



Standard Electronic Transaction

867 Meter Usage

EDI Tutorial

Last Update - June 5, 2001

Electronic Data Interchange
ANSI ASC X12 Ver/Rel 004010
Texas SET - Version 1.3

Meter Usage Transactions

Trans. Set	From	To	Description
867_01	TDSP	ERCOT	Conversion/Opt-in Historical Usage
867_02	TDSP	ERCOT	Historical Usage
867_03	TDSP	ERCOT	Monthly Usage (Interval – Metered)
867_04	TDSP	ERCOT	Initial Meter Read Notification

**Conversion/Opt-in Historical Usage****Description:**

This transaction set, from the TDSP to ERCOT, is used report historical usage for conversion / opt-in.

Scenario:

TDSP → ERCOT: Un-Metered Historical Usage for Conversion and Opt-in (Non-Interval Metered)

Transaction Set Example:**ST*867*000000001:**

Header identifies the transaction set (867), and Control Number (000000001)

BPT*52*20010216123456*20010216*DD:

SET Purpose (52) Response for Historical meter data, Originator's Record ID, Transaction Date, Report code type (DD) indicating Non-Interval Meters and Unmetered Services

REF*Q510443720003933539:**

Code (Q5) indicating Electric Service Identifier (ESI ID) to follow, ESI ID for premise

N1*8S*TXU ELECTRIC COMPANY*9*103994067400041:**

Code (8S) indicating entity as TDSP, Name, code qualifier (9 for DUNS+4), TDSP's DUNS+4, Code (41) indicating entity is Submitter

N1*AY*ERCOT*1*18352904940:**

Code (AY) indicating entity as ERCOT, Name, code qualifier (1 for DUNS, 9 for DUNS+4), ERCOT DUNS or DUNS+4, Code (40) indicating entity is Receiver

PTD*SU:

Code (SU) indicating Non-Interval Usage Summary

REF*MT*KHMON:

Meter Type (MT), Kilowatt hours per Month (KHMON)

QTY*QD*5660:

Actual Quantity Delivered (QD), Quantity Amount

MEAPRQ*5660*****51:**

Measurement [Segment Tag], code (PRQ) indicating Consumption, Consumption Value, Measurement code (51) – Total

DTM*150*20010228:

Code (150) indicating Service Period Start Date, CCYYMMDD



EDI TUTORIALS

DTM*151*20010330:

Code (151) indicating Service Period End Date, CCYYMMDD

SE*12*00000001:

Trailer identifies number of segments (12), and Control Number (00000001)

Historical Usage**Description:**

This transaction set, from the TDSP to ERCOT, is used to report historical usage. Usually sent with an 814_04 Response transaction.

Scenarios:

TDSP → ERCOT: Historical Usage for Interval Reporting (12 Months), examples shows two months

Transaction Set Example:**ST*867*000000002:**

Header identifies the transaction set (867), and Control Number (000000002)

BPT*52*200100503123456*200100503*C1***200100430123456:**

SET Purpose (52) Response for Historical meter data, Originator's Record ID, Transaction Date, Report code type (C1) Interval Meters, Previous Submitter's Record ID (BGN06 of 814_03 or 814_26)

REF*Q5101234567893933539:**

Code (Q5) indicating Electric Service Identifier (ESI ID) to follow, ESI ID for premise

N1*8S*TXU ELECTRIC COMPANY*9*103994067400041:**

Code (8S) indicating entity as TDSP, Name, code qualifier (9 for DUNS+4), TDSP's DUNS+4, Code (41) indicating entity is Submitter

N1*AY*ERCOT*1*18352904940:**

Code (AY) indicating entity as ERCOT, Name, code qualifier (1 for DUNS), ERCOT DUNS, Code (40) indicating entity is Receiver

N1*SJ*COMPETITIVE RETAILER*1*007725152:

Code (SJ) indicating entity as CR, Name, code qualifier (1 for DUNS, 9 for DUNS+4), CR's DUNS or DUNS+4

PTD*BO*MG*8631088GE:**

1st Month: Code (BO) indicating **INTERVAL SUMMARY** Information, Meter Number (MG), Number

DTM*150*20000331:

Code (150) indicating Service Period Start Date, CCYYMMDD

DTM*151*20000430:

Code (151) indicating Service Period End Date, CCYYMMDD



EDI TUTORIALS

REF*JH*A:

Meter Role (JH), code (A) indicating Additive – this consumption contributed to the summarized total

REF*MT*KH015:

Meter Type (MT), Kilowatt Hour per 15 Minute Interval (KH015)

QTY*QD*792000

Actual Quantity Delivered (QD), Interval Summary Quantity Value

MEA*AF*KH*15000*22920*51:**

Measurement, code (AF) indicating Actual Total, code (KH) indicating Kilowatt Hour, Range Minimum, Range Maximum, Ending Read, Measurement code (51) – Total

MEACO*1.22:**

Measurement, Transformer Loss Factor (CO), Number

MEAZA*.95:**

Measurement, Power Factor (ZA), Number

PTD*BO*MG*8631088GE:**

2nd Month: Code (BO) indicating INTERVAL SUMMARY Information, Meter Number (MG), Number

DTM*150*20000430:

Code (150) indicating Service Period Start Date, CCYYMMDD

DTM*151*20000531:

Code (151) indicating Service Period End Date, CCYYMMDD

Etc. etc. etc.

