

## **INSTALLATION/USERS GUIDE**

# TESCO DEVICE MANAGER



# TESCO DEVICE MANAGER INSTALLATION/USERS GUIDE



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## **1. INTRODUCTION**

### Welcome to TESCO Device Manager (TDM), your complete data management solution.

TDM is designed to streamline data management for your TESCO devices, making it easier than ever to extract, organize, and analyze essential metering information. Whether you're handling meter data, performing remote device operations, or generating reports, TDM ensures a seamless and efficient experience.

What Can TDM Do for You?

With TDM, you can:

- ✓ Manage Data with Ease Extract data from multiple TESCO devices simultaneously.
- ✓ Import and Organize Quickly import meter, site, and charger information from CSV files.
- ✓ Export Test Results
  - Generate PDF reports with custom branding, unit conversions, and chart/graph color adjustments.
  - Export results in CSV format for easy data analysis.
  - Create custom exports using SQL queries and regular expressions.

✓ Update Multiple Devices at Once - save time by updating multiple TESCO units simultaneously.

✓ Remote Control Meter Test Boards – manage test boards through secure network communication.

For over a century, TESCO has been a trusted name in metering, delivering accuracy and reliability. With TDM, managing your devices has never been easier.

## **2. CONTACTING TESCO**

For Technical Support or Calibration/Repair, please call 215.228.0500.

You can also send an email to support@tescometering.com with any questions.

To view, print, or download the latest manual supplement, visit tescometering.com.

## **3. INSTALLATION**

To download Tesco Device Manager (TDM) click here:

<u>https://www.tescometering.com/software/tdm/</u> or go to: tescometering.com, click resources, download TDM, scroll to the bottom and click on Download TDM Here.

After downloading you can start installing, by running TescoDeviceManager\_Setup.exe. An installation wizard will pop up to guide you in the installation process.

Note:

- The installer will only run on Windows 8, 10 & 11.
- Administrative rights are not required to install the application.

## 3.1 Installation Steps

	SCREEN	DESCRIPTION
STEP 1: Welcom	e screen	
SESCO Device Manager v2.1.0r Inst 😫	taller Setup Welcome	<ul> <li>The software version of the TESCO</li> <li>Device Manager application that is</li> </ul>
Wekome Installation Folder Select Components License Agreement Start Menu shortcuts Ready to Install Installing Finished	Welcome to the Tesco Device Manager v2.1.0r Setup Wizard. TDM is to be used to extract and modify data in TESCO's Meter Test Boards, TESCO's Meter Site Analyzer and TESCO's EVSE Tester. Supported Software Versions of TESCO Devices in this release: • Meter Test Boards 3.1.7r • Meter Site Analyzer 1.4.7r • EVSE Tester: 1.4.9r WARNING!!! TDM will require a Software update on any device with a Software version lower to the specified version above. Downgrading to a prior version will not be possible.	about to be installed is indicated on this screen, along with the software version of the TESCO Devices that this version TDM supports. Press "Next >" to proceed with the installation.
	Next > Quit	Choices Are: Extract All/Run/Cancel Select: EXTRACT ALL
TEP 2: Installat	•	<ul> <li>The default installation directory of the application is:</li> </ul>
Welcome Choose Installation Directory Select Components License Agreement Start Menu shortcuts Ready to Install Installing Finished	Please select where TescoDeviceManager will be installed: C:/TESCO/TescoDeviceManager Existing installation detected and will be overwritten.	C:\TESCO\TescoDeviceManager The user can change the installation folder by clicking the ellipsis button and browsing the desired directory. Press <u>Note:</u> When installing a new version, be sure it uses the same path as the current one to ensure that it will overwrite it.
		"Next >" to continue with the

2

	SCREEN	DESCRIPTION
<b>STEP 3: Selection</b>	of Application Components	
TESCO Device Manager v2.1.0r Installer :	Setup X Select Components Please select the components you want to install. Select Search Install Tesco Device Manager v2.1.0r TESCO Device Manager v2.1.0r	The information on the required disk space to install the application is provided.
Select Components License Agreement Start Menu shortcuts Ready to Install Installing Finished	This component will occupy approximately 238.99 MB on your hard disk drive. < Back Next > Cancel	Press "Next >" to continue with the installation.
STEP 4: License A	-	
TESCO Device Manager v2.1.0r Installer : Please read the following license age	Setup X License Agreement reement. You must accept the terms contained in this agreement before continuing with the installation.	This screen contains the license agreement in using TESCO Device Manager.
Welcome Choose Installation Directory Select Components <b>Licence Agreement</b> Start Menu shortcuts Ready to Install Installing Finished	This End-User License Agreement (EULA) is a legal agreement between you (either as an individual or on behalf of an entity) and TESCO - The Eastern Specialty Company regarding your use of TESCO Perice Manager's desktop application, and associated documentation (the "Software"). If YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS EULA, DO NOT INSTALL, USE OR COPY THE SOFTWARE. Summary You must agree to all of the terms of this EULA to use this Software. If so, you may use the Software for free and for any lawful purpose. This Software is provided "as-is" with no warranties, and you agree that TESCO - The Eastern Specialty Company is not liable for anything you do with it. The Agreement By downloading, installing, using, or copying the Software, you accept and agree to be bound by the terms of this EULA. If you do not agree to all of the terms of this EULA, you may not download, install, use V I accept the terms in the License Agreement (< Back Next> Cancel	
E TESCO Device Manager v2.1.0r Installer	Setup × License Agreement greement. You must accept the terms contained in this agreement before continuing with the installation.	By <b>accepting the terms</b> , the installation process can continue. Press "Next >" to
Welcome Choose Installation Directory Select Components <b>License Agreement</b> Start Menu shortcuts Ready to Install Installing Finished	TO, DAMAGES FOR LOSS OF FROFITS, GODONILL, USE, DATA OR OTHER INTRACEBLE LOSSES (EVEN IF TESCO - THE EASTERN Specialty Company HAS BEERN AVVISED OF THE FOSSIBILITY OF SUCH DAMAGES) FELATED TO THE SOFTWARE, including, for example: (i) the use or the inability to use the software; (ii) the cost of procursement of aubstitute goods and services resulting from any goods, data, information or services purchased or obtained or assages received or timenactions entered into through or from the Software; (iii) unauthorized access to or alteration of your transmissions or data; (iv) statements or conduct of any third-party on the Software; (v) or any other matter relating to the Software. THESCO - The Eastern Specialty Company reserves the right at any time and from time to time to audify or discontinue, temporarily or purchased or dutained to the Software. TESCO - The Eastern Specialty Company reserves the right at any time and from time to time to addify or discontinue, temporarily or purchased or dutained to the Software. Note: I scept the terms in the License Agreement <a href="https://www.essternsmin.com">kertements</a>	proceed to the next step.

	SCREEN	DESCRIPTION
STEP 5: Start Mer	nu Shortcut	
😤 TESCO Device Manager v2.1.0r Installer S	etup X	In this screen, you may change the Start
Select the Start Menu in which you v	Start Menu shortcuts would like to create the program's shortcuts. You can also enter a name to create a new directory.	Menu shortcut location for TDM.
	TESCO/TescoDeviceManager	
Welcome	Accessibility	
Choose Installation Directory	Accessories Administrative Tools	
Select Components	Atlassian	
License Agreement	DbSchema GitHub, Inc	
Start Menu shortcuts	GitKraken IP Messenger for Win	
Ready to Install	Maintenance	
Installing	Postman Qt 5.10.0	
Finished	Startup	
	System Tools TESCO	
	Tesseract-OCR 🗸	
	< Back Next > Cancel	
	4-11-41	
STEP 6: Begin Ins		
🔗 TESCO Device Manager v2.1.0r Installer S	ietup X	Press " <mark>Install</mark> " to confirm and start the
	Ready to Install	actual installation process.
	All required information is now available to begin installing TESCO Device Manager v2.1.0r on your	
Welcome	computer. Installation will use 238.99 MB of disk space.	
Choose Installation Directory		
Select Components		
License Agreement		
Start Menu shortcuts		
Ready to Install		
Installing		
Finished		
	< Back Install Cancel	
STEP 7: Installation		
😤 TESCO Device Manager v2.1.0r Installer S	Setup X	This screen shows the progress of the
	Installing TESCO Device Manager v2.1.0r	installation process.
	82%	
Welcome	Unpacking components	
Choose Installation Directory	7 of 8 operations completed.	
Select Components	Show Details	
License Agreement		
Start Menu shortcuts		
Ready to Install		
Installing		
Finished		
	< Back Install Cancel	

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	SCREEN	DESCRIPTION			
STEP 8: Succes	ssful Installation				
TESCO Device Manager v2.1.0r li	nstaller Setup	×	If no errors are encountered during the		
	Finished the TESCO Device Manager v2.1.0r Setup	TESED	installation process, this step will show		
Welcome	Click Finish to exit the TESCO Device Manager v2.1.0r Setup. ☑ Run TESCO Device Manager v2.1.0r now.		up and indicate that the installation is successful.		
Choose Installation Directory					
Select Components					
License Agreement			Press "Finish" to successfully end the		
Start Menu shortcuts			installation.		
Ready to Install					
Installing			Note:		
Finished		Finish	The application is now ready to be used and does not require a computer restart.		

Once the installation is complete, launch the software by double clicking the TDM icon to access the login screen.

Simply press 'Enter' to log in.

## **4. USER INTERFACE**

The main user interface includes:

- Toolbar at the top
- Side navigation menu for easy access to features,
- Workspace area where you can efficiently perform tasks

The Toolbar is broken down into four sections:

- 1. File:
  - a. Migrate TMA
  - b. Sync with Network Database
  - c. Quit
- 2. Edit
- 3. Management
- 4. Help

For those currently using TESCO's TMA software, please start here. Other users skip to 4.1.2/EDIT.

## 4.1 Menu Bar

## 4.1.1 File



Under File menu, we have 3 items:

- 1. Migrate TMA data
  - This is a one-way operation which copies the data from older database versions (i.e., Test Management Application) to TDM.
- 2. Sync with Network database
  - This is a two-way operation which will make both TDM and Network databases up to date with each other. All new records in TDM will be copied over to the Network database and all new records in the Network database will be copied over to TDM. "New records" also include records that have been marked as "dirty".
- 3. Quit
  - Close the application.

## 4.1.2 Edit



Edit has one item under it titled Preferences. Under Preferences there are five different tabs (General, Database, Report, User Interface and Others) that will enable the end user to customize TDM so it is exactly the way they want it to be.

Section 5, Setting Up Preferences will walk you through that process.

