



# **Meter Site Manager 2**

**Version 2.6.0.7**

**Product Manual**

**Revision 1.5**

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# Contacting Powermetrix

## Technical Support

For technical support, please contact the factory at (865) 218-5837 (877-966-5851 toll free) and ask for “Powermetrix Technical Support.” You may alternatively email Powermetrix at [help@powermetrix.com](mailto:help@powermetrix.com). The support staff will answer questions about the operation and care of your equipment, assist you in troubleshooting a problem, and help you overcome common application difficulties whenever possible. If it becomes necessary for your equipment to be returned to us for any reason, you will be issued an RMA number during the technical support contact.

## Updates

Updates will be available at the PowerMaster<sup>®</sup> Support website at no charge. Contact technical support for a username and password. Please note that all previous versions of Meter Site Manager 2 must be uninstalled before updating. Refer to [Section 2.4](#) for further instructions.

## Feedback

Powermetrix depends on information from our customers to continue the attributes of quality, dependability, and simplicity associated with our products. We invite you to contact our Technical Support office.

## Release Notes

<b>Product:</b>	Meter Site Manager 2
<b>Version:</b>	2.6.0.7
<b>Release Date:</b>	1/10/20
<b>Database Version:</b>	2.4
<b>Manual Version:</b>	1.5

### What's New: 2.6.0.7

1. Changed connectivity to no longer require Windows Mobile Device Center and better support Windows 10 . Once connected, the PowerMaster will now appear as a USB mass storage device. All functionality of the application will remain unchanged.
2. Fixed bug in the Phantom Load Setup that prevents the current amplitude to display in the meter test report.
3. Added ability in User Preferences to allow the user to select the location for application data.
4. Added ability to export data into a custom Excel template. The user can select the template location in User Preferences. The template can be found on Powermetrix's Technical Library (<https://www.powermetrix.com/technical-library/>).
5. Added ability to export and synchronize data using an independent SQL Server stored on a local machine. All data is synchronized when the application closes.

### Stand Alone Application

1. Added a stand-alone application to run a batch conversion for waveform files. This tool will allow the user to browse a folder of waveform files (.bin) and convert them into .csv formats. This application can be found on Powermetrix's Technical Library (<https://www.powermetrix.com/technical-library/>).

# 1 System Requirements

## **PowerMaster®**

Main Application:

- Model 3 Series – 2.1.2.1 or higher
- Model 7 Series & 5 Series – 1.1.0.8 or higher
- Model 4 Series – 1.1.0.8 or higher

Windows CE (BSP): 2.2.1.0.100312 or higher

## **PC Hardware**

Memory: Min 1 GB of RAM (32-bit), 2 GB RAM (64-bit)

Hard Disk: Min 16 GB of available hard disk space

Display: Super VGA (1024 x 768) or higher-resolution monitor with 256 colors

Peripherals: Mouse or compatible pointing device & keyboard

## **PC Software**

Operating System: Windows 7, Windows 8.1, Windows 10

Microsoft Mobile Device Center 6.1 (for Windows 7 users)

Microsoft SQL Server Compact 3.5

Microsoft .NET Framework 3.5 SP1 or higher

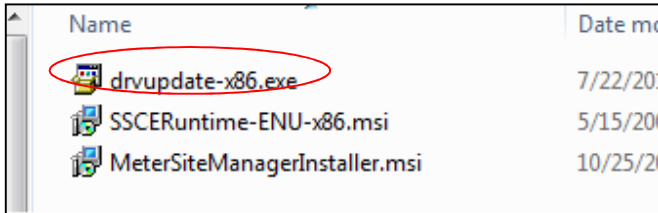
SQL Server 2014 Management Studio Express or higher

## 2 Installation

### 2.1 Windows 7 (32-bit)

#### Microsoft Mobile Device Center 6.1

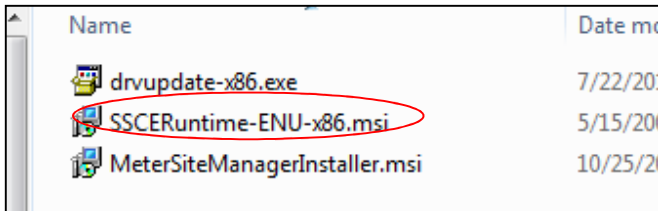
Before installing Meter Site Manager, Microsoft Mobile Device Center 6.1 must be installed first. Open the “Win7\_32bit” folder.



1. Double click the “**drvupdate-x86.exe**” file.
2. After installation, the driver will claim to not install correctly. Once the PowerMaster® is first connected, the driver will then install completely.

#### Microsoft SQL Server Compact 3.5

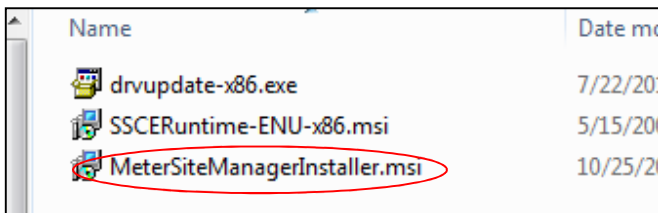
After installation of Microsoft Mobile Device Center 6.1, Microsoft SQL Server Compact 3.5 must be installed. Open the “Win7\_32bit” folder.



1. Double click the “**SSCERuntime-ENU-x86.msi**” file. Click “Next” to begin installation.
2. Accept the terms and agreement. Click “Next”.
3. Click “Install”.
4. Click “Finish” to complete installation.

#### Meter Site Manager Application

After installation of Microsoft Mobile Device Center 6.1 and Microsoft SQL Server Compact 3.5, Meter Site Manager can now be installed.

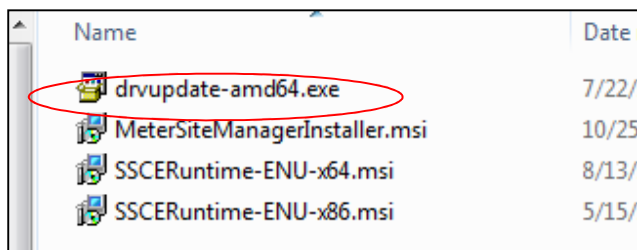


1. Double-click the “**MeterSiteManagerInstaller.msi**” file.
2. Click “Next” to continue.
3. Select “Everyone”. Click “Next”.
4. Click “Next”.
5. Click “Close” to complete installation.

## 2.2 Windows 7 (64-bit) & 8.1

### Microsoft Mobile Device Center 6.1

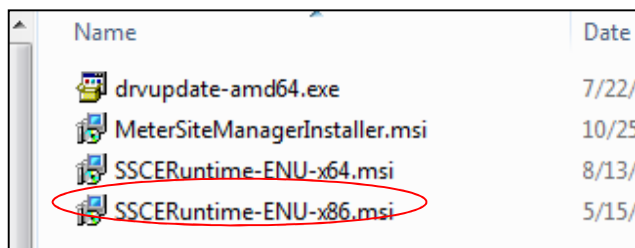
Before installing Meter Site Manager, Microsoft Mobile Device Center 6.1 must be installed first. Open the “Win7\_64bit” folder.



1. Double click the “**drvupdate-amd64.exe**” file.
2. After installation, the driver will claim to not install correctly. Once the PowerMaster® is first connected, the driver will then install completely.

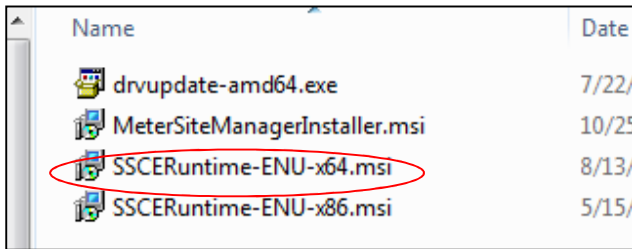
### Microsoft SQL Server Compact 3.5

After installation of Microsoft Mobile Device Center 6.1, Microsoft SQL Server Compact 3.5 (32-bit) must be installed. Open the “Win7\_64bit” folder.



1. Double click the “**SSCERuntime-ENU-x86.msi**” file. Click “Next” to begin installation.
2. Accept the terms and agreement. Click “Next”.
3. Click “Install”.
4. Click “Finish” to complete installation.

After installation of Microsoft SQL Server Compact 3.5 (32-bit), Microsoft SQL Server Compact 3.5 (64-bit) must be installed. Open the “Win7\_64bit” folder.

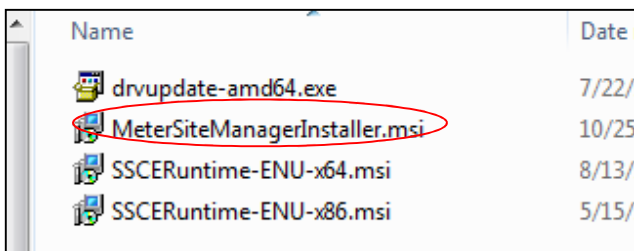


Name	Date
drvupdate-amd64.exe	7/22/
MeterSiteManagerInstaller.msi	10/25
SSCERuntime-ENU-x64.msi	8/13/
SSCERuntime-ENU-x86.msi	5/15/

5. Double click the “**SSCERuntime-ENU-x64.msi**” file. Click “Next” to begin installation.
6. Accept the terms and agreement. Click “Next”.
7. Click “Install”.
8. Click “Finish” to complete installation.

### Meter Site Manager Application

After installation of Microsoft Mobile Device Center 6.1 and Microsoft SQL Server Compact 3.5, Meter Site Manager can now be installed.

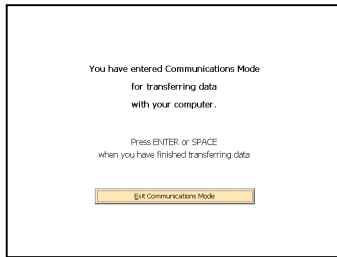


Name	Date
drvupdate-amd64.exe	7/22/
MeterSiteManagerInstaller.msi	10/25
SSCERuntime-ENU-x64.msi	8/13/
SSCERuntime-ENU-x86.msi	5/15/

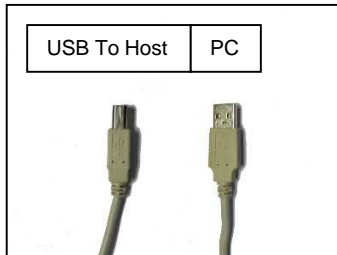
1. Double-click the “**MeterSiteManagerInstaller.msi**” file.
2. Click “Next” to continue.
3. Select “Everyone”. Click “Next”.
4. Click “Next”.
5. Click “Close” to complete installation.

### Microsoft Mobile Device Center 6.1 (Continued)

1. Turn on the PowerMaster®.
2. When at the Main Menu on the PowerMaster®, select “Utilities” then “Connect to Meter Site Manager”.



3. Use the USB cable to connect to the PC.

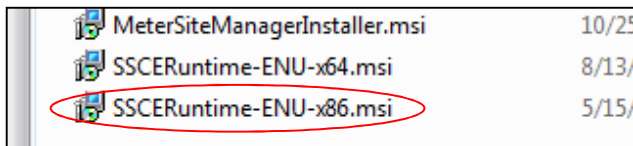


4. Once connected, allow drivers and Mobile Device Center application to automatically install.

## 2.3 Windows 10

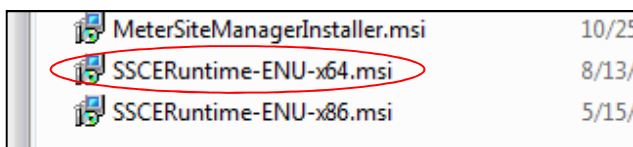
### Microsoft SQL Server Compact 3.5

After installation of Microsoft Mobile Device Center 6.1, Microsoft SQL Server Compact 3.5 (32-bit) must be installed. Open the "Win7\_64bit" folder.



1. Double click the "**SSCERuntime-ENU-x86.msi**" file. Click "Next" to begin installation.
2. Accept the terms and agreement. Click "Next".
3. Click "Install".
4. Click "Finish" to complete installation.

After installation of Microsoft SQL Server Compact 3.5 (32-bit), Microsoft SQL Server Compact 3.5 (64-bit) must be installed. Open the "Win7\_64bit" folder.

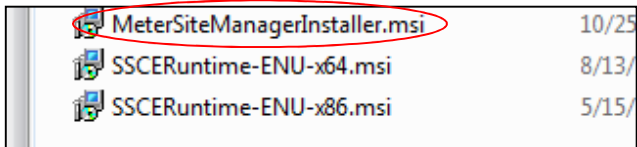


5. Double click the "**SSCERuntime-ENU-x64.msi**" file. Click "Next" to begin installation.

6. Accept the terms and agreement. Click “Next”.
7. Click “Install”.
8. Click “Finish” to complete installation.

### Meter Site Manager Application

After installation of Microsoft Mobile Device Center 6.1 and Microsoft SQL Server Compact 3.5, Meter Site Manager can now be installed.

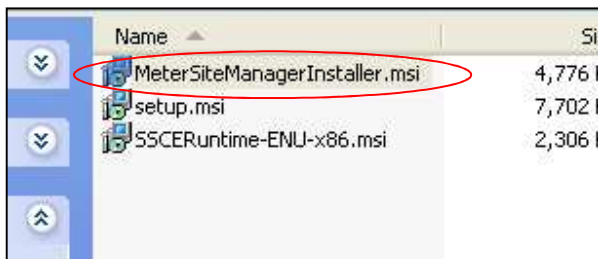


6. Double-click the “**MeterSiteManagerInstaller.msi**” file.
7. Click “Next” to continue.
8. Select “Everyone”. Click “Next”.
9. Click “Next”.
10. Click “Close” to complete installation.

## 2.4 Updating (all Operating Systems)

Before updating Meter Site Manager 2, the previous version must be uninstalled first. Do the following:

1. Click Start, Control Panel
2. At the Control Panel, click “Add or Remove Programs”, or “Uninstall a Program”
3. Find “Meter Site Manager 2” in the list, and click “Remove”
4. After uninstalling the previous version of Meter Site Manager 2, open the “MeterSiteManager2” folder. Double click “MeterSiteManagerInstaller.msi”. Ignore all other files.



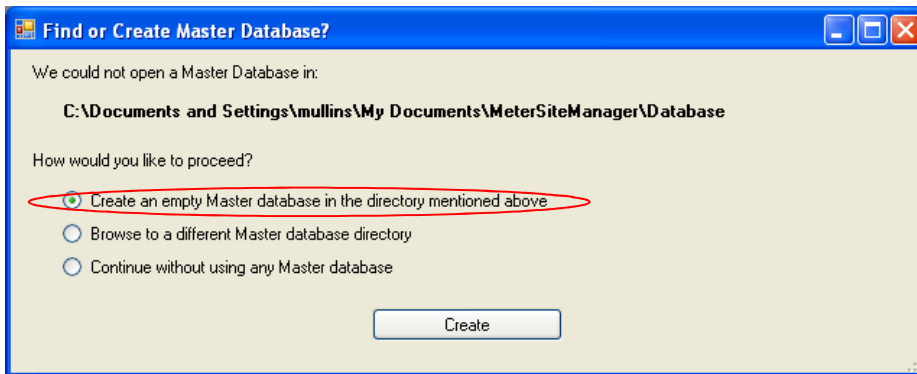
5. Install as normal (see “Meter Site Manager Application” under Section 2 for further instructions).

### 3 Creating a Master Database

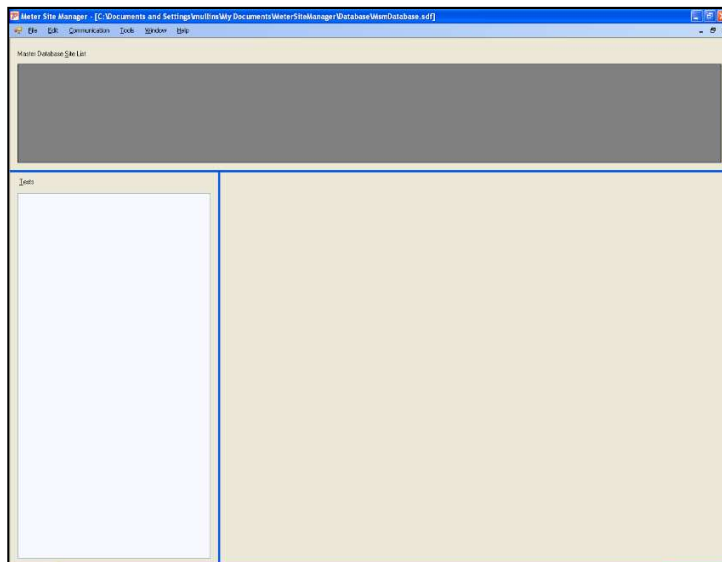
The first time the software is launched, the user is prompted to create a master database to store all data uploaded from the PowerMaster®. The user has the option to store the master database on a hard drive or a network drive. It is recommended that the user creates ONE master database on the hard drive OR network drive; not both. The user can always change the master database directory path at any time (File, Change Master Database Directory...). Below are the steps involved in creating the master database:

#### Storing the Master Database on a Hard Drive (C:)

1. At the user prompt, select “Create an empty Master database in the directory mentioned above” to create the master database on the user’s hard drive. Click “Create”.

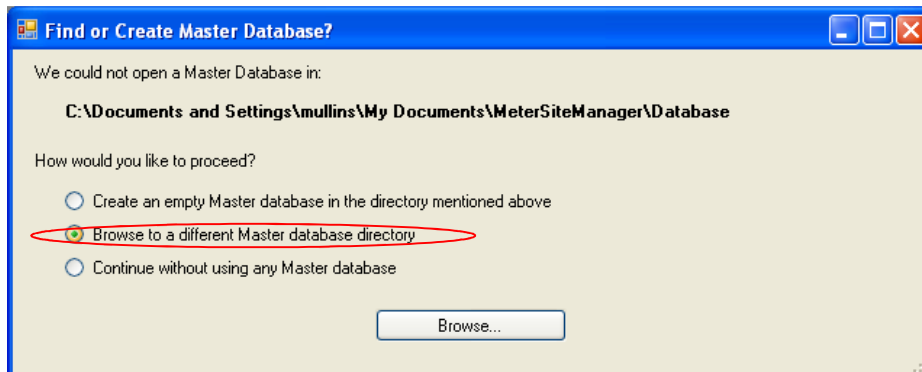


2. After the master database is created, the main screen in Meter Site Manager will display noting the blank database. If the user has any backup databases that need to be merged into the master database, see “Merging Backup Databases Into the Master Database”.

