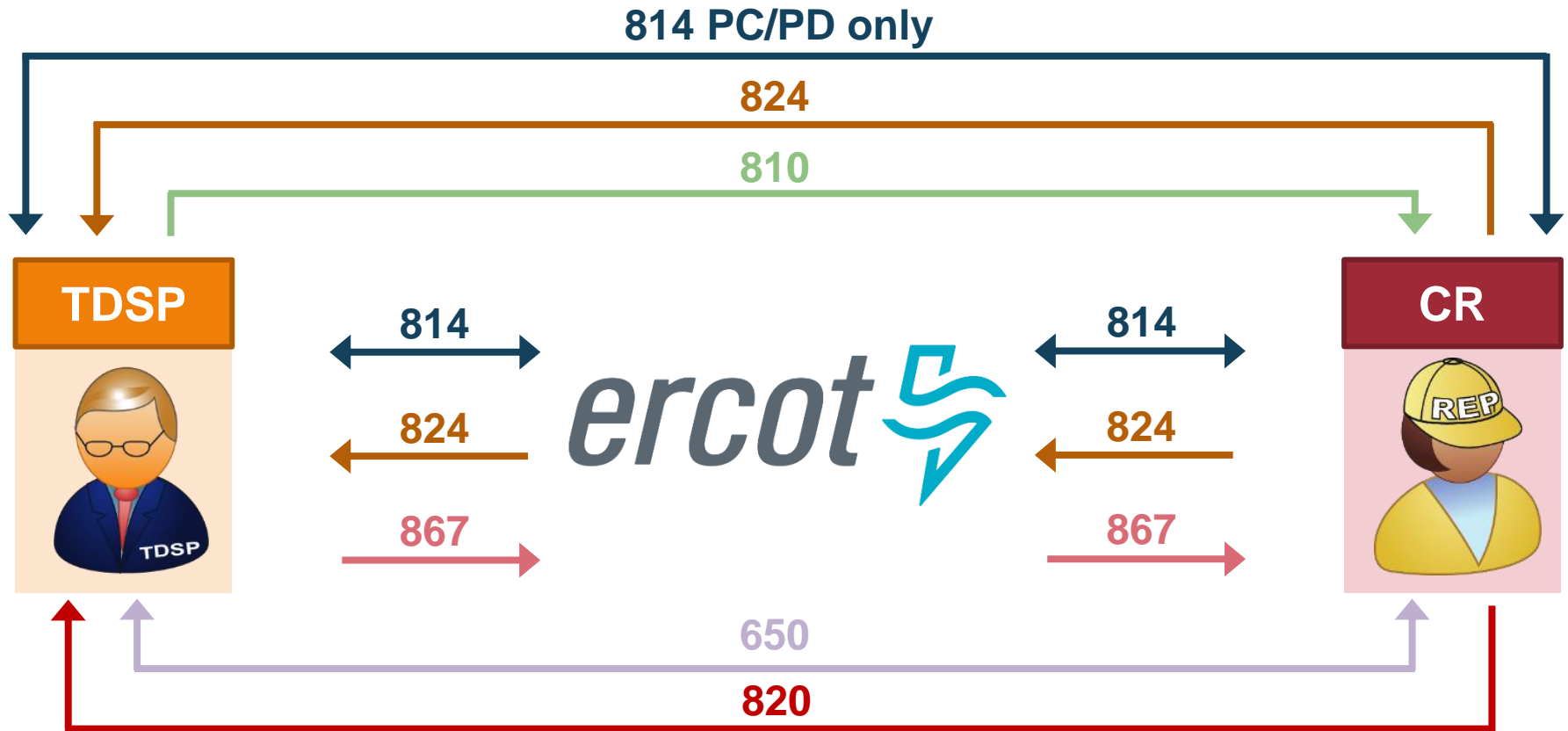
Governed by Texas Market Test Plan:







- Maintained by TX SET Working Group
- Outlines testing processes and requirements

All retail Market Participants must participate in and successfully complete testing as described in Protocol Section 19.8, Retail Market Testing, prior to commencing operations with ERCOT.

Transactions

Overview of transaction flow



-  650 – Service Orders
-  814 – ESIID info and relationships
-  824 – Rejects
-  810 – Invoice
-  820 – Remittance advice
-  867 – Usage

Texas Standard Electronic Transactions (TX SET)

Many transactions involve ERCOT

Transaction Type	Use
814 – ESI ID info and Relationships (Many flavors)	Enrollments; Switch requests; Move-Ins; Move-Outs; ESI ID Maintenance
867 – Premise Usage	Initial Meter Read; Historical/Monthly Usage; Final Usage
824 – Reject Notification	Invoice or Usage Reject Notification

Texas Standard Electronic Transactions (TX SET)

Some transactions may not involve ERCOT

Transaction Type	Use
810 – Invoice	Bills for Charges between Market Participants
820 – Payments	Payments between Market Participants
650 –Service Order Requests	Disconnects for Non-Pay; Reconnects; Switch Hold and Switch Hold Removal; Planned Outage Notification
824 – Reject Notification	Invoice or Usage Reject Notification

These are called Point-to-Point transactions and flow between TDSPs and REPs

Transaction Names

TX SET Version 4.0A – Transaction Names Inventory

- Refer to handout
- Defines the transaction name for each transaction
- Describes how the transaction flows
- Found on the ERCOT website at <http://www.ercot.com/mktrules/guides/txset>

TEXAS SET VERSION 4.0A		
814 - Request, Response, Maintenance for Enrollments, Drops, Switches, Maintenance & Request Consumption		
Trx	Definition	Flow
814_PC	Maintain Customer Information Request	CR→TDSP MOU/EC TDSP→CR
814_PD	Maintain Customer Information Response	TDSP→CR CR→MOU/EC TDSP
814_01	Switch Request	CR→ERCOT
814_02	Switch Reject Response	ERCOT→CR
814_03	Enrollment Notification Request	ERCOT→TDSP
814_04	Enrollment Notification Response	TDSP→ERCOT
814_05	CR Enrollment Notification Response	ERCOT→CR
814_06	Loss Notification	ERCOT→CR
814_08	Cancel Request	CR→ERCOT ERCOT→CR ERCOT→TDSP
814_09	Cancel Response	TDSP→ERCOT ERCOT→CR
814_11	Drop Response	ERCOT→CR
814_12	Date Change Request	CR→ERCOT ERCOT→CR ERCOT→TDSP
814_13	Date Change Response	TDSP→ERCOT ERCOT→CR
814_14	Drop Enrollment Request	ERCOT→POLR
814_16	Move In Request	CR→ERCOT
814_17	Move In Reject Response	ERCOT→CR
814_18	Establish/Delete CSA Request	CR→ERCOT
814_19	Establish/Delete CSA Response	ERCOT→CR MOU/EC TDSP→ERCOT
814_20	ESI ID Maintenance Request	TDSP→ERCOT ERCOT→CR
814_21	ESI ID Maintenance Response	ERCOT→TDSP
814_22	CSA CR Move In Request	ERCOT→CR
814_24	Move Out Request	CR→ERCOT ERCOT→TDSP
814_25	Move Out Response	TDSP→ERCOT ERCOT→CR
814_26	Historical Usage Request	CR→ERCOT ERCOT→TDSP
814_27	Historical Usage Response	TDSP→ERCOT ERCOT→CR
814_28	Complete Unexecutable or Permit Required	TDSP→ERCOT ERCOT→CR
814_29	Complete Unexecutable or Permit Required Response	ERCOT→TDSP