## 4.1.3 Management

Under the **Management** tab, end-users can customize settings and configurations, giving them advanced control and customization options to optimize their experience and enhance system functionality.

The Management section displays a list of supported equipment. However, the devices shown may not all apply to your setup. You will only need to configure and manage the equipment specific to your installation. If a device is listed that you do not own, you can simply disregard it.



## NextGen – Standards Validation

This is where you can compare measurements from a Meter Test Board based on RD-2x/RD-3x, or a Pulse Processor setup with 3 RD-2x.

Device Under Test (DUT). The device in which you are testing.

**Test points**: Test points can be added on the fly in the matrix; right click to add or delete rows. By clicking save test points, the system will automatically save an excel spreadsheet to the folder that is defined in OUTPUT path. If you prefer working or editing in excel you are able to do so; once the document is saved, the system will automatically pull that information into TDM.

	DUT					TEST POI	ITS						
			Voltage	Current	Phase	requenc	Element	Seconds	Itter	-			
	TESTPOINT	rs	60	0.25	0	60	s	5	3	🚨 Autosave 💽 🕐	8 9 - 1	Q' ⊂ ₹ Full Laz	ud 🗸
Full Load			▼ 60	0.25	60	60	S	5	3	File Home Inse	t Draw	Page Layout For	rmulas Data
	SAVE TESTPOI	INTS	120	0.25	0	60	s	5	3	Car X Car	1	s Narma v 11	- A* A* =
			120	0.25	60	60	S	5	3	Paste D Copy ~			
_	COMMS		240	0.25	0	60	s	5	3	👻 🛷 Format Pair	iter B	$I = 0 =   \bigoplus v  $	<u>v v v</u> -
None	O RD	O Pulse Processor	240	0.25	60	60	s	5	3	Clipboard	9	Fant	5
	Model	Serial	350	0.25	0	60	s	5	3	A10	$\checkmark f_X \checkmark$	480	
RD #1	1.000	our las	350	0.25	60	60	s	5	3	A B	c	D E	F
RD #2			480	0.5	60	60	S	5	3	1 Voltage Current	Phase	Frequency Element	
RD #3			60	0.5	0	60	S	5	3	2 60 0.25			5
0 #5	)(									4 120 0.25			5
	MEASURE TY	/PE	60	0.5	60	60	S	5	3	5 120 0.25			5
kWh			<ul> <li>120</li> </ul>	0.5	0	60	S	5	3	6 240 0.25 7 240 0.25			5
	OUTPUT		120	0.5	60	60	S	5	3	8 350 0.25			6
ath:			240	0.5	0	60	S	5	3	9 350 0.25 10 480 0.5			5
"·/I kors/Pamola Ko	enwood/Documents/TDM-Reports/	BROW	240	0.5	60	60	S	5	3	11 60 0.5	5 0	60 S	5
en oberbyr emelenne	entrood, bocamenta, ronniceporta,		350	0.5	0	60	s	5	3	12 60 0.5 13 120 0.5			5
	STATUS		350	0.5	60	60	S	5	3	14 120 0.5	5 60	60 S	5
			60	1	0	60	s	5	3	15 240 0.5 16 240 0.5			5
			60	1	60	60	s	5	3	17 350 0.5			5
			120	1	0	60	s	5	3	18 350 0.5 19 60 1	5 80		5
			120	1	60	60	s	5	3	19 00	0	60.5	9
			240	1	0	60	S	5	3				
			240	1	60	60	s	5	3				

Communications (COMMS). Select the device you will be communicating with.

**Communications (Comms)** refers to how the test system receives data from the meter. Users can select from three options: **None**, **RD (Radian)** for standard reference communication, or **Pulse Processor** when using a dedicated pulse counting device.

COMMS						
0 None	O RD	O Pulse Processor				
	Model	Serial				
RD #1						
RD #2						
RD #3						

COMMS						
🔿 None 🤇	🖲 RD 🔿	Pulse Processo				
	Model	Serial				
RD #1						
RD #2						
RD #3						

COMMS								
O None	O RD	Pulse Process						
	Model	Serial						
RD #1								
RD #2								
RD #3								

Measurement Type. Choose from kWh, kVARh or kVAh

	MEASURE TYPE	
kWh		•

Output. Path in which reports will be exported.

OUTPUT	
Path:	
/Meter Shop/Documents/TDM-Reports	BROWSE

**Status.** Status is a free-form text field that allows users to enter notes or context related to the test session. This field is optional and can be used to document conditions, observations, or internal tracking details.

Examples of how the Status field might be used:

- Noting environmental conditions (e.g., "High humidity in test area")
- Indicating meter condition (e.g., "Meter requires re-inspection")
- Logging operator initials or shift details (e.g., "Checked by PM Night Shift")
- Adding a reminder or flag for future review (e.g., "Review kVARh drift")

STATUS Free form to write your own notes here.

## CAT. 6330 – Fluke Calibration

Calibrating the TESCO 6330 Meter Site Analyzer with a Fluke 6105A.

### Device Under Test (DUT).

**DUT Serial #.** Drop down menu will populate based on device attached.

**Software Revision:** Version will populate based on device.

Last Calibrated: Date will populate based on device.

Fluke. Information pertaining to the fluke device.

**Communication Port:** Use Drop down to select, Model and Serial # will populate based on device attached. Click READ INFO

**Others.** Enter the room humidity and temperature.

Output. Path in which reports will be saved.

😤 CAT. 6330 - Fluke Calibration	– O X
DUT	Test Points
DUT Serial: 🗾 👻	Voltage Current Seconds Iterations
oftware Rev:	
st Calibrated: 1/1/2000	
Fluke	
COM Port: 🗨 EAD INF	
Model:	
Serial:	
Others	
HUM: 50.0 %R JEMP: 23.0 %	
Output	
cuments/TDM-Reports/ BROWSE	
	Start CAL

#### **EVSE – AC Calibration**

Conduct AC calibration on an EVSE Tester with TESCO ACTM.

😸 EVSE - AC Calibration		– 🗆 🗙
DUT	Test Points	
DUT Serial:	Voltage Current Seconds Iterations	
ioftware Rev:		
st Calibrated: 1/1/2000		
Port Type 192.168.200.88		
AC		
DUT Serial:		
oftware Rev:		
st Calibrated: 1/1/2000		
Others		
Humidity: 50.0 Temp: 23.0		
Output		
Documents/TDM-Reports/ Browse		
	Start C	AL Help

Not sure how to do it?

Click Help to access AC Calibration Cable Setup Guide.















## 1. EVSE – DC Calibration

Conduct DC calibration on an EVSE Tester with a TESCO DCTM.



Not sure how to do it? Click Help to access AC Calibration Cable Setup Guide.















### **Custom Query**

End-users can create and run custom SQL queries within the TDM database offering meter shops enhanced data management, reporting and efficiency.

#### **Custom Exports**

Custom exports in TDM allow users to create custom export scripts by leveraging a combination of SQL queries and Regular Expressions (RegEx) to extract, filter, and format data in a highly tailored way.

#### Harmonics

Create custom waveform based on harmonics. Build your own library of voltage and current harmonics based on amplitude and phase.



### Defaults

The system gives you the ability to set custom default settings for a meter if you choose. Custom defaults are easy to identify – the font color is light purple. Assigning default values for a Meter form helps streamline workflows, reduce errors and improve efficiency.

😫 Defaults Settings — 🗆 🗙	X Settings - X
Form DefaultMeter Custom DefaultsForm:166Base:SKh:1.200Kt:1.200TA: $0.00$ Class:20Voltage:120.00 $c$ Class:1.0ultiplier:1 $\vdots$	Form DefaultMeter Custom DefaultsForm: 145  Base: S Form: 145  Base: S Kh: 1.200 $\div$ Kh: 1.200 $\div$ Kh: 2.50 $\div$ Class: 20 Voltage: 120.00 xc Class: 1.0 ultiplier: 1 $\div$ Functionality Code: []
Functionality Code: Bidirectior KYZ Capal Deman Vectorial Arithmeti No Set Default SAVE	Bidirectior KYZ Capal Capable Arithmeti Custom Default DELETE SAVE
CLOSE	CLOSE

Tags (refer to section 15 - Tags for complete setup).

Create, edit and delete tags. Tag management in a meter shop serves as a tracking and organizational tool, helping technicians and managers efficiently categorize, locate, and manage meters, test equipment and related assets.

Tag Name	Meters	Cts	Vts	Sites	Cha
NeedsRecalibration	2				
OutOfTolerance					
QCCheck					
RMA					
•					

## 4.1.4 Help

File Edit Management	Help	
Devices	Devices 🕨 🕨	Meter Site Analyzer
	Contact Us	EVSE Tester
🗎 Database 🛛 👻	User Manual	Knopp Comparators
El NovtCon Tosting	About	Meter Test Boards

Under Help menu are four items:

## 1. Devices

Under devices, you will find a submenu listing TESCO's device types. By clicking on one, you will be directed to the product page on TESCO's website.

## 2. Contact Us

Not sure how to contact TESCO? Click here to get the details.

## 3. User Manual

Access the TDM user manual for the most current version.

4. About

Selecting this menu item opens a popup with details on TESCO device software versions supported by TDM, along with a button to view the license agreement accepted during installation.

## 4.2 Side Navigation Bar



TDM's side navigation bar has three main items, "**Devices**", "**Database**" and "**NextGen Testing**". "NextGen Testing" can be shown/hidden depending on the supported device types that were selected under Edit/Preferences/Supported Devices from the toolbar.

## 4.2.1 Devices

All supported devices that TDM was able to detect/scan on the list of subnets/IP addresses set by the user will be found here. Your desktop might look like this:



## 4.2.2 Database

Database has four submenus: Items, Sequences, Test Results and Import

1. Items

End users will manage the Item records. Item record types are "Meters", "Cts", "Vts", "Meter Stations", and "EVSE Chargers".

