Texas Standard Electronic Transactions

INTRODUCTION TO TX SET

2025 TXSET

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.

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)

Housekeeping

Restrooms

Refreshments

Attendance sheet

Questions

Please silence smart phones & other electronics

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**e**x**as **S**tandard **E**lectronic **T**ransactions
- Facilitates retail business processes
- Maintained by TX SET working group
- Set of American National Standards Institute (ANSI) EDI transaction guidelines

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

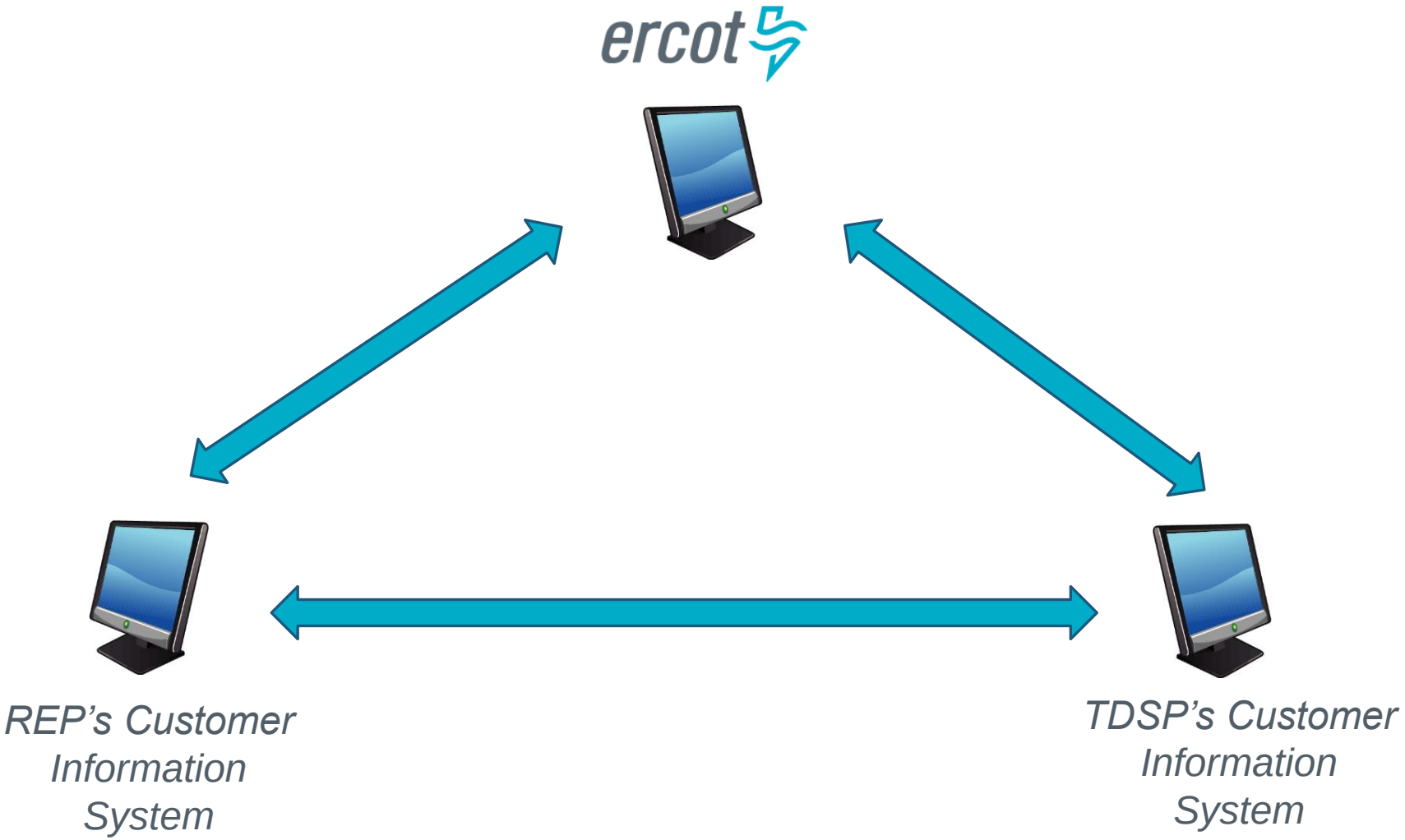
How are TX SET Delivered?

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*

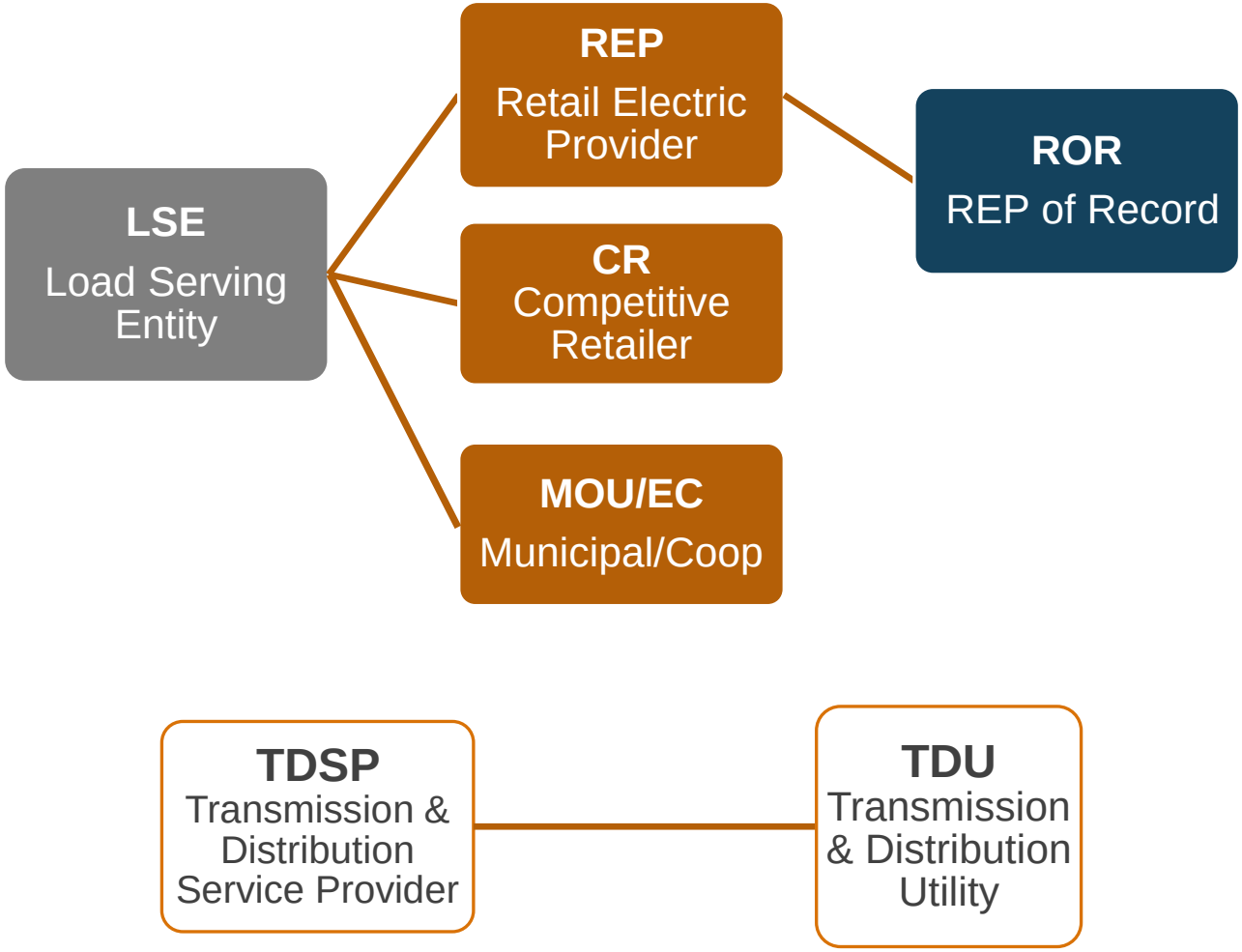
ERCOT – *Electric Reliability Council of Texas*

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

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

ercot

About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information | Market Participants

Home > Market Rules > Protocols - Nodal

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.

Related Content

On this site

- Protocol Revision Requests
- Protocol Revision Subcommittee

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

ERCOT Market Guides

ERCOT Protocols

ERCOT
Market Guides

Other Binding
Documents (OBDs)

ERCOT Market Guides

ercot

About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information | Market Participants

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 markets rules and structure; and find or submit requests for changes.