650* Maintenance Service Order - Work Orders, Meter Config. Details, Outage Notification		
Trx	Definition	Flow
650_01	Service Order Request	CR→TDSP
650_02	Service Order Response	TDSP→CR
650_04	Planned or Unplanned Outage Notification	TDSP→CR
810 - Statement, Settlement, Wire Charge Invoices		
810_02	TDSP Invoice	TDSP→CR
810_03	MOU/EC TDSP Invoice	CR→MOU/EC TDSP
820 - Payment and Advice through Bank		
820_02	CR Remittance Advice	CR→TDSP
820_03	MOU/EC TDSP Remittance Advice	MOU/EC TDSP→CR
824 - Reject Response to 810 or 867 Data - O		
824	Invoice or Usage Reject Notification	CR→TDSP CR→ERCOT ERCOT→TDSP
867-Interval, Non Interval, Reads & Consumption Data Historical and Monthly Activity		
867_02	Historical Usage	TDSP→ERCOT ERCOT→CR
867_03	Monthly or Final Usage	TDSP→ERCOT ERCOT→CR
867_04	Initial Meter Read	TDSP→ERCOT ERCOT→CR
T Series		
T0	Option 1 Outages: Outage Status Request	CR→TDSP
T1	Option 1 Outages: Trouble Reporting Request	CR→TDSP
T2	Option 1 Outages: Trouble Report Acknowledgement	TDSP→CR
T3	Option 1 Outages: Status Response	TDSP→CR
T4	Option 1 Outages: Trouble Completion Report	TDSP→CR

Transaction Names – 650_01 Service Orders

The following Purpose Codes can only be used when requesting the associated Transaction Type Code as noted below:

Purpose Codes Beginning With:

DC	use only when BGN07 = 72	Disconnect
FI	use only when BGN07 = XZ	Facilities Investigation
GL	use only when BGN07 = AN	Lighting
SL	use only when BGN07 = AN	Lighting
RC	use only when BGN07 = 79	Reconnect
ME	use only when BGN07 = KH	Meter Exchange
MT	use only when BGN07 = 38	Meter Test
MM	use only when BGN07 = 13	Meter Maintenance
RD	use only when BGN07 = RD	Read (Out of Cycle)
SH	use only when BGN07 = SH	Switch Hold Indicator
TE	use only when BGN07 = IN	Technical Environmental

Required on all 650_01 Service Request, if CR does not provide a Purpose Code TDSP will reject the transaction

From 650_01 Implementation guide.

There are 80 REF segments to identify the purpose of the 650 Service Order based on the above 11 codes

Option 1 vs Option 3 REP

REPs will designate Option 1, 2, or 3 on their Delivery Service Agreement with each TDSP on the following:

OPTION	REPORTING OF OUTAGES OR SERVICE REQUESTS
1	REP directs customers to contact REP, REP contacts TDSP via transaction
2	REP directs customers to contact REP, REP forwards calls to TDSP
3	REP directs customers to contact TDSP, REP provides TDSP phone number to customers

Move-In vs Switch - Differences

	Move In – 814_16	Switch – 814_01
Definition	Customer requesting service connected in their name at either a new or an existing premise.	The process by which the current Customer makes a request to change their REP of Record for their ESI ID(s).
Timing & Costs	Move In fees and potential delays could be encountered	No fees (Standard Switch, if applicable) Allows for same day request and completion
Rescission	Not applicable	Customer has the right to rescind their decision within 3 Federal business days
Occupant Permit	Required for some municipalities/cities	Not required
Critical Care and Chronic Condition	Designation will be terminated due to New Customer MVI <ul style="list-style-type: none"> Critical Care and Chronic Condition status' are associated to the Customer and not the Premise 	No change to status
Billing Demand Reset	Demand Ratchet resets	No impact to Billing Demand
4CP (Coincident Peak)	4CP demand resets	No change to 4CP demand
Non-standard Metering Premise	Meter is replaced with Standard meter and additional charge(s) to Customer if requested to re-install non-standard meter	No change
Smart Meter Texas (SMT)	Customer's Enrollment associated to Service Address and ESI ID is disabled. Customer will be required to reapply only with the assistance of SMT Help Desk	No change to SMT Enrollment status

Transactions Initiating Business Process Instance

Initiating Business Process Instance (BPI)

- Move In 814_16
- Switch 814_01
- Move Out 814_24

The business processes listed above will start or end a REP's relationship with their customer.

Transactions Initiating Business Process Instance

Business process instances may be closed as Completed or Cancelled.

Cancelled transactions may be a result of:

- Cancel Request 814_08
- Complete Unexecutable 814_28 CU

814_28 Complete Unexecutable or Permit Required

Permit Required (PR)	Complete Unexecutable (CU)
<ul style="list-style-type: none">• TDSP notifies CR via ERCOT• Permit is required in order to complete enrollment• TDSP typically will <u>not</u> send an 814_04 scheduling response until permit is received• ERCOT holds enrollment for up to 20 Retail Business Days	<p>TDSP unexecutes the initiating transaction with the appropriate code</p> <ul style="list-style-type: none">• construction• miscellaneous/unsafe• transactional process

Sample 814_28 CU codes

T017	Customer Requested Clearance - Unable to do work on date requested
T018	Other Requires explanation in REF03
T019	Tampering
T021	Competitive Retailer in Default
T022	Force Majeure Event
T023	Move-Out transaction (814_24) was treated as a force off since (814_03) Move-In transaction received by the TDSP was scheduled for the same date.
T024	Switch or Move-In Request cannot be completed due to Switch Hold recently applied to this ESI ID
T025	Competing Transaction Scheduled for Same Date

Monthly or Final Usage and TDSP Invoice

867_03 Monthly or Final Usage

- TDSP to ERCOT to CR
- Monthly or Final usage
- Only the 867_03F will appear in MIS
- Meter consumption data for invoicing
 - Start / End dates
 - Starting / Ending Register Reads
 - Summary KWh for NIDR meters (AMS meters)
 - Interval KWh for IDR meters
 - kW / kVAR values, if applicable
 - Actual or estimated
 - Distributed generation loop

810_02 TDSP Invoice

- Point to point transaction
- Invoice from TDSP to CR
 - Start / End dates
 - Rate Classification Code
 - Line item delivery charges
 - SAC04 code
 - Billing determinant (rate)
 - Explanation of charge
 - Non-discretionary charges - TCRF, Customer charge, etc.
 - Discretionary service charges - MVI, DNP fees, etc.

867_03 and 810_02 are usually paired to trigger CR customer billing

Checkpoint Questions

True or False: Response transactions can only be Rejects.

True or False: A point-to-point transaction is sent only to ERCOT.

Checkpoint Questions

What transaction is used to determine the actual start date for a customer?

- a) 814_04
- b) 814_16
- c) 867_04
- d) 814_01

Checkpoint Question

Which transaction changes the meter and/or meter information?