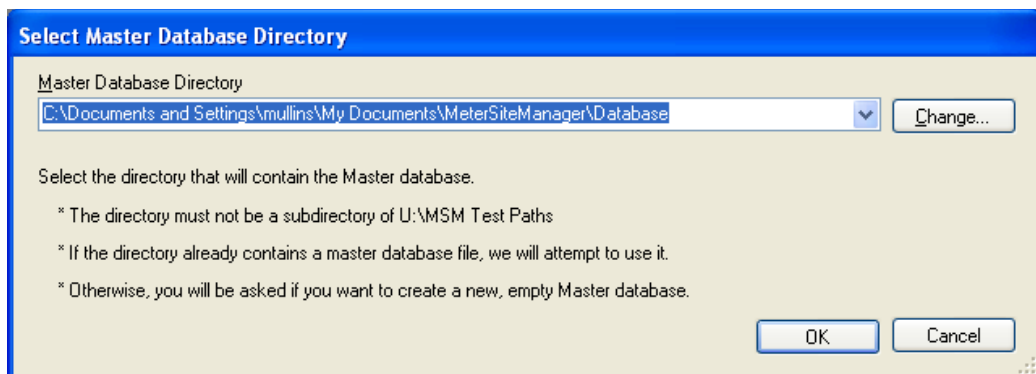


## Storing the Master Database on a Network Drive

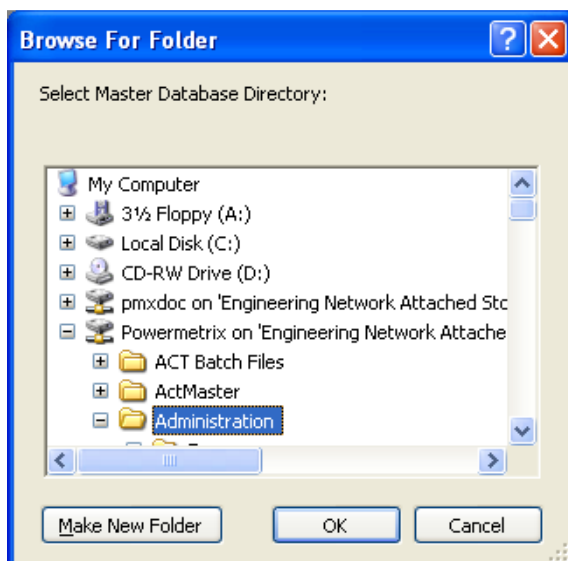
1. At the user prompt, select “Browse to a different Master database directory” to create the master database on the user’s network drive. Click “Browse”.



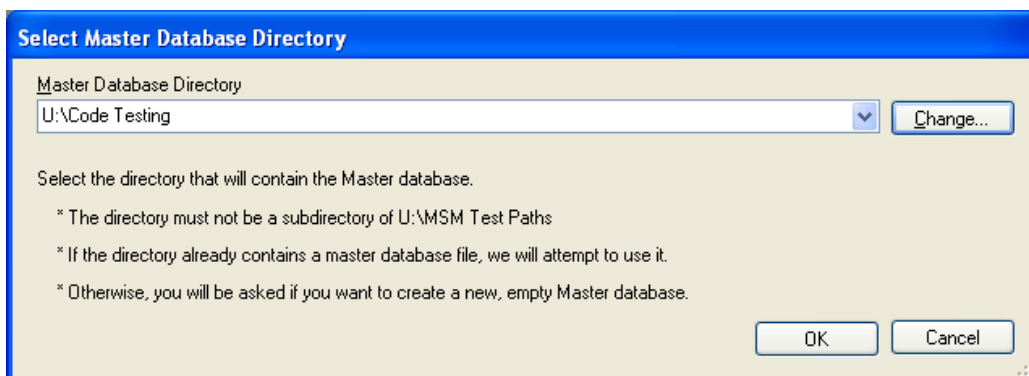
2. Click “Change” to browse and set the master database directory. Please note that the Master Database cannot be stored in a subdirectory of the “Database Backup Directory” (found in Preferences).



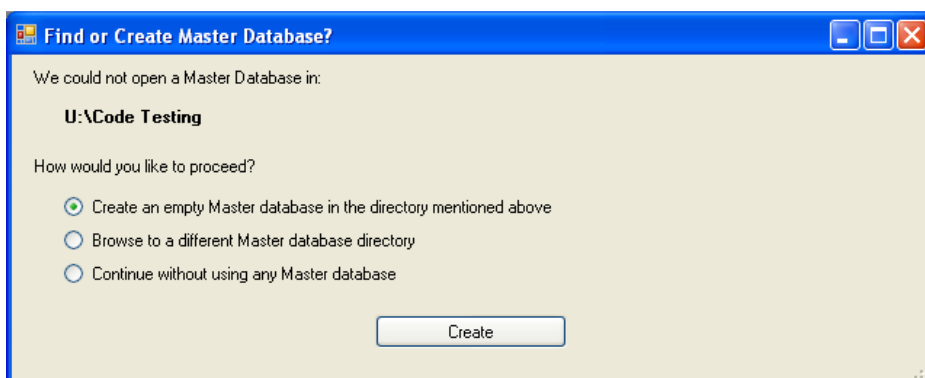
3. Browse the network directory. If needed, click “Make New Folder” to create a separate folder for the network directory. Click “Ok” when complete.



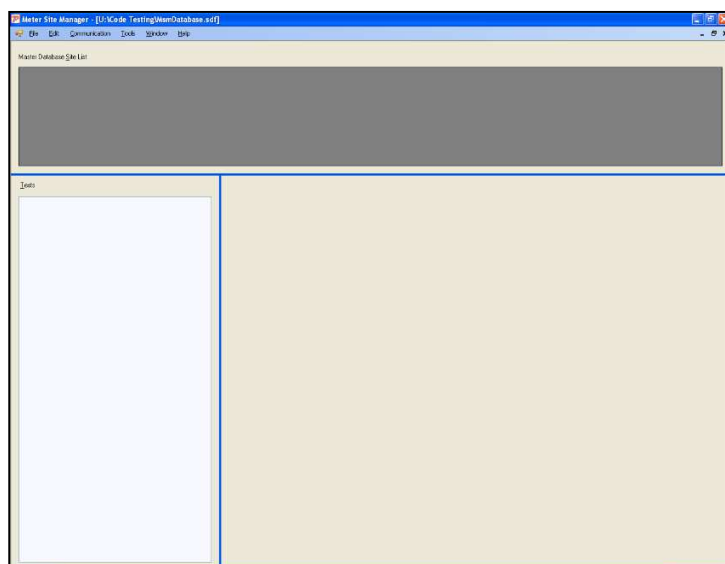
4. After selection of the directory, press “Ok”.



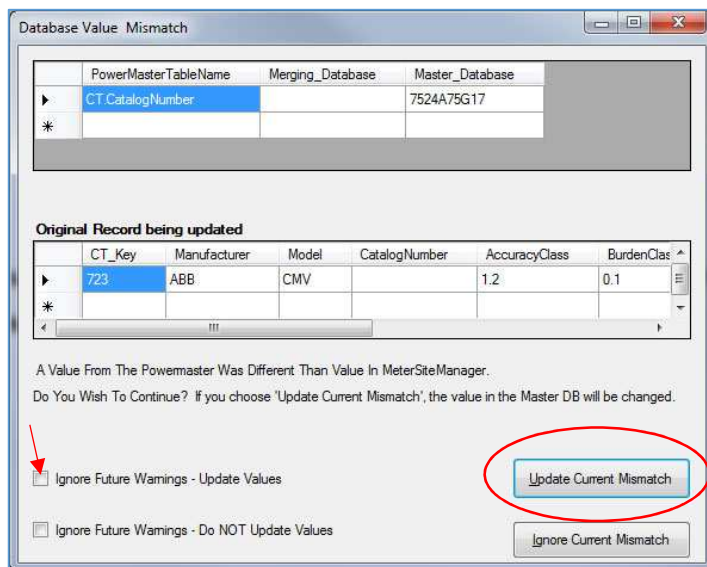
5. Click “Create” to complete the process.



6. After the master database is created, Meter Site Manager will display the blank database. If the user has any backup databases that need to be merged into the master database, see “Merging Backup Databases into the Master Database”.



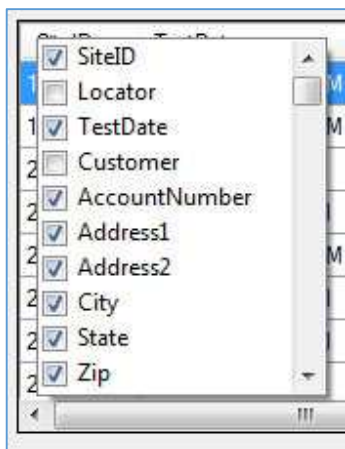
- If a pop-up box appears that is similar to the one below, check the box marked “Ignore Future Warnings – Update Values” and then click “Update Current Mismatch”.



### 3.1 Customizing Master Database View

Once a master database has been formed, the amount of columns viewable, and the names of the viewable columns can be selected and customized.

- Left click on the column labeled “Mark”.



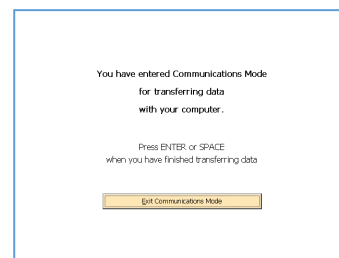
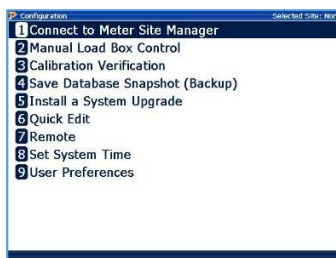
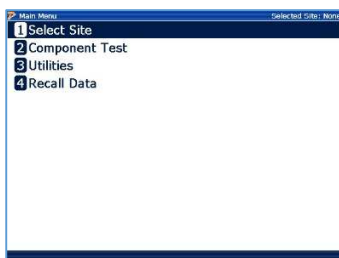
- One clicked on, a small window appears allowing any column to be checked to view, or unchecked to remove from view. Once done, left click anywhere to remove the box. Columns can also be clicked on to sort their fields in ascended to descending order.

## 4 Connecting the PowerMaster<sup>®</sup> to the PC (Windows 7 & 8.1)

1. Open Meter Site Manager by double-clicking “Meter Site Manager 2” icon on the desktop.



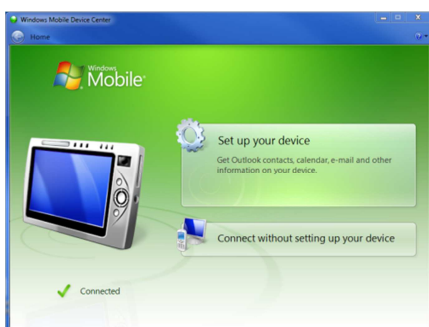
2. When at the Main Menu on the PowerMaster<sup>®</sup>, select “Utilities” then “Connect to Meter Site Manager”



3. Use the USB cable to connect to the PC.



4. Listen for the PowerMaster<sup>®</sup> to chirp three times, and for Windows Mobile Device Center to launch. Minimize or close Mobile Device Center window after “Connected” message is verified. If no connection is confirmed, unplug and reconnect USB cable again.



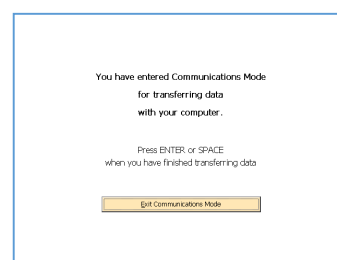
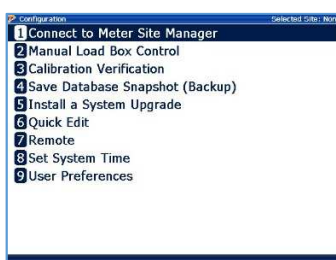
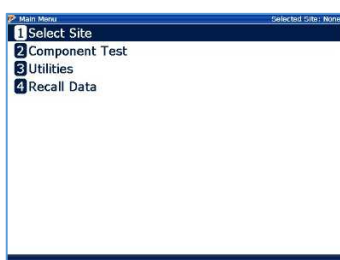
## 5 Connecting the PowerMaster<sup>®</sup> to the PC (Windows 10)

NOTE: This feature requires BSP 4.0.0.191015 or greater.

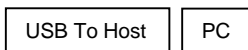
1. Open Meter Site Manager by double-clicking “Meter Site Manager 2” icon on the desktop.



2. When at the Main Menu on the PowerMaster<sup>®</sup>, select “Utilities” then “Connect to Meter Site Manager”

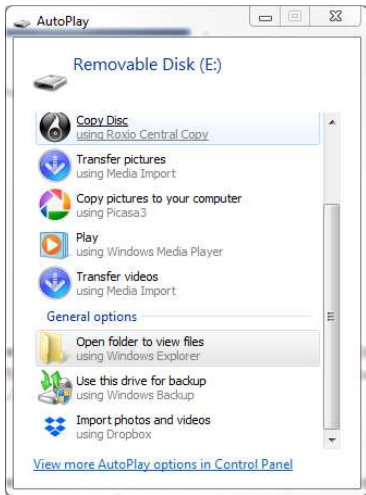


3. Use the USB cable to connect to the PC.



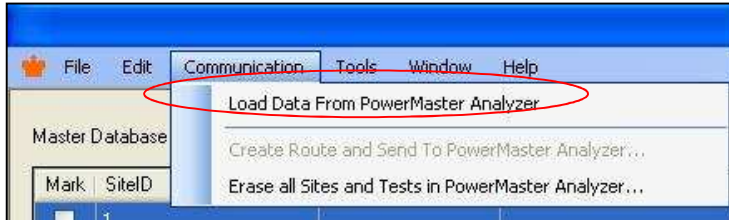
**WARNING:** If the user connects the USB cable **BEFORE** placing the PowerMaster in communications mode, the PowerMaster application will display an error requiring the user to reboot. Only connect the USB cable **AFTER** the PowerMaster is in communications mode.

4. .On the PC, the user should wait between 30-60 seconds before the PC recognizes the device. DO NOT DISCONNECT USB CABLE.
5. On the PC, a window will display showing the PowerMaster’s file directory similar to a USB flash drive. Minimize or close the window, and go to Section 6 for Uploading Data from the PowerMaster to the PC.



## 6 Uploading Data from the PowerMaster® to the PC

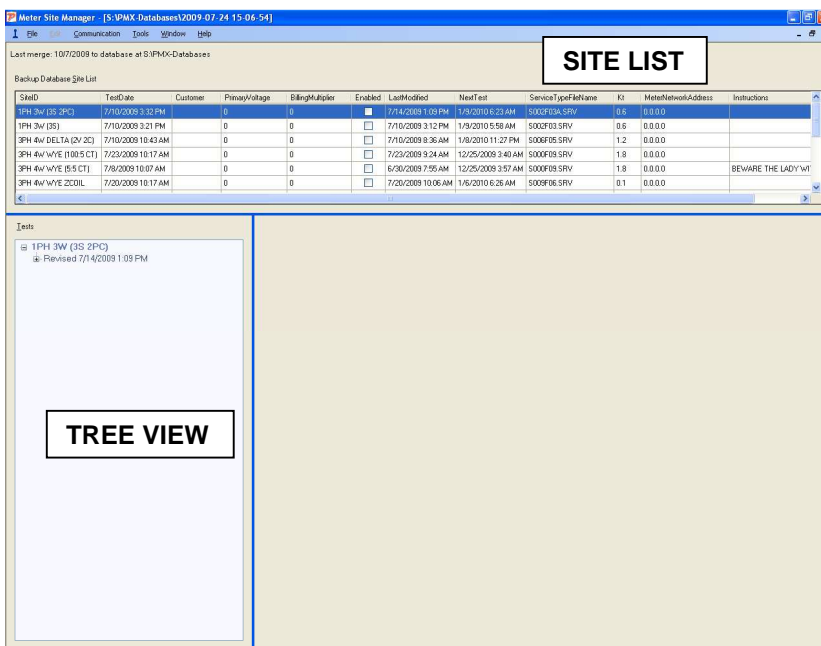
1. In Meter Site Manager 2, click on “Communication”, then on “Load Data from PowerMaster Analyzer.”



2. Messages will appear in a separate window to indicate what is taking place. Transferring the PowerMasterDatabase.sdf file will take several minutes.



3. Once the database has transferred, Meter Site Manager 2 will try to open it and automatically merge it into the master database. You will see a Site List at the top off the screen, and a Tree View of the data in the database in a panel at the left.

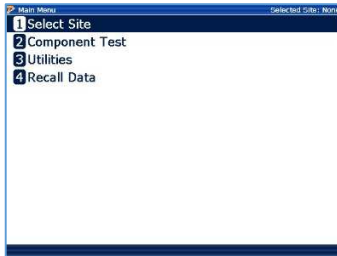


**WARNING:** Data trends are not transferred at the same time as the database. If you have data trend saved to USB or SD card memory devices, do not wipe them out after transferring the database, or you will lose data!

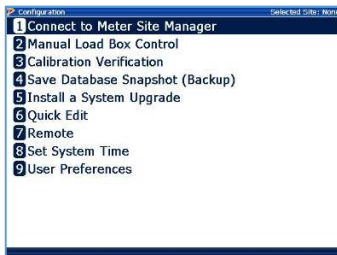
4. After download is complete, **disconnect the USB cable**, and then reboot the PowerMaster® or power off by pressing “ON” once complete.

## 6.1 Upload Data From a USB Flash Drive

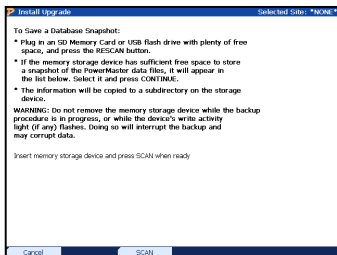
1. When at the Main Menu on the PowerMaster®, press #3 to enter the “Utilities” Menu.



2. In the Utilities Menu, press #4 (Save Database Snapshot (Backup)).



3. Insert a USB Flash drive into one of the PowerMaster®'s USB Peripherals. For further instructions, refer to the PowerMaster® User Manual (“Save a Database Backup”).



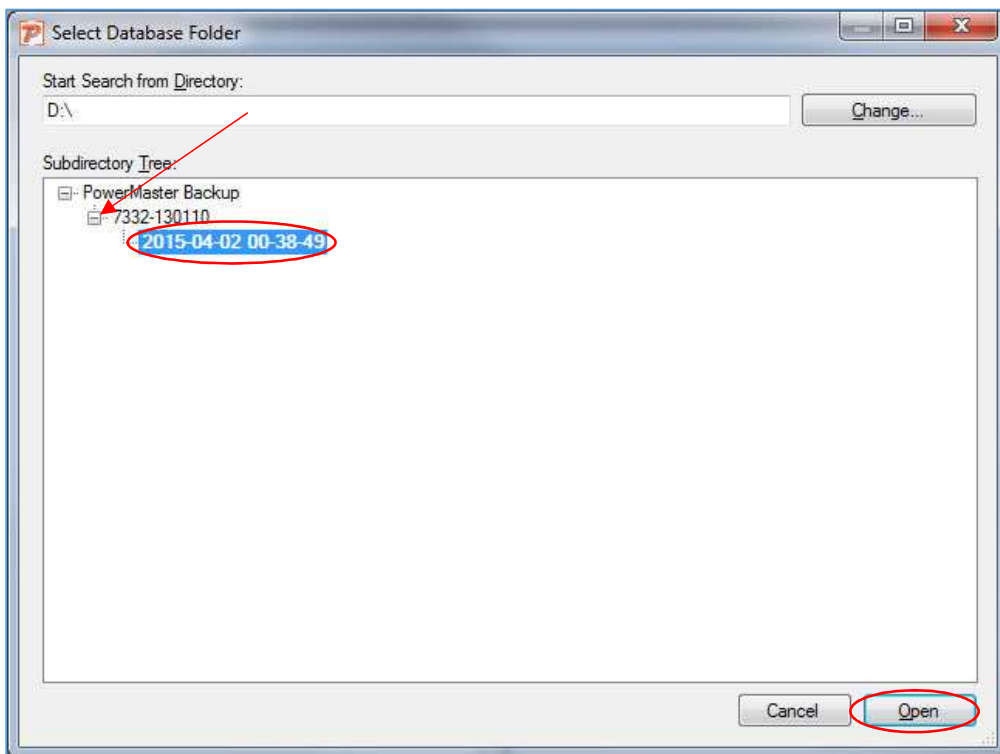
4. Launch Meter Site Manager on the PC. After the backup completes, insert the same USB Flash drive into a PC or laptop.