Settlement Metering Operating Guide
Locate the standards and procedures for ERCOT-polled 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

MIS LOG IN | Search

ercot

About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information | Market Participants

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.

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	Feb 11, 2011 - doc - 36.5 KB
Texas SET Issue Form Form to submit a request regarding an issue to ERCOT	Sep 30, 2010 - doc - 43.5 KB
Transactions Names Inventory Transactions Names Inventory V4.0A	Feb 10, 2022 - xls - 63 KB

Related Content

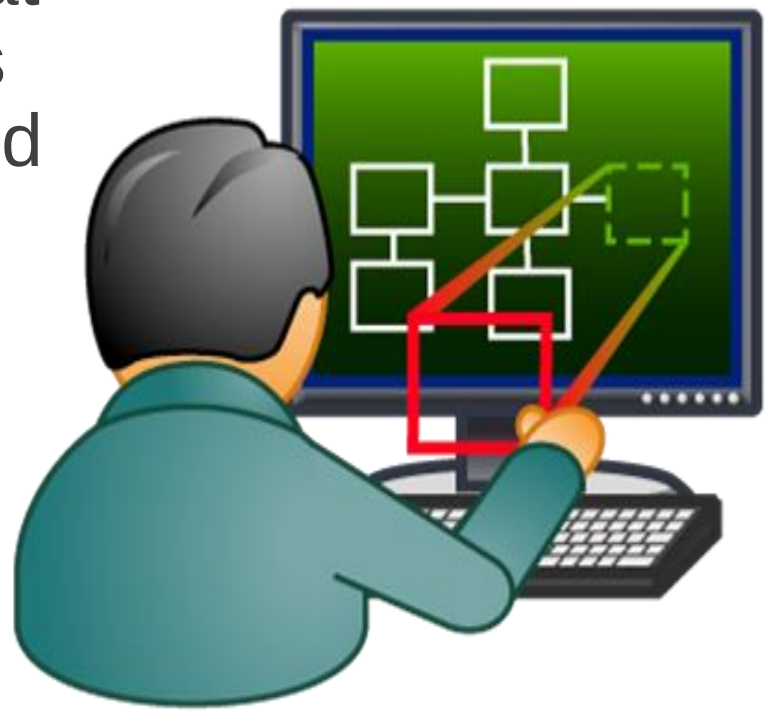
On this site

- Texas SET Working Group
- Market Coordination Team for Texas SET Version Release 4.0

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 | Search

ercot

About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information | Market Participants

Home > Market Rules > Market Guides > Texas Standard Electronic Transaction Guides > Texas SET Swimlanes

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.

Billing Scenarios Version November 2024 TX SET flow documentation for consolidated billing, remittance and dual billing	Dec 9, 2024 - zip - 70.2 KB
Continuous Service Agreement Scenarios November 2024 TX SET flow documentation for beginning and ending continuous service agreements (CSAs)	Dec 9, 2024 - zip - 367.6 KB
Customer Move In Scenarios November 2024 TX SET flow documentation for handling Move In changes and problems	Dec 9, 2024 - zip - 118 KB
Customer Move Out Scenarios November 2024 TX SET flow documentation for handling Move Out changes and problems	Dec 9, 2024 - zip - 112.5 KB
Customer Switch Scenarios November 2024 TX SET flow documentation for handling customer switch request	May 17, 2016 - pdf - 15.3 KB
Disconnect Reconnect Non Pay Scenarios November 2024 TX SET flow documentation for Disconnect and Reconnect for NonPay	Dec 9, 2024 - zip - 83.3 KB
Inadvertent Gain, Inadvertent Loss, Customer Recission Scenarios TX SET flow documentation for Inadvertent Gain, Inadvertent Loss and Customer Recession.	Dec 9, 2024 - zip - 337.7 KB
Mass Transition / Acquisition Scenarios November 2024 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)	Dec 9, 2024 - zip - 42.3 KB

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 5.0 supports PUCT Substantive Rules and market process revisions

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

New Functionality of TX SET v5.0 :

Created a **new *IA*** (Inadvertent) and ***CR*** (Customer Rescission) Move-In Transactional Solution and **modified MarkeTrak Processes**.

"***County***" *n*ame added as part of the ESI ID Premise Address attributes. NWS for all TX Counties is source for this information.

Created 44 new "**Metered *Service Type (MSL)"*** descriptions

Added Continuous Service Agreement "***(CSA) Start and End Dates"*** to minimize incorrect CSA CRs' financial liability

Created ***new "CHP"*** status code for "***TDSP Construction Hold***"

Replaced "**A13 Other**" with "**(28) Specific Reject Reason**" codes

MarkeTrak Enhancements included new Subtypes, Stronger Validations and added "Complete Unexecutable" Drop-down reasons

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

MIS LOG IN | Search

ercot

About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information | Market Participants

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.

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	Feb 11, 2011 - doc - 36.5 KB
Texas SET Issue Form Form to submit a request regarding an issue to ERCOT	Sep 30, 2010 - doc - 43.5 KB
Transactions Names Inventory Transactions Names Inventory V4.0A	Feb 10, 2022 - xls - 63 KB

Related Content

On this site

- Texas SET Working Group
- Market Coordination Team for Texas SET Version Release 4.0

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

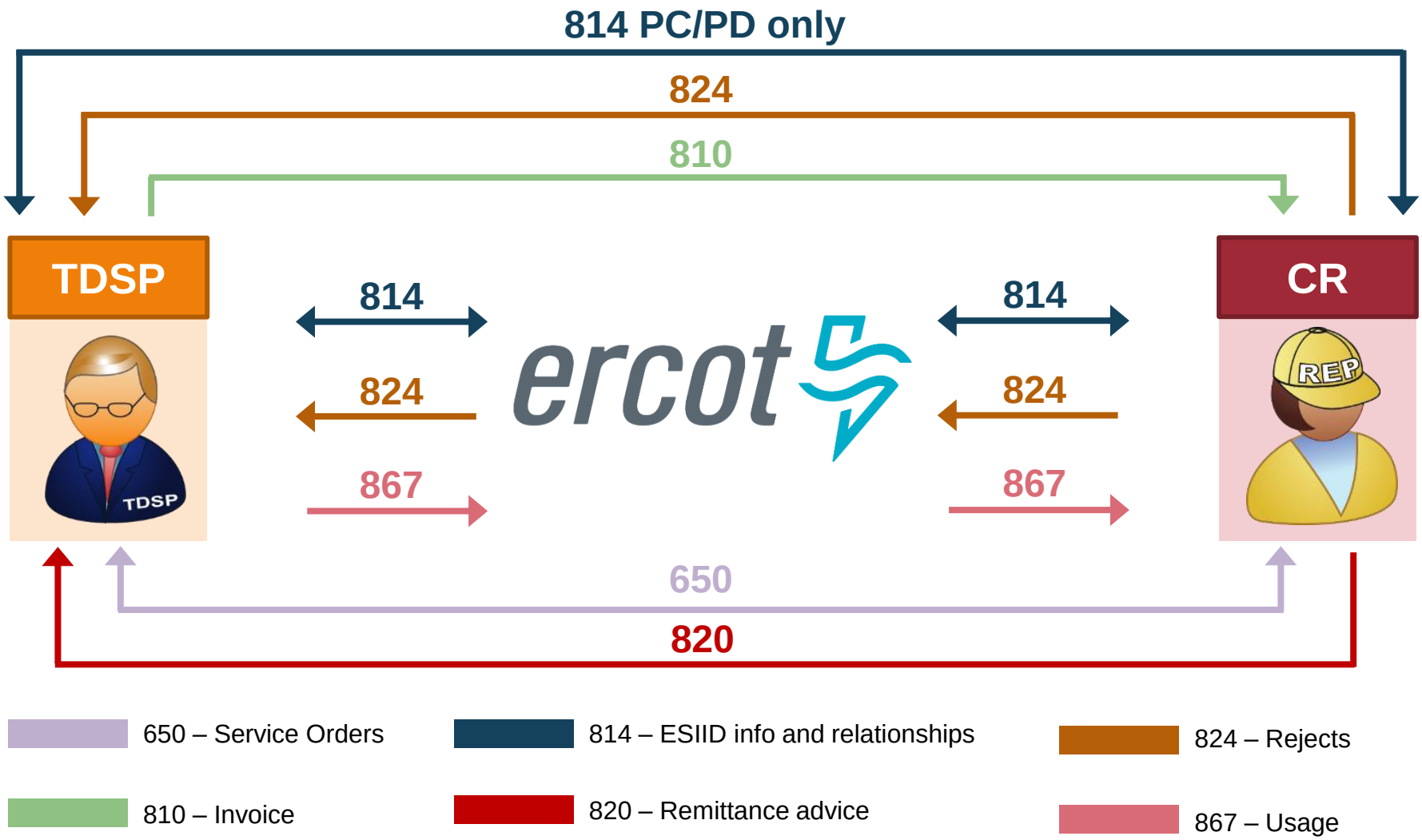
Governed by Texas Market Test Plan:

- 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



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 5.0 – 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 5.0

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 ERCOT=>MOU/EC TDSP ERCOT=>CR
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
997 - Functional Acknowledgement		
997	Functional Acknowledgement	All
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 on Standard Switch Self-selected Switches fees may apply.
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 • 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) and TDSP Outage Alerts	Customer's Enrollment associated to Service Address and ESI ID is disabled. Customer will be required to reapply.	**No change to SMT Enrollment or TDSP outage alert 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)
• TDSP notifies CR via ERCOT • Permit is required in order to complete enrollment • TDSP typically will **not** send an 814_04 scheduling response until permit is received • ERCOT holds enrollment for up to 20 Retail Business Days	TDSP unexecutes the initiating transaction with the appropriate code • construction • miscellaneous/unsafe • transactional process **NOTE**: To be more response prescriptive, TX SET v5.0 implemented (**5**) new unexecutable codes

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	810_02 TDSP Invoice

• 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
	• 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

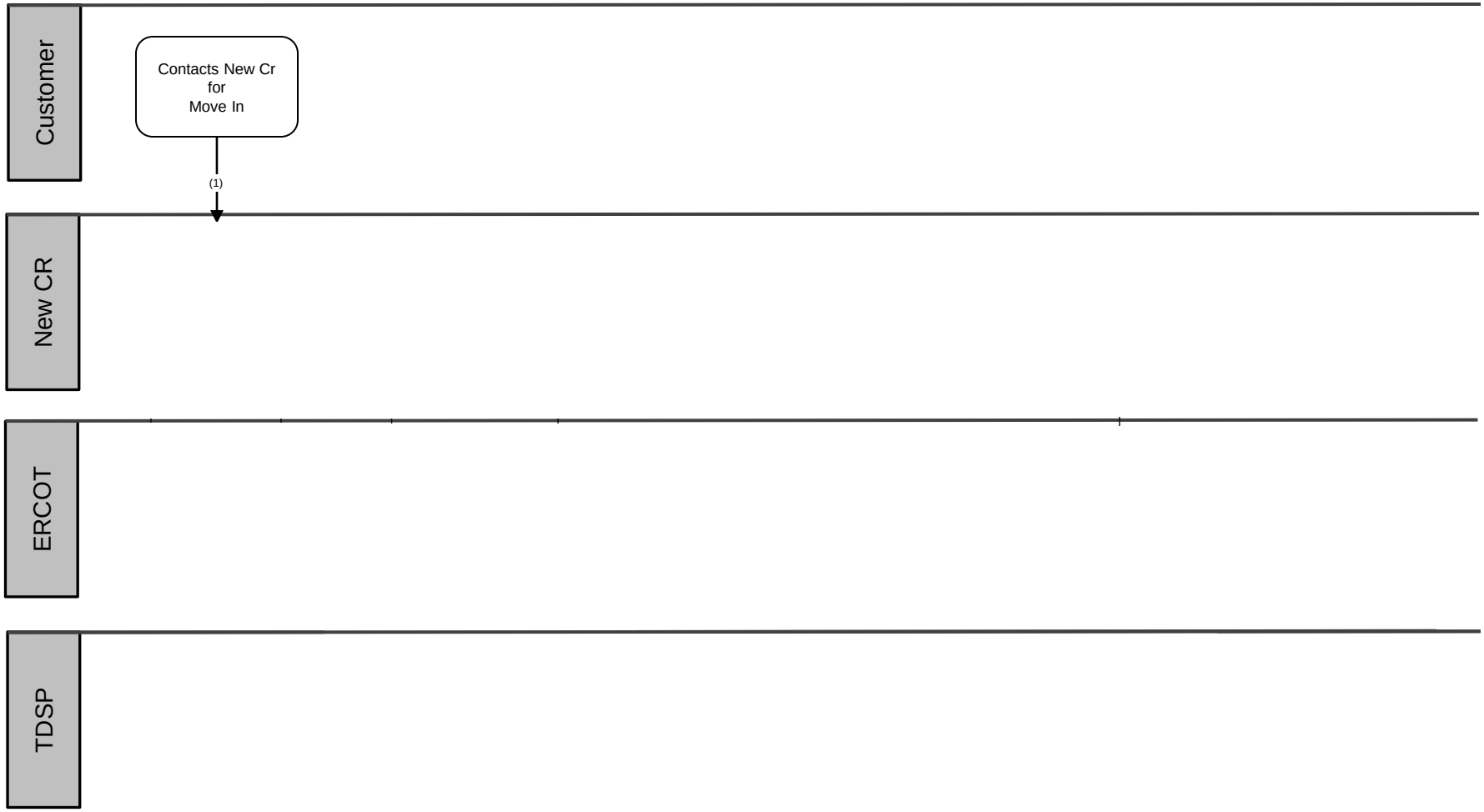
New CR

ERCOT

TDSP

Move-In Swimlane

Scenario: Customer Move-In with ESI ID De-Energized



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 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)

TDSP and REP Operating Rule Examples

TDSP Operating Rule 8 –

- The TDSP will reject Backdated Transactions with an 814_04, Enrollment Notification Response, or 814_25, Move Out Response, if it is not associated with a back-office clean up, including safety-net move in.

REP Operating Rule 13 –

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

(New 5.0 validation)

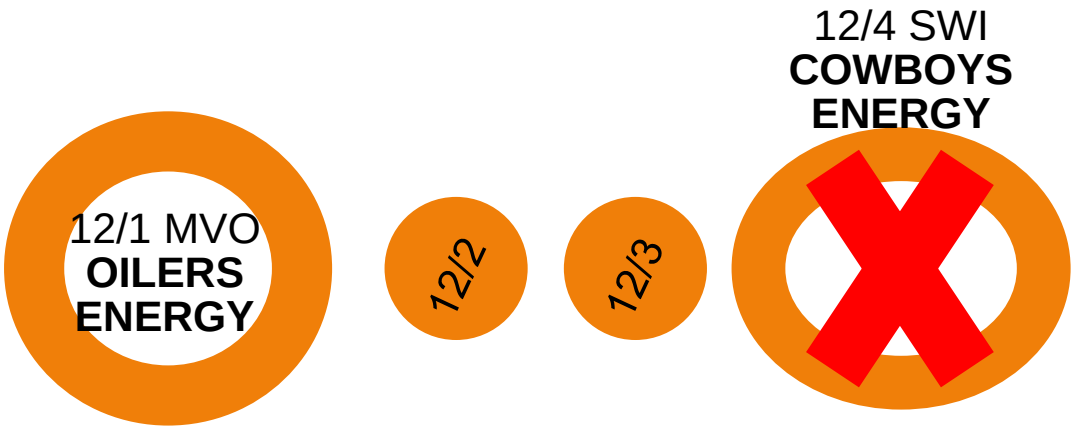
ERCOT Rejection Operating Rules

Scheduled	New Transaction	Rejected?	Reason
Move in	Move in	Yes	NFI
Move in	Self-selected Switch	Yes	NFI
Move in	Move out	No	-
Move in	Standard Switch	Yes	NFI
Move out	Move in	No	-
Move out	Self-selected Switch	Yes	SBD
Move out	Move out	Yes	DUP
Move out	Standard Switch	Yes	SBD
Switch	Move in	No	-
Switch	Self-selected Switch	Yes	NFI
Switch	Move out	No	-
Switch	Standard Switch	Yes	NFI

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.

ERCOT Rejection Operating Rules

Scheduled	New Transaction	Rejected?
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

In the event of a Mass Transition or Acquisition Transfer, ERCOT will not reject transactions that are a result of customer choice based on timeline.

ERCOT Operating Rules Scenarios

Scenario 1: Customer is shopping. They sign up with multiple retailers. Which transaction will prevail?

First in is determined by the time-stamp applied when the transaction is received by ERCOT.

