

Revenue Metering Reports Importing and Reading the IESO EDI-867 Meter Data File

GDE-XX (DRAFT)

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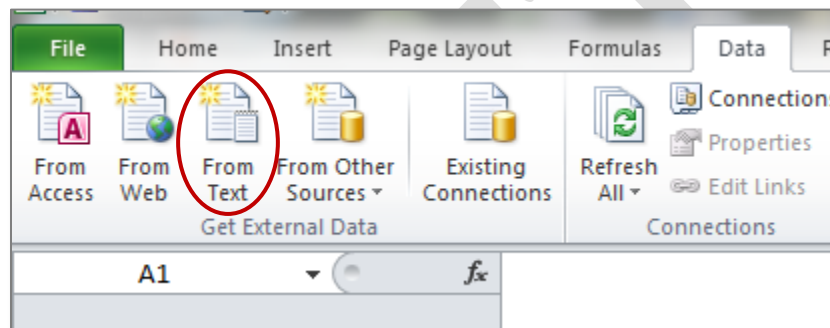
1. Importing an EDI-867 File into Excel

1.1 Introduction

Microsoft Excel is able to import EDI-867 data into an Excel worksheet using the Text Import Wizard.

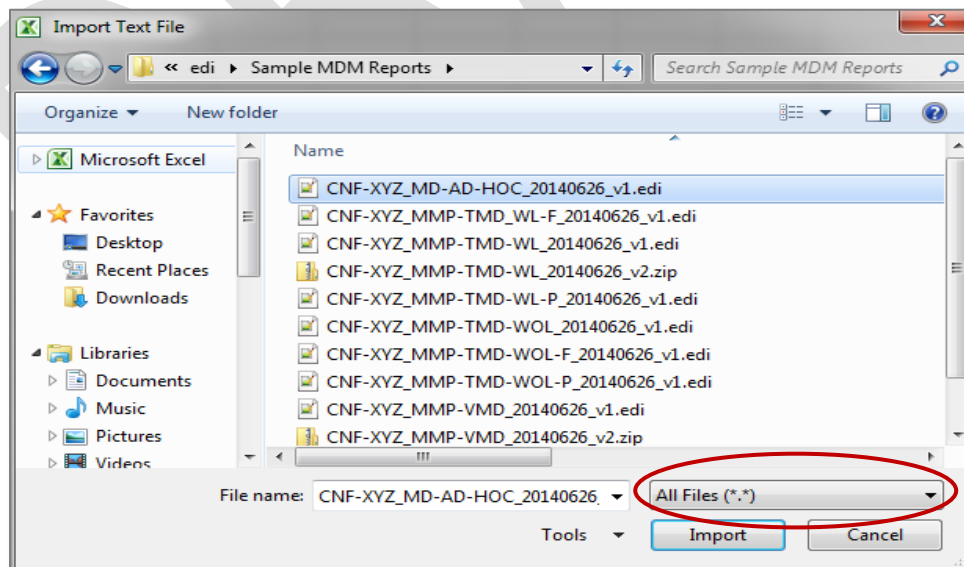
1.2 How to Import an EDI-867 File into Excel

1. Open a new workbook in **Microsoft Excel**.
2. On the **Data** tab, in the **Get External Data** group, click **From Text**.



Result: The Import Text File dialogue box appears.