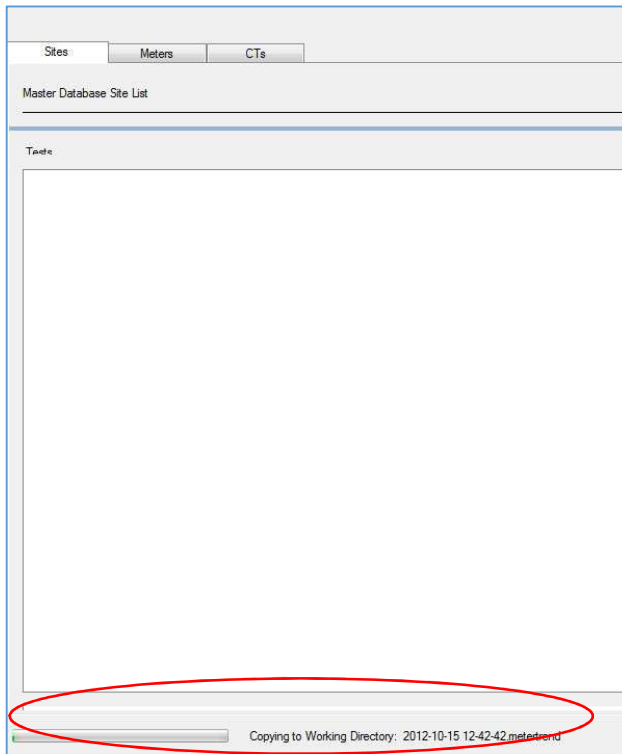
- Meter Site Manager will recognize that an USB drive has been inserted and will create a pop-up asking if you wish to import from the USB drive. Click Yes to import.



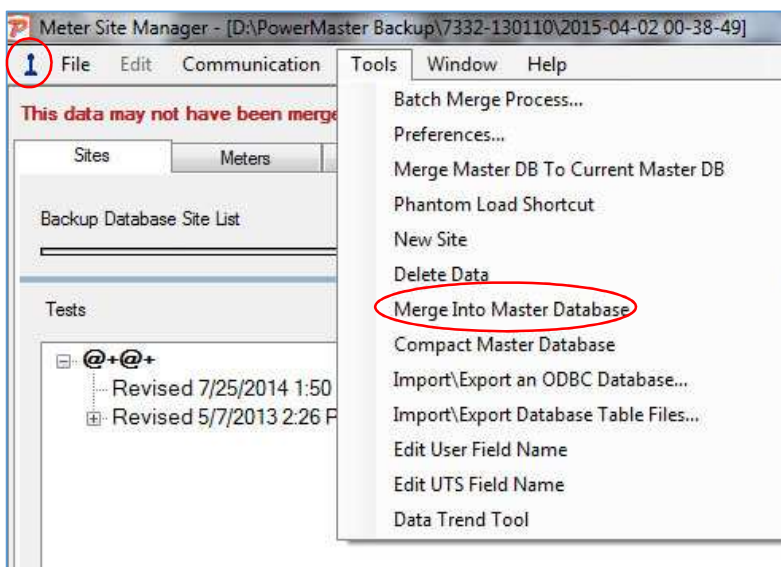
- Expand the PowerMaster Backup tree until a time stamp appears, click "Open"



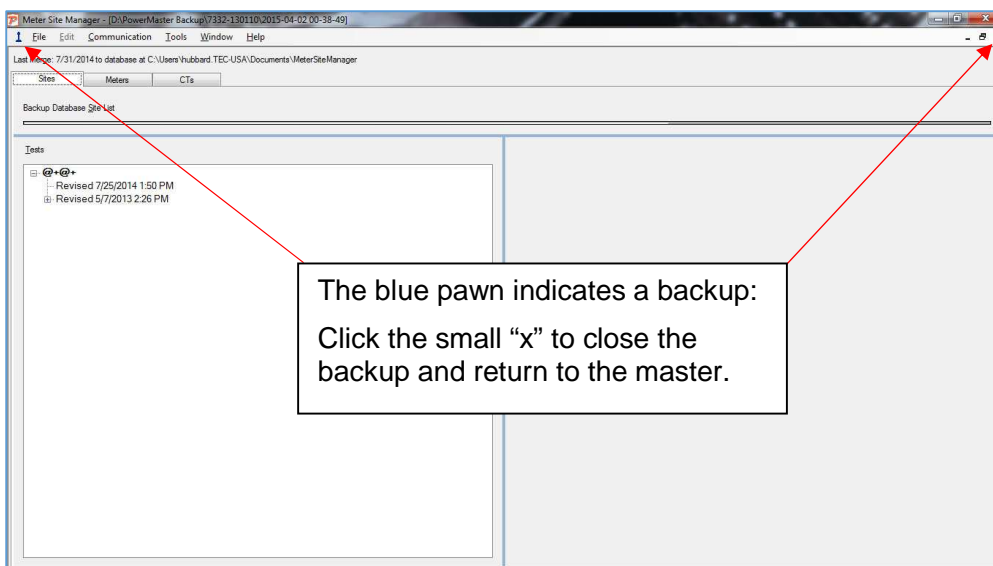
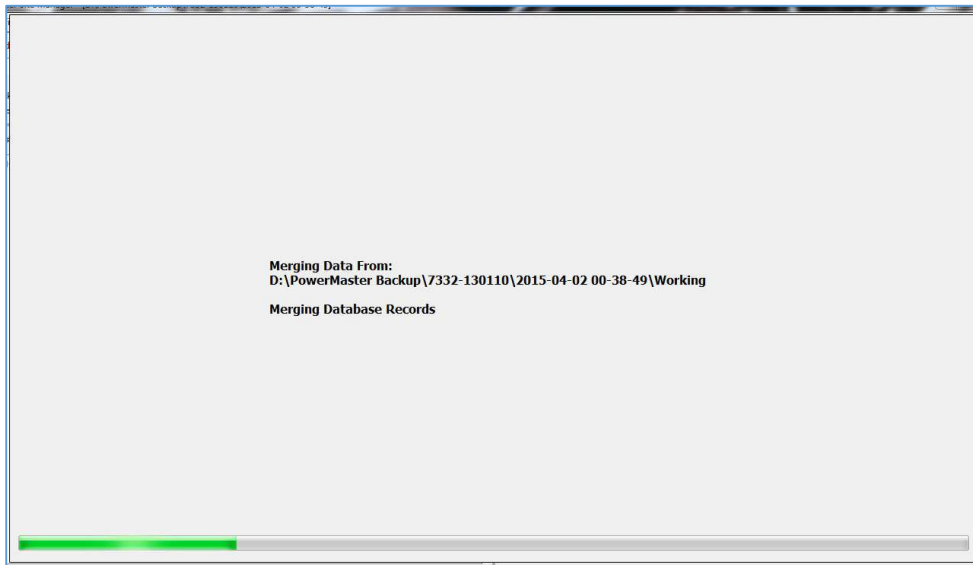
7. At the bottom of the database there will be the following information “Copying to Working Directory”



8. Once the import is finished, the “Backup Database will be shown, as indicated by the Blue Pawn. A message appears indicating that the Data has not been merged into the Master Database. Click Tools “Merge into Master Database”



9. A screen appears indicating that the Database is being merged. Once the screen is gone, close the backup and continue working in the master.



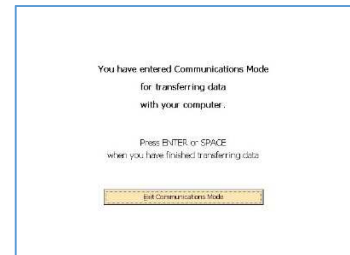
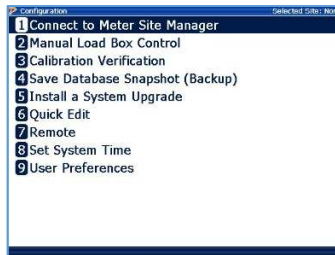
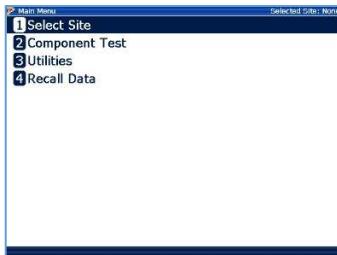
## 7 Download Data from the PC to the PowerMaster® (Creating a Route)

When the user desires to create a list of sites to test in the field, the database must be downloaded into the PowerMaster®. This process will allow the user to select sites that are currently in the Master Database (via check boxes) for download. This process will also synchronize the Master Database to the PowerMaster®, which may include newly created metering components (CT, PT, Meter, AMR), test setups, Phantom Load Setups, new sites, and even historical test data.

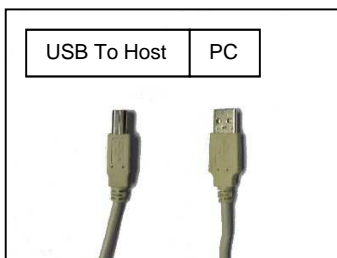
1. Open Meter Site Manager by double-clicking “Meter Site Manager 2” icon on the desktop.



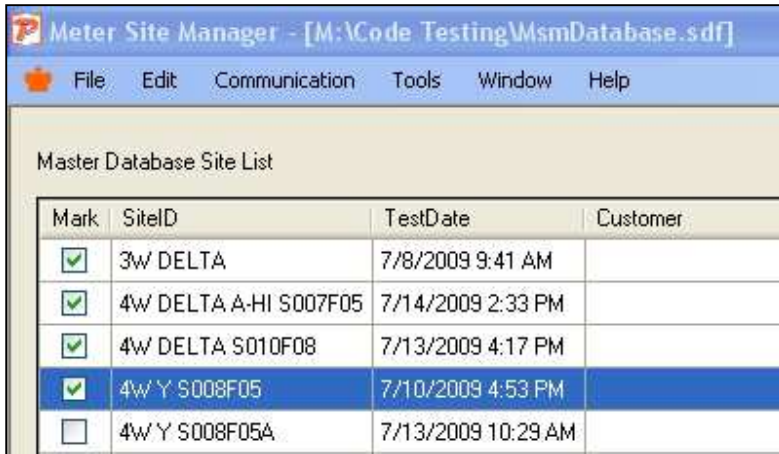
2. When at the Main Menu on the PowerMaster®, select “Utilities” then “Connect to Meter Site Manager” (for Main Applications 1.0.0.15 and below, simply remain at the Main Menu).



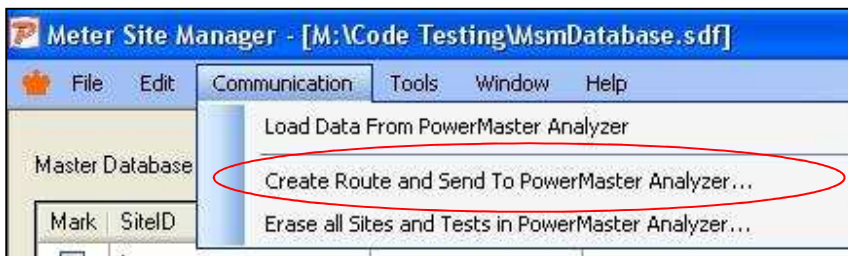
3. Use the USB cable to connect to the PC.



4. At the Master Database (king icon), select the desired site(s) you wish to download into the PowerMaster®. See Section 7 for using the filtering function to find sites and data quicker.



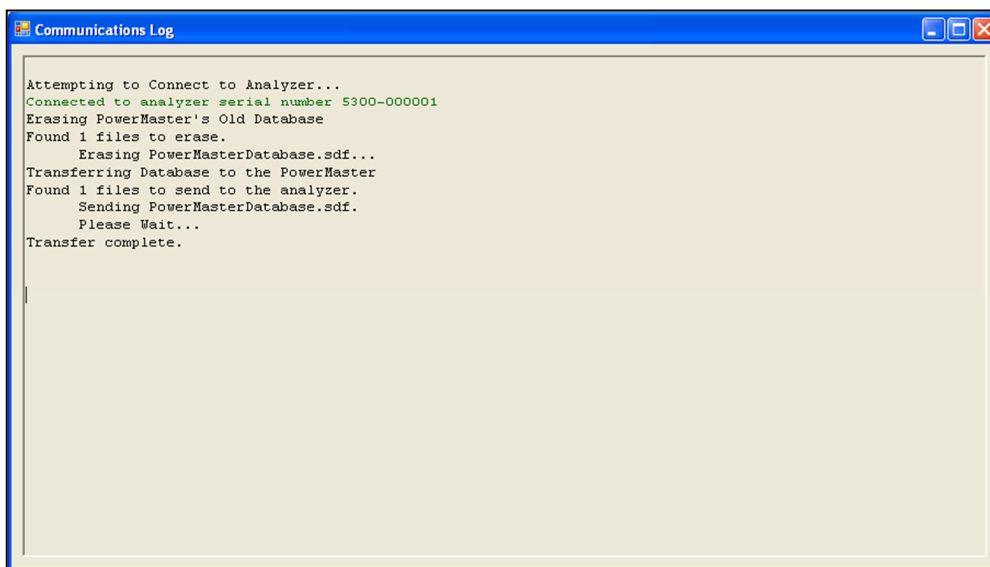
5. After selection, click Communication, “Create Route and Send to PowerMaster Analyzer...”



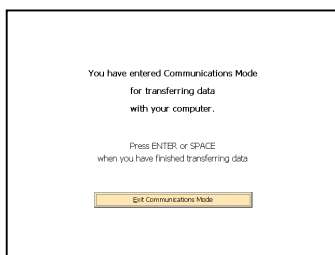
6. Verify the route is correct. At this point there are a few options. The user can select to download historical test data for each site (3, 6, 12, 24, or all months of data in the past). If no historical test data is needed, select “0 Months”.
7. Select the following option:
  - i. **Import Analyzer’s Data to Append With This New Route** – Select this option if you want to *add* this route to the existing database in the PowerMaster.
  - ii. **Replace Analyzer’s Data with this New Route** – Select this option if you want to *delete and replace* the existing database in the PowerMaster with this route



8. Messages will appear in a separate window to indicate what is taking place. Transferring the PowerMasterDatabase.sdf file will take several minutes.



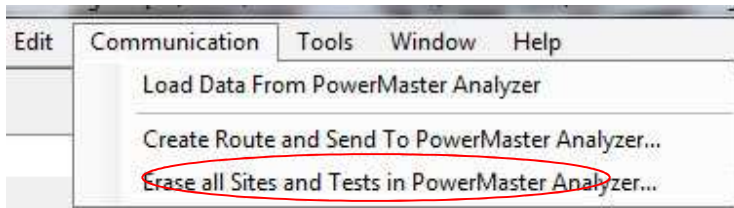
9. After download is complete, press ENTER or SPACE on the PowerMaster® to reboot or simply power off by pressing "ON" if complete.



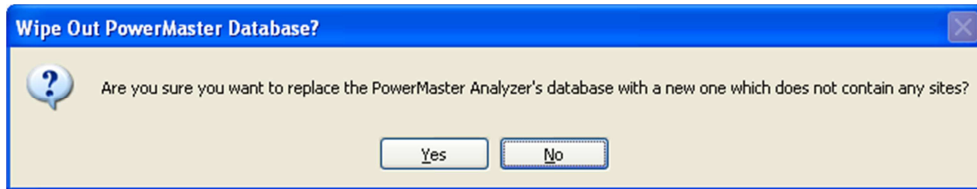
## 7.1 Erase Data from the PowerMaster®

Meter Site Manager 2 gives the user the ability to delete all existing sites and test data in the PowerMaster® database. This process simply replaces the existing database with a blank database. This process will also synchronize the Master Database to the PowerMaster®, which may include newly created metering components (CT, PT, Meter, AMR), test setups, and Phantom Load Setups

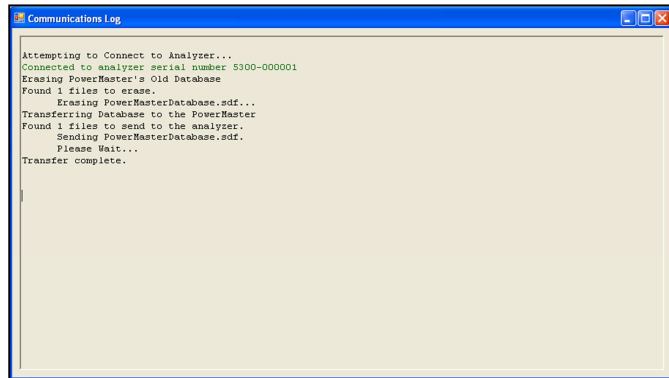
1. Follow steps 1-4 in [Section 5](#).
2. Click Communication, "Erase all Sites and Tests in PowerMaster Analyzer..."



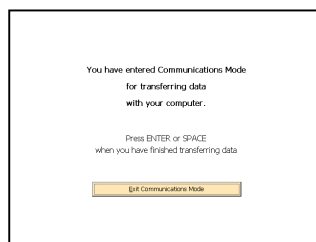
3. Click “Yes” to confirm.



4. Messages will appear in a separate window to indicate what is taking place. Transferring the PowerMasterDatabase.sdf file will take several minutes.



5. After download is complete, press ENTER or SPACE on the PowerMaster® to reboot or simply power off by pressing “ON” if complete.

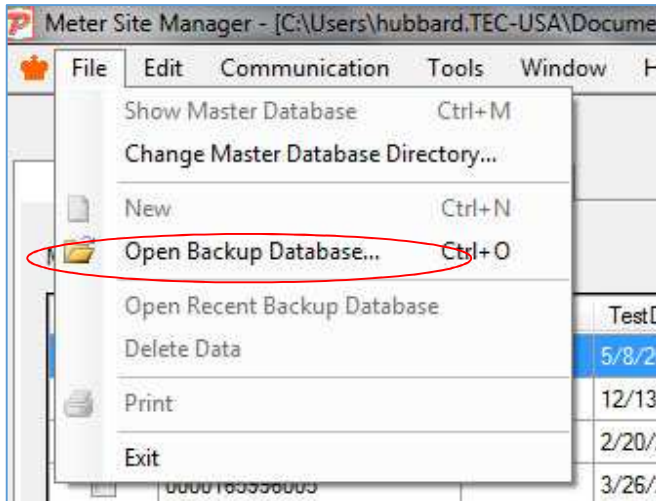


## 8 Merging Backup Databases into the Master Database

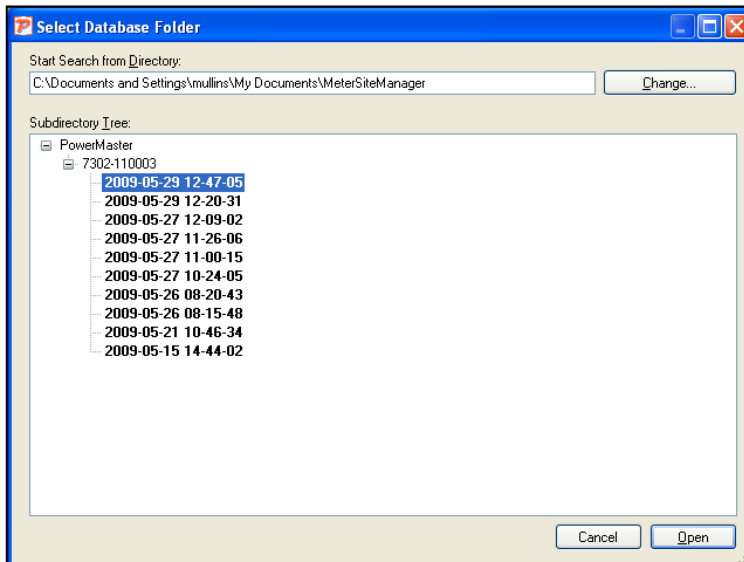
After the master database is created, each upload from the PowerMaster® will automatically be merged into the master database. The following describes the two methods on how to merge all of the backup databases into a single master database.