Devices	ITEM	SEARCH							
Database 🔨	Meters -								
ltems 3	 Meters	MATCH EXACT	Tags:					Select 🖉 Set fro	om File
Sequences	-Cts								
Test Results	Vts	Meter SN	Utility Serial	Comm Serial	Meter Form	Model	Manufacturer	Demand Capable	: Kh
E Import	Meter Stations	T-1904		7646668	5\$	A3	HONEYWELL	Yes	1.2
NextGen Testin <del>g</del>	+ -	9061		50CE5E71	95	S4XRXR	154274542	Yes	1.8
	+- Tags	77060706			95	SENTINEL	ITRON	No	1.8
	+• 🚽	61238			95	A3	HONEYWELL	Yes	1.8
	+ - NeedsRecalibration ×	502012007		KZG502012007DT049B	25	FM 95 (8)	Alliant	No	7.2
	+ VeedsRecalibration ×	502012006			95			No	1.8
	+-	336913987	541311		95	CENTRON	ITRON	Yes	1.8
	+ •	324564268			95	CENTRON	ITRON	Yes	1.8
	+ -	3210090			95	S4XRXR	L+G	Yes	1.8
	+.	30891493			95	A3	ELSTER	No	1.8
	+.	30130071			95	RXR	L&G	No	1.8
	+ -	17924738			95	S4XRXR	L+G	No	1.8
	+ •	159	357	245	95	RXR	L&G	Yes	1.8
	+ -	15695065			95	A3	HONEYWELL	Yes	1.8
	+-	154274539	9058	50CEAF73	95	S4XRXR	L+G	Yes	1.8
	+-	154068717	9001		95	S4XRXR	L+G	No	1.8
	+-	1324265M		4030702	95	A3	HONEYWELL	No	1.8
	+ •	13036732		C24	95	A3	HONEYWELL	Yes	1.8
	+-	12302571			95	A3	HONEYWELL	No	1.8

From this screen items can be:

- Added on the fly
- Imported from a CSV file
- Edited
- Searched by a specific word or a "tag"
- Edited, deleted, viewed (test results), or exported. Right click to edit, delete, view results (which brings you to test results for the item that is selected) and custom export. Please note a custom export needs to be set up under Management/Custom Exports on the toolbar before you can perform this task.

**To Add a Meter**: From Item drop down select **Meters**. Click **ADD NEW**. A new record will pop up for you to input your meter information.

File Edit Management Hel	lp										]
न Devices	ITEM	SEARCH									
🗟 Database 🛛 🔨	Meters										
🕄 Items	ADD NEW		CH EXACT	Tags:						Select 🚽 Set from File	
Sequences								1			
🖹 Test Results	TAGS	N	leter SN	Utility Serial		Comm Serial	Meter Form	Model	Manufacturer	Demand Capab	
€ Import	+ 🖵 QCCheck 🛛		T-1904			7646668	5S	A3	HONEYWELL	Yes	
🗐 NextGen Testin <del>g</del>	+ -		9061			50CE5E71	95	S4XRXR	154274542	Yes	
	+ -	7	7060706				9S	SENTINEL	ITRON	No	
😫 Edit Meter Info	d Occhester		61020			×	95	A3	HONEYWELL	Yes	]
Comm Serial: Utility Serial: Manufacturer:	9058 [L+G [S4XRXR	•	<ul> <li>Form</li> <li>Kł</li> <li>T A</li> <li>Voltage</li> <li>Multipliei</li> <li>Fun</li> <li>Z Capable</li> </ul>	$\begin{array}{c} 1.800 \div \\ \hline 1.800 \div \\ \hline 2.50 \div \\ \hline 0.100 \checkmark \\ \hline 120.00 \checkmark \\ \hline 120.00 \checkmark \\ \hline 100 \div \\ \hline 100 \div \\ \hline \\$	Class:	S ▼ 1.800 ÷ 20 ▼ 0.1 ▼ Vectorial Arithmetic	<ul> <li>Sp Me</li> <li>*F, Ele</li> <li>Ba</li> <li>Fu</li> <li>Ca</li> </ul>	entificatio ecificatio eter Note orm Selec ectrical Ra curacy Cla se: S, A, E nctionalit pabilities	ns: Manufactur s ction (dropdow atings: Kh, Kt, T ass, Multiplier, a, K, R, T, Z cy Code (open f (Check boxes)		ıg #, nosen
	<b></b>		1				*Selections for chosen <b>Form</b> .	Form defa	<b>ults</b> update dynai	mically based on the	

Click **CONTINUE** to save record.

**To add a CT**: From Item drop down select **Cts**. Click **ADD NEW**. A new record will pop up for you to input your CT information.

Edit Managem	ent Help										
Devices		ITEM	SEARCH								
Database	^ Cts	•									
ltems		ADD NEW	MATCH EXAC	Tags:							Select 🗸 Set from File
Sequences											
Test Results		TAGS				Burd	en Class	Rating Factor		Manufacturer	
E Import				1200:5	0.6		0.2	4.0	JABO	GE	2021-10-26 12:08:54.050
NextGen Testi	· · ·		J68354	5 1200:5	0.6		0.2	4.0	JAB0	GE	2021-10-26 12:08:54.050
😭 Edit	t CT Info					) ×		4.0	JABO	GE	2021-10-26 12:08:54.050
	Seria	#: 912049569				5	.0	4.0	CMV	ABB	2021-10-26 11:21:16.514
	Manufactu						СТ	Setup Fields.	Enter ke	ey details to set	t up a Ct:
	Mo	del: [JAB0									
Nan	neplate Ra	tio						<ul> <li>Identi</li> </ul>	fication	: Serial #, Man	ufacturer, Model #
	efault	Ratio	Acc. Class	Bur. Clas	ss RF			<ul> <li>Name</li> </ul>	plate R	atio Informatio	on:
		0:5	0.3	0.2	4.0	o		C	⊃ Ra	tio Number	
	Yes	400:5	0,3	E-0.04	4.0	_		C	) Bu	rden Rating (dr	ropdown)
		😭 Edit Ratio			×			(	) Ra	ting Factor	. ,
								(		curacy Class	
		Nameplate Ra	tio: 🛛 🕴 🛨	: 5	-					ax Test Burden	(drondown)
		Burden Rati	ng: E-0.04		-			ck <mark>Done</mark>			(diopdowii)
Set	As Default	Rating Fac			÷ •	elete					
		Accuracy Cla	ass: [0.3		🗾 :el 🛛 Sa	ve CT					
		Max. Test Burd	en: 1.00		-						
			Ca	ncel Done							

## Click Save CT

**To add a VT**: From Item drop down select **Vts**. Click **ADD NEW**. A new record will pop up for you to **input your VT information.** 

Devices ITEM S		
vatabase ^ ITEM S	ARCH	
VIS	MATCH EXACT Tags:	Select 🔪 Set fro
Test Results Import NextGen Testing	VT Serial         Ratio         Acc. Class         Burden Class         Model           GE999554934k3         0:120         0.3         W         JVW-5A SUPERBUTETN           S445k4k33344k         0:120         0.3         W         PTG5           Edit VT Info         -         -         -	Manufacturer Last Test Date GE FLEX-CORE
	Serial #: 99944439453	Enter: • Serial # • Manufacturer • Model
	Nameplate Ratio: 4800 ÷ : 120 ÷ Burden Rating: Z v Accuracy Class: 0.3 v	<ul> <li>Add Ratio Information:</li> <li>Nameplate Ratio</li> <li>Burden Rating</li> <li>Accuracy Class</li> </ul>
	Cancel Done Cancel Save VT	Click <mark>Done</mark>

**To add a Meter Station:** From Item drop down select **Meter Stations**. Click **ADD NEW**. A new record will pop up for you to input the appropriate information.

🖵 Devices	ITEM	SEARCH								
🗄 Database 🛛 🔺	Meter Stations									
🗟 Items	ADD NEW	MATCH EXACT Tags: Seferan File								
69 Sequences										
🖹 Test Results	TAGS	Site ID	Meter SN	Utility Serial	Comm Serial	Loc. ID	Site Address			
🗲 Import	+.	TODD	00001396			GRAVITY	CORN FIELD HAY SPRINGS NE 6			
🗒 NextGen Testing	+.	SUPER SAVE	154068717	9001		GROCERY STORE	1200 S. 2ND RATON NM 8774			
	+ 🗸 RMA ×	RMS	154274539	9058	50CEAF73	MIDDLE SCHOOL	3RD STREET RATON NM 8774			
	+.	PROV01	77060706			APARTMENTS	123 500 W PROVO UT 8460			
	+ -	PIZZA	324564268			LITTLE CESERAS	201 CONLEY LA JUNTA CO 810			

**Setting Up a Meter Station.** When setting up a meter station, there are four main components, each represented by a corresponding screen in the system:

- Site Information
- Meter Information
- CT Information
- VT Information

While not all stations will require data for every category, the system is designed to accommodate a complete setup when needed. Simply enter the information relevant to the specific station you are configuring.