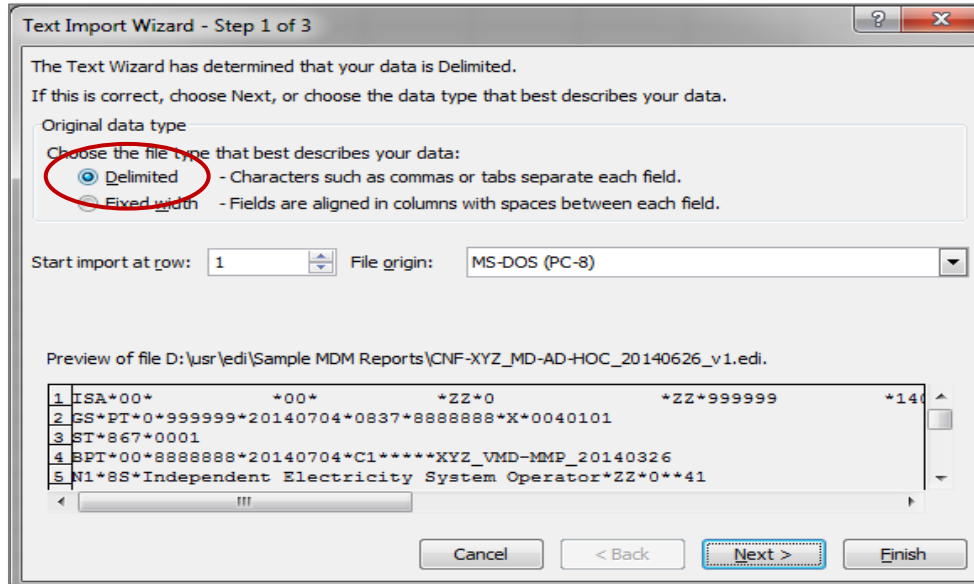
3. In the File Type dropdown box, select **All Files (*.*)**.



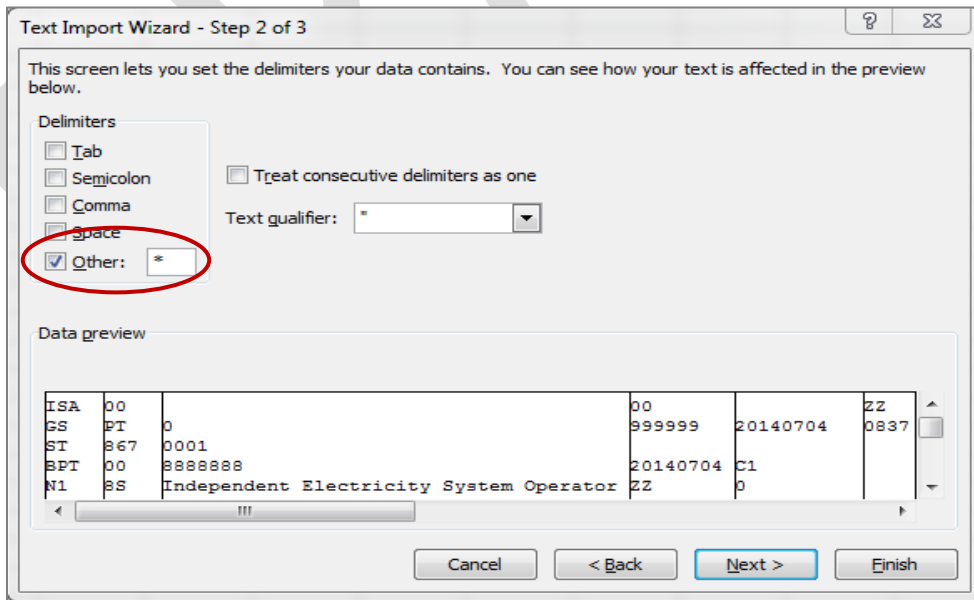
4. Select the EDI-867 file you want to import and click **Import**.

Result: The Text Import Wizard dialogue box appears.