### 8.1 Merging a Single Backup Database

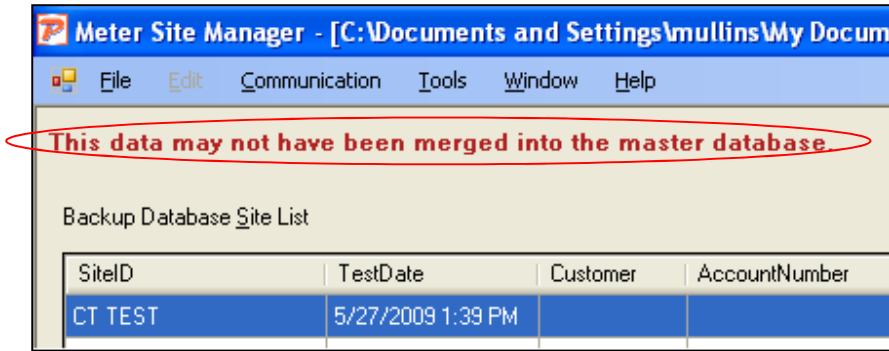
1. Click File, Open Backup Database.



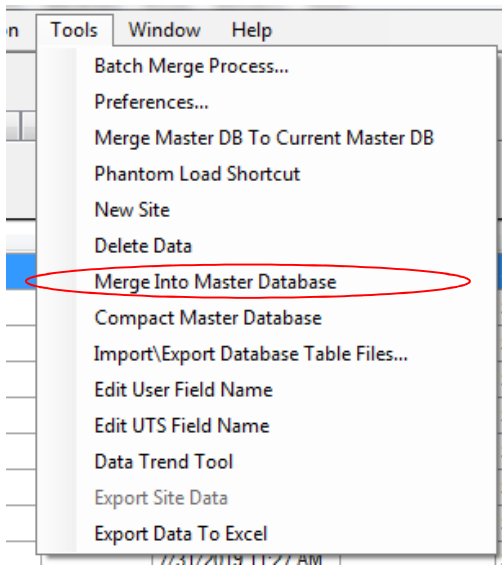
2. Browse the default directory (located in Preferences). To browse elsewhere, click "Change". Expand the directory until a time/date stamp appears (in bold). Click "Open" to open the backup database.



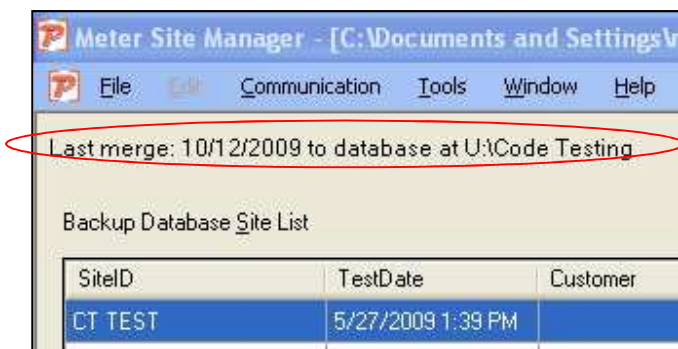
3. Once opened, note the database has not been merged into the master database.



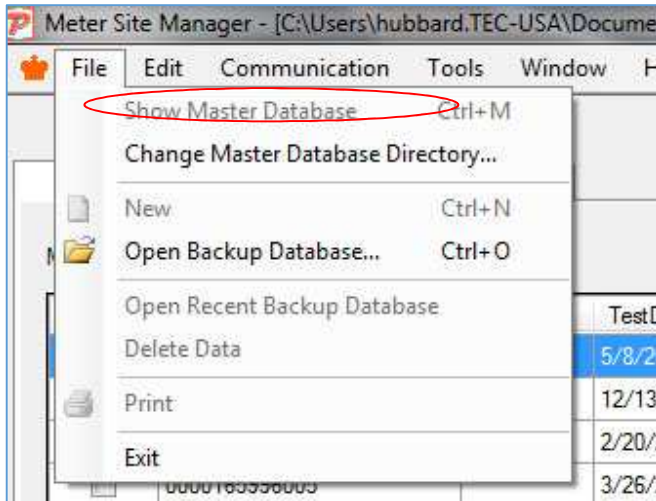
- To merge this database, click Tools, "Merge Into Master Database".



- After the merge process, the backup database will reflect the merged changes.



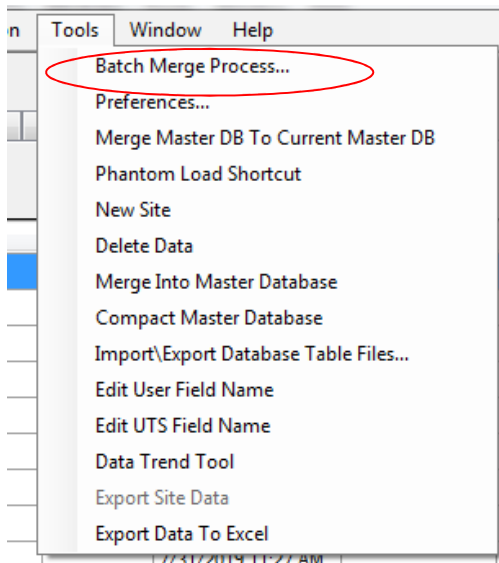
- To view the master database with the reflected changes, click File, Show Master Database.



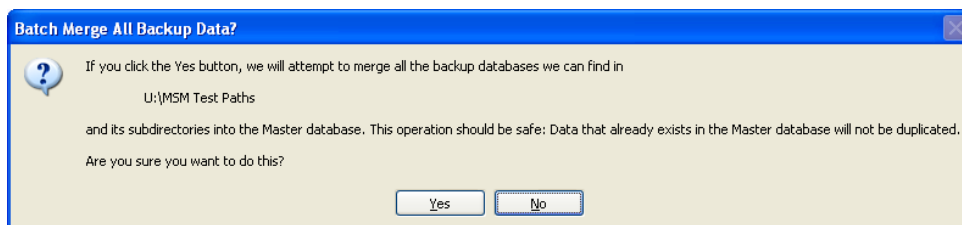
## 8.2 Merging Multiple Backup Databases with the “Batch Merge Process”

This process will merge all backup databases in the default Database Backup Directory (see Preferences). This easy-to-use process is highly recommended if there are many backup databases that need to be merged.

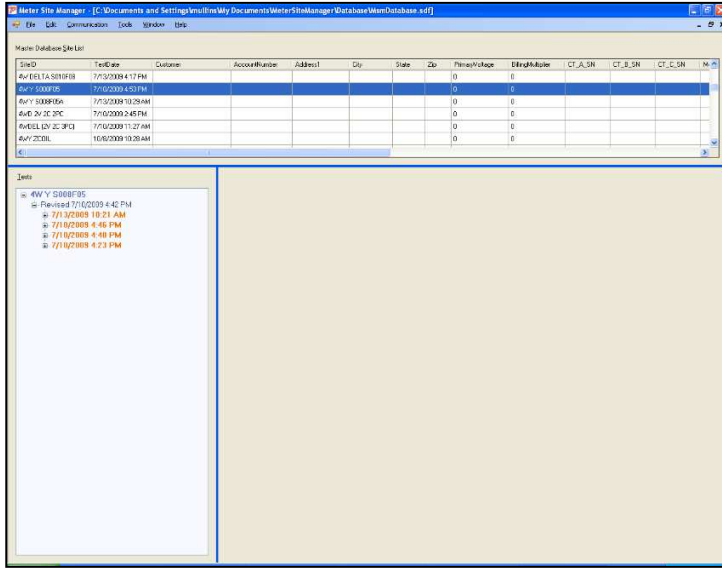
1. To begin, click Tools, “Batch Merge Process”



2. The user is prompted to verify if they want to continue. If ok, click Yes.



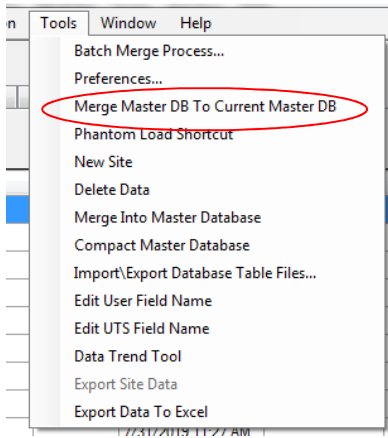
- After the merging process, the master database will automatically display.



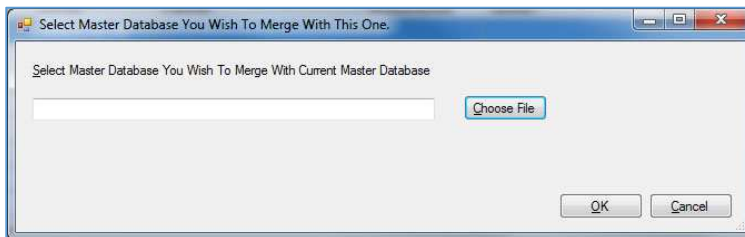
### 8.3 Merging the Master DB to a New Master DB

This process will merge two master databases into one, in case there were previously more than one databases. Verify the current master database is open.

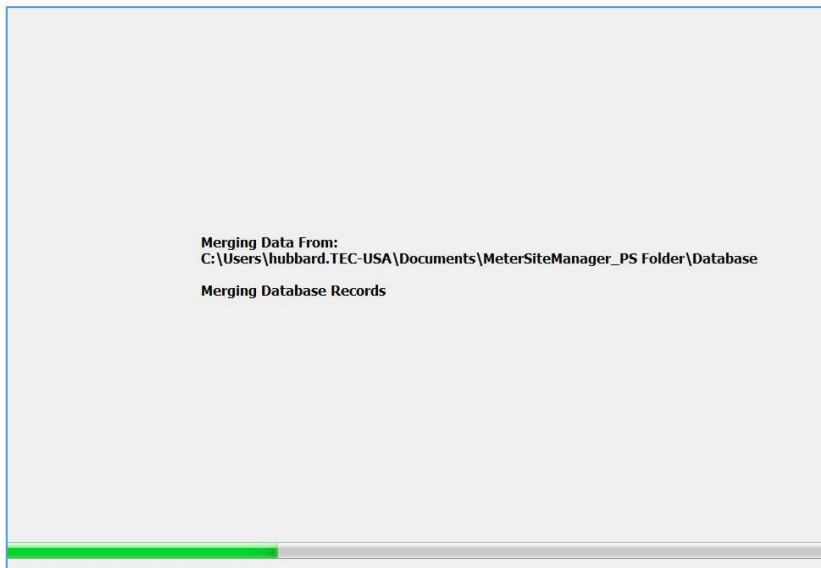
- To begin, click Tools, “Merge Master DB to Current DB”



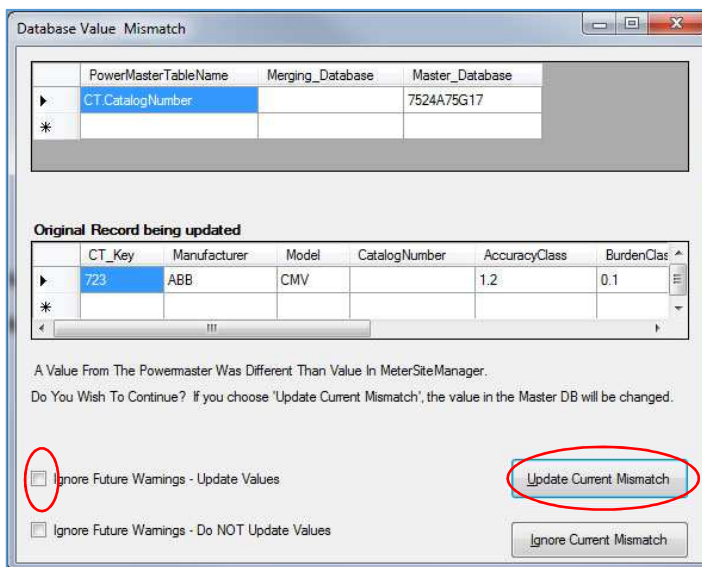
- A Pop-up window appears requesting the location of the master DB that needs to be merged with the current DB.



3. A screen will appear showing the progress of the merge.



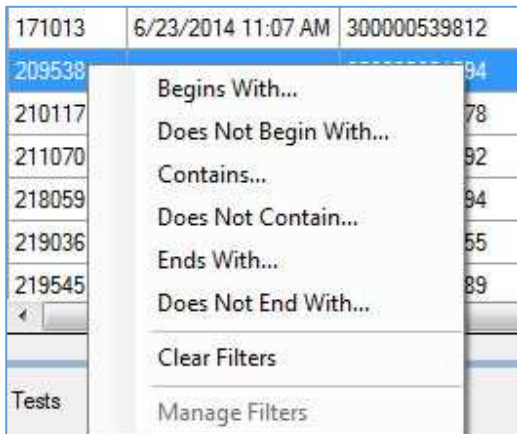
4. If a screen pops up similar to the one below, check the box that says “Ignore Future Warnings-Update Values” then click “Update Current Mismatch”. Repeat as necessary.



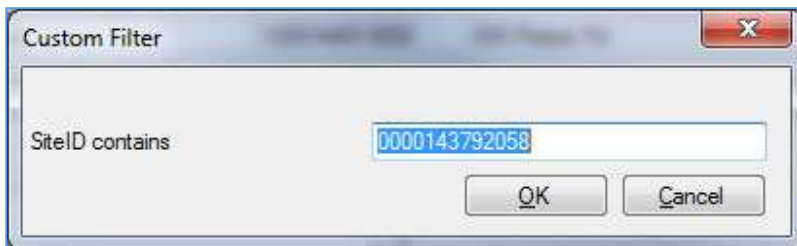
## 9 Filtering

One of the new features of Meter Site Manager is the ability to perform filtering functions on the database. This new feature allows the user to filter any table in the database, based on desired results. Once the database has been customized for the desired column appearance (see [Section 3.1](#)), right click on any field to open the filter menu.

1. Right click in any field to open the filter function. The filter options that appear depend on which field was right clicked on. For this purpose, the SiteID column was selected.



2. There are several options available. For this filter, the option “Contains” will be selected, which opens the input window shown below.



Any alpha-numeric value can be entered in this field. If searching for a Site that contains the number 63, enter “63” into the field. If searching for a Site that contains the word “Test”, enter the word “Test” into the field. If part of the Site is known, enter part of the word, then click OK.

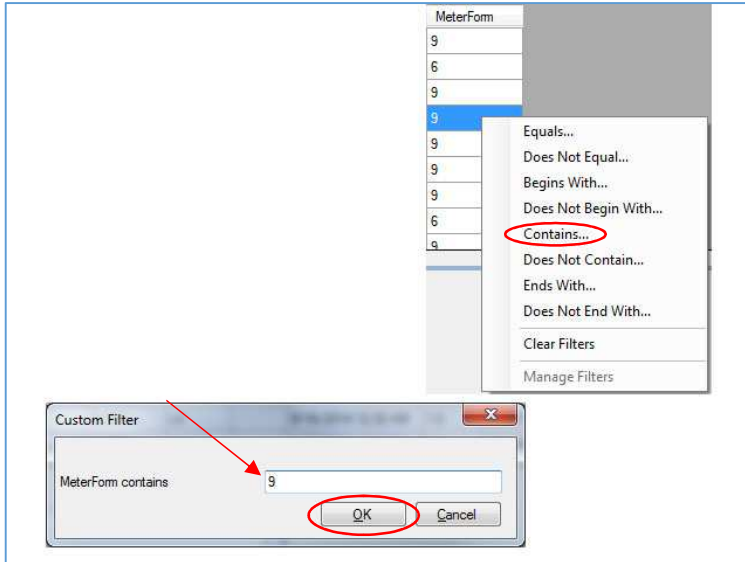
Once the filter is enabled, the only sites visible in the database are the ones that match the described filter. For example, if 63 was entered in, only Sites that have the number 63 in them will show, such as: 00631, 630001, Test63, 63rdbuilding, etc. Once the chosen sites are displayed, there are a few options left. The Sites can be checked, by clicking the empty box in the “Mark” column, the filters can be cleared, the filters can be used again, or the filters can be managed.

### 9.1 Filtering Multiple Items

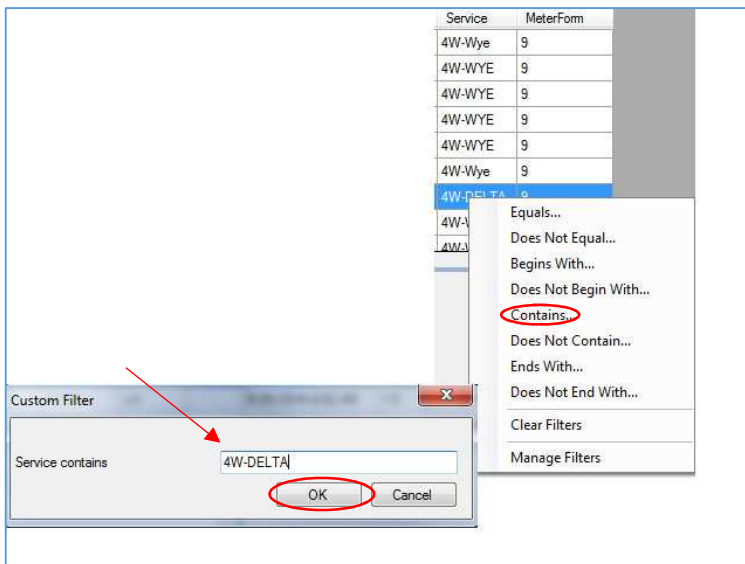
Filters can be used multiple times to drill down and find what is required. Once a filtering operation has been completed, right clicking on either the same, or a different column will once again bring up the filter menu, and allow more filtering. This allows rapid finding of the required sites, particularly for either report generation, or grouping to send sites to the PowerMaster<sup>®</sup>. Assume the following conditions: All Form 9S Meters, that are a 4 Wire

Delta Configuration, and all 5S meters in a 3 Wired Delta Configuration. The reason being these are next meters to be tested.

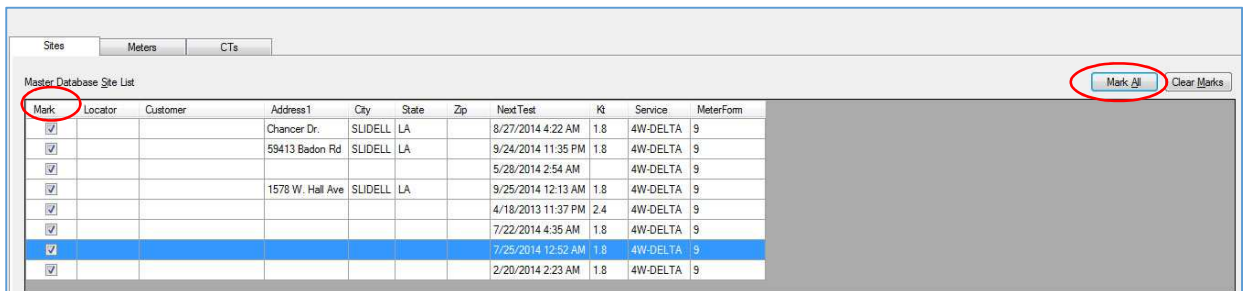
1. Right click in the MeterForm column and select "Contains". In the pop-up box enter 9, then Click "OK".