	Site Setup Fields. Enter key details to define a site:
Site ID:         0212848128         Loc. ID:         SANFORD         D           Address 1:         715 E. BRODWAY         D	
Address 1: [/15 c. bkob/WAT] Address 2:	Identifiers: Site ID, Location ID, Location Code     (unique 8 user defined, see add on the flu)
Meter Info City: BISMARCK State/Province: ND V Zip Code: 58504	(unique & user-defined, can add on-the-fly)
Country: United States GPS: (46.8058, -100.78 Loc. Code: DELETE EDIT ADD	<ul> <li>Address: Address 1 &amp; 2, City, State, ZIP, Country, GPS Coordinates</li> </ul>
ŝŝŝ         Description:         CLINIC           \$\sigma\$         Noter:         \$\sigma\$	• Additional Details: Description, Notes (if applicable)
Vitid       Notes:         Calibration       12 - The number of months that this site would need to be recalibrated         Frequency       Customer:         TESCO       12 - The number of months that this site would need to be recalibrated	<ul> <li>Settings: Calibration Frequency, Customer, Form (dropdown), Service (dropdown), Default Sequence (dropdown)</li> </ul>
Form: 9 Service: 4-Wire, Wye   Default Sequence: DEFAULT SEQ SS, CL, RwB, FL, LL, PF  CANCEL SAVE STATION	Only relevant fields need to be filled based on your setup. SAVE STAION
📴 Edit Meter Station Info – 🗆 X	
Meter SN: 336913987 Form: 9 Base: 5	Meter Setup Fields. Enter key meter details:
Site Info         Comm Serial:         Kh: 1.800 ÷         Kt: 1.800 ÷	Identification: Meter Serial, Utility Serial, Comm Serial, Manufacturer, Model, Catalog #
Utility Serial: 541311 TA: 2.50 - Class: 20 -	Configuration: Form (dropdown) → Populates     Service Type & Default Sequence*
Model:         CENTRON         Multiplier:         1.00         2           123         Catalog #:         Functionality Code:	• Electrical Specs: Base, Kh, Kt, TA, Class, Voltage,
◆ vermic Bidirectional (KYZ Capable ) Demand Capable (Vectorial Arithmetic	Accuracy Class, Multiplier  Functionality: Functionality Code
	Capabilities (Check boxes): Bidirectional, KYZ
	Capable, Demand Capable, Vectorial Arithmetic
Form: 9  Service: 4-Wire, Wye	*Selections for Service Type & Default Sequence update
Default Sequence: DEFAULT SEQ SS, CL, RwB, FL, LL, PF	dynamically based on the <b>Form</b> chosen. <b>SAVE STATION</b>
CANCEL SAVE STATION	
🙆 Edit Meter Station Info — 🗆 X	CT Cotus Fields Ester CT details:
PHASE A PHASE B PHASE C	CT Setup Fields. Enter CT details:
Ste Info         Serial #: 217138         217139         217140	<ul> <li>Form Selection (dropdown) → Populates</li> </ul>
Manufacturer: SLUMBERGER SLUMBERGER SLUMBERGER	*Service Type & Default Sequence
Model:         R6P         R6P           Nameplate Ratio:         200 ÷         :         5 ÷         200 ÷         :         5 ÷	• Phases (A, B, C) $\rightarrow$ Visible based on form selection
Burden Rating: 0.2   0.2   0.2	For Each Phase (A, B, C):
Rating Factor: $4.00$ $\div$ $4.00$ $\div$ Arouracy Class: $0.6$ $\checkmark$ $0.6$ $\checkmark$	Serial #   Manufacturer   Model   Nameplate Ratio
P         Accuracy Class:         0.6         ▼         0.6         ▼           Max. Test Burden:         0.20         ▼         0.20         ▼         0.20         ▼	Burden Rating   Rating Factor   Accuracy Class
COPY PHASE A TO ALL	Max Test Burden
	*Selections for Service Type, Default Sequence, and Phases update dynamically based on the Form chosen.
Form: 9  Service: 4-Wire, Wye	·····
Default Sequence: DEFAULT SEQ SS, CL, RwB, FL, LL, PF	SAVE STATION
CANCEL SAVE STATION	
Edit Meter Station Info - X	VT Setup Fields. Enter VT Details:
PHASE A         PHASE B         PHASE C           Serial #:         9993323122         9993323983	<ul> <li>Form Selection (dropdown) → Populates</li> </ul>
Sternio         Serial #:         9993323111         9993323122         9993323983           Manufacturer:         GE Grid Solutions         (GE Grid Solutions)         (GE Grid Solutions)	*Service Type & Default Sequence
Meterinto Model: JVW-5A JVW-5A JVW-5A	• Phases (A, B, C) $\rightarrow$ Visible based on form selection
Nameplate Ratio: 12470 ÷ : 120 ÷ 12470 ÷ : 120 ÷ 12470 ÷ : 120 ÷	■ Phases (A, B, C) → Visible based on form selection For Each Phase (A, B, C):
Burden Rating: W V V V Accuracy Class: 0.3 V 0.3 V 0.3 V	Serial #   Manufacturer   Model   Nameplate Ratio Burden Rating   Accuracy Class
	Click <b>Copy Phase A to All</b> → Streamlines data entry
	*Selections for Service Type, Default Sequence, and Phases update dynamically based on the Form chosen.
Form: 9 Service: 4-Wire, Wye	,
CANCEL SAVE STATION	SAVE STATION
CARCEL	

**To add an EVSE Charger**: From Item drop down select **EVSE Chargers.** Click **ADD NEW**. A new record will pop up for you to **input your EVSE Charger information.** 

TESCO Device Manager - v2.1.0r											- 0
File Edit Management Help											
Devices	ITEM	SE	EARCH								
🗧 Database 🖍	EVSE Chargers	-									
🛃 Items	ADD NEW		MATCH EXACT	Tags:						Select	Set from Fil
Sequences	8										^
Test Results	TAGS	Charge	er Serial	Model	Manufacturer	Customer	Number of Ports	Latest Test Date	Loc. ID		Site Add
E Import	+ •	CP4000	99999XP	CT4000	ChargePoint	Burlington TWP	2		<b>BTWP Municipal Building</b>	851 Old York Road	Burlingtor
🗊 NextGen Testing 🗸	+ 🚽 ISO Model 🗙	91929394	9596979899	Series 7	Blink Charging	Bristol TWP	2		BBTWP	250 Pond Street	Bristol PA

**Setting Up EVSE Chargers.** When setting up a charger, there are three main components, each represented by a corresponding screen in the system:

- Charger Information
- Ports Information
- Site Information

😢 Edit EVSE C	harger Info	– D X	Charger Info Setup
Arts info	Serial: Model: Manufacturer: Gfci Rating: Description:	919293949596979899 Series 7 Blink Charging 20.00 ÷ mA	<ul> <li>Charger Info Setup:</li> <li>Identification: Serial Number, Model Number, Manufacturer</li> <li>Specifications: Gfci Rating (mA)</li> <li>Description: Open text field</li> <li>Default Sequence (optional). Choose from: <ul> <li>Default SEQ FL, LL - AC Acceptance</li> <li>Default SEQ FL, LL - AC Maintenance</li> <li>Default SEQ FL, LL - DC Acceptance</li> <li>Default SEQ FL, LL - DC Maintenance</li> </ul> </li> <li>SAVE CHARGER</li> </ul>
😫 Edit EVSE CI	harger Info	– D X	
Charger Info		ADD PORT	Port(s) Info Setup: Click Add Port <ul> <li>Port Name: Can be user defined, or system default</li> </ul>
$\odot$	CCS1 AC	PORT NAME PORT1	will name Port 1, Port 2, etc.
Ports info		PORTI Second Sec	Port Type:
Site Info		PORT NAME: PORT2 PORT TYPE: CCS1_DC	<ul> <li>CCS1_AC</li> <li>CCS1_DC</li> <li>Tesla_AC</li> <li>Tesla_DC</li> <li>CHAdeMO</li> </ul>
		CHAdeMO CANCEL SAVE CHARGER	SAVE CHARGER
Edit EVSE CH	narger Info	×	
Charger		er: Bristol TWP	Site Info Setup:
$\overline{\mathbf{x}}$	Site Nam	e: BBTWP D	Customer Name
Ports info		1: 250 Pond Street	Site Name
<u>F</u>	Address		Address/City/State/Zip/Country
Site Info	G	ty: Bristol State/ PA Vip Code: 19007	GPS: Coordinates
		y: United States	• Location Code: User defined; can add on the fly
	Location Coo		Description: Open Form
	Descriptio	n: (BB Township Municipal Building	SAVE CHARGER
		CANCEL SAVE CHARGER	

2. Sequences: The Sequence Section allows users to manage test sequences for different equipment types. These sequences define structured test procedures to ensure accurate and reliable metering results.

**Devices/Equipment Using Sequences:** 

- Meter Test Boards Series Parallel
- Meter Test Boards Three Phase
- Meter Site Analyzer
- EVSE Tester

Users can create, edit, and manage sequence records to match testing requirements for various metering and EVSE applications.

R TESCO Device Manager - v2.1.0r				
File Edit Management Help				
Devices DEVICE				SEARC
Database     A     Meter Test Boards - Three Phase				
🕄 Items 🛛 🔤 💶	MATCH EXACT			
Meter Test Boards - Series Parallel     Meter Test Boards - Three Phase				
Test Results Meter Site Analyzer		# Of Tests	Service	Tolerance
EImport	L DRIVE - 3P	5	3-Wire, 1 Ph	0.5
DEFAULT SEQ FL, LL, PF, RFL, RLL	ACCURACY - 3P	5	3-Wire, 1 Ph	0.5
DEFAULT SEQ FL, LL, PF DR	IVE - 3P	3	Universal	0.5
DEFAULT SEQ FL, LL, PF ACCU	IRACY - 3P	3	Universal	0.5
Na End Management Help  Dev/CE  Database  Meter Test Boards - Three Plase  Meter Test Boards - Three Plase  Match ExACT	Sequence Bui • Se	ilder: quence Name.		
Image: Sequence Name       # Of Tests       Service Toleram         Entratus       Entratus       Sequence Name       # Of Tests       Service Toleram         Entratus       Entratus       Sequence Name       # Of Tests       Service Toleram         Image: Service Toleram       Entratus       Sequence Name       # Of Tests       Service Toleram         Image: Service Toleram       Entratus       Sequence Name       # Of Tests       Service Toleram         Image: Service Toleram       Entratus       Image: Service Toleram       Image: Service Toleram       Image: Service Toleram         Image: Service Toleram       Entratus       Image: Service Toleram       Image: Service Toleram       Image: Service Toleram         Sequence Name       Entratus       Image: Service Toleram       Image: Service Toleram       Image: Service Toleram         Sequence Name       Sequence Name       Image: Service Toleram       Image: Service Toleram       Image: Service Toleram         Image: Sequence Name       Toleram       Toleram       Toleram       Image: Service Toleram       Image: Service Toleram         Image: Sequence Name       Toleram       Toleram       Toleram       Image: Service Toleram       Image: Service Toleram         Image: Sequence Name       Toleram       Toleram       Toleram	Universal   3-Wire Ne 4-Wire N To Se	etwork   4-Wire V Wye   4-Wire De Ilerance %. Pas quence Notes. DEX Tag  Desc O TAG - 1	Wire 1 Ph   3-Wire Vye (2V21)   4-Wire (3V21)   4-Wire s/Fail Requirem Free form entr <b>ription</b> Name/Type otion – Brief expla	re (2V3I) 2 Delta 9 9 9

#### 3. Test Results

Users can view and export test results for:

- Meters
- Meter Stations
- EVSE Chargers

ITEM		SEARCH							
^ Meters	•								
Meters		MATCH EXAC	т	PE	REFORMED TODAY	M: 1/1/2000		•] TO:	3/17/2025
es Meter Stations									(,,
EVSE Charger	S Parts	Performed	Performed By	Service	Test Device	Tolerance	Average Error	Pass / Fail	
T-1904	2021-10-	-26 16:00:55.014	Tesco	3-Wire, 1 Ph	CAT. 6330 - 61326-01-0009	0.5 %	-0.018 %	Passed	
T-1904	2021-10-	-26 16:45:49.342	Tesco	3-Wire, 1 Ph	CAT. 6330 - 61326-01-0009	0.5 %	-0.004 %	Passed •	
esting ¥ T-1904	2021-10-	-26 17:26:30.600	Tesco	3-Wire, 1 Ph	CAT. 6330 - 61326-01-0009	0.5 %	-0.01 %	Passed	
9061	2021-10-	-26 11:21:16.514	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	-0.06 %	Passed	
9061	2021-10-	-26 11:36:26.794	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	0.0 %	Passed	
9061	2021-10-	-26 11:40:00.416	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	0.102 %	Passed	
77060706	2021-06-	-29 16:44:07.287	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	0.064 %	Passed	
61238	2021-08-	-27 14:02:02.904	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	-0.022 %	Passed	
502012006	2025-01-	-30 15:01:40.790	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	-6.409 %	Failed	
502012006	2025-01-	-30 15:05:42.089	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	-0.008 %	Passed	
502012006	2025-01-	-30 15:12:09.844	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	-0.009 %	Passed	
502012006	2025-01-	-30 15:16:24.301	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	-14.241 %	Failed	
502012006	2025-01-	-30 15:23:08.954	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	0.0 %	Passed	
502012006	2025-01-	-30 15:31:43.905	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	0.0 %	Passed	
502012006	2025-01-	-30 15:39:03.248	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	0.0 %	Passed	
502012006	2025-01-	-30 15:54:04.131	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	0.0 %	Passed	
502012006	2025-01-	-30 16:04:31.747	TESCO	SP 4-Wire, Wye	DTS-2990 - 00000279	0.5 %	0.0 %	Passed	
336913987	2021-09-	-16 14:38:06.854	Tesco	4-Wire, Wye	CAT. 6330 - 61326-01-0009	0.5 %	-0.045 %	Passed	
324564268	2021-10-	-27 11:51:12.101	Tesco	4-Wire, Wye	CAT, 6330 - 61326-01-0009	0.5 %	-0.12 %	Passed	

Easily Identify test failures by the red font; double click on the device you would like more information on and a new pop-up screen will open and show all the details for that record.