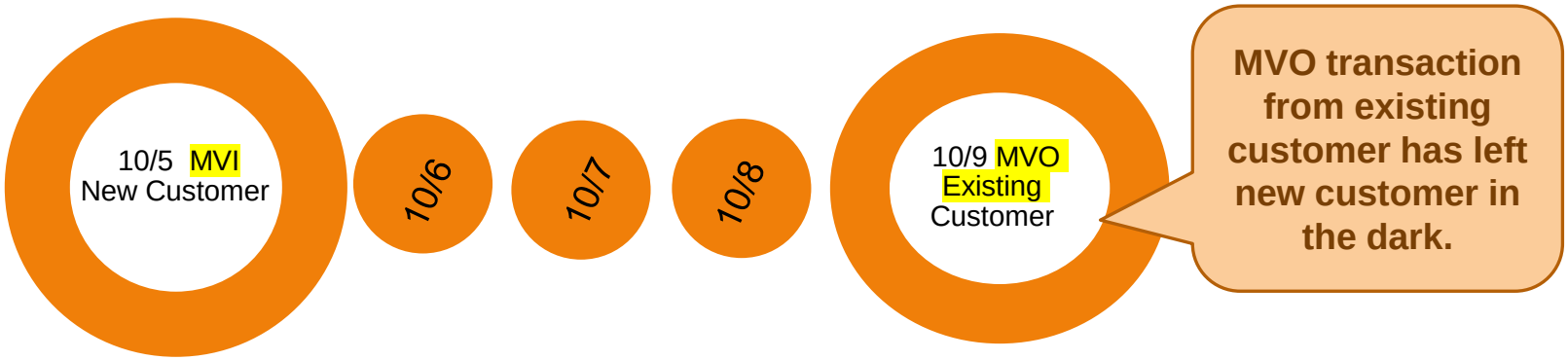
Scenario 2: Tenant has scheduled a Move out with their retailer for next week. The LL has called to schedule a Move in for make ready the same day. Which transaction will prevail?

Scenario 3: Customer with a critical designation has been shopping and has scheduled a switch from retailer A to retailer B. Retailer C sends a Move in, instead of a switch. What will happen and what are the possible consequences?

REP Operating Rules

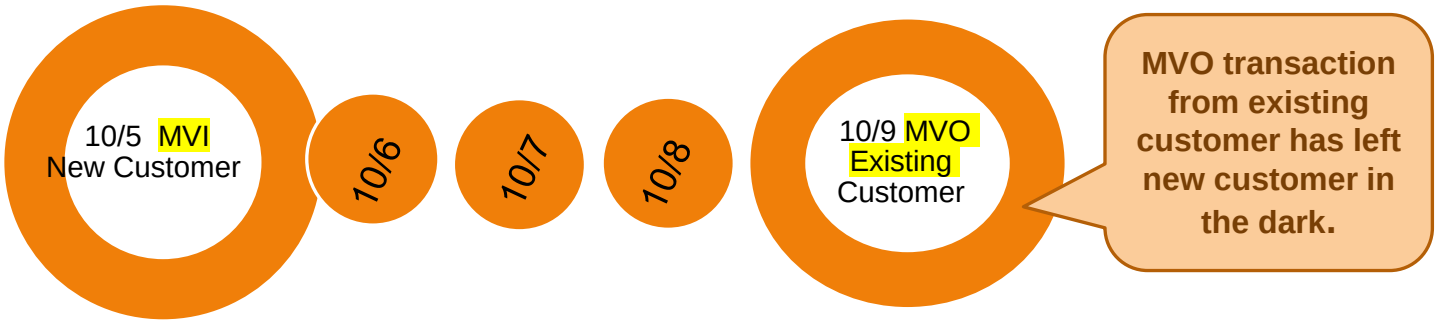
RMG 11.4.1 **REP Operating Rule 1**: Cancel Move Out

Transactions are validated for ROR not customer. Therefore, REPs who have a pending move out and that REP submits a move in 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

REP Operating Rule 1: Scenarios



Scenario 4: A landlord is completing a make ready/clean & show. They move-in on 10/5 and are moving out on 10/9. Their retailer has sent both a move-in and a move-out.

Scenario 5: The tenant is with Oilers and scheduled their move out for 10/9. The Landlord calls Oilers to start services and schedules a move in for 10/5 is completing a make ready. If Oilers does not cancel the tenant MVOT out 10/9, what happens?

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

New Indicator Codes in 814_16 Move-In Transaction for Inadvertent Gain or Customer Rescission

These are the transactions that include the new indicator code when an Inadvertent Switch occurs and is returned to the original losing REP.

This is after a MarkeTrak has been submitted and both REPs have agreed to have the ESID returned to the losing REP.

814_16 – Move In (*CR to ERCOT*)

814_03 – Enrollment Notification Request (*ERCOT to TDSP*)

814_04 – Enrollment Notification Response (*TDSP to ERCOT*)

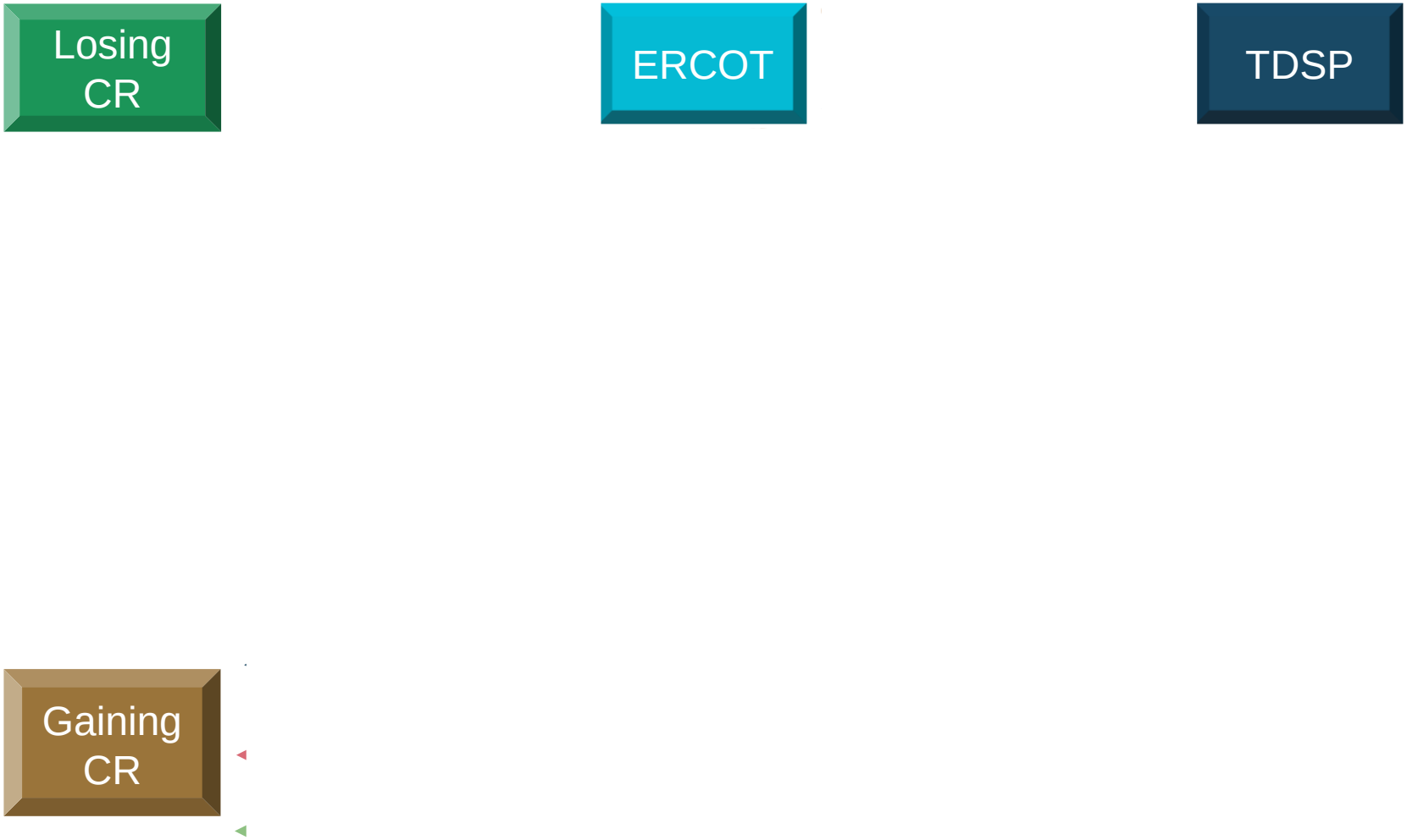
814_05 – Competitive Retailer Enrollment Notification Response (*ERCOT to CR*)

Indicator Codes:

'IA' – Inadvertent Gain MVI

'CR' – Customer Rescission MVI

Returning an Inadvertent Gain (IA) or Customer Rescission (CR) to the Losing REP



Checkpoint Question

True or False: For resolution of an Inadvertent Gain, every backdated/prospective dated move-in should have a CR or IA code within the transaction.