- a) 814_09
- b) 814_18
- c) 814_26
- d) 814_20

Transaction Process Flow

Move In (MVI) – Reject

New CR

ERCOT

Move In – Accept

New CR

ERCOT

TDSP

Move In w/ Permit Required – New Installation

New CR

ERCOT

TDSP

Move In w/ Permit Not Received

New CR

ERCOT

TDSP

Move In w/ Cancel

New CR

ERCOT

TDSP

Move In w/ Date Change

New CR

ERCOT

TDSP

Current
CR

Checkpoint Questions

Yes or No: If a MVI order is submitted and an 814_28 PR is received, does it cancel the original MVI order if the permit is received within 20 Retail Business days?

Yes or No: If a MVI order is submitted and an 814_28 PR is received and then later an 814_08 is received, should the CR receive an 867_04?

Yes or No: Based on the scenario in the previous question, should the CR expect this customer to be with the submitting CR?

Switch – Rejected

New CR

ERCOT

TDSP

Current
CR

Switch – Accept

New CR

ERCOT

TDSP

Current
CR

Switch Hold – Add – Deferred Payment Plan (DPP)

Current CR

ERCOT

TDSP

Switch Hold – Add - Tampering

Current CR

ERCOT

TDSP

Switch Hold – Remove – DPP / Tampering

Current CR

ERCOT

TDSP

Switch w/ Switch Hold

New CR

ERCOT

TDSP

Checkpoint Questions

What transaction does the TDSP receive when an 814_01 or 814_16 is initiated?

- a) 867_04
- b) 814_03
- c) 867_03
- d) 814_04

Checkpoint Questions

A Customer Loss (814_06) transaction is sent to which entity?

- a) Current REP of Record
- b) TDSP
- c) ERCOT
- d) New CR

Move Out (MVO) – Reject

Current CR

ERCOT

TDSP

Move Out – Accept

Current CR

ERCOT

TDSP

Checkpoint Questions

True or False: If a Switch Hold exists on an ESIID, a MVO transaction (814_24) will automatically reject.

Checkpoint Questions

A date change transaction (814_12) is sent to change the date for which transactions? Select all that apply.

- a) 814_01
- b) 814_05
- c) 814_08
- d) 814_16
- e) 814_18
- f) 814_24

Solution to Stacking – *RMG Section 11.1*

Solution to Stacking, provides the processes and guidelines for Market Participants operating in the Texas retail market to handle multiple non-sequential Texas Standard Electronic Transactions (TX SETs) on a single Electric Service Identifier (ESI ID)

These include:

- ERCOT Operating Rules
- TDSP Operating Rules
- REP Operating Rules

ERCOT Rejection Operating Rules

Scheduled	New Transaction	Rejected for Not First In
Move in	Move in	Yes
Move in	Self-selected switch	Yes
Move in	Move out	No
Move in	Standard switch	No
Move out	Move in	No
Move out	Self-selected switch	Yes
Move out	Move out	Yes
Move out	Standard switch	No
Switch	Move in	No
Switch	Self-selected switch	Yes
Switch	Move out	No
Switch	Standard switch	No
Mass Transition drop	Move in	No
Mass Transition drop	Self-selected switch	No
Mass Transition drop	Move out	No
Mass Transition drop	Standard switch	No
Acquisition Transfer	Move in	No
Acquisition Transfer	Self-selected switch	No
Acquisition Transfer	Move out	No
Acquisition Transfer	Standard switch	No

ERCOT Operating Rule Examples

Cancellation Rules –

- MVI / MVO trumps SWI (Rule 7)
- MVI trumps MVO w/ same date (Rule 8)

Concurrent Processing Rules –

- Multiple MVIs w/ different dates (Rule 12)
- Multiple SWI w/ different dates (Rule 13)

Pending Transactions –

- 814_06 Loss Notification (Rule 15)
- 814_22 CSA – upon receipt of MVO, enrollment will be sent to CSA holder (Rule 17)

ERCOT Operating Rule 4

MVO trumps SWI

ERCOT will reject a Switch Request if the ESI ID is scheduled to be De-energized at ERCOT on the Requested Date.



COWBOYS ENERGY will need to submit a MVI (814_16) in order to enroll their customer.

TDSP and REP Operating Rule Examples

TDSP Operating Rule 8 –

- Non-coordinated (not previously communicated) Back-dated MVIs will be rejected – TDSP must be “ready to receive”

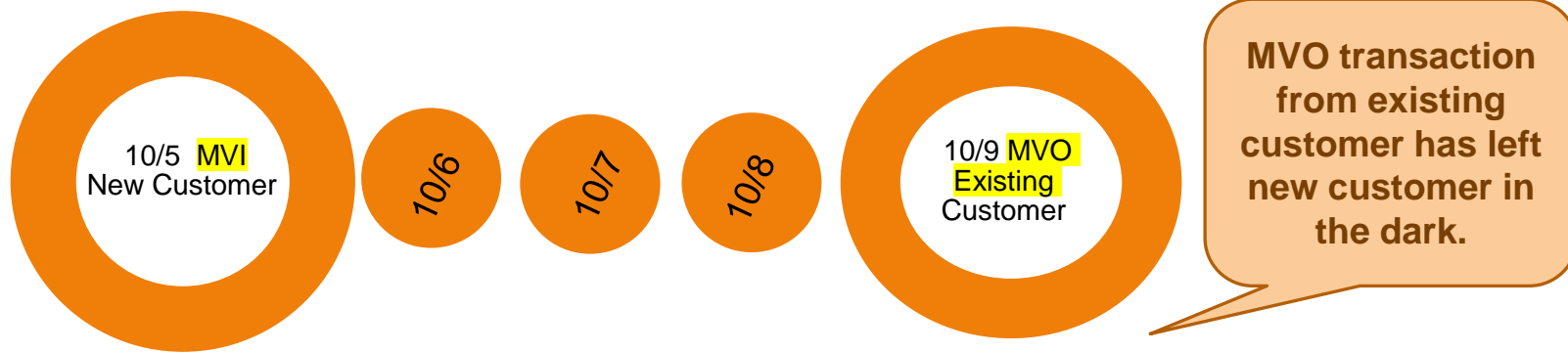
REP Operating Rule 13 –

- CSA Bypass Code – ‘2W’ only to be used by CSA holder on a MVO request

REP Operating Rules

RMG 11.4.1 REP Operating Rule 1: Cancel Move Out

REPs who have a Pending move out and submit a move in (same REP) with an earlier Requested Date are responsible for canceling the Pending move out if that is what the Customer requires (REP manages Customer expectations). If the REP does not cancel the move out, the move out will be allowed to effectuate.



If a REP enrolls a new customer at the same premise and an existing customer has a future dated MVO, if the REP fails to cancel the future dated MVO, the MVO will be executed leaving the new customer in the dark

Checkpoint Question

A MVI is submitted and scheduled by OILERS ENERGY and then another MVI is submitted later by COWBOYS ENERGY requesting the same day. Which entity would receive an 814_17 Not First In (NFI) reject?

- a) TDSP
- b) ERCOT
- c) OILERS ENERGY
- d) COWBOYS ENERGY

Checkpoint Question

Which entity is responsible for sending an 814_08 cancel when there is a MVO for Customer A pending for 5/5 and a MVI for Customer B pending for 5/1, both with the current REP?