From here you have three choices: **EXPORT TO PDF, EXPORT TO CSV, EXPORT TO DAT** (data file) – will be saved automatically in the default path that is set in the system (refer to section 11 for complete export instructions).

fiew	Sequence Result 2025-0	1-30 14:58:20.369						ЕХРО	1 2 RT TO PDF EXPORT TO CS	- 3 <sup>0</sup>
	Meter SN	Utility Serial	Comm Serial	Meter Form	Meter Kh/Kt	Meter TA	Meter Class	Meter Voltage	Meter Acc. Class	Meter Func. C
2	502012006			95	1.800 / 1.800	2.50	20.00	120.00	1.00	
3										
	Service	Sequence Name	Sequence Tolerance	Average Error	Device Model	Device Serial	Device Software Rev	Device Calibration Date	Session Started	Session End
5	5P 4-Wire Wye	DEFAULT SEQ FL LL PF ACCURACY - SP	0.5%	-6.409%	DTS-2990	00000279	3.1.7r	2023-10-27 05:54:52.800	2025-01-30 14:58:20.369	2025-01-30 15:01
7	TAG	Result Index	Pass / Fail	Registration	% Error	Meter Measured	Pulses	Tolerance	Weight	Error Statu
3	FL ACC	1-1	Failed	89.321	-10.679 %	9.000	5	0.500	3.000	
)	LL ACC	2-1	Passed	99.988	-0.012 %	1.800	1	0.500	1.000	
0	PF ACC	3-1	Passed	100.004	0.004 %	5,400	3	0.500	1.000	

## **EXPORT TO PDF**



## EXPORT TO CSV

#### 4. Import (Refer to Section 12 for complete import instructions).

End users can import a CSV file to create item records for:

- Meters
- Meter Stations
- EVSE Chargers

To ensure accurate data mapping, the system can generate a CSV template to use, or you can choose to select a file. \*Be sure that the template headers in your file match those of the CSV Template.

Use drop-down menu to pick item types to import, **click GENERATE CSV TEMPLATE** – a pop up will appear identifying headers for import. **Click Create Template**. Another popup will appear for end-user to choose path for file to be saved.

			ACTIONS		
Database ^ EVSE Chargers -				S	ELECT FILE HELP
Items Meters			GENERATE CSV TEMPLA	SAVE IMPORTED ITE	MS TO DATABASE
Sequences					
Test Results EVSE Chargers	Loc. ID Site A	dress Site Descrip	tion Site Longitude	Site Latitude	Loc. Coc
Import					
meterClass, meterTA, meterAccuracy	erBase, meterVoltage, meterKh, meterKt, Class, meterManufacturer, meterModel, meterComSerial, meterFunctionalityCode, erIsBidirectional,	Organice  New folder Screenshots DMA-Reports	สร้องนายระ 1/30/35 es 1/30/35 mm 4/10/35 gent 4/10/35 ers 1/17/32 4/10/35		Cobericalitanger p = • • Sore

#### 4.2.3 **NextGen Testing**

NextGen Testing allows users to control their meter test board(s) remotely. Meter shops can remotely trigger meter diagnostics, verify meter accuracy, check demand and KYZ pulse functionality and detect errors or tampering. Test choices include Bulk Test and Manual Test.

Bulk test allows you to test multiple devices/test boards simultaneously if they are connected to the network. The Manual testing is for just one device.

In the **Bulk Test** section, the end-user can set/edit meter parameters as well as add/remove sockets (devices to be tested).

File Edit Management Help		
🔤 Devices		METER PARAMETERS
🗄 Database 👻 Form: 2 Base	e: S	FOR SERIES PARALLEL BOARDS
Bi NextGen Testing Kh: 7.200 Ki	t: 7.200	Service: 3-Wire, Residential
Bulk Test TA: 30.00 Class	5: 200	Sequence: DEFAULT SEQ FL, LL, PF ACCURACY - SP
Manual Test Voltage: 240.00 Acc. Class	s: 1.0	FOR THREE PHASE BOARDS
Test Reason		Service: 3-Wire, 1 Ph
		Sequence: DEFAULT SEQ FL, LL, PF ACCURACY - 3P
EDIT METER PAR	AMETERS	
		SOCKET SETUP
HELP ADD/REMOVE SOC	KETS	🛃 Add Devices — 🗆 🗙
		Select devices to include:
		Search:
		DESELECT ALL
		Device Serial: 00000666
		IP Adress: 10.20.11.106
		Device: MTM Device Serial: DEFAULT
		IP Adress: 10.20.11.108
	I	Device: MQM3
View/Edit Meter Parameters	- 0	X C
Manufacturer: ITRON   Form: 2	Base: S	View/Edit Meter Parameters
Model: Centron Kh: 7.200 ÷	Kt: 7.20	00 🐳 📔
Catalog #: Cen110-25 TA: 30.00	Class: 200	Unit Details: Manufacturer, Model, Cat#
Voltage: 240.00 🔻 Ad	cc. Class 1.0	Form   Base
Functionality Code: M	ultiplier: 1	Kh   Kt   TA   Class   Voltage   Acc. Class
KYZ Capable Bidirectional Demand Capable	Vectorial Arithmetic	<ul> <li>Functionality Code. Open Form</li> </ul>
	Anumeuc	Multiplier. Use up down arrow to select.
Notes :		Meter Function:
Service: [3-Wire, Residentia]		KYZ Capable   Bidirectional
	EDIT	Demand Capable   Vertical Arithmetic
		• Notes. Free form entry
Three Phase		Series Parallel. Service/Sequence
Service: 3-Wire, 1 Ph		Three Phase. Service/Sequence
Sequence: DEFAULT SEQ FL, LL, PF ACCURACY - 3P	EDIT	IEW CONFIRM
	CANCEL CON	NFIRM

Bulk Testing. During the bulk testing process, end-users can:

- Start Test
- View Status
- Click Voltage On/Off
- Click Pulse Align/Stop P.A.

File Edit Management Help		
Devices	METER PARAMETERS	
😫 Database 🗸 🗸	Form: 2 Base: 5 FOR SERIES PARALLEL BOARDS	
NextGen Testing		
Bulk Test	Kh:         7.200         Kt:         7.200         Service:         3-Wire, Residential	
	TA: 30.00 Class: 200 Sequence: DEFAULT SEQ FI, IL, PF, RFI, RLL ACCURACY - SP	
이음 Manual Test	Voltage: 240.00 Acc. Class: 1.0 FOR THREE PHASE BOARDS	
	Test Reason	
	EDIT METER PARAMETERS Sequence: DEFAULT SEQ R., LL, PF ACCURACY - 3P	
	SOCKET SETUP	
	HEP ADD/REMOVE SOCKETS	
	MTM-00000666 (Three Phase) MOM3-DEFAULT (Three Phase)	
	Meter SN:	
	Meter SN:	
	Commissing and the second seco	
	Notes : Notes	
	IDLE DRIVE ON MODE	
	Vallage ON	
	Load ON	
	START VIEW VOLTAGE ON START VIEW VOLTAGE OFF	
	TEST STATUS PULSE ALIGN TEST STATUS PULSE ALIGN	
The Edit Manag		
Devices	SEQUENCE DRIVE/UNIT LESTING	
🗄 Database	NEXTGAN DEVICE     METER INFO	
📳 NextGen Ti	string ^ SFIECT DEVICE EDIT Meter Sh:	
Si Burk Te		
CC Manual	(ct (finalitie) (k-2.00 - (k-2.00 -	
	Contract Table Tab	
	Acc. Class: LD Voltage: 240 V	
	SEQUENCE PARAMETERS	
	VOLTAGE ON PULSE ALIGN	
	ACTIVE TEST BIFO	
	TAC: STATUS STATUS WAYS	
	PRAAK	
	SEQUENCE RESULTS	
	Textury Load Text Discribed Distance Decom	

<u>Note</u>: Click "VIEW STATUS" will provide information specific to that meter. You will notice that manual test is highlighted – that is a result of viewing **one meters'** information. You are still in **Bulk Testing**. Click on **Bulk Test** once again and it will bring you back to your Bulk Testing Screen.

Manual Testing. During manual testing select the device you wish to test.

With a Manual test you will find two different tabs:

- Sequence: certify meters to precise specifications.
- Drive/Unit Testing: simulate field conditions.

1. **Sequence: This** tab is used for **manual test step control**—essentially walking through a test plan one step at a time, typically with the help of a reference standard.

## Use Case in a Meter Shop:

- When a technician wants to **manually validate each element** of the meter test process (e.g., different loads, power factors, or service types).
- Ideal for **custom tests**, **troubleshooting**, or when **fine control** is needed over the test environment.
- Each step in the sequence might change things like current/voltage levels or timing, and the operator can choose to advance or repeat steps.

## Why It Matters:

- Gives full control for diagnostic or non-standard tests.
- Helpful for training new technicians, so they can see the result of each test step.
- Useful when testing complex meters that might not fit into a default auto test plan.