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")?

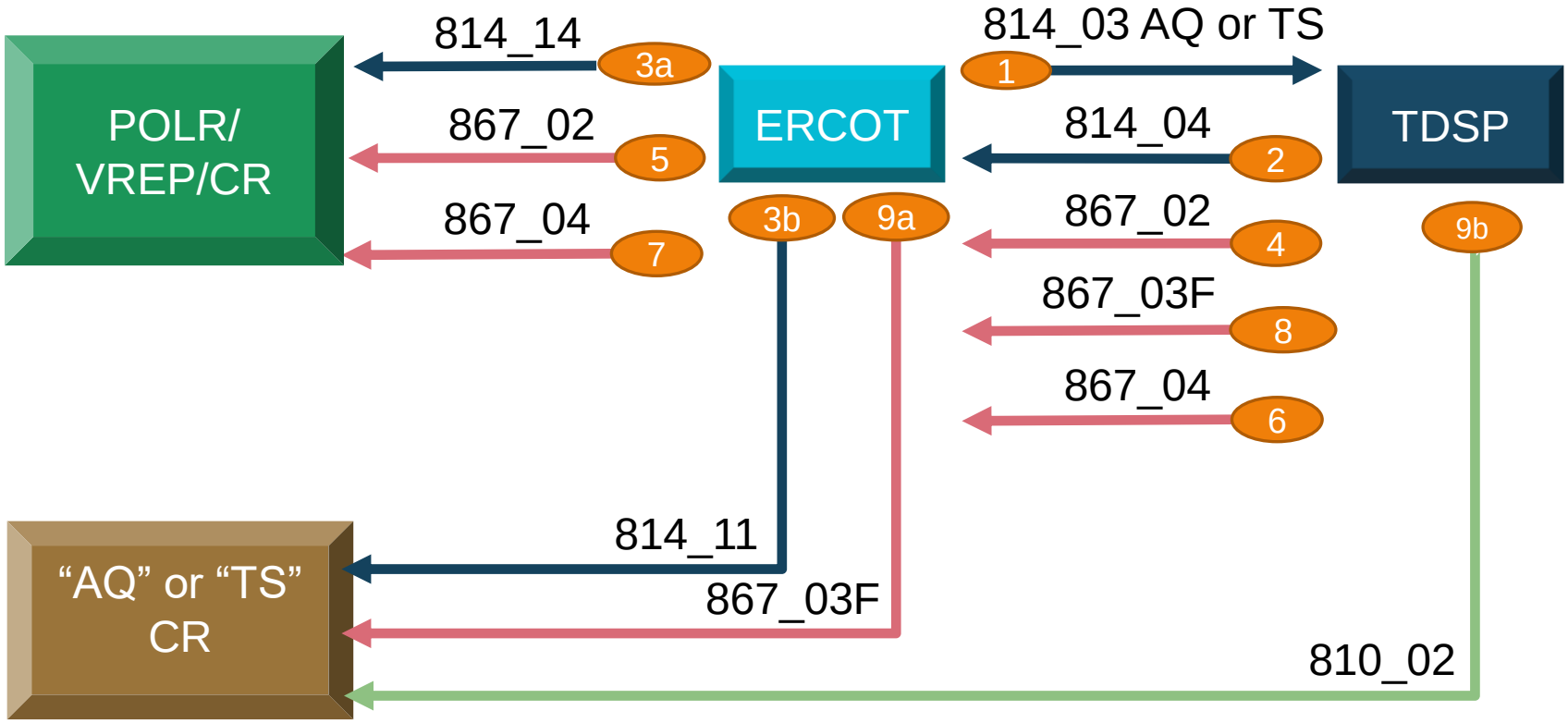
*Is the expeditious transfer large numbers of ESI IDs from one Market Participant (MP) to another pursuant to **P.U.C. SUBST. RULE 25.43**.*

- *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:

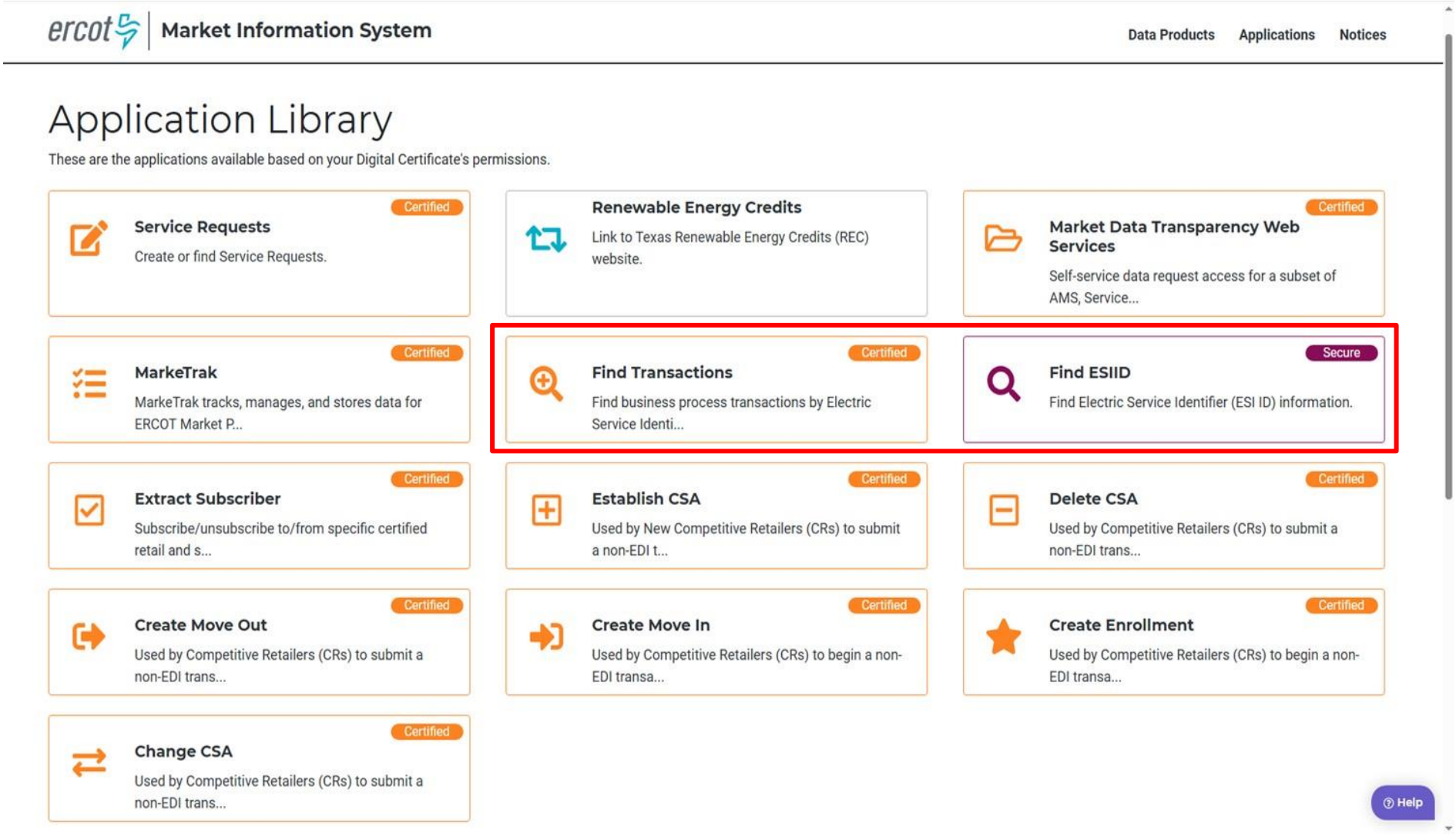
- *Utilizes TX SET 814_03 either "**AQ**" or "**TS**" transaction initiated by ERCOT;*
- *Transfers REP of Records' responsibilities for affected ESI IDs in a manner that protects the continuity of service to Customers;*
- *Allows for the honoring of Customer's Choice to Switch (814_01) to their chosen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