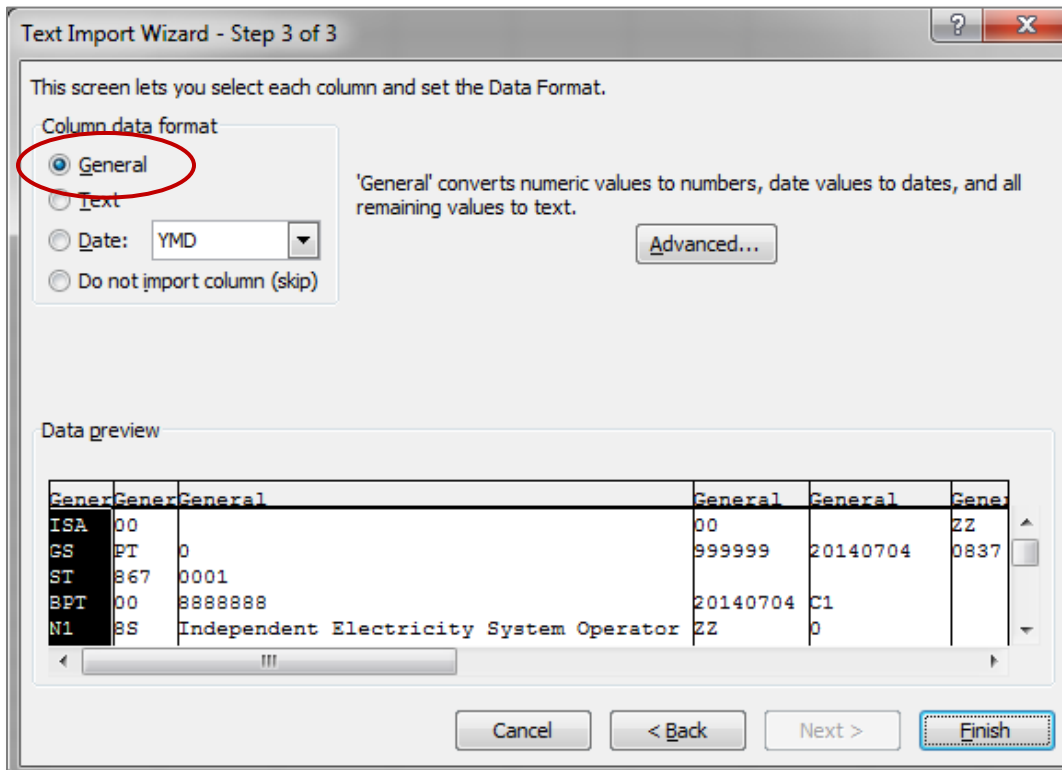
5. In the **Original data type** group, select **Delimited** then click **Next >**.



6. In the **Delimiters** group, select **Other** and enter an asterisk (*) in the box next to **Other** then click **Next >**.



- In the **Column data format** group, select **General** then click **Finish**.



Result: The EDI-867 data is imported as text to the Excel worksheet. This data can be formatted using a Macro or VBA if required.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
1	ISA	00		00		ZZ		0	ZZ	999999		140704	837	U	401	8888888	0
2	GS	PT	0	999999	20140704	837	8888888	X	40101								
3	ST	867	1														
4	BPT	00	8888888	20140704	C1					XYZ_VMD-MMP_20140326							
5	N1	8S	Independent Electricity System Operator	ZZ		0		41									
6	N1	SJ	XYZ	ZZ		999999		40									
7	REF	LU	1000099999														
8	PTD	PM			OZ	EL											
9	REF	6W	1														
10	REF	LU	1000099999														
11	REF	MG	2														
12	REF	MT	KH005														
13	QTY	QD	490.57	KH													
14	MEA	MU		24000	KH				22								
15	DTM	150				DT	2.01406E+11										
16	DTM	151				DT	2.01406E+11										
17	QTY	QD	487.3	KH													
18	QTY	QD	485.74	KH													
19	QTY	QD	490.73	KH													
20	QTY	QD	490.49	KH													
21	QTY	QD	487.41	KH													
22	QTY	QD	486.99	KH													
23	QTY	QD	488.31	KH													
24	QTY	QD	486.19	KH													
25	QTY	QD	479.14	KH													
26	QTY	QD	482.24	KH													

– End of Section –

2. Reading the IESO EDI-867 Meter Data File

This section describes the meter data information in EDI-867 files published by the IESO for market participants.

It is limited to describing the EDI-867 files produced by the meter data management system based on market participant profiles and through ad-hoc requests.

Please refer to the *IESO Implementation Guide for EDI-867 Meter Data* for additional information, including but not limited to, segment names, interval status code descriptions, service point option type descriptions.