End-users select a device; attributes associated with that meter are populated automatically. Click **EDIT** if any of the information needs to change because of configuration differences, test procedure adjustments, field conditions or regulatory/compliance updates. Once sequence is selected click **START SEQUENCE** to



Protocols have been set in place to notify end-users of any issues that need to be addressed. In this example you will see a flashing message "**unit needs input**" notifying you that attention is required and that there is a possible issue detected. Click on the **i** to find out what the issue is. In this case the system **Detected a short on VC**, informing you that perhaps you will need to verify the wiring, check for damage, and troubleshoot as needed. Click **OK** to close the window.

NOTE: Once the issue is recognized by clicking **OK**, the flashing message will disappear.

### 2. Drive/Unit Testing

Drive/Unit testing is central to **manual control testing** in a meter shop and gives technicians real-time control over the power applied to the meter.

Let's break the screen down into five sections (see image below – section 5 GRAPHS):

#### Section 1: NEXTGEN DEVICE

Select **Device** (this list displays all devices/test boards that are connected to network).

#### Note:

The **Meter Information** section is dynamic and will automatically adjust based on the type of device or test board selected. For example, selecting a Three Phase Test Board, Three Phase Qualification Board, or Series Parallel Qualification Board will display different configuration fields specific to the capabilities and requirements of that hardware. Ensure that the correct test board is selected prior to entering meter data, as this directly affects the available input options and test parameters.

### Section 2: METER INFORMATION

If applicable, Click **EDIT** if you need to change any of the following parameters:

Meter SN (Serial Number): Internal tracking of the specific meter being tested.

**Comm Serial / Utility Serial**: Optional fields for **communication module serial number** or a **utility-assigned identifie**r.

**Manufacturer**: Dropdown to select the manufacturer (e.g., Landis+Gyr, Itron, etc.).

Model: Specific model number of the meter.

Catalog #: Internal reference or part number for utility inventory tracking.

**Meter Notes**: Free text field for special conditions, known issues, or testing context.

Form: Indicates the meter wiring configuration (e.g., 9S for 3-phase, 4-wire).

**Base**: Typically either *S* (socket-based) or *A* (bottom-connected).

**Kh**: Watt-hour constant; the energy represented by one pulse.

Kt: Test constant; used by the test system to calculate expected pulses.

TA: Test Amps; usually matches CT rating or nominal current for test setup.

**Class**: Meter class, representing load capacity (e.g., Class 20 = 20 amps).

Voltage: Nominal service voltage the meter is rated for.

Acc. Class: Accuracy class, such as 0.5 or 1.0 – defines the maximum allowable error under test.

**Multiplier**: External multiplier applied when actual load exceeds meter capacity (common in CT-rated meters).

**Functionality Code**: Optional entry to capture special features or firmware revisions.

 $\Box$  Check box for:

**Bidirectional**: Indicates the meter can measure both import and export energy (used for net metering or solar applications).

**KYZ Capable**: The meter has KYZ outputs—dry contact pulse outputs for load profiling or SCADA integration.

**Demand Capable**: Meter supports demand measurements (e.g., kW demand tracking).

**Vectorial Arithmetic**: Meter uses vector math (phasors) instead of arithmetic summation—important for polyphase power accuracy.

Click continue to save changes.

#### Section 3: Drive Section

#### RMS / PHASE / WAVEFORM Settings:

- VA / VB / VC: Voltage each phase
- IA / IB / IC: Current
- Phase Angles: Represents the timing offset of each phase.
- Waveform: The availability of specific waveform options depends on the selected device/test board and the configured service type (e.g., 4-Wire Wye, Delta, Series-Parallel, etc.). Not all waveforms are available for every configuration.

Waveform	Description
SINUSOIDAL	Standard clean sine wave; used in most accuracy tests
Quad_V.ansi/Quad_I.ansi	Quadrature waveforms (90° phase shift) to simulate leading/lagging loads
Pulse_V.ansi/Pulse_I.ansi	Pulsed waveform to simulate rapidly switching or bursty loads
Peaked_V.ansi/Peaked_I.ansi	Peaked or high crest factor waveform; used for testing non-linear load effects
MZCV / MZCC (V/I)	Custom waveforms used for meter qualification or standard compliance testing
90_deg_V.ansi / 90_deg_I.ansi	Extreme 90-degree phase shift to test reactive power scenarios
3rd Harmonic	Voltage waveform with injected 3rd harmonic distortion

#### Section 4: TEST PARAMETERS

The Test Parameters section is dynamically configured based on the selected device or test board. Not all test boards support the same range of test types, and available fields may change accordingly. For example, a three-phase Qualification Board may only allow one test type and duration while a three-phase Test Board will have a choice of test type, pulses, warm up, tolerance, iterations and measurement type.

Test Type	Purpose
Meter Accuracy	Verifies meter accuracy against a reference standard by comparing pulses to expected values.
Meter Drive	Tests the mechanical drive of the meter (used for electro-mechanical units).
Meter Time Run	Measures the time it takes for a specific number of pulses—used in legacy methods.
Meter Timed Register	Times the register's operation over a known load condition.
Meter Energy Delivery	Confirms the meter is recording energy flow correctly (especially in bi- directional meters).
Meter Demand	Evaluates the meter's ability to calculate and report demand over time.

Select: Test Type. (Some) Test Types Available

### Click: Start Test

#### Section 5: GRAPHS

The graphs section provides a real-time visual representation of the voltage and current waveforms applied to the meter under test.



## **5 SETTING UP PREFERENCES IN TDM**

The *Preferences* section of TDM allows users to tailor the software environment to meet their specific needs and workflow requirements. From selecting the devices you'll be working with—such as test boards, site analyzers, or EVSE testers—to customize the visual elements of charts, diagrams, and graphs, this area provides flexibility to align TDM with your operational standards.

Here, users can define critical settings such as backup locations for the TDM database, default directories for saving reports, and even the structure and nomenclature of reporting fields. Customization options also extend to reporting capabilities, ensuring that the data output from TDM matches the format and style preferred by your organization.

By configuring these preferences, users can enhance efficiency, maintain consistency, and create a more intuitive and user-friendly experience within the TDM platform.

Preferences		- 0
General Database Re	port User Interface	Others
	Supported Device	es
Meter Test Boards	C Kno	pp Comparators
Meter Site Analyzer	_	E Testers
		2 100000
	Colors	
Phone 1		Diana C
Phase A	Phase B	Phase C
Phase A		Phase C
	Phase B	

## 5.1 Setting Supported Devices

On the General Tab you choose two settings: supported devices & color scheme for reporting purposes.

The first setting allows users to select the supported device types they plan to use within TDM—such as Meter Test Boards, Meter Site Analyzers, or Knopp Comparators. Enabling a device type prompts the system to recognize and communicate with that equipment, unlocking all relevant features for testing and data collection. Disabling a device type will hide and deactivate any associated tools or functions to streamline the interface.

## 5.2 Setting Colors for Charts/Diagrams/Graphs

Preferences							1
General Database F	Report	User Interface	Others				
		Supported D	evices				
		_					
Meter Test Boards			Knopp Com	parators			
Meter Site Analyzer	rs		EVSE Tester	'S			
L							
		Colors					
Phase A		Colors Phase B			Phase C		
Phase A				Blue	Phase C	•	)
Red Red	•	Phase B		Blue	Phase C	·	)
Red Red Blue	<b>-</b>	Phase B		Blue	Phase C	•	)
Red Red	-	Phase B		Blue	Phase C	•	)
Red Red Blue Black Yellow Green	•	Phase B		Blue	Phase C	•	)
Red Red Blue Black Yellow Green Purple	•	Phase B		Blue	Phase C	 •	)
Red Red Blue Black Yellow Green	-	Phase B		Blue	Phase C	-	)

The second setting customizes the colors used in charts and diagrams, including Phasor diagrams and waveform setup previews. This allows you to create visually distinct and easy-to-read representations of your data, helping you quickly analyze patterns and insights.

## 5.3 Backing up TDM's Database

Preferences	-		×
General Database Report User Interface Others			_
MAKE DATABASE BACKUP			
Network Shared Database File Location			
Note: This is a network database in which all TDM instances can point to and share data with. Use the Sync Network. Shared Database option in General dropdown to sync with this database.	BRO	OWSE	
Table Settings			
Maximum number of rows per page: 20			
Results			
Include Results from deleted Items: 🔘 Yes 🧿 No			
CAN	CEL	SAV	E

This option allows users to create a secure backup copy of TDM's database, helping to preserve data integrity and prevent loss in the event of system failure or unexpected issues.
## 5.4 Creating and Syncing with a database on a Network folder

🙋 Preferences			×
General Database Report User Interface Others			_
MAKE DATABASE BACKUP			
Network Shared Database File Location			
	BRO	OWSE	
Note: This is a network database in which all TDM instances can point to and share data with. Use the Sync Network Shared Database option in General topdown to sync with this database.			
Table Settings			
Maximum number of rows per page: 20			
Results			
Include Results from deleted Items: 🔘 Yes ( No			
CAN	CEL	SAV	

**Network Shared Database File Location** allows users to specify the path to a shared folder on a network drive, enabling TDM to access and store its database in a centralized location. If a database does not already exist at the specified path, TDM will automatically create one.

This feature is designed to support collaboration by allowing multiple TDM users to connect to the same network database. When all instances of TDM are pointed to this shared location, users can maintain a consistent and up-to-date dataset across systems.

To enable this functionality, the selected path must be located on a shared network drive accessible to all intended users. Once configured, the option to **Sync with Network Drive Database** becomes available under the *File* menu on the toolbar. This allows users to share their local data by pushing it to the shared network database—ideal for updating the centralized repository with new data pulled from field devices.

Note: Use the *Sync Network Shared Database* option in the *General* dropdown to ensure your local TDM instance stays in sync with the shared network database.

## 5.5 Changing the number of rows shown at a time on the tables in TDM



This setting allows users to define the number of rows displayed in TDM tables, primarily affecting tables on the Database page and sync popup tables.

## 5.6 Showing results from deleted Items

Preferences	- 🗆 X
General Database Report User Interface Others	
MAKE DATABASE BACKUP	
Network Shared Database File Location	۱
Note: This is a network database in which all TDM instance can point to and share data with. Use the Sync Network. Shared Database option in General dropdown to sync with this database.	-
Table Settings	
Maximum number of rows per page: 20	
Results	
Include Results from deleted Items: 🔵 Yes 💿 No	
CA	NCEL

This setting allows users to include or exclude test results associated with deleted items—such as Meters, Meter Stations, or EVSE Chargers—from the database results table. When set to **Yes**, results from previously deleted items (including Meter Sequence Results, Meter Station Sequence Results, and EVSE Sequence Results) will continue to appear in the results display. When set to **No**, these results will be hidden from view.