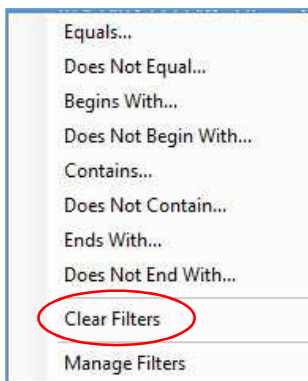
2. Once done, the only Sites visible are those that contain a meter that is a Form 9. Next, right click on the column labeled "Service" and select "Contains". In the pop-up box enter "4W-Delta" then click "OK".



- At this point, the only sites visible are those that are Form 9s meters, with a 4 Wire Delta configuration. In the “Mark” column, click all the empty box’s to select these Sites, or use the “Mark All” button in the upper right hand part of the screen.



- All sites are now selected that are 9s 4W-Delta’s. The next step would be to add the second required group. To start, right click in any Column and select “Clear Filters”. Once the filters have cleared, all sites will now be visible again.



- Repeat steps 1 through 4, using “5” for the Form and “3W-Delta” for the service. Once the filters have been cleared the second time, the database returns to normal; however all the sites that have been “Marked” or “Selected” still have their marks. These sites can now be sent to the PowerMaster® following the procedure in [Section 5](#). Once all work with the selected sites has been completed, click the “Clear Marks” button in the upper right hand corner.

The filter function has many capabilities, and can be used to find specific sites, or groups of sites, which can then be edited, reports generated, or even deleted if desired.

# 10 Generating Reports

The screenshot shows the Meter Site Manager application. At the top is a 'Master Database Site List' table with columns: SiteID, TestDate, Customer, AccountNumber, Address1, City, State, Zip, PrimaryVoltage, BillingMultiplier, CT\_A\_SN, CT\_B\_SN, CT\_C\_SN, and Meter. The table contains several rows of test data.

Below the table is a 'Tests' section with a tree view for '3W DELTA'. The tree view shows a list of tests with expand/collapse icons (+/-). A callout box labeled 'TREE VIEW' points to this section.

On the right is a 'Summary of Last Test' report. The report includes the following information:

- Account No:** 7335-140002
- Customer:** 3WDELTA
- Test Date:** Tuesday, July 07, 2009 12:00:46 PM (UTC+05:00)
- Service:** 3-Phase, 3-Wire Delta (2V, 2C) TR
- Meter Information:**
  - Manufacturer: General Electric
  - Model: KV
  - Catalog No: 745X500001
  - Serial No:
- Meter Test Data:**
  - Pulses Actual: 222
  - Pulses Expected: 221.9859
  - Measurement Time: 1806.337
  - Mode: Wh
  - Wh Meter: 266.400
  - Wh Actual: 266.383
  - %Reg: 100.006
- Basic Test Data Table:**

Phase	Voltage	V-Phase	Phase	Current	I-Phase	VI-Phase	PF	V-%THD	I-%THD
Vab	117.516	0.000	Ia	2.59778	30.228	30.228	0.884	1.87	0.53
Vcb	118.818	299.498	Ic	2.53356	272.069	332.572	0.888	0.94	0.24
Vn	0.000	0.000	In	0.00000	0.000	0.000	0.000	0.00	0.00
VSys	118.167		ISys	2.56667			0.876	1.41	0.38
- Power Data Table:**

Power Pair	W	VA	VAR
Wh to	132.3243	563.1484	77.1019
- Vector Diagram:** A diagram showing the relationship between voltage and current vectors.

1. In the tree view at the left, expand the list by clicking on the +.
2. Generate the report by double-clicking on the name of the test.
3. Click the Print icon on the report header to print.
4. Depending on software available on PC, the reports can be printed to a printer, to a .pdf file, to an XPS file, or sent to One Note.

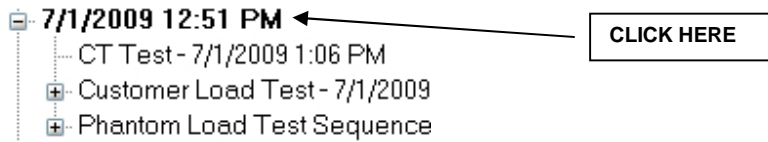
## Report Header

The image shows a close-up of the report header toolbar. The toolbar contains several icons and controls:

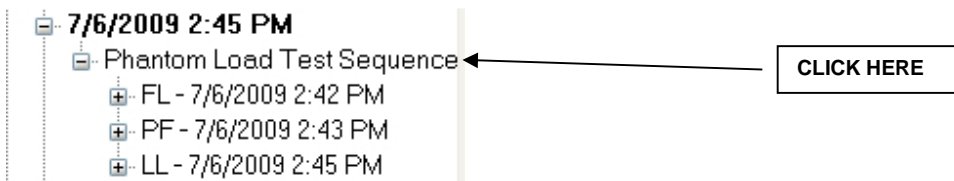
- Print report:** A printer icon with a callout box pointing to it.
- Tab(s):** A callout box pointing to the 'Summary' tab.
- Zoom In/Out:** A callout box pointing to the zoom controls (magnifying glass and minus sign).
- Multiple page views:** A callout box pointing to the page navigation controls (page up/down and page number).
- Page Up/Down:** A callout box pointing to the page navigation controls.

## 10.1 Summary Reports

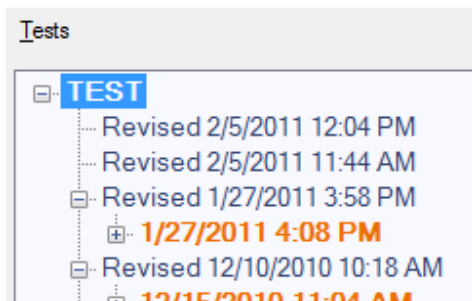
1. **Summary of Last Test:** This report includes the customer load meter test, CT test (at 0 burden), and the phantom load meter test. This report will display the LAST test acquired according to the time/date stamp.



2. **Phantom Load Test Sequence Summary:** This report gives the user a summary of all phantom load meter tests that were performed in the test sequence (up to 16 tests).

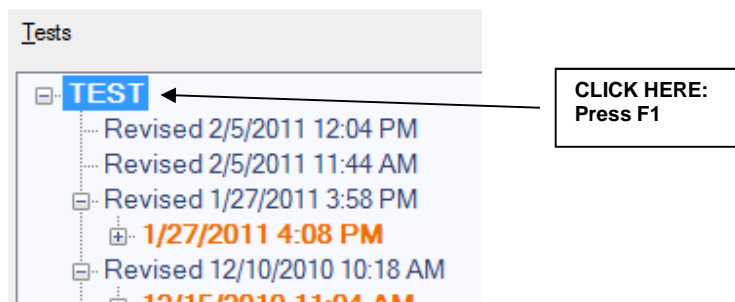


3. **Site Report:** This report gives the user information about the site exclusively. This includes customer name, address, account number, etc. It also includes the information about the associated Meter, CTs, PTs, and AMR. Any custom fields entered in the Site Editor will display here as well.



## 10.2 Print All

To print all available reports in a site, highlight the top field under the site Id in the Test window. Pressing "F1" at this time will open a print menu, and all reports can then be printed to a printer, compressed into a single PDF file, or any other function that can be printed into.

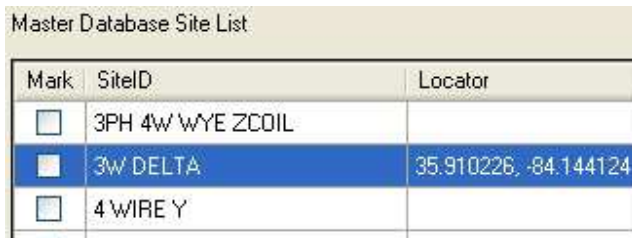


# 11 Deleting Test Data from the Master or Backup Database

Deleting data in the database refers to removing undesirable data collected in the field by the PowerMaster®. The user can delete a single test, a group of tests within a session, or the entire site with any associated tests.

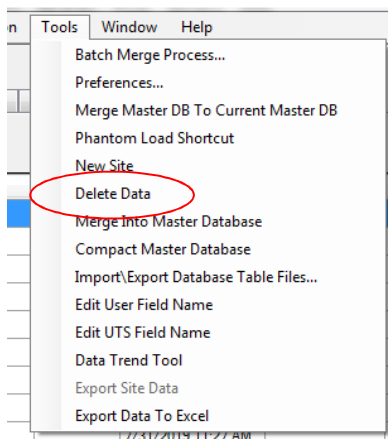
## Deleting an Entire Site and Test Data

1. Select the site in the database list.



Mark	SiteID	Locator
<input type="checkbox"/>	3PH 4W WYE ZCOIL	
<input checked="" type="checkbox"/>	3W DELTA	35.910226, -84.144124
<input type="checkbox"/>	4 WIRE Y	

2. Click Tools, Delete Data.



3. Confirm by clicking "Yes".

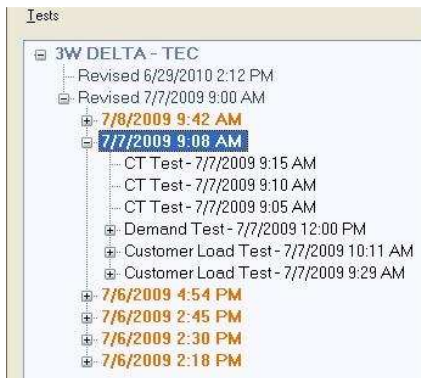


## Deleting a Group of Test Data by Test Session

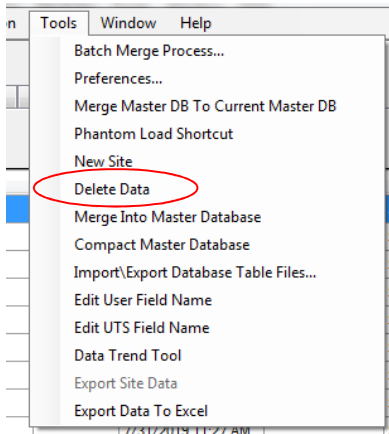
1. Select the site in the database list.

Mark	SiteID	Locator
<input type="checkbox"/>	3PH 4W WYE ZCOIL	
<input checked="" type="checkbox"/>	3W DELTA	35.910226, -84.144124
<input type="checkbox"/>	4 WIRE Y	

2. In the tree view, click the desired date.



3. Click Tools, Delete Data.



4. Confirm by clicking "Yes".



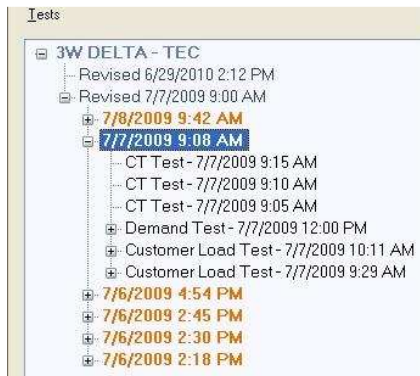
## Deleting a Single Test

Note that some data are dependent on others. For example, the Basic Test Data is dependent on the Customer Load Test. When attempting to delete the Basic Test Data first, the user will be warned that the Customer Load Test must be deleted first.

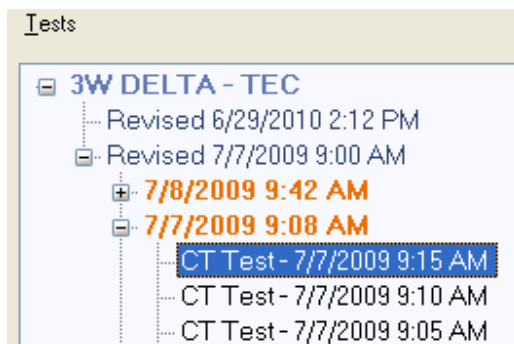
1. Select the site in the database list.

Mark	SiteID	Locator
<input type="checkbox"/>	3PH 4W WYE ZCOIL	
<input checked="" type="checkbox"/>	3W DELTA	35.910226, -84.144124
<input type="checkbox"/>	4 WIRE Y	

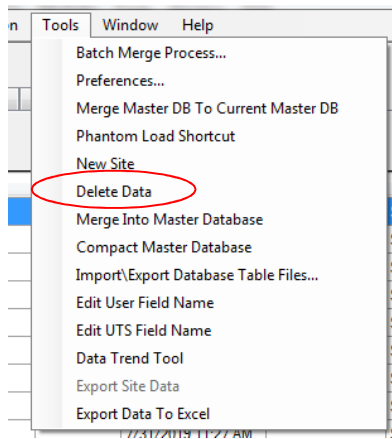
2. In the tree view, click the desired date.



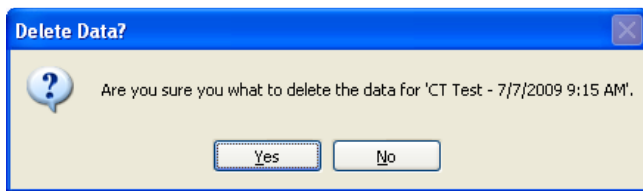
3. Click the desired test to be deleted.



4. Click Tools, Delete Data.



5. Confirm by clicking "Yes".



## 12 Editing Database Tables

The user has the ability to create, edit, or delete metering components (AMR, CT, PT, Meter) in the database. They also have the ability to enable or disable the component. It is recommended to disable components that the user does not use. To access the database tables, click Edit.



## Viewing the Table

The user can scroll through the table to view all the items in the database. If an item is grayed out for New, Edit, Delete, and Disable, the item is currently being used in a site. The user can also click on the column header (ex. Model) and sort the entire table. If the user wants to view all enabled and disabled items, simply click "Show All" at the top menu.

Enabled	Manufacturer	Model	Cat #	RF	Acc Class	Bur Class	NPR-5
Yes	ABB	CBT-H	7882A78222	2	0.3	0.3	100
Yes	ABB	CBT-H	7882A78204	2	0.3	0.3	200
Yes	ABB	CBT-H	7882A78207	2	0.3	0.3	300
Yes	ABB	CBT-H	7882A78210	2	0.3	0.3	400
Yes	ABB	CBT-H	7882A78213	2	0.3	0.3	500
Yes	ABB	CBT-H	7882A78216	2	0.3	0.3	600
Yes	ABB	CBT-H	7882A78219	1.5	0.3	0.3	800
Yes	ABB	CBT-H	7882A78223	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78205	2	0.3	0.3	200
Yes	ABB	CBT-H	7882A78208	2	0.3	0.3	300
Yes	ABB	CBT-H	7882A78211	2	0.3	0.3	400
Yes	ABB	CBT-H	7882A78214	2	0.3	0.3	500
Yes	ABB	CBT-H	7882A78217	2	0.2	0.3	600
Yes	ABB	CBT-H	7882A78220	1.5	0.3	0.3	800
Yes	ABB	CBT-H	7882A78224	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78206	2	0.3	0.3	200
Yes	ABB	CBT-H	7882A78209	2	0.3	0.3	300
Yes	ABB	CBT-H	7882A78212	2	0.3	0.3	400
Yes	ABB	CBT-H	7882A78215	2	0.3	0.3	500
Yes	ABB	CBT-H	7882A78218	2	0.3	0.3	600
Yes	ABB	CBT-H	7882A78221	1.5	0.3	0.3	800
Yes	ABB	CBT-H	7882A78202	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78203	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78210	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78201	4	0.2	0.1	100
Yes	ABB	CBT-H	7882A78204	2	0.3	0.2	200
Yes	ABB	CBT-H	7882A78207	2	0.3	0.2	300
Yes	ABB	CBT-H	7882A78210	2	0.3	0.2	400
Yes	ABB	CBT-H	7882A78213	2	0.3	0.2	500
Yes	ABB	CBT-H	7882A78216	2	0.3	0.2	600
Yes	ABB	CBT-H	7882A78219	1.5	0.3	0.2	800
Yes	ABB	CBT-H	7882A78202	4	0.3	0.2	100
Yes	ABB	CBT-H	7882A78205	2	0.3	0.2	200
Yes	ABB	CBT-H	7882A78208	2	0.3	0.2	300

## New

To create a new item in the database, click New at the top menu. Enter selections as desired, and press Save to complete.

Manufacturer:  Save Cancel

Model:

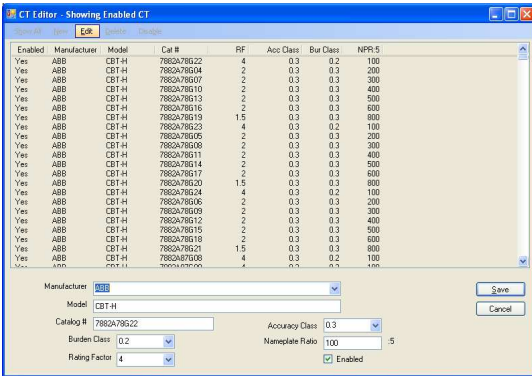
Catalog #  Accuracy Class:

Burden Class:  Nameplate Ratio:

Rating Factor:   Enabled

## Edit

To edit an item in the database, click Edit at the top menu. Change selections as desired, and press Save to complete.



## Enable/Disable

To prevent hundreds of items that will unnecessarily display in the PowerMaster® database, the user can disable components. It is recommended that items not normally used should be disabled. To do this, select the item in the database table and click "Disable" at the top menu. To disable multiple entries, hold Ctrl and right click all components. Then click "Disable".

## 12.1 Edit or Create a Site

To edit a site, first select a site in the Master Database list (highlighted below). Then, click Edit, Edit Site. All fields can be edited (except “Site ID”). Once complete, click “Save.”

The screenshot shows the 'Site Editor' application window. At the top, there are tabs for Page 1 through Page 6. The main area contains several input fields and dropdown menus:

- Site ID:** A text box with a placeholder '@+@+'.
- Meter Form:** A dropdown menu with the value '9' selected.
- Service:** A dropdown menu with the value '4W-Wye' selected.
- Service Type:** A dropdown menu with the value '3-Phase, 4-Wire, Wye (3V, 3C) TR - S000F09' selected.
- Test Setup:** A dropdown menu with the value 'Default 1' selected.
- Customer:** A text box.
- Account No:** A text box.
- Address 1:** A text box.
- Address 2:** A text box.
- City:** A text box.
- State/Prov:** A text box.
- Zip:** A text box.
- Country:** A text box.
- Substation:** A text box.
- Billing Mult:** A text box.
- Phone:** A text box.
- Locator:** A text box.
- Pri Volts:** A text box.
- Next Test:** A dropdown menu with the value '2013 Nov 06' selected.

At the bottom of the window, there is a status bar showing '1 of 2', the date and time '7/25/2014 1:50:36 PM', and buttons for 'Previous', 'Next', 'Save', and 'Cancel'. A note on the right side of the form reads: 'Note: Enter Kt here to override the value from meter section on Page 2.'

### Entering a Meter, CT, PT, or AMR

Click inside the selection box. Once selected, a button will appear at the bottom of the tray (ex. “Meter Editor”). If the metering component cannot be found in the drop-down box, click the button to enter the database table (see [Section 8](#), New). Click New to create a new component. After the additions are made, click Save to complete. Close the window. The user can now select the new component in the Site Editor’s drop-down box.

### Deleting a Site

Deleting a site can be done when there is no test data associated with it. If there is any test data, the user cannot delete the site from the database.

### Create a New Site

To create a new site, click File, New Site. After the additions are made, click Save to complete.

### Viewing Previous Site Revisions

If any edits are made to the site, the user can click the “Previous” and “Next” buttons to view the historical changes. Note that any reports generated only apply to its revision of the site at that time.