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

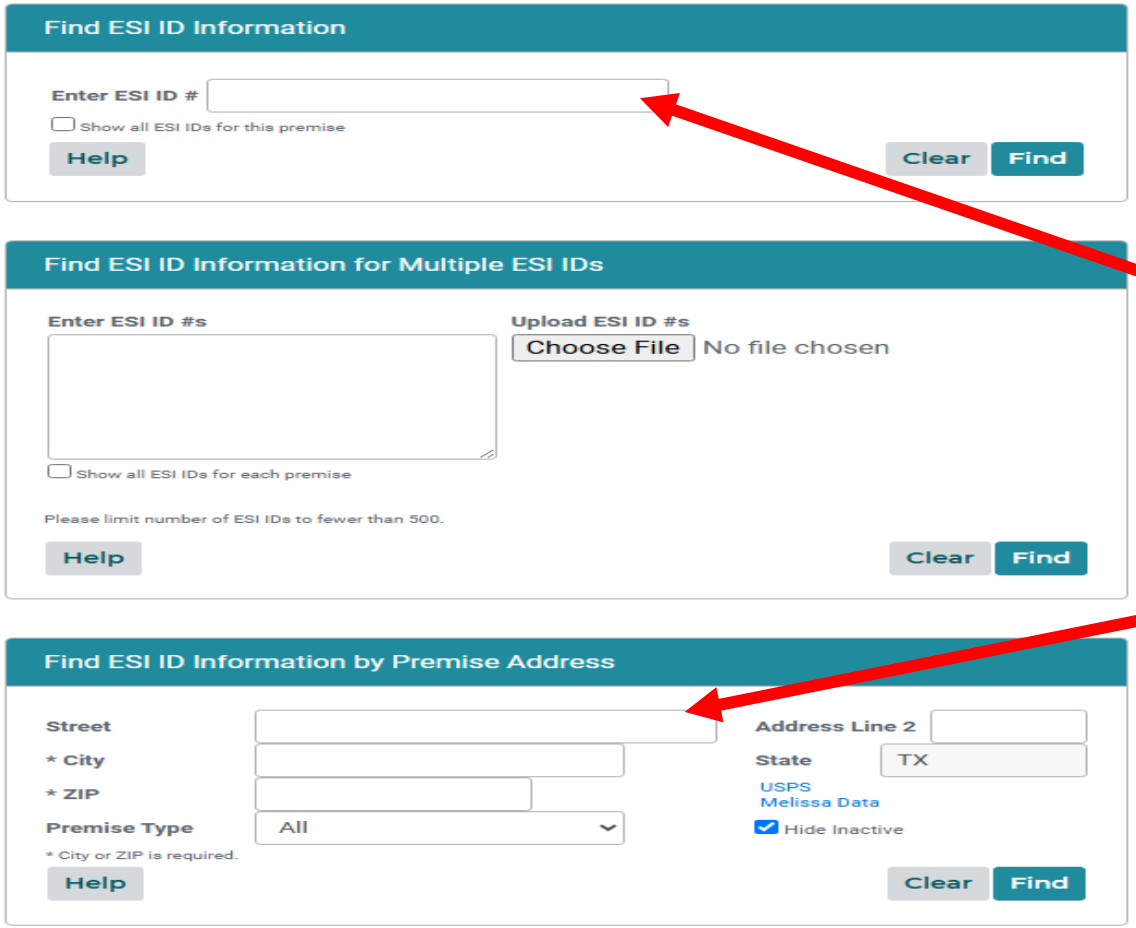


MIS Portal

Market Information System



Find ESI ID



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

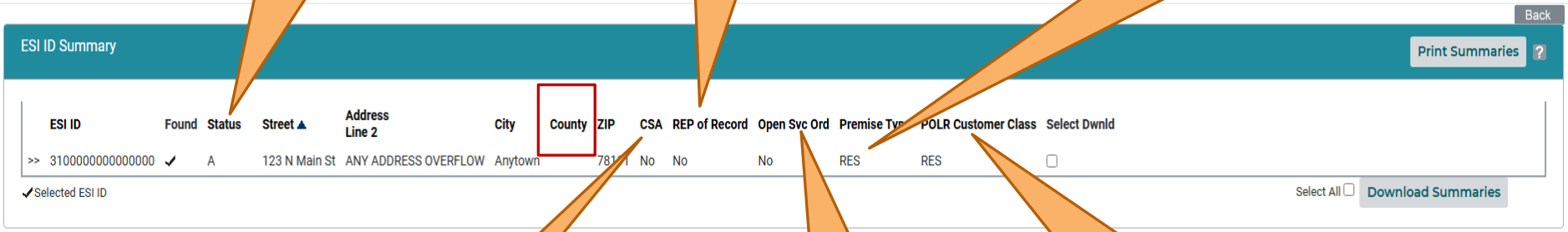
An asterisk (*) serves as a wildcard for address search

Find ESI ID

STATUS
A – Active
D – Deenergized
I - Inactive

REP of Record
Is the viewer the ROR?

Premise Type
RES – Residential
SMA – Small Non-Res
LAR – Large Non-Res



CSA
Does this ESI ID have a Continuous Service Agreement?

Open Svc Ord
Are there any current 'open' transactions on this ESI ID such as a pending MVO, MVI, etc?

POLR Customer Class
Calculated ERCOT POLR customer classes:
RES – Residential
SMA – Small Non-Res
MED – Medium Non-Res
LAR – Large Non-Res

Find ESI ID – Additional information

ESI ID Detail: 3100000000000000

View Transactions | Print Details | ?

Address: 123 N Main St
ANY ADDRESS OVERFLOW
Anytown, , TX 78111

Current Status	Active	**Utility Name**	ERCOTTEST_TDSP	**ESI ID Eligibility Date**	Jan 15, 2002
Effective Date	Jan 15, 2002	**DUNS #**	666666666	**ESI ID Start Date**	Jan 15, 2002
Premise Type	Residential	**Metered Flag**	true	**ESI ID Create Date**	Dec 05, 2002
POLR Customer Class	Residential	**Meter Read Cycle**	15	**ESI ID Retired Date**	
Settlement AMS Indicator	false	**Power Region**	ERCOT		
Switch Hold	N	**Station Name**	PFLUGERVILLE		
TDSP AMS Indicator		**Station Code**	PFLGV		
Metered Service Type		**Metered Service Type Description**			

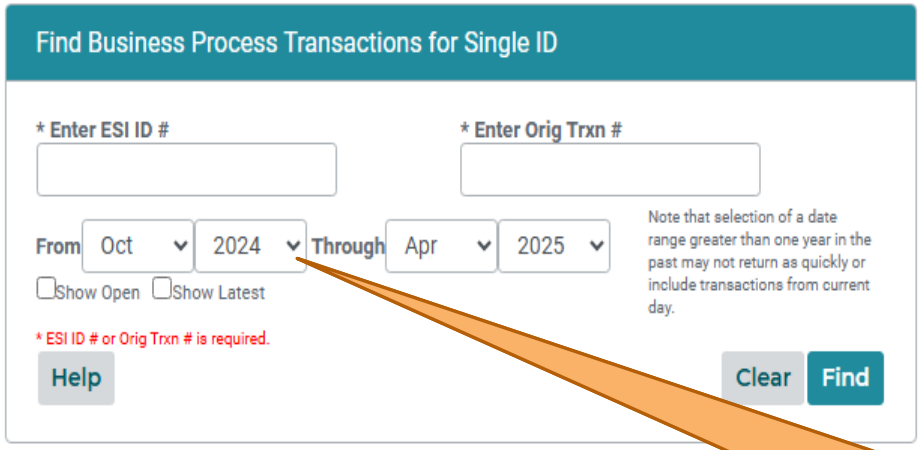
Back

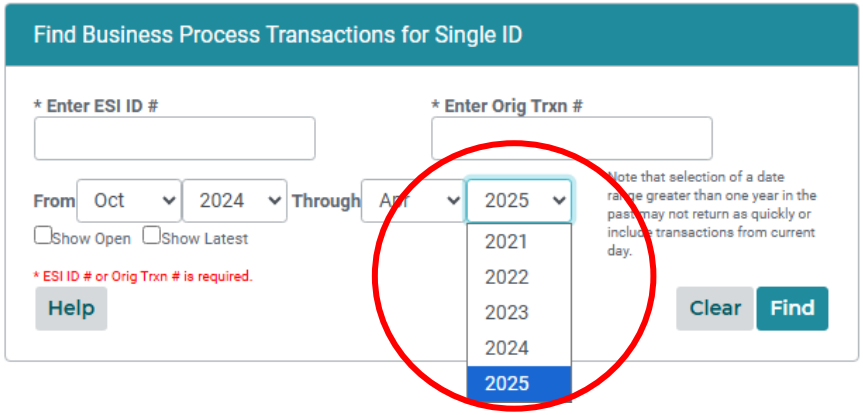
Settlement AMS Indicator – 'true' if AMS meter has been provisioned and ERCOT is settling on AMS interval data vs deemed profile data
TDSP AMS Indicator – indicates if AMS meter is remote or manual; if NULL, it either unmetered, NIDR, or a true IDR meter
Metered Flag – 'true' if metered premise, 'false' if unmetered premise