MEAZA*.86:**

Measurement, Power Factor (ZA), Number

PTD*PM*MG*8631088GE:**

1ST Month: Code (PM) indicating INTERVAL DETAIL Information, Meter Number (MG), Number

DTM*150*20000331:

Code (150) indicating Service Period Start Date, CCYYMMDD

DTM*151*20000430:

Code (151) indicating Service Period End Date, CCYYMMDD

REF*6W*1:

Channel Number (6W), Number



EDI TUTORIALS

REF*MT*KH015:

Meter Type (MT), Kilowatt Hour per 15 Minute Interval (KH015)

REF*JH*A:

Meter Role (JH), code (A) indicating Additive – this consumption contributed to the summarized total

QTY*QD*279.1

Actual Quantity Delivered (QD), Quantity Amount

DTM*194*20000331*0815:

Code (194) indicating Interval End, Date, Time

QTY*QD*289.5

Actual Quantity Delivered (QD), Quantity Amount

DTM*194*20000331*0830:

Code (194) indicating Interval End, Date, Time

Etc. Etc. Etc.

QTY*QD*258.5

Actual Quantity Delivered (QD), Quantity Amount

DTM*194*20000430*0815:

Code (194) indicating Interval End, Date, Time

PTD*PM*MG*8631088GE:**

*2ST Month: Code (PM) indicating **INTERVAL DETAIL** Information, Meter Number (MG), Number*

DTM*150*20000430:

Code (150) indicating Service Period Start Date, CCYYMMDD

DTM*151*20000531:

Code (151) indicating Service Period End Date, CCYYMMDD

DTM*194*20000430*0830:

Code (194) indicating Interval End, Date, Time

QTY*QD*277.6

Actual Quantity Delivered (QD), Quantity Amount

DTM*194*20000430*0845:

Code (194) indicating Interval End, Date, Time

QTY*QD*279.8

Actual Quantity Delivered (QD), Quantity Amount



EDI TUTORIALS

DTM*194*20000430*0900:

Code (194) indicating Interval End, Date, Time

Etc.

.
. (525,600 – 15 Minute Intervals Per Year)

QTY*QD*187.9

Actual Quantity Delivered (QD), Quantity Amount

DTM*194*20010430*0800:

Code (194) indicating Interval End, Date, Time

SE*566,000*000000002:

Trailer identifies number of segments (566,000), and Control Number (000000002)



***TDSP → ERCOT
867_03***

Monthly Usage (Interval - Metered)

Description:

This transaction set, from the TDSP to ERCOT, is used to report Interval, Non-Interval, and Monthly Usage.

Scenario:

TDSP → ERCOT: Interval Summary, Interval Detail, and ERCOT Summary (Single Meter – Commercial Account)

Transaction Set Example:

ST*867*000000001:

Header identifies the transaction set (867), and Control Number

BPT*00*1234567890000*20010501*C1:

SET Purpose (00) Original Usage for Interval Meter, Submitter's Record ID, Transaction Date, Report code type (C1) Interval Meters

REF*Q510443720003933539:**

Electric Service ID (ESI ID) for the Premise

REF*SR*ERCOT:

Power Region, Power Region of ESI ID

REF*TN*2001123456789:

Transaction Number, Original Reference ID of Move-In, Move-Out, Switch, or Drop to POLR

N1*8S*ELECTRIC DISTRIBUTION COMPANY*9*103994067400041:**

Code (8S) indicating entity as TDSP, Name, code qualifier (9 for DUNS+4), TDSP's DUNS+4, Code (41) indicating entity is Submitter

N1*AY*ERCOT*1*18352904940:**

Code (AY) indicating entity as ERCOT, Name, code qualifier (1 for DUNS), ERCOT DUNS, Code (40) indicating entity is Receiver

N1*SJ*COMPETITIVE RETAILER*1*007725152:

Code (SJ) indicating entity as CR, Name, code qualifier (1 for DUNS, 9 for DUNS+4), CR's DUNS or DUNS+4

PTD*BO*MG*1234567GE:**

Interval SUMMARY, Meter Number, Number (Totalized)

DTM*150*20010331:

Service Period Start Date, CCYYMMDD



EDI TUTORIALS

DTM*151*20010430:

Service Period End Date, CCYYMMDD

REF*MT*KH015:

Meter Type, Kilowatt hours per Month

REF*JH*A:

Meter Role, Additive

QTY*QD*777600

Interval Quantity, Actual, Quantity Amount

MEA*AF*KH*211232*988832*51:**

Monthly Measurement Actual Total, Measurement Code, Beginning Read, Ending Read, Totalized

MEACO*1.07**

Transformer Loss Factor (Required If Measured)

MEAZA*.83**

Power Factor (Required If Measured)

PTD*PM*MG*1234567GE:**

Interval DETAIL Loop, Meter Number, Number

DTM*150*20010331:

Service Period Start Date, CCYYMMDD

DTM*151*20010430:

Service Period End Date, CCYYMMDD

REF*6W*1:

Channel Number, Number (Only Required If a Meter has more than One Channel measuring the same Usage Type). REF 6W is used in this example for illustration purposes only.