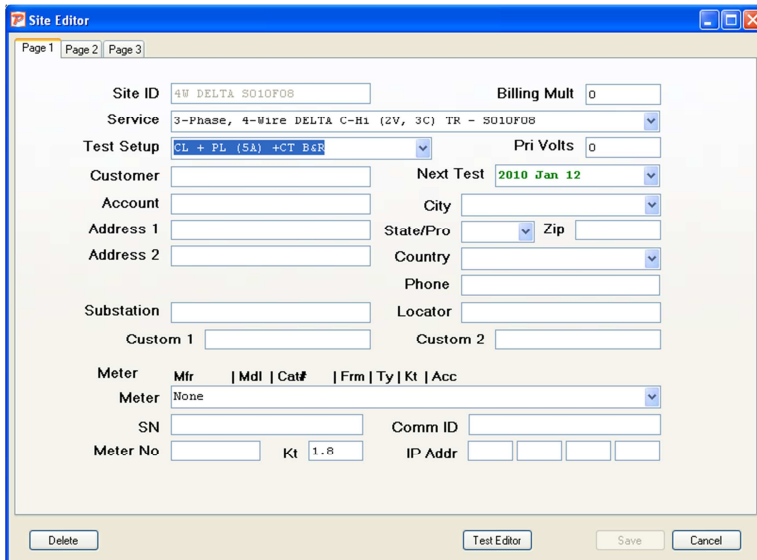
## 12.2 Edit or Create a Test Setup

Test Setups are used in Integrated Site Test for the PowerMaster®. They are step-by-step procedures that guide the user through the testing process. This process eliminates mistakes and simplifies the entire testing procedure. Please note that “Default 1” and “Default 2” setups cannot be edited or deleted.

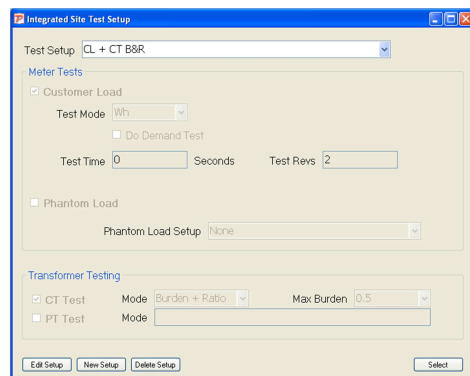
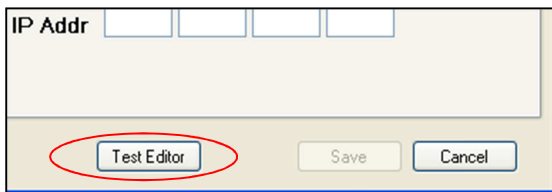
1. Click Edit, Edit Site



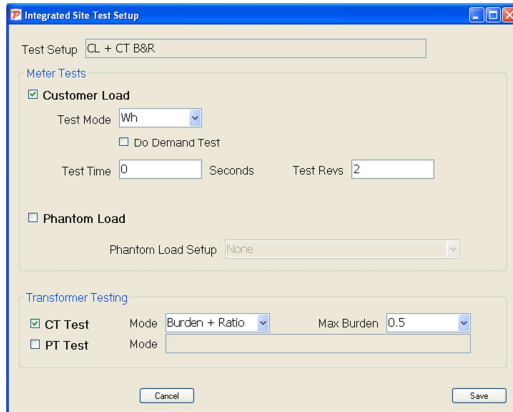
2. In the Site Editor, select “Test Setup.”



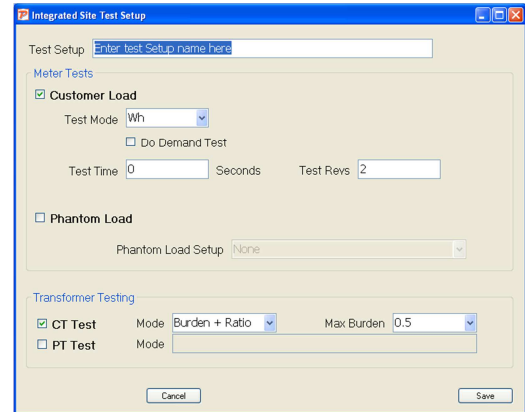
3. In the bottom tray, click “Test Editor.”



4. In the “Integrated Site Test Setup,” click Edit Setup to make changes or New Setup to create a new test setup.



**Edit Setup**



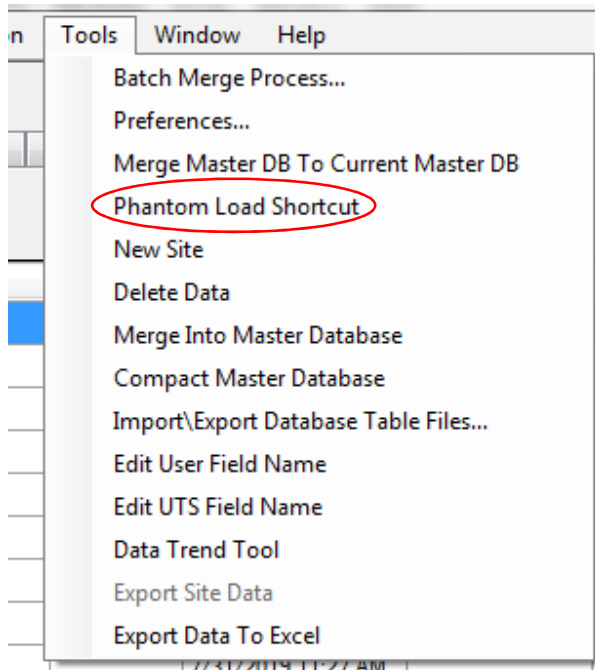
**New Setup**

5. After changes are made, click Save to complete. The setup will now be available in the “Test Setup” drop-down box in Site Editor.

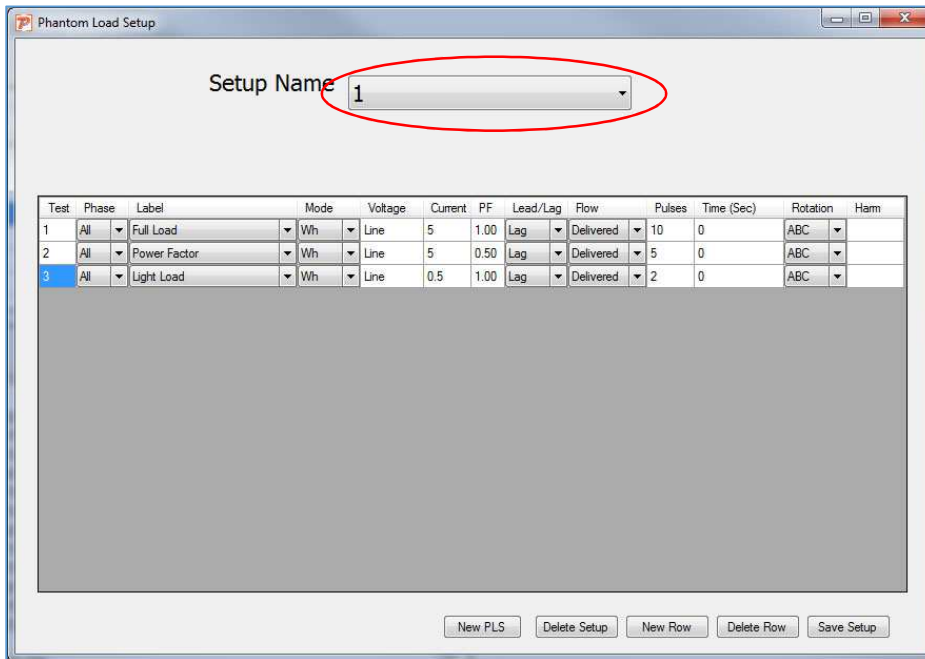
## 12.3 Edit or Create a Phantom Load Setup

The Phantom Load Setups (PLS) are pre-programmed test procedures to test a meter under known conditions. These setups are also used in Integrated Site Test for the PowerMaster®. Please note that “ANSI 5.0 AMP FL, LL, PF” and “ANSI 2.5 AMP FL, LL, PF” setups cannot be edited or deleted.

1. Select Tools, then click on “Phantom Load Shortcut”



- Use the drop down menu to select the phantom load test that is to be edited or deleted. Use the “New PLS” to create a new Phantom Load Test.

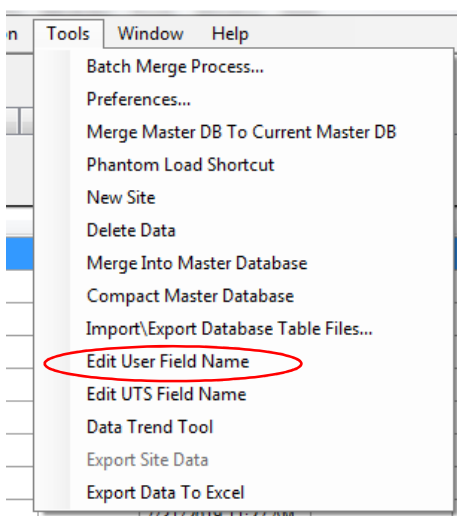


- After changes are made, click Save Setup to complete. The setup will now be available in the “Phantom Load Setup” drop-down box in Site Editor. \*note\* This feature can also be accessed via the Test Editor while in Site Creation/Editing.

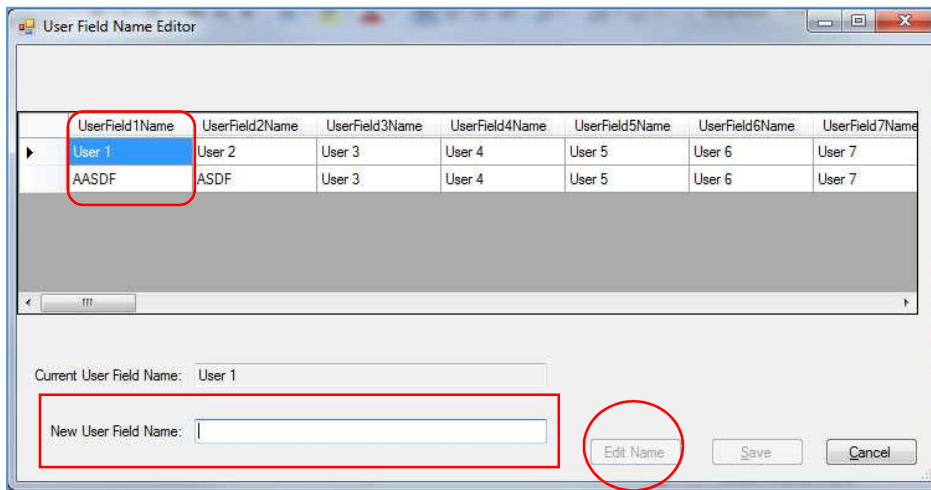
## 12.4 Edit User Field Name/UTS Field Name

By clicking on the Tools menu, users have the option to edit either custom fields, or custom test fields, a function that was previously only available under user preferences on the PowerMaster®.

- Select Tools, Edit User Field Names

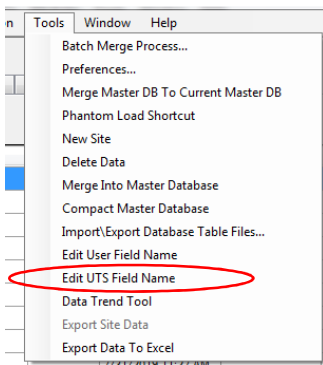


2. Click on the Field to edit, Type the new custom name in “New User Field Name”, Click “Edit”, then save once done.

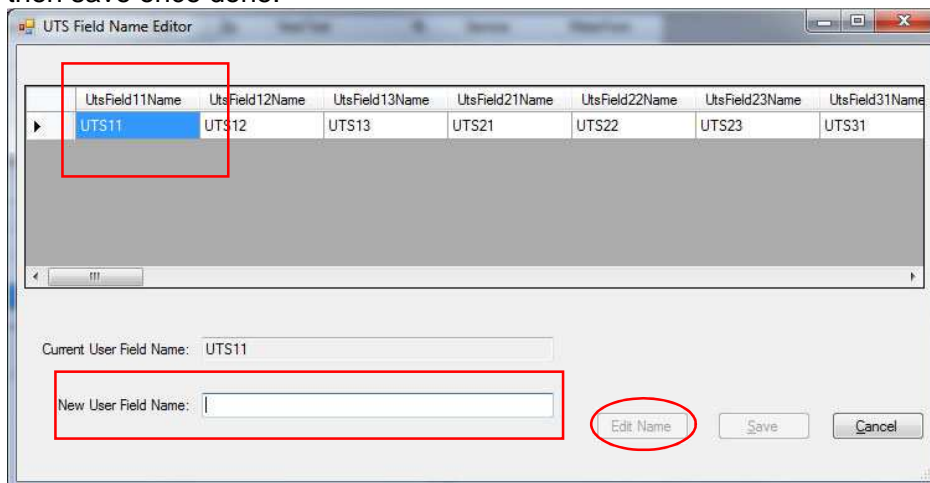


The user fields are ones that are used for site description. The user test fields are used for additional test data that can be manually input.

3. To edit the User Test Fields, select tools, then “Edit UTS Field Name”.



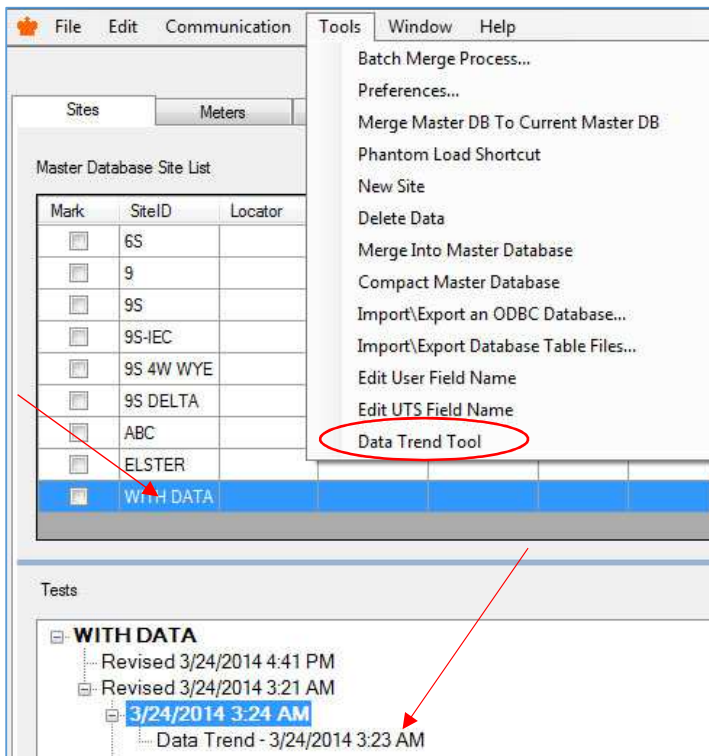
4. Click on the Field to edit, Type the new custom name in “New User Field Name”, Click “Edit”, then save once done.



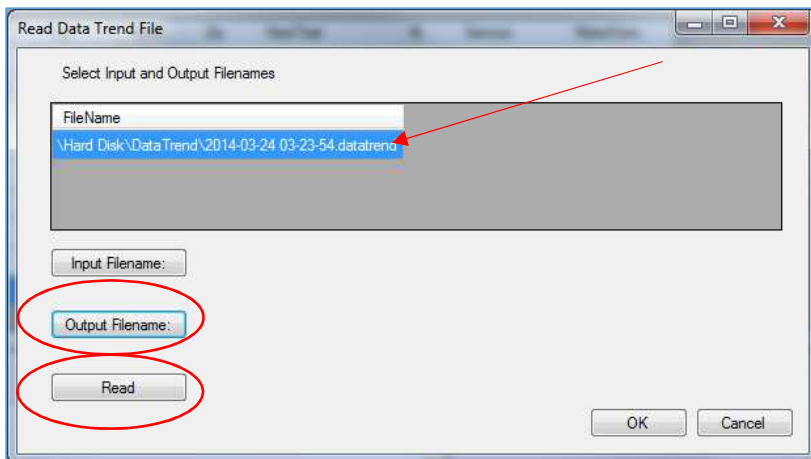
# 13 Data Trend Tool

The data trend tool can be found under the “tools” menu. When a data trend file is recorded, a flag is placed in the database tree indicating that there is trend data associated with that particular site.

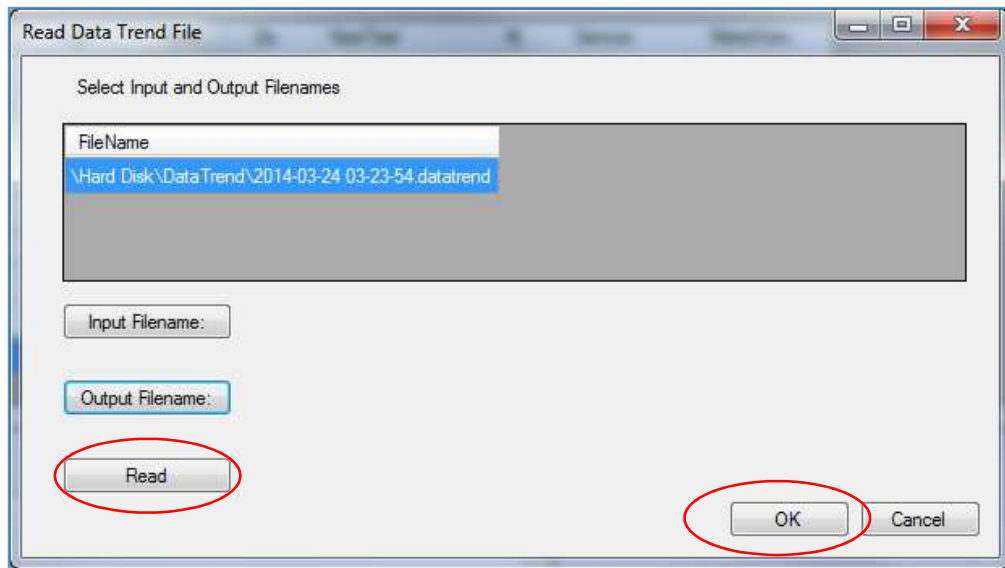
1. Select the Site that has Data Trend information in it, click on Tools, then select “Data Trend Tool”



2. The input file name shown highlighted in blue is the file that was recorded on the PowerMaster®. Clicking the “input File” brings up an explorer window to locate the file. It can be on a USB drive or a local hard drive or a network drive. Or, anywhere the PC can browse to. Select the file and click “Output Filename” to name and save the file to a specific location.



3. At this point, Clicking “Read” will convert the file to a .csv file and save in the location specified, while clicking “OK” will convert the file, save it, and open it.



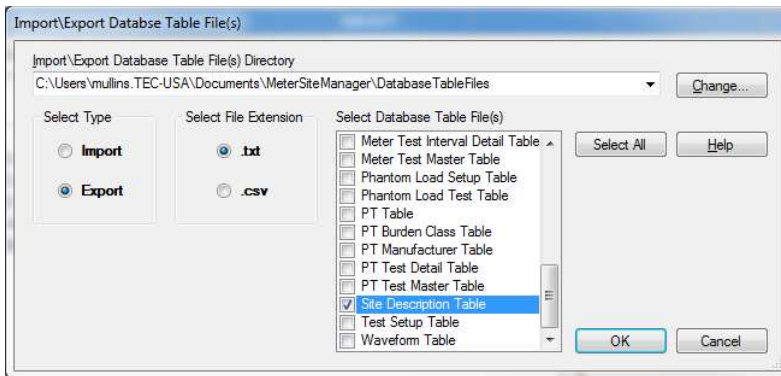
4. The data is now saved on the PC in a .csv format.