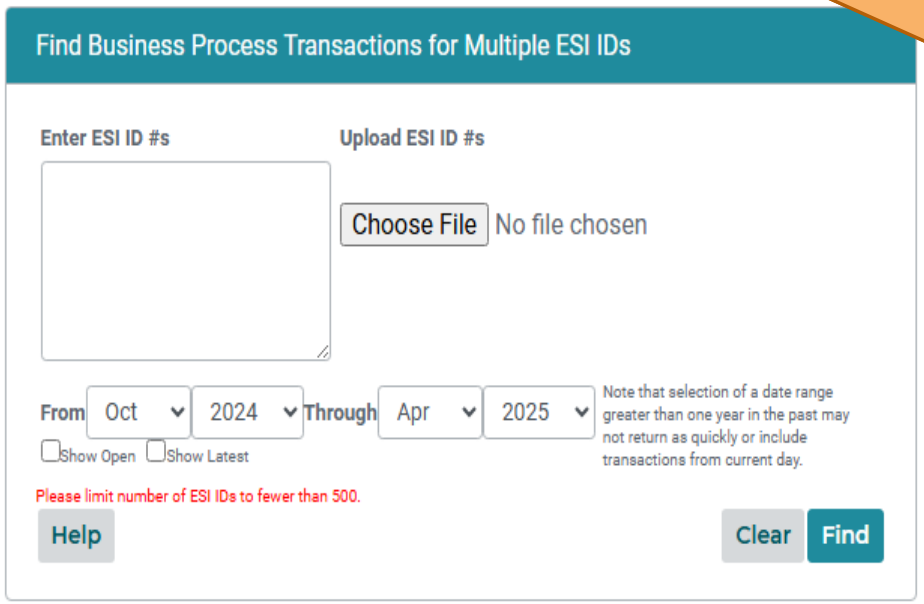
ESI ID Dates

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







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

Back

Transaction Summary for ESI ID: ESIID105198364TSTEWART

CSA Established: REP of Record:

Download Results | Print Summaries

Move In

Status: In Review

Original Trxn #: OTIDMVI1105198366TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_16	ERCOTTEST_LSE_1	ERCOT	Apr 07, 2025 1002 AM	Accept	Apr 07 2025		No
814_03	ERCOT	ERCOTTEST_TDSP	Apr 07, 2025 1002 AM	Accept	Apr 07 2025		No
814_28	ERCOTTEST_TDSP	ERCOT	Apr 07, 2025 1005 AM	Accept	Apr 07 2025		No
814_28	ERCOT	ERCOTTEST_LSE_1	Apr 07, 2025 1005 AM	Accept	Apr 07 2025		No

1st Unknown 814_20 Process

Details: 814_16

Print Details

From	ERCOTTESTLSE	To	ERCOT
DUNS #	111111111	DUNS #	183529049
Request Submitted	20250407	Service ZIP	76471
Trxn Ref #	OTIDMVI1105198366TSTEWART	Status/Action	Request Addition
Orig Trxn Ref #		Priority Code	01
Request Type	Move In Historical Interval Usage	Special Needs?	N
Billing Type	ESP	Move In Date	20250407
Bill Calc Code	DUAL	Permit Name	
Special Instructions		Inadvertent	

CUSTOMER INFORMATION

Contact Name	MR BUNGLE	Billing Name	
Phone	8005551212	Address	
Notification Name	PAUL YOCKEY		
Address	1801 E PALM VALLEY BLVD APT 2000 CRACKTON, TX		

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

Customer information is contact information – not necessarily premise address

Find Transactions – MVO w/ Date Change & Cancel

Back

Transaction Summary for ESI ID: ESIID105198054TSTEWART

CSA Established: REP of Record: Mar 05 2025

Download Results | Print Summaries

Move Out

Status: Cancelled

Original Trxn #: OTIDMVO1105198056TSTEWART

Type	From	To	ERCOT Time Stamp	Trxn Status	Key Date	Retry Status	Duplicate
814_24	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0120 PM	Accept	Apr 16 2025		No
814_24	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0120 PM	Accept	Apr 16 2025		No
814_25	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0123 PM	Accept	Apr 16 2025		No
814_25	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0123 PM	Accept	Apr 16 2025		No
814_12	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0124 PM	Accept	Apr 16 2025		No
814_12	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0125 PM	Accept	Apr 16 2025		No
>> 814_13	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0127 PM	Accept	Apr 16 2025		No
814_13	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0128 PM	Accept	Apr 16 2025		No
814_08	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0130 PM	Accept	Apr 16 2025		No
814_08	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0131 PM	Accept	Apr 16 2025		No
814_09	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0131 PM	Accept	Apr 16 2025		No
814_09	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0132 PM	Accept	Apr 16 2025		No

1st Unknown 814_20 Process

Details: 814_24

Print Details

From	ERCOTTESTLSE	To	ERCOT
DUNS #	111111111	DUNS #	183529049
Request Submitted	20250404	Service ZIP	79533
Trxn Ref #	OTIDMVO1105198056TSTEWART	Orig Trxn Ref #	
Status/Action	Request Delete		
TDSP Name	ERCOTTESTTDSP	CR Name	ERCOTTESTLSE
DUNS #	666666666	DUNS #	111111111
Move Out Date	20250409		

Special Instructions

Customer requests to change the MVO date from 4/9 to 4/16 on 4/4. Both ERCOT & TDSP accept the change.

Details: 814_13

Print Details

From	ERCOTTESTTDSP	To	ERCOT
DUNS #	666666666	DUNS #	183529049
Response Submitted	20250404		
Trxn Ref #	TRANID81413MVO1105198062TSTEWA	Status/Action	Accept Change
Orig Trxn Ref #	OTIDMVO1105198056TSTEWART	Iteration Counter	2025040413233700
Reason			

Find Transactions – MVO w/ Date Change & Cancel

Back

Transaction Summary for ESI ID: ESIID105198054TSTEWART

REP of Record: Mar 05 2025

Download Results | Print Summaries

Move Out

Status: Cancelled

Original Trxn #: OTIDMVO1105198056TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0120 PM	Accept	Apr 16 2025		No
814_24	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0120 PM	Accept	Apr 16 2025		No
814_25	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0123 PM	Accept	Apr 16 2025		No
814_25	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0123 PM	Accept	Apr 16 2025		No
814_12	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0124 PM	Accept	Apr 16 2025		No
814_12	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0125 PM	Accept	Apr 16 2025		No
814_13	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0127 PM	Accept	Apr 16 2025		No
814_13	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0128 PM	Accept	Apr 16 2025		No
>> 814_08	ERCOTTEST_LSE_1	ERCOT	Apr 04, 2025 0130 PM	Accept	Apr 16 2025		No
814_08	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0131 PM	Accept	Apr 16 2025		No
814_09	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0131 PM	Accept	Apr 16 2025		No

Details: 814_08

Print Details

From	ERCOTTESTLSE	To	ERCOT
DUNS #	111111111	DUNS #	183529049
Request Submitted	20250404		
Trxn Ref #	TRANID81408MVO1105198064TSTEWA	Status/Action	Request Cancellation
Orig Trxn Ref #	OTIDMVO1105198056TSTEWART	Reason	B40
Transfer Type			

Customer now requests to cancel the MVO scheduled for 4/16 on 4/4. Both ERCOT & TDSP accept the cancellation.

Find Transactions – MVO to CSA

Back

Transaction Summary for ESI ID: ESIID105198078TSTEWART

REP of Record: Apr 04 2025

Download Results | Print Summaries

Move Out to CSA

Status: Complete

Original Trxn #: OTIDMVO1105198080TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	LSE	ERCOT	Apr 04, 2025 0238 PM	Accept	Apr 04 2025		No
814_03	ERCOT	ERCOTTEST_TDSP	Apr 04, 2025 0238 PM	Accept	Apr 04 2025		No
814_04	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0240 PM	Accept	Apr 04 2025		No
814_25	ERCOT	LSE	Apr 04, 2025 0240 PM	Accept	Apr 04 2025		No
>> 814_22	ERCOT	ERCOTTEST_LSE_1	Apr 04, 2025 0241 PM	Accept	Apr 04 2025		No
867_03	ERCOTTEST_TDSP	ERCOT	Apr 04, 2025 0244 PM	Accept	Apr 04 2025		No

1st Unknown 814_20 Process

Details: 814_22

Print Details

From	ERCOT	To	ERCOTTEST_LSE_1
DUNS #	183529049	DUNS #	111111111
Request Submitted	20250404	Status/Action	Request Addition
Trxn Ref #	SBMO20250404144039 11HH7R8F	Orig Trxn Ref #	OTIDMVO1105198080TSTEWART
TDSP Name	ERCOTTEST_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	SMOKETEST	Qualifier	MeterInformation
Meter Type	KHMON	TDSP Rate Class	00
Load Profile	BUSLOLF_WEST_NIDR_NWS_NOTOU	Meter Reading Cycle	21
Metered Service Type		Metered Service Description	
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

Customer at premise issues a MVO, if there will be a CSA on the requested date of the MVO, ERCOT will treat the MVO as a MVO to 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.