REF*MT*KH015:

Meter Type, Kilowatt-hours per Month

REF*JH*A:

Meter Role, Additive

QTY*QD*289.623

Interval Quantity, Actual, Quantity Amount

DTM*194*20010331*2359:

Interval End, Date, Time



QTY*QD*271.45

Interval Quantity, Actual, Quantity Amount

DTM*194*20010401*0015:

Interval End, Date, Time

QTY*QD*279.21

Interval Quantity, Actual, Quantity Amount

DTM*194*20010401*0030:

Interval End, Date, Time

Etc.

.
.

. (1440 – 15 Minute Intervals Per Month)

QTY*QD*199.45

Interval Quantity, Actual, Quantity Amount

DTM*194*20010430*2359:

Interval End, Date, Time

PTD*PP:

Interval Usage SUMMARY Loop - Across Meters, (Required For ERCOT). If this example had more than one meter measuring kWh, the various meters kWh values will be added together and one quantity for each interval will be provided in one 15-minute interval.

DTM*150*20010331*2345:

Service Period Start Date, CCYYMMDD

DTM*151*20010430*0000:

Service Period End Date, CCYYMMDD

REF*MT*KH015:

Meter Type, Kilowatt-hours per Month

REF*JH*A:

Meter Role, Additive

QTY*QD*289.623

Interval Quantity, Actual, Quantity Amount

DTM*194*20010331*2359:

Interval End, Date, Time

QTY*QD*271.45

Interval Quantity, Actual, Quantity Amount



EDI TUTORIALS

DTM*194*20010401*0015:

Interval End, Date, Time

QTY*QD*279.21

Interval Quantity, Actual, Quantity Amount

DTM*194*20010401*0030:

Interval End, Date, Time

Etc.

.

.

. (1440 – 15 Minute Intervals Per Month)

QTY*QD*199.45

Interval Quantity, Actual, Quantity Amount

DTM*194*20010430*2359:

Interval End, Date, Time

SE*2930*000000001:

Trailer identifies number of segments, and Control Number

TDSP → ERCOT**Initial Meter Read Notification****867_04****Description:**

This transaction set, from the TDSP to ERCOT, is used to report initial read associated with a Move-In. In other words, this Transaction set is used to send the initial / start read and date upon completion of a Cycle / Off-Cycle Switch or Move-In.

Scenario:**TDSP → ERCOT: Initial Meter Notification Metered Services – TOU and Register Reads****Transaction Set Example:****ST*867*000000004:**

Header identifies the transaction set (867), and Control Number (000000004)

BPT*SU*1234567890000*20010216:

SET Purpose (SU) Status Update, Originator's Record ID, Transaction Date

REF*Q510443720003933539:**

Code (Q5) indicating Electric Service Identifier (ESI ID) to follow, ESI ID for premise

REF*TN*2001123456789:

Transaction Number, Original Reference ID of Move-In, Move-Out, Switch, or Drop to POLR

N1*8S*TXU ELECTRIC COMPANY*9*103994067400041:**

Code (8S) indicating entity as TDSP, Name, code qualifier (9 for DUNS+4), TDSP's DUNS+4, Code (41) indicating entity is Submitter

N1*AY*ERCOT*1*18352904940:**

Code (AY) indicating entity as ERCOT, Name, code qualifier (1 for DUNS), ERCOT DUNS, Code (40) indicating entity is Receiver

N1*SJ*COMPETITIVE RETAILER*1*007725152:

Code (SJ) indicating entity as CR, Name, code qualifier (1 for DUNS, 9 for DUNS+4), CR's DUNS or DUNS+4

PTD*BJ*MG*7G5415:**

Code (BJ) indicating the Switch Date / Read, code (MG) indicating Meter Number, Number

DTM*140*20010214:

Code (140) indicating Actual Meter Read Date, CCYYMMDD

QTY*QD*NV:**

Actual Quantity Delivered (QD), No Value (NV)



EDI TUTORIALS

MEA**KH*62000****51**

Measurement [Segment Tag], code (KH) indicating Kilowatt Hours, Switch Read, Measurement code (51) – Total

MEA**KH*62000****42**

Measurement [Segment Tag], code (KH) indicating Kilowatt Hours, Switch Read, Measurement code (42) – On Peak

SE*13*00000004:

Trailer identifies number of segments (12), and Control Number (00000004)