2.1 How to Read This Section

The screenshots below are of Excel worksheets populated with sample data after an EDI-867 file import has been performed. EDI-867 data from the screenshot is highlighted and callouts provide detail about that data.

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2.2 Sample EDI Files in Excel

See the *IESO Implementation Guide for EDI-867 Meter Data* for additional information.

Service Point Option Type.
 ALLDP = All Delivery Points
 ALLSP = All Summary Points
 ALLMP = All Meter Points
 ALLDP+ALLSP = All Delivery Points and Summary Points
 ALLDP+ALLMP = All Delivery Points and Meter Points
 ALLSP+ALLMP = All Summary Points and Meter Points
 ALL = ALLDP + ALLSP + ALLMP
 DP = One or more Delivery Point

Unit of Measure and Interval size
 KH = kWh
 K3 = kVARh
 68 = I²h
 70 = V²h
 005 = Interval (5-min)
 015 = Interval (15-min)

Add values to obtain the sum of the interval.

Organization ID

EDI Reference Information:
 For reports produced from Meter Data Profile information, this field will read as Participant Role-Report Type. E.g., MMP-TMD-WL.
 For ad-hoc requests, this field will read as MD-AD-HOC-Request ID.

Interval Status
 3 = Meter disaggregation or compliance aggregation
 22 = Actual
 46 = Estimated
 88 = Edited

Channel number

Delivery point, summary point, or meter number

Multiplier

Right-click > Format Cells and set to "Number" with no decimal places to express the date stamp correctly.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	ISA	0		0		ZZ		0	ZZ	123456		150329	803	U	401	6217	0	T :
2	GS	PT		0	123456	20150329	803		6217	X	40101							
3	ST	867		1														
4	BPT	0		6217	20150329	C1												
5	N1	8S	Independent Electricity System Operator	ZZ					41									
6	N1	SI	Market Participant Short Name	ZZ		123456			40									
7	REF	LU	DP															
8	PTD	PM																
9	REF	6W																
10	REF	LU		1														
11	REF	MG		123456789														
12	REF	MT	KH005	123456789														
13	QTY	QD		0	KH													
14	MEA	MU				1	KH											
15	DTM	150								DT	2.01402E+11							
16	DTM	151								DT	2.01402E+11							
17	QTY	QD		0	KH													
18	QTY	QD		0	KH													
19	QTY	QD		0	KH													
20	QTY	QD		0	KH													
21	QTY	QD		0	KH													
22	QTY	QD		0	KH													
23	QTY	QD		0	KH													
24	QTY	QD		0	KH													
25	QTY	QD		0	KH													
26	QTY	QD		0	KH													
27	QTY	QD		0	KH													
28	QTY	QD		0	KH													
29	QTY	QD		0	KH													
30	QTY	QD		0	KH													
31	QTY	QD		0	KH													
32	QTY	QD		0	KH													
33	QTY	QD		0	KH													
34	QTY	QD		0	KH													

Figure 2-1: EDI-867 Data Overview

The callouts on the image below describe the identifiers on an EDI file that has multiple channels (PTD loops).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	ISA	0		0		ZZ		0	ZZ	112233	150416	1046	U	401	2135	0	T	:
2	GS	PT		0	123456	20150416	1046	2135	X	40101								
3	ST	867		1														
4	BPT	0	2135	20150416	C1													MD-AD-HOC-854
5	N1	8S	Independent Electricity System Operator	ZZ		0				41								
6	N1	SJ	Market Participant Short Name	ZZ		123456				40								
7	REF	LU	DP															
8	PTD	PM				OZ				EL								
9	REF	6W		1														
10	REF	LU		778899														
11	REF	MG		778899														
12	REF	MT	KH005															
13	QTY	QD		30.59		KH												
14	MEA		MU				1											
15	DTM	150								DT	201503300000							
16	DTM	151								DT	201503300005							
17	QTY	QD		30.56		KH												
18	DTM	150								DT	201503300005							
19	DTM	150								DT	201503300010							
20	QTY	QD		30.68		KH												
21	DTM	150								DT	201503300010							
22	DTM	150								DT	201503300015							
23	PTD	PM				OZ				EL								
24	REF	6W		2														
25	REF	LU		778899														
26	REF	MG		778899														
27	REF	MT	K3005															
28	QTY	QD		19.71		K3												
29	MEA		MU				1											
30	DTM	150								DT	201503300000							
31	DTM	151								DT	201503300005							
32	QTY	QD		19.66		K3												
33	DTM	150								DT	201503300005							
34	DTM	150								DT	201503300010							