## 14 Export/Import .txt or .csv Files

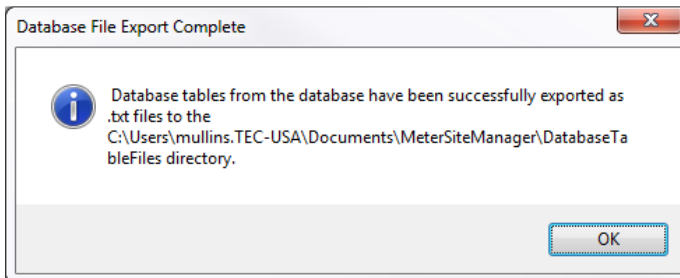
The Meter Site Manager 2 software allows the user to export the database tables to a flat file (.txt or .csv). It also allows flat files to be imported, granted they are formatted exactly as the exported files. For an overview of the database columns, go to [Appendix 1](#).

### 14.1 Export to .txt or .csv files

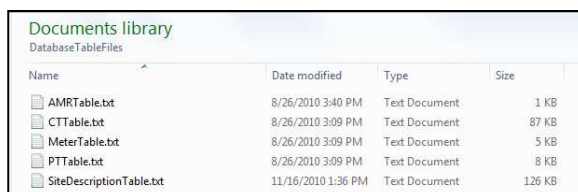
1. Open the desired .sdf database in Meter Site Manager 2. By default, the Master database is open. Any backup databases can be opened via File, Open Backup Database...
2. Click Tools, Import/Export Database Table Files...
3. Select the file output directory in the drop-down box or click "Change" to browse to another directory.
4. Select "Export". Select the desired extension (.txt or .csv). Then, select the desired table(s) to be exported. If all tables are to be exported, click Select All. Click OK to continue.



5. Click OK to complete.



6. After export, the file(s) can be found in the directory that was created. Double click the file to open in Notepad (.txt) or Microsoft Excel (.csv) to review.



Name	Date modified	Type	Size
AMRTable.txt	8/26/2010 3:40 PM	Text Document	1 KB
CTTable.txt	8/26/2010 3:09 PM	Text Document	87 KB
MeterTable.txt	8/26/2010 3:09 PM	Text Document	5 KB
PTTable.txt	8/26/2010 3:09 PM	Text Document	8 KB
SiteDescriptionTable.txt	11/16/2010 1:36 PM	Text Document	126 KB

## 14.2 Import .txt or .csv files

**WARNING:** Verifying all database keys that correspond to multiple tables is critical when importing .txt or .csv files into the Meter Site Manager 2 database. Not doing so will cause database corruption that is beyond repair. Powermetrix will not be held responsible for any lost or corrupted data when importing. It is highly recommended that a database backup is made before importing any files.

### Generating and formatting an import file

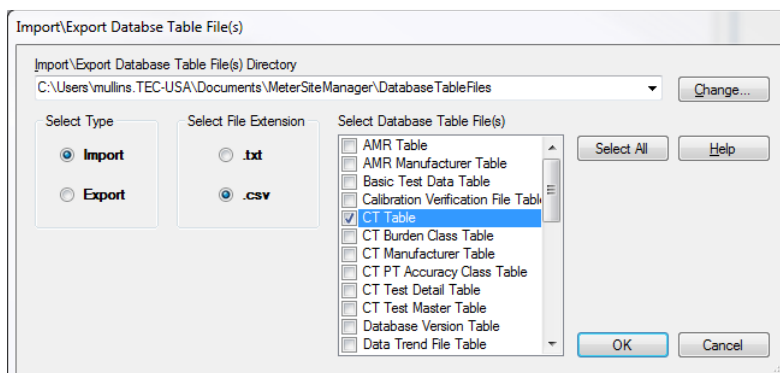
1. Follow [Section 11.1](#) to export a desired table (.csv file recommended) to review the formatting structure.
2. Once the formatting structure is reviewed, open Microsoft Excel.
3. In the first row, the user may enter headers for each column of data. Otherwise, the first row is always ignored when importing.

	A	B	C	D	E
1	CT Key	Manufacturer	Model	CatalogNumber	AccuracyClass
2	1	ABB	KOR-11	20800322	0.3
3	2	ABB	KOR-11	20800330	0.3

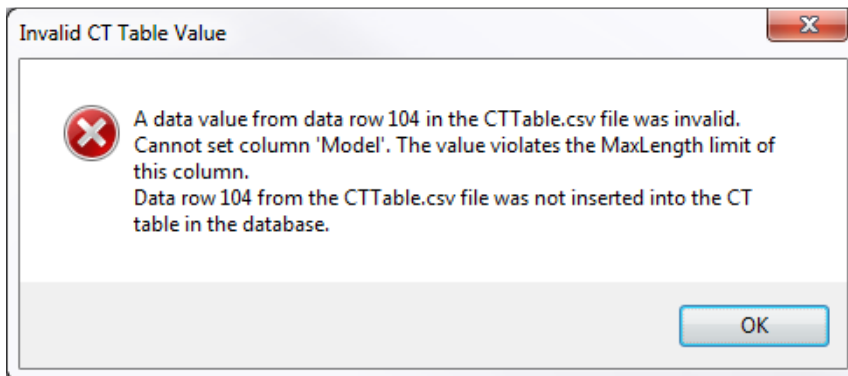
4. In the following rows, enter all necessary information. Review [Appendix 1](#) for column field characteristics (data type, max length, nullable, etc.).
5. Once all information is entered, click File, Save As. Enter the filename EXACTLY the same as the formatted table name in step 1 (ex. CTTABLE.csv). Save the file as a “CSV (Comma delimited) (\*.csv)” extension. Click Save.

### Importing a formatted file

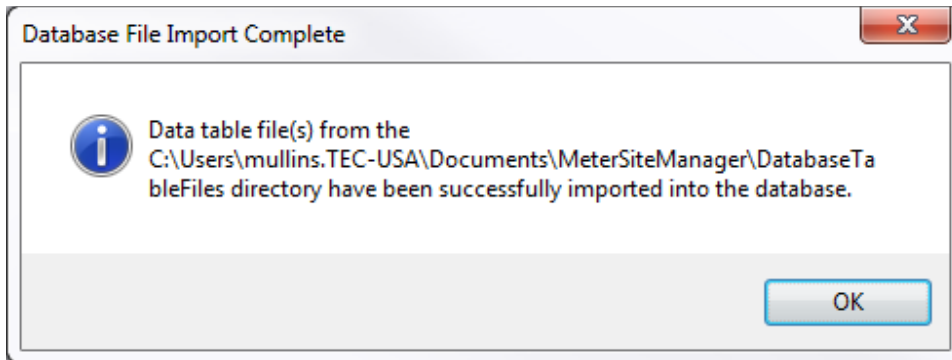
1. Open the desired .sdf database in Meter Site Manager 2. By default, the Master database is open. Any backup databases can be opened via File, Open Backup Database...
2. Click Tools, Import/Export Database Table Files...
3. Select the formatted file(s) directory in the drop-down box or click “Change” to browse to another directory.
4. Select “Import”. Select the desired extension (.txt or .csv). Then, select the desired table(s) to be imported. If all tables are to be imported, click Select All. Click OK to continue.



5. Click OK to close any error messages that display. The message notes to the user what action is taken in the import process. The user can go back and edit the file to correct any errors to fully complete the import.

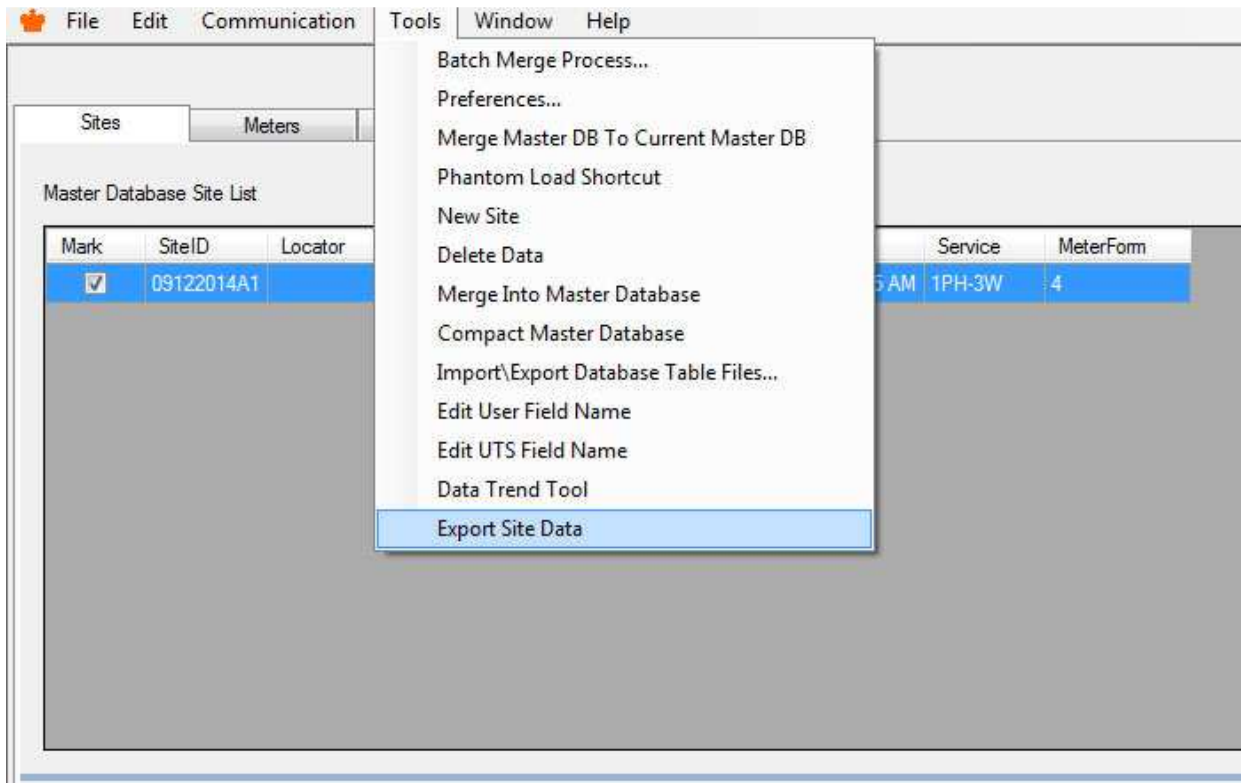


6. Once the import process is complete, click OK to finish.

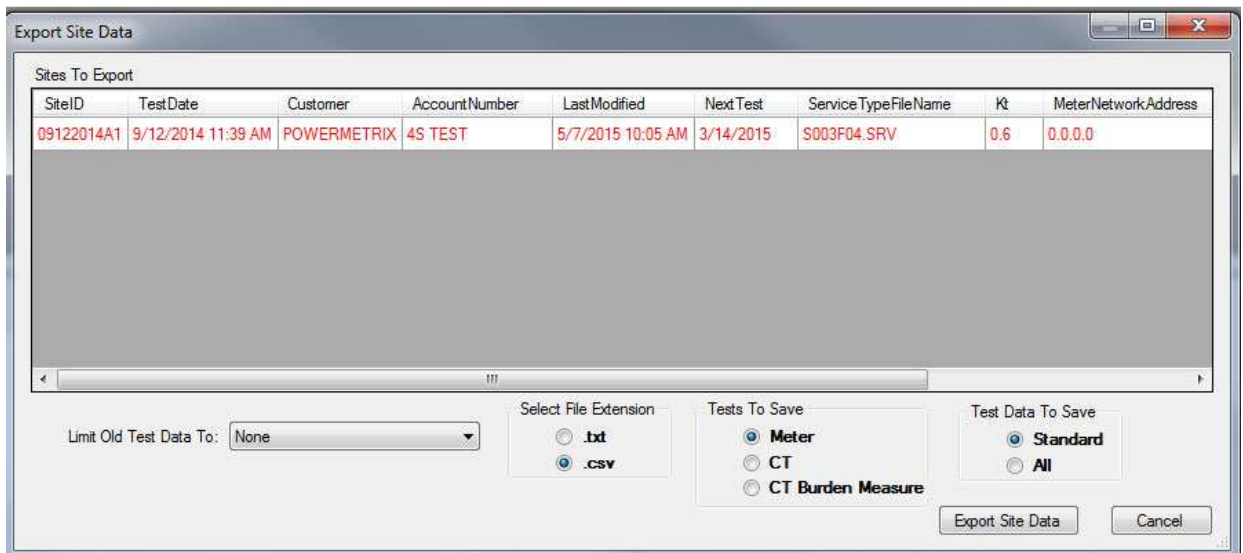


### **14.3 Exporting Meter and CT Test Results**

There is now the ability to export meter and CT test results directly to .csv or .txt files. To begin, place a checkmark next to the site/sites that need to be exported. Under Tools, select the "Export Site Data" option.



After selecting Export Site Data, a pop up menu opens that allows the user to configure the data they are exporting.



1. Limit old test data to: Default is none, indicating no limit on test data associated with the sites. Other options are to limit to 3 months to 24 months worth of data.
2. Select file extension: Set to .txt or .csv
3. Test to save: Meter test, including registration, CT test, including ratio and error, and for the 3 series, CT Burden measure.
4. Test Data to save: Standard is a standard output with the most commonly requested fields. The columns will always remain the same, regardless of which how many sites are chosen. "All" will export every single table in the database to the spreadsheet.

Once the conditions have been set, click on “Export Site Data” to open a browser window to allow the user to select the filename and location.

## 15 Using Microsoft Excel for Custom Reports

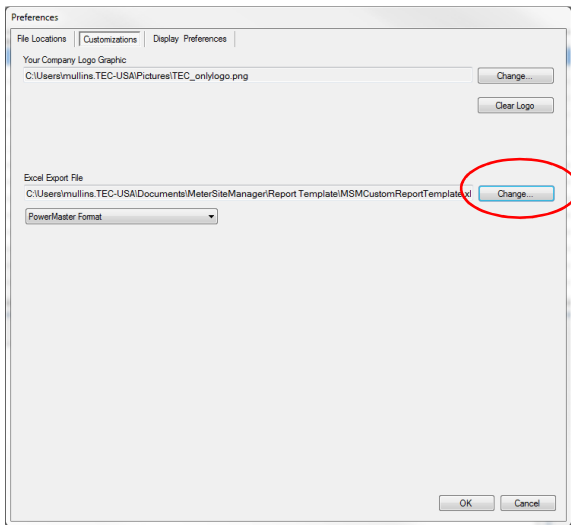
The Meter Site Manager 2 software allows the user to export test data to a formatted Excel spreadsheet template provided by Powermetrix. The test data is exported to a specific tab in the spreadsheet and uses cell references in the default tab for a customized report.

A standard template (.xlsx) is available free of charge on the Technical Library under PC Software at <https://www.powermetrix.com/technical-library/>. Username and password required.

Once the standard template is acquired, the user can modify the first tab of the spreadsheet with cell references as desired. Once the template is complete, save the template either locally or on a network that is accessible by the PC. Optionally, the user may output the file to .CSV instead of .XLSX. See [Excel Export File](#) for further instructions on how to save the Excel template's directory.

### 15.1 Save a Location for the Excel Template

1. Go to <https://www.powermetrix.com/technical-library/> to locate the latest template (MSMCustomReportTemplate.xlsx) and download the file.
2. Save this file in a location accessible to Meter Site Manager 2, like a local directory (Documents) or an easily accessible network directory.
3. In Meter Site Manager 2, go to Preferences, then Customizations. In the Customizations window, click "Change" to locate the directory for the template saved in the previous step.



4. Click OK to save.

### 15.2 Create or Edit the Excel Template

1. Locate the template file (MSMCustomReportTemplate.xlsx) and open in Microsoft Excel.
2. In the Sheet 1 tab, select the desired cell to input data from the test data.

	A	B	C	D
1				
2				
3				
4	Customer:			
5	Site ID	0		
6	Customer			
7				

- In the "Data" tab, locate the desired output from the site test data that will correspond to the cell located on the "Sheet 1" tab for the report.

	A	B	C	D	E	F
1	Site Description					
2	SiteID	SiteDescri	Locator	TestDate	PercentRegistration	Customer
3		1234 test		12/23/2019 8:01	0	Wal-Mart
4						
5	Master Test Record					

- On the "Sheet 1" tab, in the Function bar in Excel, type the cell reference from the "Data" tab into the desired cell. This is called a cell reference. Press Enter.

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						

- Now the cell in "Sheet 1" will auto populate for every export.

	A	B	C	D	E
1					
2					
3					
4	Customer:				Locator
5	Site ID	0			Address
6	Customer	Wal-Mart			City
7					

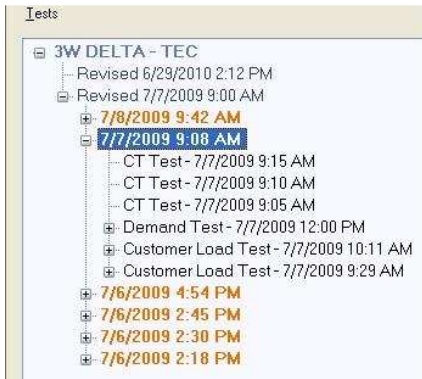
- Repeat this process to create cell references from the "Data" tab to the "Sheet 1" tab as desired. Once complete, click File, Save to save all changes/edits.

### 15.3 Export Data to Excel Template

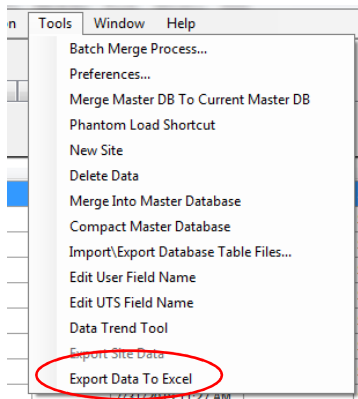
- Select the site in the database list.

Mark	SiteID	Locator
<input type="checkbox"/>	3PH 4W WYE ZCOIL	
<input checked="" type="checkbox"/>	3W DELTA	35.910226, -84.144124
<input type="checkbox"/>	4 WIRE Y	

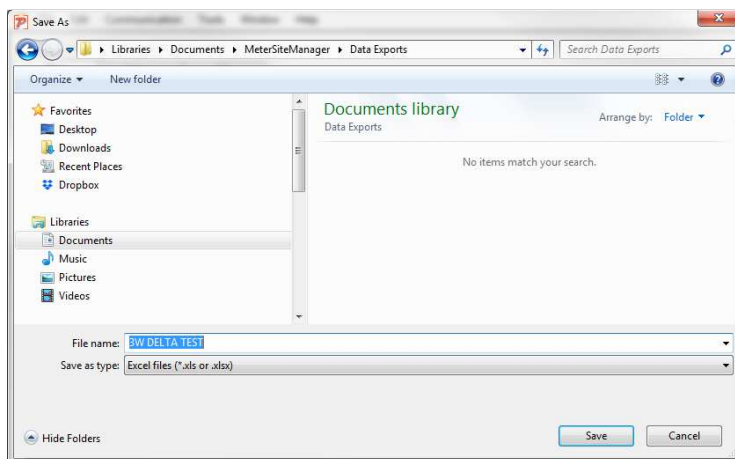
- In the tree view, click the desired date.