Find Transactions – MVO trumps SWI

Transaction Summary for ESI ID: ESIID105181708SEDHARA

Download Results | Print Summaries

Move Out
Switch
Status: Scheduled — Original Trxn #: OTIDSW1105198102TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_01	ERCOTTEST_LSE_1	ERCOT	Apr 07, 2025 0717 AM	Accept	Apr 09 2025		No
814_03	ERCOT	ERCOTTEST_TDSP	Apr 07, 2025 0717 AM	Accept	Apr 09 2025		No
814_04	ERCOTTEST_TDSP	ERCOT	Apr 07, 2025 0720 AM	Accept	Apr 09 2025		No
>> 814_05	ERCOT	ERCOTTEST_LSE_1	Apr 07, 2025 0720 AM	Accept	Apr 09 2025		No
814_06	ERCOT	LSE	Apr 07, 2025 0721 AM	Accept	Apr 09 2025		No

Switch
1st Unknown 814_20 Process

Details: 814_06

Print Details

From	ERCOT	To	ERCOTTEST_LSE_2
DUNS #	183529049	DUNS #	111111112
Request Submitted	20250407		
Trxn Ref #	SBSW20250407072121 1HHT06Q	Status/Action	Request Delete
Orig Trxn Ref #	OTIDSW1105198102TSTEWART	Reason	CHA
Service Period End	20250409		

Customer issues a SWI on 4/7 for 4/9.

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

Back

Transaction Summary for ESI ID: ESIID105181708SEDHARA

CSA Established: REP of Record: Mar 11 2025

Download Results | Print Summaries | ?

Move Out

Status: Scheduled | Original Trxn #: | OTIDMVO1105198106TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_24	ERCOTTEST_LSE_2	ERCOT	Apr 07, 2025 0730 AM	Accept	Apr 07 2025		No
814_24	ERCOT	ERCOTTEST_TDSP	Apr 07, 2025 0730 AM	Accept	Apr 07 2025		No
814_25	ERCOTTEST_TDSP	ERCOT	Apr 07, 2025 0733 AM	Accept	Apr 07 2025		No
814_25	ERCOT	ERCOTTEST_LSE_2	Apr 07, 2025 0733 AM	Accept	Apr 07 2025		No

Switch

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 ESI ID: ESIID105181708SEDHARA

Download Results | Print Summaries

Move Out

Switch

Status: Cancelled | Original Trxn #: OTIDSW1105198102TSTEWART

Type	From	To	ERCOT Time Stamp ▲	Trxn Status	Key Date	Retry Status	Duplicate
814_01	ERCOTTEST_LSE_1	ERCOT	Apr 07, 2025 0717 AM	Accept	Apr 09 2025		No
814_03	ERCOT	ERCOTTEST_TDSP	Apr 07, 2025 0717 AM	Accept	Apr 09 2025		No
814_04	ERCOTTEST_TDSP	ERCOT	Apr 07, 2025 0720 AM	Accept	Apr 09 2025		No
814_05	ERCOT	ERCOTTEST_LSE_1	Apr 07, 2025 0720 AM	Accept	Apr 09 2025		No
814_06	ERCOT	LSE	Apr 07, 2025 0721 AM	Accept	Apr 09 2025		No
814_08	ERCOT	LSE	Apr 07, 2025 0734 AM	Accept	Apr 09 2025		No
>> 814_08	ERCOT	ERCOTTEST_LSE_1	Apr 07, 2025 0734 AM	Accept	Apr 09 2025		No
814_08	ERCOT	ERCOTTEST_TDSP	Apr 07, 2025 0734 AM	Accept	Apr 09 2025		No

Switch

1st Unknown 814_20 Process

Details: 814_08

Print Details

From	ERCOT	To	ERCOTTESTLSE
DUNS #	183529049	DUNS #	111111111
Request Submitted	20250407		
Trxn Ref #	SBSW20250407073333311HHT064	Status/Action	Request Cancellation
Orig Trxn Ref #	OTIDSW1105198102TSTEWART	Reason	CCE
Transfer Type			

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

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: Required

REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS

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

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

Data Element Summary

One or more

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification Q5 Property Control Number Electric 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

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

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~~~~20080510195653 4~~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

		From				To			
Transaction Type	Trans #	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…

		From				To			
Transaction Type	Trans #	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	**Billing Scenarios Version November 2024**
TX SET flow documentation for beginning and ending continuous service agreements (CSAs)	**Continuous Service Agreement Scenarios November 2024**
TX SET flow documentation for handling Move In changes and problems	**Customer Move In Scenarios November 2024**
TX SET flow documentation for handling Move Out changes and problems	**Customer Move Out Scenarios November 2024**
TX SET flow documentation for handling customer switch request	**Customer Switch Scenarios November 2024**

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	**Disconnect Reconnect Non Pay Scenarios November 2024**
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)	**Mass Transition / Acquisition Scenarios November 2024**
TX SET flow documentation for handling Switch Hold add and removal	**Switch Hold Scenarios November 2024**
TX SET flow documentation of how to report unplanned outages	**Unplanned Outages Scenarios November 2024**

Texas SET Swimlanes – **New with TX SET v5.0**

Texas SET Swimlanes Scenarios	
Description	**File Name and Web Link to Documentation**
TX SET flow documentation for Inadvertent Gain, Inadvertent Loss and Customer Recession.	**Inadvertent Gain, Inadvertent Loss, Customer Recission Scenarios**

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 5.0** of the Texas SET Implementation Guides contains updates to retail transactions to support the following:

- NPRR 1095 – Texas SET V5.0 Changes
- RMGRR 169 – Related to NPRR1095, Texas SET V5.0 Changes
- Outstanding Change Controls identified and approved by the Texas Set Working Group
- SCR 823 – ERCOT's Mass System "County Name" File Updates for Texas SET v5.0 Implementation
- NPRR 1168 – Related to RMGRR172, Texas SET V5.0 Continuous Service Agreements Changes
- RMGRR 172 – Texas SET V5.0 Continuous Service Agreements Changes
- RMGRR 179 – TDSP Temporary Emergency Electric Energy Facility (TEEEF) Deployment Transactional Processing

It was implemented on November 11, 2024.

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 V5.0 650 Service Orders Point to Point	Guides Examples
Texas SET V5.0 810 TDSP's Invoice Point to Point	Guides Examples SAC04 Files
Texas SET 5.0 820 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 V5.0 814 Enrollments, MVI, MVO, Create/Maintenance/Retire, Maintain Customer Information	Guides Examples
Texas SET V5.0 824 Invoice or Usage Reject Notification	Guides Examples
Texas SET V5.0 867 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 V5.0 997 Functional Acknowledgement	Guides
Texas SET V5.0 T-Series CR Option 1 Outage Transactions	Guides

Registration and Qualification/Certification

Registration

- The LSE Application for Registration can be found in **Section 23** of the Protocols.

Qualification/Certification

- CRs must be certified by ERCOT. Please read more about **Retail Market Test Flight Information**
- CRs operating as REPs must also be certified by the Public Utility Commission of Texas (PUCT). Please refer to the **Retail Electric Providers Certification and Reporting** section of the PUCT website for more information.
- 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.	Texas Retail Testing
Retail Market Test Scripts and Workbook	Flight Test Scripts Workbook and Testing Requirements Matrix - TX SET 5.0
FlighTrak Users Guide	FlighTrak Users Guide v1.1
Retail Test Environment Users Guide	Retail Market Test Environment User Guide

Retail Market Testing

Key Documents	
Description	**File Name & Web Link to Documentation**
FlighTrak Administrator Form	**FlighTrak Administrator Form**
Retail Market Testing Frequently Asked Questions	**Retail Market Testing Frequently Asked Questions**
Testing to Production Checklist	**Testing to Production Checklist**