## 5.7 Setting Report preferences

Preferences				-		>
General Database Rep	ort User Inte	rface Othe	rs			
Q/	) Error vs Re	gistration				
🔘 Use % Error	C	) Use Regis	stration			
	Use Latest R	evisions				
🔘 Use Latest	0	Use Revis	ion Dur	ing T	est	
	Export P	ath				
C:/Users/mark.cerna/Doc	uments/TDM-F	leports/		BRO	WSE	
	Meter Test	Report				
🔲 Use TMA Report F	ormat					
Note: Logo will be scal	ed to 100 pixe	ls tall for prin	ting on t	ne rep	oort	
Cu	istom Logo fo	or Reports				
		1				
REMOVE CUSTOM	LOGO	ROWSE FO	R CUST	DM L	OGO	
Position: Logo T	op Left	•				
			CAN	EL	SAV	E

The **Report** tab allows users to tailor the appearance and content of test reports generated by TDM. These settings control formatting, data references, export preferences, and branding. **Please note changes made in this tab will only apply to reports generated after the changes are saved.** 

## 5.7.1 % Error vs Registration

n During Test							
n During Test							
BROWSE							
BROWSE							
Use TMA Report Format							
ig on the report							
CUSTOM LOGO							

This setting determines how measurement results are displayed in the final calibration report. Users can choose between two display formats:

- Use % Error: This is the default and most commonly used format. It displays the measurement result as a percentage error, calculated using the difference between the reference value and the DUT (Device Under Test) value. This format is recommended for most testing scenarios and aligns with standard accuracy reporting methods used in compliance testing.
- Use Registration: This option displays the DUT's actual registered value (such as pulse count or energy reading) instead of calculating a percentage error. It is typically used when comparing energy registration or pulse-based devices and may be required in specific testing protocols.

**Recommendation**: Unless your calibration process specifically requires registration values, it is recommended to use **% Error** for consistency, traceability, and reporting clarity.

-	% Error vs Registration	
Use % Error	🔘 Use Registra	tion
	Use Latest Revisions	
🔵 Use Latest	O Use Revision	During Test
	Export Path	
C:/Users/B Jones/meter	shop/reportS	BROW
	Meter Test Report	
Use TMA Report F	ormat	
Note: Logo will be so	caled to 100 pixels tall for printin	a on the report
	Custom Logo for Reports	
	No Image Selected	
REMOVE CUSTON	I LOGO BROWSE FOR	CUSTOM LOCK

## 5.7.2 Use Latest Revisions

By default, TDM will use the Revision during test. However, users may discover that they must make some corrections on the item records, i.e. Meter's manufacturer is incorrect. By selecting "Use Latest" after making the changes, TDM will use the updated information in exporting the reports.

## 5.7.3 Export Path



The Export Path field specifies the folder location where all calibration reports will be saved. Users can modify this path by clicking the "Browse" button and selecting a preferred directory.

## 5.7.4 Meter Test Report

references		- 0
General Database Repo	rt User Interface	Others
%	Error vs Registra	tion
Use % Error	🔘 Use	Registration
	Use Latest Revisio	
Use Latest	💿 Use	Revision During Test
	Export Path	
C:/Users/Pamela.Kenwood	/Documents/TDM-Re	eports/ BROWSE
	Meter Test Repo	rt
Use TMA Report For	mat	
Note: Logo will be scal	ed to 100 pixels tall 1	for printing on the report
Cu	stom Logo for Rep	ports
	No Impao Colostos	4
	No Image Selected	1
REMOVE CUSTOM L	OGO BROV	VSE FOR CUSTOM LOGO

By default, TDM generates calibration reports using its own standardized format. If preferred, users can select the **"Use TMA Report Format"** option to generate reports in the legacy style used by TESCO's previous software, TMA. This option may be helpful for end users who are familiar with that format or who require consistency with historical documentation.

Note: The TMA format is optional and primarily provided for backward compatibility.

## 5.7.5 Custom Logo for Reports

Preferences				-		>
General Database Report	User Inter	face O	thers			
%	Error vs Reg	istration				ī
Use % Error	0	Use Reg	istration			1
U	se Latest Re	visions				i
Use Latest	0	Use Rev	ision Duri	ng Test		1
	Export Pa	ith				í
C:/Users/B Jones/meter shop				BRO	WSE	1
	Meter Test R	enort				1
Use TMA Report Form		Copore				1
Note: Logo will be scaled	to 100 pixels	tall for r	ripting on t	ha rapor	+	
	tom Logo roi			петероі		
						1
	No Image Sel	ected				
REMOVE CUSTOM LO	GO	ROWSE	FOR CUST	OM LO	GO	
			<b>C</b> 4	NCEL	SAVI	
			C.	UNCEL)	JAVI	E

TDM allows users to personalize their calibration reports by adding a company logo. To upload a logo, click **"Browse for Custom Logo"** and select an image file in one of the supported formats: .jpg, .jpeg, .bmp, or .png. The selected image will be scaled to a height of 100 pixels for optimal placement on the report.

Note: You can remove or update the logo at any time using the "Remove Custom Logo" or "Browse for Custom Logo" options.

## 5.8 Changing the placement order of Meter Serial fields

Preference	5				_		×
General	Database	Report	User Interface	Others			
		eter's Se	rial Number Fi	elds' Order			
							1
						-	õ
				C	CANCEL	SAV	E
	General 1 Mete 2 Com	Me	General Database Report Meter's Se 1 Meter SN 2 Comm Serial	General Database Report User Interface Meter's Serial Number Fi 1 Meter SN 2 Comm Serial	General         Database         Report         User Interface         Others           Meter's Serial         Number Fields' Order         1         Meter SN         2         2         Comm Serial         3         3         Utility Serial         3         1	General         Database         Report         User Interface         Others           I         Meter's Serial Number Fields' Order         1	General Database Report User Interface Others Meter's Serial Number Fields' Order 1 [Meter SN  2 [Comm Serial

By default, the meter serial fields are arranged in the following order: **Meter Serial Number, Comm Serial**, and then **Utility Serial**. Users may modify this sequence as needed to align with their organizational preferences or reporting standards.

## 5.9 Setting the default DAT file export location

See Preferences	– 🗆 X	😫 Preferences — 🗆 🗆
General Database Report User Interface Others		General Database Report User Interface Others
DAT File Export Location/Division		DAT File Export Location/Division
P:\bham	BROWSE	P:/Meter Shop/
		P:\bham
Nomenclature		P:\eastern P:\mobile
Meter Serial Meter SN		P:\southeast
Utility Serial (Utility Serial		P:\southern P:\Western
Comm Serial		Comm Serial Comm Serial
Station ID Site ID		Station ID Site ID
Site Name Loc. ID		Site Name Loc. ID
Location Code Loc. Code		Location Code Loc. Code
AEP Codes Autofill		AEP Codes Autofill
O Han Ann Carlan		
Use Aep Codes		Use Aep Codes
C	ANCEL SAVE	CANCEL

When TDM exports DAT files, it references a predefined export path. The following preset locations are currently available:

- 1. P:/bham
- 2. P:/eastern
- 3. P:/mobile
- 4. P:/southeast
- 5. P:/southern
- 6. P:/Western

Alternatively, users may define a custom export path by clicking **"Browse"** and selecting a preferred directory.

Note: Ensure the selected path is accessible to all users who will need to retrieve or upload DAT files.

## 5.10 Changing the displayed text for certain labels

👺 Preferences	_		×			
General Database Report User Interface Others			_			
DAT File Export Location/Division						
P:\bham	BRO	DWSE				
Nomenclature						
Meter Serial Meter SN						
Utility Serial Utility Serial						
Comm Serial Comm Serial						
Station ID Site ID						
Site Name Loc. ID						
Location Code Loc. Code						
AEP Codes Autofill						
🔘 Use Aep Codes						
			-1			
		_				
	CANCEL	SAV	Έ			

TDM allows users to customize the displayed text for specific labels to better match internal naming conventions. The following labels can be renamed:

- 1. Meter SN
- 2. Utility Serial
- 3. Comm Serial
- 4. Site ID
- 5. Loc. ID
- 6. Loc. Code

**Note**: Updating label text affects only how the fields are displayed within the application and reports. It does not alter the underlying database fields or stored data.

## 5.11 Autofill based on AEP Codes

General	Database	Report	User Interface	Others		
	[	DAT File B	Export Locatio	n/Division		
P:\bha	m				BRO	DWSE
			Nomenclature			
Mete	r Serial Met	er SN				
Utilit	y Serial Util	ity Serial				
Comn	n Serial (Cor	nm Serial				
Sta	tion ID (Site	e ID				
Site	e Name Loc	. ID				
Locatio	n Code Loc	. Code				
		AE	P Codes Auto	fill		
OU	se Aep Coo	les				

TDM offers an optional experimental feature that can automatically populate meter information when entering a meter's serial number. As the serial number is typed, the system attempts to match the initial characters with a known **AEP code**, then fills in the corresponding meter details.

This feature uses the AEP Code–Meter Information mapping provided by: <a href="https://www.aep.com/b2b/meterbarcodes/">https://www.aep.com/b2b/meterbarcodes/</a>

**Note**: This feature is experimental and may not be compatible with all serial number formats or meter types.

## **6** SETTING TESCO DEVICES UP WITH TDM

## 6.1 Setting up a device's network connection

TESCO Device Manager (TDM) communicates with TESCO devices over a network connection. Depending on your organization's IT environment and security requirements, there are two supported methods for establishing this connection:

# Through a Router, Switch, or Ethernet Wall Jack Connect the TESCO device to your network using a standard Ethernet cable. This allows the device to operate within your organization's network infrastructure, making it accessible to TDM from any authorized workstation on the same network.

#### 2. Peer-to-Peer (Ad-Hoc) Connection

For standalone setups or restricted network environments, you can connect the TESCO device

directly to a laptop or PC using an Ethernet cable. This creates a direct point-to-point connection without requiring additional networking equipment.

**Note**: Configuration steps for each method, including IP address setup and scanning options, are detailed below

## 6.1.1 Through a router/switch/ethernet wall jack

To connect a TESCO device to TDM over your organization's network:

- 1. Use an Ethernet cable to connect the TESCO device (such as a meter test board, meter site analyzer, or EVSE tester) to an available router, network switch, or Ethernet wall jack.
- 2. On the TESCO device, navigate to its **Network Settings** to locate the current IP address:
  - a. For Meter Test Boards:

Navigate to SETTINGS  $\rightarrow$  PREFS  $\rightarrow$  GENERAL  $\rightarrow$  NETWORK Some models may display two IP addresses; if so, note the **primary address**.



b. For Meter Site Analyzers and EVSE Testers: Navigate to PREFS  $\rightarrow$  GENERAL  $\rightarrow$  NETWORK.