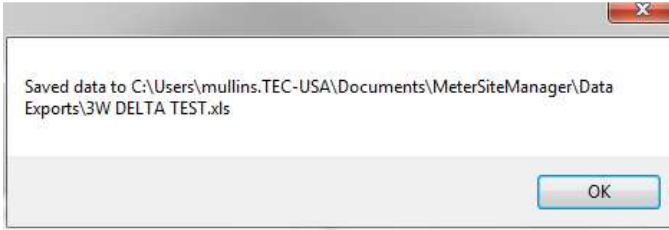
3. Click Tools, Export Data to Excel



4. Enter File name and browse to desired directory to save the exported data. The user has the option of exporting to .XLS, .XLSX, or .CSV formats in the "Save as Type" selection. After the format is selected, click Save.



5. Click OK to confirm export and file was saved successfully.



6. Locate and open the recently saved Excel file to view the custom report located on “Sheet1” of the spreadsheet. All raw data will be stored for cell references on the “Data” tab of the spreadsheet. DO NOT DELETE THE “DATA” or “LUT” TABS.

	A	B	C	D	E	F	G
1	Wiring	4W-WYE					
2	U Range	0					
3	PT	120					
4	I Range	15.65492					
5	CT	100					
6	PLL						
7	Frequency						
8	U calc Type						
9	THD Calc						
10	PF Type						
11	Energy	Delivered					
12	Quadergy						
13	Calc Mode						
14	Interval						
15	Pulse/#Rev	108					
16	Kp/Kh	0					
17	Unit Rec	Wh					
18	Meter Tag Number	180737607					

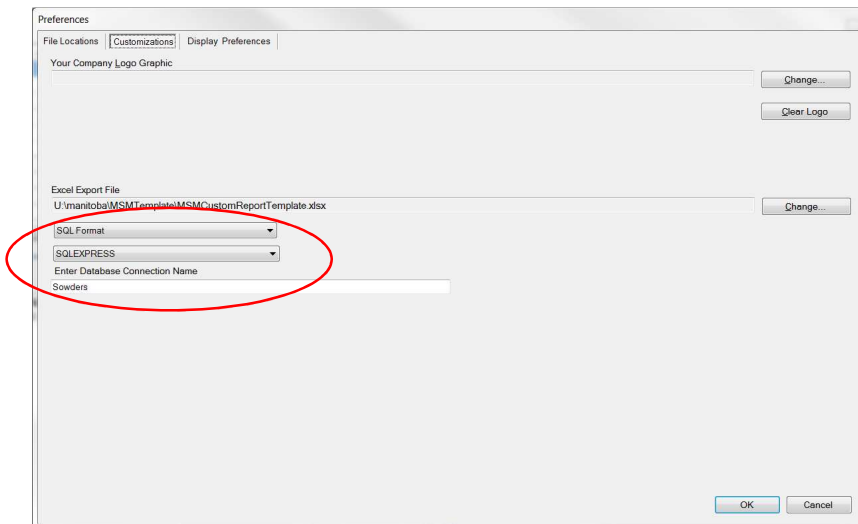
## 16 Microsoft SQL Server Support

The Meter Site Manager 2 software allows the user to save and merge data from the current database format (Compact SQL) to a standard Microsoft (MS) SQL Server format on a local machine. Once saved, the user can use standard MS SQL tools to query, edit, and extract data from the database. Meter Site Manager 2 will continue to preserve the Compact SQL format while leveraging an MS service (ODBC) that provides a path for standard SQL formats and practices to allow compatibility for other CRM or CIS systems currently in-house.

To view and edit the standard SQL database, the user must have a version of SQL Server or SQL Server Express 2014 or greater. Each time Meter Site Manager 2 is closed, any changes to the database will be automatically merged to the SQL Server.

### 16.1 Setting up the Local Server

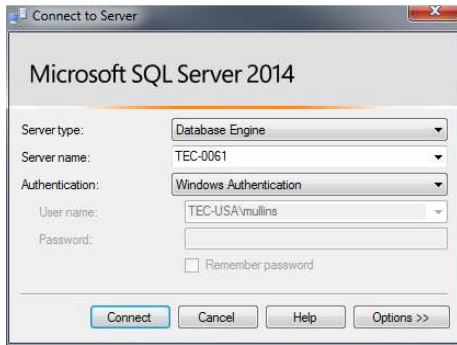
1. In Meter Site Manager 2, click Tools, Preferences. Next, click Customizations.
2. In the Customizations window, to add the new SQL database, change to “SQL Format” and enter a name to create an instance.



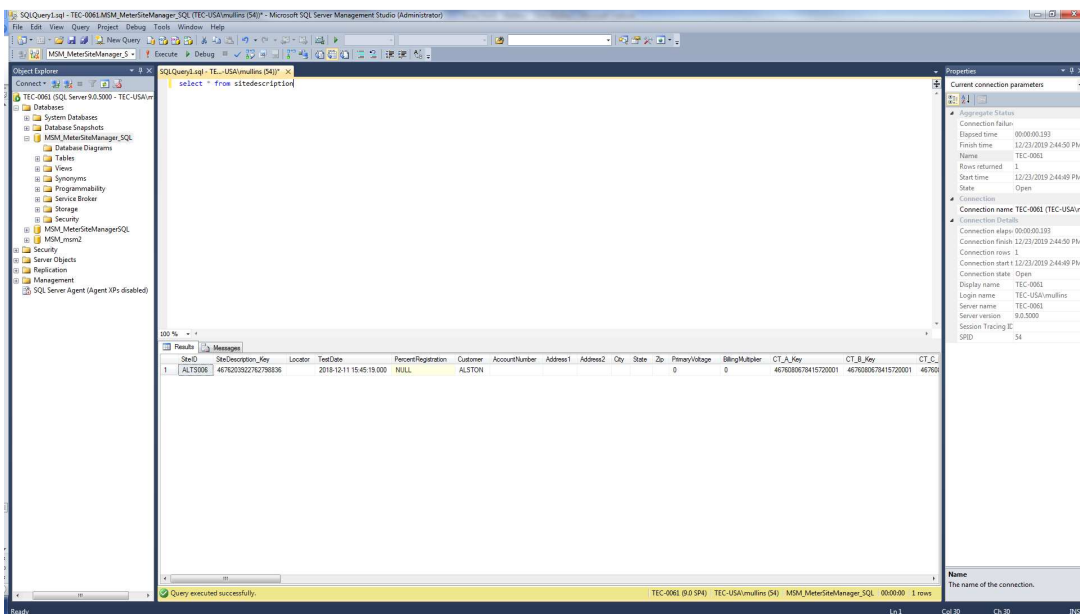
3. Next, click OK to create the instance and merge the data. By default, a prefix of “MSM\_” is inserted in front of the named instance to ensure uniqueness.
4. If an additional instance is required, simply enter a new name into the open field and click OK. Going forward, any data merge will synchronize to the newly named instance.

### 16.2 Viewing, Editing, and Querying the SQL Database

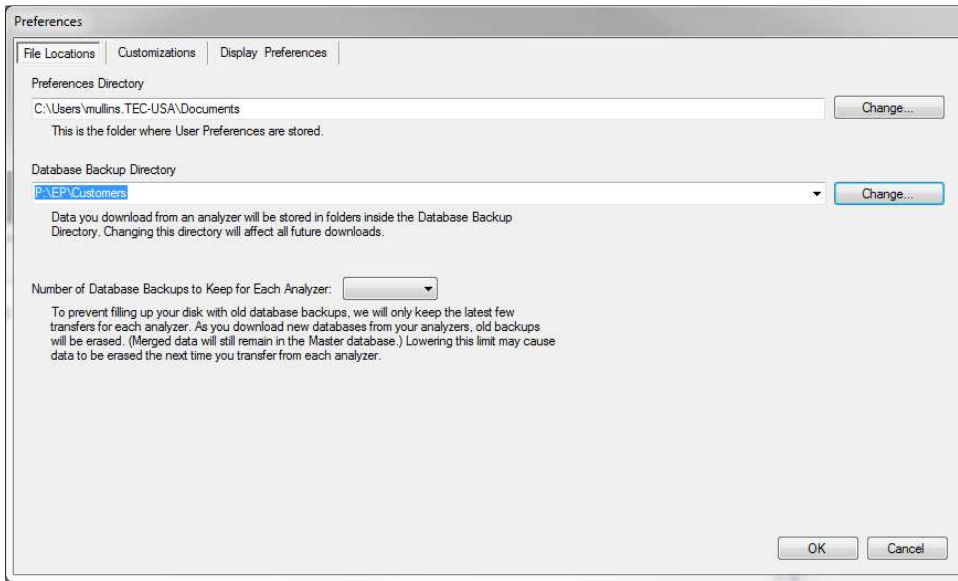
1. Open the application SQL Server or SQL Server Express (2014 or higher). Verify the application is using Windows Authentication to connect to your local machine. Click Connect.



2. Once the database is open, the user can now perform standard queries and data table edits as desired.



# 17 Preferences



\*Accessed by clicking Tools, Preferences

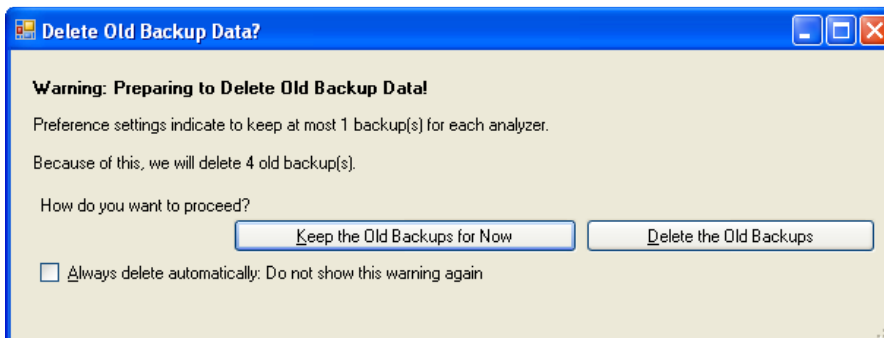
## 17.1 Preferences Directory

Due to some administrative privilege settings for the local machine, the option of moving the Preferences directory to allow for read/write access is available. Click the “Change” button to browse and move the directory.

## 17.2 Database Backup Directory

This directory is where the PowerMaster<sup>®</sup> will download all acquired data to be stored. To change the directory path, click “Change”. Browse to the desired directory path (including network paths), and click OK to accept. Click OK once more at the bottom of the Preferences screen to save the directory path. The new directory path is applied to the next download from the PowerMaster<sup>®</sup>.

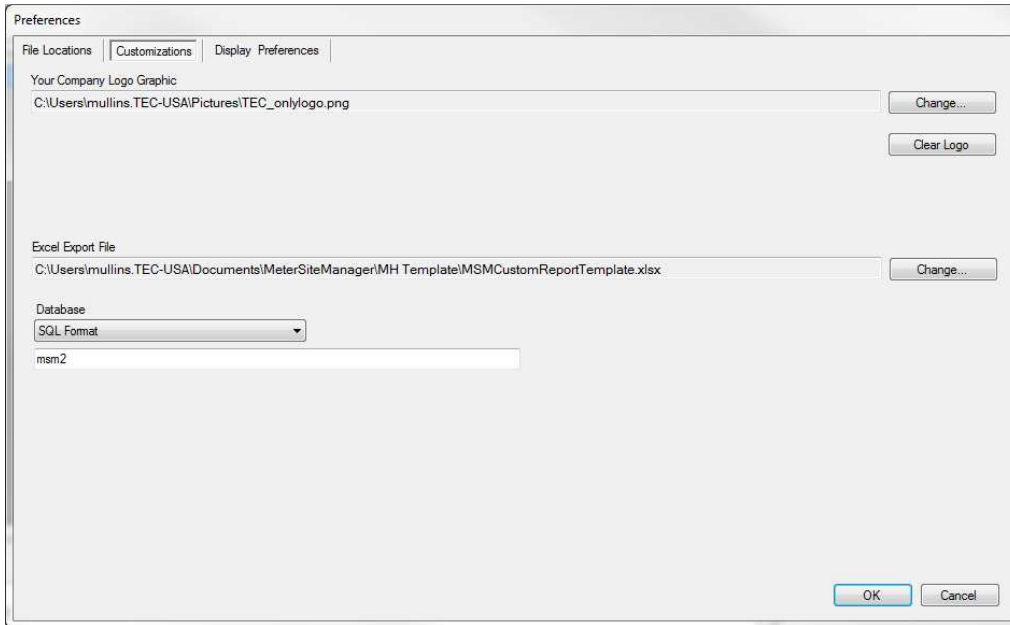
Meter Site Manager 2 will create a backup of the PowerMaster<sup>®</sup> database each time it is uploaded. To prevent from unnecessary disk space to be taken up, the user has the option of selecting how many database backups they desire to store. The user can select from 10 (default), 5, 3, or 1. When the user exceeds the selected database backups, the following dialog will display:



The user has the option to keep the backups until prompted at the next upload (“Keep the Old Backups for Now”) or to delete the backups immediately (“Delete the Old Backups”). Before a

choice is made, the user also has the option to select to automatically delete the backups according to the Preferences (“Always delete automatically: Do not show this warning again”).

## 17.3 Customizations



\*Accessed by clicking Tools, Preferences, Customizations

### 17.3.1 Company Logo

Meter Site Manager 2 offers a feature that allows the user to add a company logo to all reports. To select a company logo, click “Change”. Browse to the desired image (.bmp or .jpg), and click OPEN to accept. A preview of the image will display. Click OK at the bottom of the Preferences screen to save the image. Close Meter Site Manager 2 and reopen to make the changes effective. If the wrong logo was uploaded, or no logo is desired, click “Clear Logo”.

### 17.3.2 Excel Export File

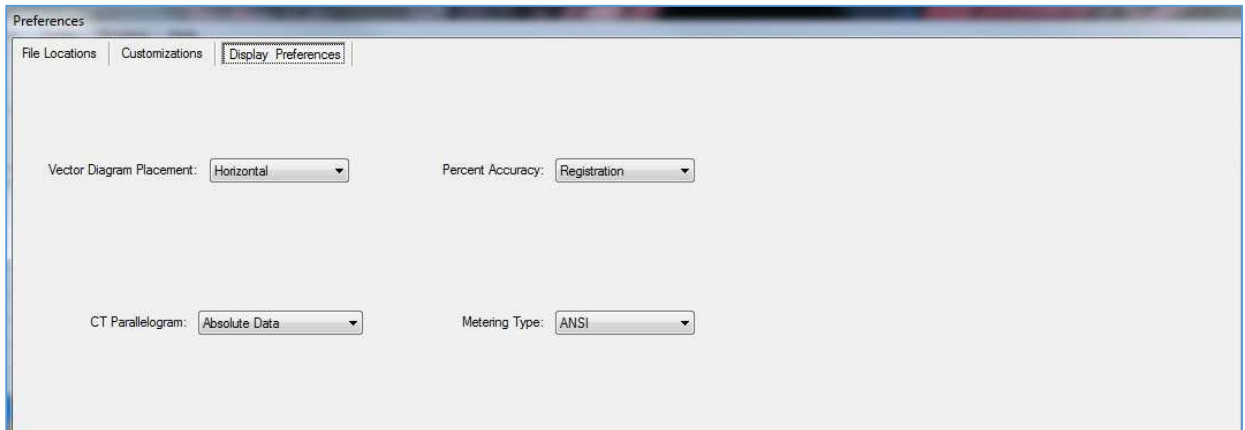
To support the ability of exporting test data to an Excel template, the user can save a directory path on a local machine or network for Meter Site Manager 2 to retrieve the file. The path will support any .xls or .xlsx template file provided by Powermetrix. Click “Change” to browse and select a file.

A standard template is available free of charge on the Technical Library for PC Software at <https://www.powermetrix.com/technical-library/>. Username and password required.

### 17.3.3 Database

The user has the option to add an additional database format for Microsoft SQL Server that is synchronized to the standard Compact SQL database format (.sdf) used by Meter Site Manager 2. To add the additional SQL database, select “SQL Format” and enter a name to create an instance. Next, click OK to create the instance and merge the data. Each time the application is closed, any changes to the database will be automatically merged to the SQL Server. If an additional instance is required, simply enter a new name into the open field and click OK. Going forward, any data merge will synchronize to the newly named instance.

## 17.4 Display Preferences



\*Accessed by clicking Tools, Preferences, Display Preferences

1. Vector Diagram Placement: Can be set to "Horizontal" or "Vertical".
2. Percent Accuracy: Can be set to "Registration" or "Error"
3. CT Parallelogram: "Absolute Data" or "Relative to Zero Burden"
4. Metering Type: "ANSI" or "IEC"

These options allow the user to customize how the data is viewed.

## 18 FAQs

### Where are the backup databases located?

The default directory is “C:\Documents and Settings\My Documents\MeterSiteManager”. This path can be changed by using Tools, Preferences.

### How do I open a database?

When you open Meter Site Manager, click File. Click “Open Backup Database” or “Open Recent Backup Database”.

### How do I view a report?

Select a site in the site database in the top window. In the tree view to the left, double-click on the test results underneath the time/date stamp. The report is automatically generated (this may take several seconds).

### How do I print a report?

After the report is generated (from above), click on the Print icon in the report header.

### Can I print to PDF?

Yes, if you have a pdf creator installed. There are many free pdf creators found on the web. Powermetrix recommends [PDFCreator](#).

### I can't communicate with the PowerMaster<sup>®</sup>. What's wrong?

1. Verify the PowerMaster<sup>®</sup> is powered on.
2. Verify the PowerMaster<sup>®</sup> is in Connect Mode (Utilities, Connect to Meter Site Manager)
3. Disconnect the USB cable from the PowerMaster<sup>®</sup> and re-connect. This will re-establish communications between the PowerMaster<sup>®</sup> and Windows Mobile Device Center(Win 7).

### How do I view the harmonic details?

The details are located on another tab. In the report header, click the tab “Harmonic Details”.

### I don't have full administrative rights on my computer. Can I still use this software?

Yes. Install and run the application as normal. The software writes to a configuration file instead of the registration which should not require special rights to use.

### If I merge a backup database into the Master database more than once, will it create duplicate data?

No. During the merge process, the application goes through each database entry and looks at data changes. If data changes exist, it writes to the database. Otherwise, the process ignores the existing entry and moves to the next one until complete.

### **What's the difference between "uploading" and "downloading"?**

When you want to send data to the PC from the PowerMaster<sup>®</sup>, we consider this to be "uploading". When you want to send data to the PowerMaster<sup>®</sup> from the PC, we consider this to be "downloading".

### **When creating a route, what is the option "Include Disabled Support Table Records (CT, PT, etc.)"?**

When a route is created in the PowerMaster<sup>®</sup>, the Master Database is also synchronized to the PowerMaster<sup>®</sup> database. The metering components that are "disabled" will also be downloaded as well. By default, Meter Site Manager 2 only downloads metering components that are "enabled" to prevent unnecessary memory allocation. Refer to [Section 8](#) for further details on Enable/Disable.

### **What does the function "Compact Database" do?**

When deleting data, the size of the database remains the same. Fortunately, when Meter Site Manager 2 is closed, it automatically compresses the database to accommodate any data deletion. If the user wants to do an optimal compression, the user can manually compress the database by clicking Tools, Compact Database to save another 5% approximately in size.

### **How do I synchronize my changes from my Master database to the PowerMaster<sup>®</sup>?**

You can do this one of two ways:

"Erase all Sites and Tests in PowerMaster Analyzer..." (see Section 5.1)

"Create Route and Send to PowerMaster Analyzer..." (see Section 5)

### **How do I know what version of software I'm using?**

Click Help, About.