- a) TDSP
- b) ERCOT
- c) Current REP
- d) Another REP

Checkpoint Question

Which entity is responsible for sending an 814_08 cancel when there is a MVO for Customer A pending for 5/5 and a MVI for Customer B pending for 5/5 both with different REPs?

- a) TDSP
- b) ERCOT
- c) REP for Customer A
- d) REP for Customer B

Checkpoint Question

What transaction is used to determine the actual end date of a customer?

- a) 814_24
- b) 814_01
- c) 867_03F
- d) 814_22

Move Out to Continuous Service Agreement (CSA)

CSA CR

ERCOT

TDSP

Current
CR

Checkpoint Question

What does CSA mean?

- a) Continuous Service Arrangement
- b) Continued Service Arrangement
- c) Continuous Service Agreement
- d) Country Served Agreement

Checkpoint Question

If there is a Continuous Service Agreement and the customer moves out what transaction places the service back with the CSA?

- a) 867_04
- b) 814_18
- c) 814_01
- d) 814_22

Disconnect for Non-Pay (DNP)*

Current CR

ERCOT

TDSP

* Does not apply to MOU/EC

Reconnect after DNP*

Current CR

ERCOT

TDSP

* Does not apply to MOU/EC

Checkpoint Question

What transaction is necessary in order to re-connect a customer after a disconnect for non-payment or cancel a pending disconnect for non-payment?

- a) 650_02
- b) 814_08
- c) 650_01
- d) 814_16

Acquisition Transfer vs. Mass Transition Process

What is Acquisition Transfer (“AQ”)?

*Is the transfer of ESI IDs from the Current CR to another CR(s) as a result of an acquisition pursuant to **P.U.C. SUBST. RULE 25.493**.*

- *Example: CR selling some or all ESI IDs to another CR and ERCOT is requested to initiate this process. CR selling may continue to be Certified in the Retail Market.*
- *Note: Not all mergers and acquisitions will utilize this process.*

What is a Mass Transition (“TS”)?

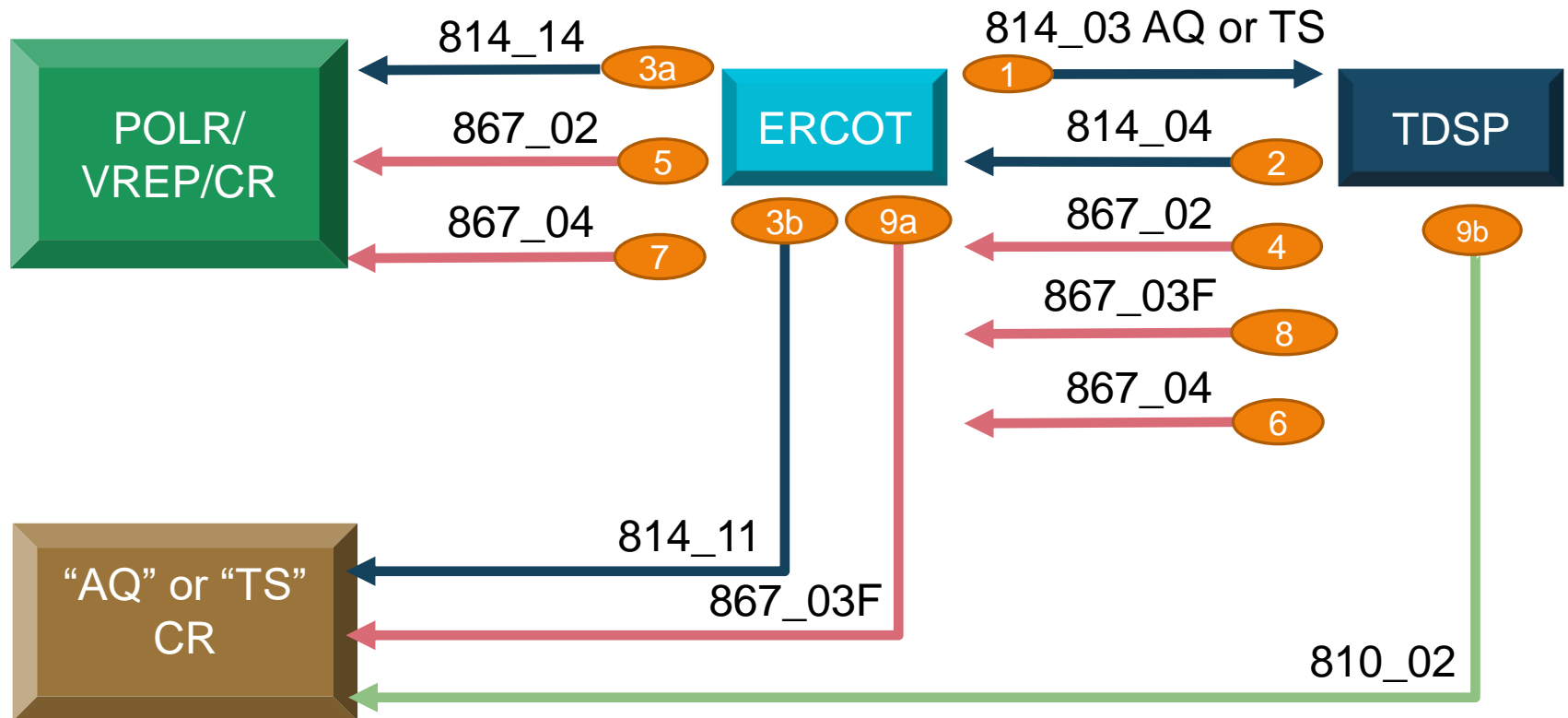
*Is the expeditious transfer large numbers of ESI IDs from one Market Participant (MP) to another pursuant to **P.U.C. SUBST. RULE 25.43**.*

- *Examples: Voluntary or Involuntary Decertification, Bankruptcy, or CR Defaulted on their Financial Obligations to ERCOT. **CR is Decertified or no longer Active MP!***

Both the “AQ” or “TS” processes:

- *Utilizes TX SET 814_03 either “AQ” or “TS” transaction initiated by ERCOT;*
- *Transfers REP of Records’ responsibilities for affected ESI IDs in a manner that protects the continuity of service to Customers;*
- *Allows for the honoring of Customer’s Choice to Switch (814_01) to their chosen Competitive Retailer.*

Acquisition Transfer (“AQ”) or Mass Transition (“TS”) Transaction Flow Process














MIS Portal

Market Information System

Application Library

These are the applications available based on your Digital Certificate's permissions.

 Create Enrollment Used by Competitive Retailers (CRs) to begin a non-EDI transa...	 Create Move In Used by Competitive Retailers (CRs) to begin a non-EDI transa...	 Create Move Out Used by Competitive Retailers (CRs) to submit a non-EDI trans...
 Delete CSA Used by Competitive Retailers (CRs) to submit a non-EDI trans...	 Establish CSA Used by New Competitive Retailers (CRs) to submit a non-EDI t...	 Extract Subscriber Subscribe/unsubscribe to/from specific certified retail and s...
 Find ESIID Find Electric Service Identifier (ESI ID) information.	 Find Transactions Find business process transactions by Electric Service Identi...	 MarkeTrak MarkeTrak tracks, manages, and stores data for ERCOT Market P...
 Market Data Transparency Web Services Self-service data request access for a subset of AMS, Service...	 Renewable Energy Credits Link to Texas Renewable Energy Credits (REC) website.	