Figure 2-2: Multiple Channel EDI-867 Sample

Third Sample EDI-867 File without callouts.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	ISA	0		0		ZZ		0	ZZ	111222	123456	101	U	401	6338	0	T	:
2	GS	PT		0	111222	20150331	101	6338	X	40101								
3	ST	867		1														
4	BPT	0	6338	20150331	C1					MMP-TMD-WL								
5	N1	8S	Independent Electricity System Operator	ZZ		0		41										
6	N1	SJ	Market Participant Short Name	ZZ		111222		40										
7	REF	LU	ALLDP															
8	PTD	PM			OZ	EL												
9	REF	6W		1														
10	REF	LU	123456789															
11	REF	MG	123456789															
12	REF	MT	KH005															
13	QTY	QD		0	KH													
14	MEA	MU		96000	KH			22										
15	DTM	150				DT	201503040000											
16	DTM	151				DT	201503040005											
17	QTY	QD		0	KH													
18	QTY	QD		0	KH													
19	QTY	QD		0	KH													
20	QTY	QD		0	KH													
21	QTY	QD		0	KH													
22	QTY	QD		0	KH													
23	PTD	PM			OZ	EL												
24	REF	6W		2														
25	REF	LU	123456789															
26	REF	MG	123456789															
27	REF	MT	K3005															
28	QTY	QD	1461.48	K3														
29	MEA	MU		1	K3			22										
30	DTM	150				DT	201503040000											
31	DTM	151				DT	201503040005											
32	QTY	QD	1517.69	K3														
33	QTY	QD	1554.83	K3														
34	QTY	QD	1582.66	K3														

Figure 2-3: Sample EDI-867 File in Excel

- End of Section -

3. Sample Formulas

Unless otherwise stated, the unit of measure (UOM) of the results of the calculations will have the same UOM of the channel. E.g., The UOM will be kWh if the UOM of the channel is kWh, or will be kVARh if the UOM of the channel is kVARh.

3.1 Total Usage (Per Day)

To calculate the total usage, add all of the intervals in a given day.

Total Usage for a different period (i.e., week, month) can be found by adding the calculated total usage values from a given period.

3.2 Maximum Demand (Per Day)

To calculate the maximum demand, multiply the highest interval value by the intervals per hour (IPH).

3.3 Daily Average Demand

The daily average demand is found by performing the following calculation:

$$\frac{\text{Total Usage} \times \text{IPH}}{\text{Total Number of Intervals}}$$

3.4 kVA Per Interval

The kVA per interval is found by performing the following calculation:

$$\sqrt{(\text{kWh} \times \text{IPH})^2 + (\text{kVARh} \times \text{IPH})^2}$$

Note: The UOM in this case will be kVA.

3.5 Power Factor (Per Interval)

The power factor per interval is found by performing the following calculation:

$$\frac{\text{kWh} \times \text{IPH}}{\text{kVA per interval}} \times 100$$

Note: The resulting value will be expressed as a percentage (%).

3.6 Load Factor (Per Day)

The load factor per day is found by performing the following calculation:

$$\frac{\text{Daily Average Demand}}{\text{Maximum Demand}} \times 100$$

Note: The resulting value will be expressed as a percentage (%).

– End of Section –

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References

Document Title	Document ID
<i>Revenue Metering Reports – Implementation Guide for EDI-867 Meter Data</i>	GDE-xx

Related Documents

Document Title	Document ID

– End of Document –