 Help

Find ESI ID

Find ESI ID Information ?

Enter ESI ID #

Show all ESI IDs for this premise

Clear Find

Find ESI ID Information for Multiple ESI IDs ?

Enter ESI ID #s

Upload ESI ID #s
Choose File No file chosen

Show all ESI IDs for each premise

Please limit number of ESI IDs to fewer than 500.

Clear Find

Find ESI ID Information by Premise Address ?

Street Address Line 2

* City State TX * ZIP USPS Melissa Data

Premise Type All Hide Inactive

* City or ZIP is required.

Clear Find

Additional information is accessed via an ESI ID #
Or
An address can be used to find the ESI ID number serving that premise

An asterisk (*) serves as a wildcard for address search

Find ESI ID – Additional information

ESI ID Detail: 100000000000000000

REP of Record as of: Jun 12, 2018

[View Transactions](#) [Print Details](#) ?

Address 1111 W Pwky Ste 100
Grand Prairie, TX 75050

Current Status	Active	Utility Name	ONCOR ELECTRIC DELIVERY COMPANY LLC (TDSP)	ESI ID Eligibility Date	Jul 23, 2001
Effective Date	Jan 01, 1971	DUNS #	10000000000000	ESI ID Start Date	Jan 01, 1971
Premise Type	Small Non-Residential			ESI ID Create Date	Apr 25, 2001
POLR Customer Class	Small Non-Residential	Metered Flag	true	ESI ID Retired Date	
Settlement AMS Indicator	true	Meter Read Cycle	09		
Switch Hold	N	Power Region	ERCOT		
TDSP AMS Indicator	AMSM	Station Name	SHADY GROVE TU		
		Station Code	SHDYG		

Settlement AMS Indicator – ‘true’ if AMS meter has been provisioned and ERCOT is settling on AMS interval data vs deemed profile data

TDSP AMS Indicator – indicates if AMS meter is remote or manual; if NULL, it either unmetered, NIDR, or a true IDR meter

Metered Flag – ‘true’ if metered premise, ‘false’ if unmetered premise

ESI ID Dates

Eligibility Date – first possible date a Switch can be initiated

Start Date – Date CR became Rep of Record, won’t appear for non-ROR ESIs

Create Date – Date ESI ID was created

Retired Date – Date ESI ID was retired

Find Transactions

Find Business Process Transactions for Single ID

* Enter ESI ID # * Enter Orig Trxn #

From Through

Show Open Show Latest

Note that selection of a date range greater than one year in the past may not return as quickly or include transactions from current day.

* ESI ID # or Orig Trxn # is required.

Find Business Process Transactions for Single ID

* Enter ESI ID # * Enter Orig Trxn #

From Through

Show Open Show Latest

Note that selection of a date range greater than one year in the past may not return as quickly or include transactions from current day.

* ESI ID # or Orig Trxn # is required.

Find Business Process Transactions for Multiple ESI IDs

Enter ESI ID #s

Upload ESI ID #s

From Through

Show Open Show Latest

Note that selection of a date range greater than one year in the past may not return as quickly or include transactions from current day.

Please limit number of ESI IDs to fewer than 500.

Use drop down arrow features to specify dates for the historical transactions needed.

Default will be only the last seven months of activity and maximum of 5 years.

Find Transactions – MVI w/ permit required

Transaction Summary for ESI ID: E SIID 06206206206206206

CSA Established: REP of Record: Oct 01 2012

[Download Results](#) [Print Summaries](#) ?

Move In

Status: **In Review** Original Trxn #: OTIDMV10627080825159753KT

Type	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_16	LSE_2	ERCOT	Accept	Jun 29 2018		No
814_03	ERCOT	TDSP	Accept	Jun 29 2018		No
814_28	TDSP	ERCOT	Accept			No
814_28	ERCOT	LSE_2	Accept			No

1st Unknown 814_20 Process

Status will remain *In Review* until TDSP sends 814_04 to ERCOT scheduling the order

Details: 814_16 [Print Details](#) ?

From	REP2	To	ERCOT
DUNS #	111111112	DUNS #	183529049
Request Submitted	20180627	Service ZIP	77001
Trxn Ref #	OTIDMV10627080825159753KT	Status/Action	Request Addition
Orig Trxn Ref #		Priority Code	
Request Type	Move In Historical Interval Usage	Special Needs ?	N
Billing Type	ESP	Move In Date	20180629
Bill Calc Code	DUAL	Permit Name	
Special Instructions			
CUSTOMER INFORMATION			
Contact Name	MR BUNGLE	Billing Name	
Phone	8005551212	Address	
Notification Name	MR BUNGLE		
Address	22 Space Invaders Blvd HOUSTON, TX		

Customer information is contact information – not necessarily premise address

Find Transactions – MVO w/ date change & cancel

Transaction Summary for ESI ID: E SIID 0620606206206206206

Download Results Print Summaries ?

CSA Established: REP of Record: Oct 01 2012

Move Out

Status: Cancelled Original Trxn #: OTIDMVO10627081112KT264

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	LSE_2	ERCOT	Jun 27, 2018 0939 AM	Accept	Jul 02 2018		No
814_24	ERCOT	TDSP	Jun 27, 2018 0939 AM	Accept	Jul 02 2018		No
814_25	TDSP	ERCOT	Jun 27, 2018 0953 AM	Accept	Jul 02 2018		No
814_25	ERCOT	LSE_2	Jun 27, 2018 0953 AM	Accept	Jul 02 2018		No
814_12	LSE_2	ERCOT	Jun 27, 2018 0956 AM	Accept	Jun 29 2018		No
814_12	ERCOT	TDSP	Jun 27, 2018 0957 AM	Accept	Jun 29 2018		No
814_13	TDSP	ERCOT	Jun 27, 2018 1000 AM	Accept	Jun 29 2018		No
814_13	ERCOT	LSE_2	Jun 27, 2018 1001 AM	Accept	Jun 29 2018		No
814_08	LSE_2	ERCOT	Jun 27, 2018 1002 AM	Accept			No
814_08	ERCOT	TDSP	Jun 27, 2018 1003 AM	Accept			No
814_09	TDSP	ERCOT	Jun 27, 2018 1005 AM	Accept			No
814_09	ERCOT	LSE_2	Jun 27, 2018 1006 AM	Accept			No

Customer requests to change the MVO date from 7/2 to 6/29 on 6/27. Both ERCOT & TDSP accept the change.

Details: 814_13 Print Details ?

From	TDSP1	To	ERCOT
DUNS #	666666666	DUNS #	183529049
Response Submitted	20180627		
Trxn Ref #	TRANID81413MVO10627081114UR	Status/Action	Accept Change
Orig Trxn Ref #	OTIDMVO10627081112KT264	Iteration Counter	2018062708111411
Reason			

Find Transactions – MVO w/ date change & cancel – cont.

Transaction Summary for E SI ID: E SIID 0620606206206206206

Download Results Print Summaries ?

CSA Established: REP of Record: Oct 01 2012

Move Out

Status: **Cancelled** Original Trxn #: OTIDMVO10627081112KT264

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	LSE_2	ERCOT	Jun 27, 2018 0939 AM	Accept	Jul 02 2018		No
814_24	ERCOT	TDSP	Jun 27, 2018 0939 AM	Accept	Jul 02 2018		No
814_25	TDSP	ERCOT	Jun 27, 2018 0953 AM	Accept	Jul 02 2018		No
814_25	ERCOT	LSE_2	Jun 27, 2018 0953 AM	Accept	Jul 02 2018		No
814_12	LSE_2	ERCOT	Jun 27, 2018 0956 AM	Accept	Jun 29 2018		No
814_12	ERCOT	TDSP	Jun 27, 2018 0957 AM	Accept	Jun 29 2018		No
814_13	TDSP	ERCOT	Jun 27, 2018 1000 AM	Accept	Jun 29 2018		No
814_13	ERCOT	LSE_2	Jun 27, 2018 1001 AM	Accept	Jun 29 2018		No
814_08	LSE_2	ERCOT	Jun 27, 2018 1002 AM	Accept			No
814_08	ERCOT	TDSP	Jun 27, 2018 1003 AM	Accept			No
814_09	TDSP	ERCOT	Jun 27, 2018 1005 AM	Accept			No
814_09	ERCOT	LSE_2	Jun 27, 2018 1006 AM	Accept			No

Details: 814_08 Print Details ?

From	REP2	To	ERCOT
DUNS #	111111112	DUNS #	183529049
Request Submitted	20180627		
Trxn Ref #	TRANID81408MVO10627081114CA	Status/Action	Request Cancellation
Orig Trxn Ref #	OTIDMVO10627081112KT264	Reason	B40
Transfer Type			

Customer now requests to cancel the MVO scheduled for 6/29 on 6/27. Both ERCOT & TDSP accept the cancellation.

Reason for cancellation can be found in the hyperlink.

Find Transactions – MVO to CSA

Customer at premise issues a MVO which activates the CSA. Notification is sent to CSA holder (814_22).

Premise information is provided in the 814_04 and 814_22 including load profile, meter cycle, TDSP Rate Class, and meter information.

Transaction Summary for E SI ID: E SIID 0620606062060620620

Download Results Print Summaries ?

CSA Established: Oct 01 2012 REP of Record: Jun 27 2018

Move Out to CSA

Status: Complete Original Trxn #: OTIDMVQ2CSA 10627081327KT92

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	LSE_2	ERCOT	Jun 27, 2018 0939 AM	Accept	Jun 27 2018		No
814_03	ERCOT	TDSP	Jun 27, 2018 0939 AM	Accept	Jun 27 2018		No
814_04	TDSP	ERCOT	Jun 27, 2018 1007 AM	Accept	Jun 27 2018		No
814_25	ERCOT	LSE_2	Jun 27, 2018 1007 AM	Accept	Jun 27 2018		No
814_22	ERCOT	LSE_1	Jun 27, 2018 1008 AM	Accept	Jun 27 2018		No
867_03	TDSP	LSE_2	Jun 27, 2018 1011 AM	Accept			No

1st Unknown 814_20 Process

Details: 814_22 Print Details ?

From	ERCOT	To	LSE_1
DUNS #	183529049	DUNS #	111111111
Request Submitted	20180627	Status/Action	Request Addition
Trxn Ref #	SBM0201806271007441VG81L8	Orig Trxn Ref #	OTIDMVQ2C SA10627081327KT92
TDSP Name	ERCOTT EST _TDSP	Station ID	ST1
DUNS #	666666666	Special Needs?	N
TDSP AMS Indicator	AMSR	Special Needs Code	
		Special Needs Expiration Date	
METER 1 INFORMATION			
Meter Number	SMOKET EST	Qualifier	Meter Information
Meter Type	KHMON	TDSP Rate Class	00
Load Profile	BUSLOLF_WEST_NIDR_NWS_NOTOU	Meter Reading Cycle	21
Meter Cycle by Day of Month			
Unmetered Services			
Service Type	Description	Number of Devices	
Metered Services			
Time of Use	Meter Type	Meter Multiplier	Number of Dials
Totalizer	KHMON	1.0	4.0
SPECIAL NEEDS INFORMATION			
Emergency Contact Name			
Emergency Contact Telephone Primary			
Emergency Contact Telephone Other			
Emergency Contact Address			

Find Transactions – MVO trumps SWI

Transaction Summary for E SI ID: E SIID 0733333333333333333

CSA Established: REP of Record: Oct 01 2012

Download Results Print Summaries ?

Move Out
Switch

Status: Cancelled Original Trxn #: OTIDSW10731112023SC814041

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_01	LSE_1	ERCOT	Jul 31, 2018 11:28 AM	Accept	Aug 02 2018		No
814_03	ERCOT	TDSP	Jul 31, 2018 11:28 AM	Accept	Aug 02 2018		No
814_04	TDSP	ERCOT	Jul 31, 2018 11:30 AM	Accept	Aug 02 2018		No
814_05	ERCOT	LSE_1	Jul 31, 2018 11:30 AM	Accept	Aug 02 2018		No
814_06	ERCOT	LSE_2	Jul 31, 2018 11:31 AM	Accept	Aug 02 2018		No
814_08	ERCOT	TDSP	Jul 31, 2018 11:48 AM	Accept			No
814_08	ERCOT	LSE_1	Jul 31, 2018 11:48 AM	Accept			No
814_08	ERCOT	LSE_2	Jul 31, 2018 11:48 AM	Accept			No

1st Unknown 814_20 Process

Customer issues a SWI on 7/31 for 8/2.

Details: 814_06

Print Details ?

From	ERCOT	To	ERCOTTEST_L SE_2
DUNS #	183529049	DUNS #	111111112
Request Submitted	20180731		
Trxn Ref #	SB9W201807311131151VJ6T YT	Status /Action	Request Delete
Orig Trxn Ref #	OTIDSW10731112023SC814041	Reason	CHA
Service Period End	20180802		

ERCOT will send a loss notification to the Losing REP - an 814_06 with a **CHA** indicating 'customer changed to another CR'

Find Transactions – MVO trumps SWI

Transaction Summary for E SI ID: E SIID 07333333333333333333

Download Results Print Summaries ?

CSA Established: REP of Record: Oct 01 2012

Move Out

Status: scheduled Original Trxn #: OTDMVO20731112024988523AN

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	LSE_2	ERCOT	Jul 31, 2018 11:35 AM	Accept	Jul 31 2018		No
814_24	ERCOT	TDSP	Jul 31, 2018 11:35 AM	Accept	Jul 31 2018		No
814_25	TDSP	ERCOT	Jul 31, 2018 11:46 AM	Accept	Jul 31 2018		No
814_25	ERCOT	LSE_2	Jul 31, 2018 11:46 AM	Accept	Jul 31 2018		No

Switch

1st Unknown 814_20 Process

Existing REP issues MVO for customer – customer possibly indicated they wanted to “cancel their service” with their current REP.

ERCOT will review any pending transactions two retail *business* days prior to the effectuating date.

Find Transactions – MVO trumps SWI

Transaction Summary for E SI ID: E SIID 07333333333333333333

CPA Published: REP of Record: Oct 01 2012

Download Results Print Summaries ?

Move Out

Switch

Status: Cancelled Original Trxn #: OTIDSW 1073112023SC814041

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_01	LSE_1	ERCOT	Jul 31, 2018 11:28 AM	Accept	Aug 02 2018		No
814_03	ERCOT	TDSP	Jul 31, 2018 11:28 AM	Accept	Aug 02 2018		No
814_04	TDSP	ERCOT	Jul 31, 2018 11:30 AM	Accept	Aug 02 2018		No
814_05	ERCOT	LSE_1	Jul 31, 2018 11:30 AM	Accept	Aug 02 2018		No
814_06	ERCOT	LSE_2	Jul 31, 2018 11:31 AM	Accept	Aug 02 2018		No
814_08	ERCOT	TDSP	Jul 31, 2018 11:48 AM	Accept			No
814_08	ERCOT	LSE_1	Jul 31, 2018 11:48 AM	Accept			No
814_08	ERCOT	LSE_2	Jul 31, 2018 11:48 AM	Accept			No

1st Unknown 814_20 Process

With the submittal of the 814_24 MVO, ERCOT proceeds to cancel the 814_01 SWI with an 814_08

Details: 814_08

Print Details ?

From	ERCOT	To	TDSP
DUNS #	183529049	DUNS #	696686866
Request Submitted	20180731		
Trxn Ref #	SB SW 201807311147311V J6U5P	Status/Action	Request Cancellation
Orig Trxn Ref #	OTIDSW1073112023SC814041	Reason	CCE
Transfer Type			

814_08 is coded CCE –Cancelled due to Move Out

The REP will now have to submit an 814_16 MVI to energize the premise.

TX SET Implementation Guides

TX SET Implementation Guides w/ Examples

814_20 EDI transaction guide

Segment: **REF** Reference Identification (ESI ID)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

This section is used to show the X12 Rules for this segment. You must look further into the grayboxes below for Texas Rules.

Required
 REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPS

This section is used to show the Texas Rules for implementation of this segment.

		Data Element Summary		
	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification Q5 Property Control Number Electr Service Identifier (ESI ID)	M ID 2/3
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content ESI ID	X AN 1/80

One or more

This column shows the Texas use of each data element.

These are X12 code descriptions, which often do not relate to the Texas descriptions. X12 cannot keep up with Texas needs, thus, Texas often changes the meaning of existing codes. See the corresponding graybox for the Texas definitions.

This column shows the X12 attributes for each data element.

M = Mandatory
 O = Optional
 X = Conditional

 AN = Alphanumeric
 N# = Implied Decimal at position #
 ID = Identification
 R = Real

 1/30 = Minimum 1, Maximum 30

TX SET Implementation Guides w/ Examples

814_20 EDI transaction example – meter exchange

June 11, 2012

T814_20: ESI ID Maintenance Request
Version 4.0

814_20 Example #2 of 10

Maintain ESI ID Notification Request – ERCOT to Current CR

ERCOT forwards meter exchange data the Current CR Example includes a meter exchange to an AMS meter with remote disconnect / reconnect capabilities and a change in Load Profile as a result of the Meter Exchange ERCOT stores the Load Profile change and forwards the all information to CR	
ST~814~000000001	Transaction Type, Transaction SET Control Number
BGN~13~200805101201001~20090701~200805101956534~20	Request, Unique Transaction Number, Transaction Date, Original Transaction ID, SET Transaction Number
N1~8S~TDSP NAME~1~009876543	TDSP Name and DUNS Number
N1~AY~ERCOT~1~183529049~41	ERCOT Name and DUNS Number, Sender
N1~SJ~CR NAME~1~987654321~40	CR Name and DUNS Number, Receiver
LIN~1~SH~EL~SH~MP	Maintenance Request
ASI~7~001	Request to Change ESI ID Information
REF~MR~AMSR	AMS Indicator
REF~Q5~12345678910111231	ESI ID
REF~TD~REFMR	Reason for Change, AMS Indicator
DTM~152~20120629	Effective Date of Change
NM1~MX~3~32~MTR012345	Meter Exchange, New Meter Number
REF~46~MTR987654	Old Meter Number
REF~LO~RESLOWR_WEST_IDR_WS_NO TOU	Load Profile
REF~MT~KHMON	Meter Type
REF~Q2~0~KHMON~TU>51	Start Meter Read
REF~Q3~6896~KHMON~TU>51	End Meter Read
REF~4P~1~KHMON~TU>51	Meter Multiplier, Total
REF~IX~5~KHMON~TU>51	Number of Dials, Total
REF~TD~REFLO	Reason for Change, Load Profile
SE~21~000000001	Number of Segments, Transaction SET Control Number

Electronic Data Interface (EDI) Transactions

```
ISA*00*          *00*          *01*666666666        *01*183529049        *001201*0030*U*00401*830163719*0*P*^~
GS*GE*666666666*183529049*20180830*0840*30163719*X*004010~
ST*814*000000021~
BGN*13*OTID81420M00830163718MCSYFMK1*20180830*****20~
N1*8S*TDSP*1*666666666**41~
N1*AY*ERCOT*1*183529049**40~
LIN*1*SH*EL*SH*MP~
ASI*7*001~
REF*Q5**ESIID0830132731KJSMCPDN~
REF*MR*AMSR~
REF*TD*REFMR~
DTM*152*20180830~
NM1*MX*3*****32*GE8926487~
REF*46*AB8569742~
REF*4P*10*KHMON*TU^51~
REF*LO*BUSMEDLF_EAST_NIDR_NWS_NOTOU~
REF*Q2*0*KHMON*TU^51~
REF*Q3*6896*KHMON*TU^51~
REF*IX*5*KHMON*TU^51~
REF*MT*KHMON~
REF*TD*REFLO~
SE*20*000000021~
GE*1*30163719~
IEA*1*830163719~
```

EDI code is translated by each Market Participant's system into a readable format.

One does not have to know the code to understand the transaction

TX SET Training Group Exercise

Group Exercise – Part 1

Provide each transaction number.

Who the transaction is from and who it is going to.

Who is the REP of Record for the scenario listed below?

Customer is moving and calls COWBOYS ENERGY to start service at a new address and OILERS ENERGY is the current REP of Record at that premise ...

****Hint – some lines can have up to 4 dots***

Group Exercise – Part 1: TX SET Process Flows

Transaction Type	Trans #	From				To			
		ERCOT	TDSP	OILERS ENERGY	COWBOYS ENERGY	ERCOT	TDSP	OILERS ENERGY	COWBOYS ENERGY
Move In									
Enrollment Notification Request									
Enrollment Notification Response									
CR Enrollment Notification Response									
Historical Usage (If requested by REP)									
Loss Notification									

Continuing from Scenario 1

Group Exercise – Part 2:

Provide each transaction number.

Who the transaction is from and who it is going to.

Who is the REP of Record for the scenario listed below?

***Customer calls COWBOYS ENERGY to cancel the Move
in the day before the scheduled date...***

****Hint – some lines can have up to 4 dots***

Group Exercise – Part 2: TX SET Process Flow

**Continuing from Scenario 1:
Customer calls COWBOYS ENERGY to cancel the move in the day
before the scheduled date...**

Transaction Type	Trans #	From				To			
		ERCOT	TDSP	OILERS ENERGY	COWBOYS ENERGY	ERCOT	TDSP	OILERS ENERGY	COWBOYS ENERGY
Cancel Request – on day before MVI schedule									
Cancel Response - Accept									
Cancel Request – Response to Cancel Accept									

Group Exercise – Part 3: TX SET Bonus Questions

If the Cancel is Rejected in Exercise – Part 2, who is the REP of Record?

If the Cancel is Rejected in Exercise – Part 2, what PROCESS should be initiated?

Listserv

<http://lists.ercot.com>

ercot > Log In ?

LISTSERV Archives
Browse and search the archives of lists on this server

Access Unlisted Lists:

Search

lists.ercot.com

[<<] [-] 1-50 (135) [+] [>>]

List Name	Subscribers	List Title
AAATEST	5	Newsletter Testing
AMWG	0	Advanced Meter Working Group
BESTFORCE	455	Battery Energy Storage Task Force
BOARDANDOTHERS	563	Board and Others
BSGCG	27	Black Start Gas Coordination Group
BSWG	138	Black Start Working Group
CCWG	233	COPS Communication Working Group
CIPWG	416	Critical Infrastructure Protection Working Group Advisories
CIPWG-RESTRICTED	157	CIPWG Restricted Information
CMWG	735	Congestion Management Working Group
COOPERATIVESEGMENT	47	Cooperative Segment
COPS	468	Commercial Operations Subcommittee
CREDITWG	279	Credit Working Group
CSRG-RESTRICTED	1	Cyber-Security Response Group-RESTRICTED Information Sharing
CSWG	482	Communications and Settlements Working Group
DEMANDSIDEWG	595	Demand Side Working Group

Additional resources

ERCOT Client Services

Clientservices@ercot.com

ERCOT Mailing Lists

<http://lists.ercot.com/>

ERCOT Nodal Market Protocols

<http://www.ercot.com/mktrules/nprotocols/>

ERCOT Training

<http://www.ercot.com/services/training/>

Market Education Contact

Training@ercot.com

Survey

Scan this QR code to take the course survey!

<https://www.surveymonkey.com/r/ERCOTILT>



Appendix

Texas SET Swimlanes

Texas SET Swimlanes Scenarios

Description	File Name and Web Link to Documentation
TX SET flow documentation for consolidated billing, remittance and dual billing	<u>Billing Scenarios Version February 2017</u>
TX SET flow documentation for beginning and ending continuous service agreements (CSAs)	<u>Continuous Service Agreement Scenarios February 2017</u>
TX SET flow documentation for handling Move In changes and problems	<u>Customer Move In Scenarios June 2012</u>
TX SET flow documentation for handling Move Out changes and problems	<u>Customer Move Out Scenarios February 2017</u>
TX SET flow documentation for handling customer switch request	<u>Customer Switch Scenarios June 2012</u>

Texas SET Swimlanes

Texas SET Swimlanes Scenarios

Description	File Name and Web Link to Documentation
TX SET flow documentation for Disconnect and Reconnect for Non-Pay	<u>Disconnect Reconnect Non Pay Scenarios February 2017</u>
TX SET flow documentation for customer dropped by Competitive Retailer (CR), disconnect for non-pay services request and Mass Transition from defaulting CR to Provider of Last Resort (POLR)	<u>Mass Transition / Acquisition Scenarios September 2018</u>
TX SET flow documentation for handling Switch Hold add and removal	<u>Switch Hold Scenarios June 2012</u>
TX SET flow documentation of how to report unplanned outages	<u>Unplanned Outages Scenarios June 2012</u>

TX SET Implementation Guides (IG)

The Texas Standard Electronic Transaction (SET) Implementation Guides provide details of information contained within the electronic transactions used in the competitive retail electric market in Texas.

The current Version 4.0A of the Texas SET Implementation Guides contains updates to retail transactions to support the following:

- **PUCT Substantive Rule §25.493 Acquisition and Transfer of Customers from one Retail Electric Provider to Another**
- **PUCT Substantive Rule §25.480 Bill Payment and Adjustments**
- **PUCT Substantive Rule §25.483 Disconnection of Service**
- **PUCT Substantive Rule §25.497 Critical Care Customers**
- **PUCT Substantive Rule §25.126 Amendments Due to Non-Compliant Meters and Meter Tampering in Areas Where Customer Choice Has Been Introduced**
- **PUCT PROJECT 34610 Implementation Project Relating to Advanced Metering**
- **Outstanding Change Controls identified and recommended by the Texas SET Working Group**
- **<https://www.ercot.com/mktrules/guides/txset/version>**

Texas SET Implementation Guides

Service Orders, Invoice and Remittance Transactions	
Transaction and Version	Web Link to Documentation
Texas SET V4.0A 650 Service Orders Point to Point	Guides Examples
Texas SET V4.0A 810 TDSP's Invoice Point to Point	Guides Examples SAC04
Texas SET V4.0A 820 Remittance Advice Point to Point	Guides Examples

Texas SET Implementation Guides

Enrollments, Rejects and Usage Transactions

Transaction and Version	Web Link to Documentation
Texas SET V4.0A 814 Enrollments, MVI, MVO, Create/Maintenance/Retire, Maintain Customer Information	Guides Examples
Texas SET V4.0A 824 Invoice or Usage Reject Notification	Guides Examples
Texas SET V4.0A 867 Monthly and Final Usage, Historical Usage	Guides Examples

Texas SET Implementation Guides

Functional Acknowledgement and CR Option 1 Outage Transactions

Transaction and Version	Web Link to Documentation
Texas SET V4.0A 997 Functional Acknowledgement	<u>Guides</u>
Texas SET V4.0A T-Series CR Option 1 Outage Transactions	<u>Guides</u>

Registration and Qualification/Certification

Registration

- Register with ERCOT as a CR (a REP or an opt-in entity) or a NOIE with the form below.

Qualification/Certification

- CRs must be certified by ERCOT. Please read more about [Texas Retail Market Testing and the latest test flight](#).
- REPs must also be certified by the Public Utility Commission of Texas (PUCT). More information on that certification process may be found on the PUCT website at [Retail Electric Providers Certification and Reporting](#).
- Contact ERCOT Client Services for a full list of requirements

Retail Market Testing

Key Documents

Description	File Name & Web Link to Documentation
The ERCOT Retail Testing Website is used by Market Participants to become certified in conducting retail market processes within the ERCOT market.	<u>Texas Retail Testing</u>
Retail Market Testing Orientation Weblink	<u>Retail Market Testing Orientation</u>
Retail Market Test Environment User Guide	<u>Retail Market Test Environment User Guide</u>
Retail Market Testing Environment ESI IDs	<u>Retail Market Testing Environment ESI IDs</u>

Retail Market Testing

Key Documents

Description	File Name & Web Link to Documentation
Flight Test Scripts Workbook and Testing Requirements Matrix	<u>Scripts</u>
Retail Market Testing Frequently Asked Questions	<u>FAQ</u>
Testing to Production Checklist	<u>Checklist</u>