NETWORK SETUP							
О ОНСР	🖸 STATIC	10.20.11.20	0				
		APPLY	CLOSE				
			CLOSE				

**Optional**: You may choose to assign a **static IP address** to the TESCO device. To do so, check the **"STATIC"** option and enter the desired IP address manually.

**<u>Important</u>**: If using a static IP, consult with your IT team to ensure the address does not conflict with other devices on the network.

## 6.1.2 Peer-to-Peer/Ad-Hoc

A peer-to-peer (or "ad-hoc") connection allows you to connect a TESCO device directly to a PC or laptop using an Ethernet cable, without requiring a router or switch. This method is ideal for standalone setups or when working outside of a corporate network.

Step-By-Step Instructions:

1. Connect the Devices

Using an Ethernet cable, connect the **TESCO device** (e.g., **Meter Test Board**, **Meter Site Analyzer**, or **EVSE Tester**) directly to a Windows laptop or PC.

2. Check the Computer's Auto-IP Address

On your PC:

a. Press Windows + R to open the Run dialog.



b. Type cmd and press Enter to launch the Command Prompt.

					ment, or Interne
	resource, a	and Windov	vs will op	en it for you	
Open:	cmd				

- c. In the Command Prompt, type ipconfig and press Enter.
- d. Locate the **Autoconfiguration IPv4 Address** (typically starts with 169.254.x.x).

**Example:** 169.254.140.241 — this is your PC's address on the ad-hoc network.



- 3. **Configure the TESCO Device's Network Settings** On the **TESCO device**, you will assign a compatible static IP address that is in the same range but not identical to the PC's.
- If your PC address is 169.254.140.241, set the TESCO device to 169.254.140.242.

▲ Do not use the same IP address as your PC. Acceptable range: 169.254.140.0 – 169.254.140.255 (excluding the PC's IP).

#### Accessing Network Settings on TESCO Devices:

• For Meter Test Boards:

Navigate to SETTINGS  $\rightarrow$  PREFS  $\rightarrow$  GENERAL  $\rightarrow$  NETWORK

		NETWORK SETUP			
	PRIMARY	DHCP	STATIC	10.20.11.106	
	SECONDARY	DHCP	STATIC	10.20.11.147	
For			_	APPLY CLOSE	





NETWORK SETUP					
STATIC	10.20.11.200				
	APPLY	CLOSE			
		STATIC 10.20.11.20			

- Set the mode to **STATIC**
- Enter the selected IP address
- Click APPLY, then CLOSE

#### 4. Optional: Confirm the Connection

Back on your PC, you can confirm the devices are communicating:

- Open the Command Prompt.
- Type ping followed by the IP address you assigned to the TESCO device (e.g., ping 169.254.140.242) and press **Enter**.
- If the setup is correct, you should receive a reply, indicating that the connection is active.

```
C:\Users\mark.cerna>ping 10.20.11.200
Pinging 10.20.11.200 with 32 bytes of data:
Reply from 10.20.11.200: bytes=32 time=1ms TTL=64
Reply from 10.20.11.200: bytes=32 time=1ms TTL=64
Reply from 10.20.11.200: bytes=32 time=1ms TTL=64
Ping statistics for 10.20.11.200:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

6.2 Adding a subnet to the scan list and performing a network scan

1. In TDM, click **"Devices"** from the side menu, then select **"Scan for Devices"** to open the device scan window.



2. In the **Scan for Devices** popup window, select **"Subnet"** from the scan type dropdown menu.

Scan For Devices X	Scan For Devices X
Scan Type: Subnet	Scan Type Subnet
CANCEL SCAN SUBNETS	CANCEL SCAN SUBNETS

3. Click "ADD SUBNET" button.

ADD SUBNET

 In the Add Subnet popup, enter the first three groups of numbers from the TESCO device's IP address (left to right). For example, if the TESCO device has an IP address of "10.20.11.242", you will need to enter "10.20.11".



5. Click "Add" to save the subnet to the list.

🕵 Add Subnet to scan		?	×
Enter Subnet			
10.20.11		_	
C	ANCEL	A	DD

"SCAN SUBNETS" to begin scanning

6. Click



7. Any detected TESCO devices will be listed on the **Devices** page.



**Tip**: Scanning by subnet is ideal for finding multiple devices on a shared network without needing to know individual IP addresses.

## 6.3 Adding an IP address to the scan list and performing a network scan

This option allows you to scan for a specific TESCO device when you know its exact IP address. It's useful when working with static IP assignments or when scanning a broad subnet is not necessary.

#### **Step-by-Step Instructions:**

1. In TDM, click **"Devices"** from the side menu, then select **"Scan for Devices"** to open the scan window.

File Edit Management Help Devices Database MextGen Testing	Supported Devices: Meter Test Boards, Meter
---	---

2. In the Scan for Devices popup, choose "IP" from the scan type dropdown menu.

Scan For Devices	>	🧝 Scan For Devices	×
Scan Type: Subnet	-	Scan Ty e: IP	<b></b>
REMOVE IP Subnet		REMOVE SELECTED	ADD IP
192.108.1			
169.254.140 10.20.11			
CANCEL SCAN SUB	NETS	CANCEL	SCAN IPS

3. Click the "Add IP" button.



4. In the Add IP Address to Scan popup, enter the full IP address of the TESCO device.

🤗 Add IP Address to scan	?	×
Eptor ID Addroce		_
10.20.11.165		
CANC	L	טט

5. Click "Add" to close the popup and save the IP address to the scan list.

😤 Add IP Address to scan	?	×
Enter IP Address		
10.20.11.165	_	
CANCE		DD

6. Click **"Scan IPs"** to begin scanning the specified address.

🤗 Scan For Devices	×
Scan Type: [IP	•
REMOVE SELECTED ADD IF	
10.20.11.165	
CANCEL SCAN	IPS

7. Any discovered TESCO devices will appear on the **Devices** page.



**Scanning by IP** *is* ideal when you're connecting to a **single known device** — especially when you already know the exact IP address.

## 6.4 Removing/Forgetting a device

If a device is no longer in use or needs to be removed from the TDM device list, you can manually delete it using the **Forget Unit** option.



#### Step-by-Step Instructions:

- 1. Navigate to the **Devices** page in TDM.
- 2. Locate the device you wish to remove.
- 3. Click the **"FORGET UNIT"** button on that device's cell.

Once selected, the device will be removed from the visible list and will no longer appear in future scans unless re-added.

**Note**: This action only removes the device from the current view in TDM. It does not affect the device itself or its network settings.

## 6.5 Performing Software update on a device

**WARNING**: Ensure the device's network connection is stable before starting a software update. Interruptions during the update process may result in incomplete installation or device communication issues.

TDM allows users to update the software on supported TESCO devices when a newer version is available. This option is only visible if the device is running outdated software.



#### **Step-by-Step Instructions:**

- 1. On the **Devices** page, locate the TESCO device you wish to update.
- 2. If the device is eligible for an update, an **"UPDATE SOFTWARE"** button will appear on its device cell.
- 3. Click "UPDATE SOFTWARE" to begin the update process.

During the update, the device's screen may go blank (white or black) and restart automatically. This is normal behavior.

- 4. A progress bar will appear on the device cell in TDM, showing the update status in real time.
- 5. Once the update is complete, the device will automatically reboot and return to its normal operating state.

Note: Do not disconnect power or network cables while the update is in progress.

## 7. PULLING RECORDS FROM A DEVICE TO TDM (Quick Sync)

Clicking the **"Quick Sync Database"** button on the device cell initiates a one-way transfer of data from the connected device to your local TDM installation. This process updates the local database stored on your computer with the latest records from the device.





**Step-by-Step Instructions:** 

- 1. On the **Devices** page, locate the device from which you want to pull records.
- 2. Click the "QUICK SYNC DATABASE" button on the device cell.

A progress bar will appear, indicating the status of the synchronization process. Once complete, the retrieved records will be available in the local TDM database for review or export.

**Note**: This action does not remove or alter records on the device itself. It simply ensures that your local copy of the database reflects the most current data available.

## 8. MANAGING RECORDS ON A DEVICE (Full Sync)



To manage meter and sequence records stored on a TESCO device, click the **"Full Sync Database"** button located on the device cell.

This will open the **Full Sync** window for the selected device.

Unlike Quick Sync, which only pulls data from the device into TDM, **Full Sync is bidirectional** — meaning it updates and synchronizes records **between the device and your local TDM database**.

Once the Full Sync window is open, you can review and select which items should be retained or removed on the device. The interface is organized into two tabs:

- Meters Displays all meter records available for syncing. Please refer to section 8.1 for more information/instructions.
- Sequences Displays all test sequences available for syncing. Please refer to section 8.2 for more information/instructions.

After selecting the desired records, click **"Next"** to proceed through the tabs, then select **"Begin Upload"** to finalize the sync.

## 8.1 Selecting which items to keep on the device

The items displayed in this section will vary depending on the connected device type. Items that are **checked** indicate records currently stored on the device, while **unchecked** items are not present on the device but still exist in TDM.

S Full Sync with CAT. 6330 00034	– 🗆 X	Sull Sync with CAT. 6330 00034	– 🗆 X	😤 Full Sync with CAT. 6330 00034	- 🗆 X
Device Model: CAT. 6330 Serial Number: 00034		Device Model: CAT. 6330 Serial Number: 00034		Device Model: CAT. 63 Serial Number: 00034	30
Meter Stations Sequences		Meter Stations Sequences	]	Meter Stations Sequences	]
Date Last Updated From: 1/1/1970  SELECT/DESELECT VENELT SIte ID: 123 Service: 4-Wire, Wye Loc. ID: 321	• To: 1/23/2025 • Selected: 30/30	Date Last Updated From: 1/1/1970 - SILICT/DISSILECT VISIBLE SILICT/DISSILECT ALL Site ID: 123 Service: 4-Wire, Wye Loc. ID: 321	To: 1/23/2025 • Selected: 30/30	Date Last Updated From: 1/1/1970  GETECT/DESELECT VISIONE SELECT/DESELECT ALL  Site ID: 123 Service: 4-Wire, Wye	▼ To: 1/23/2025 ▼ Selected: 30/30
Site Address: AL United States Site ID: 1234 Site ID: 1234 Site ID: 1234 Loc. ID: 1234 Site Address: AL United States Site ID: 65		Site Address: AL United States Site ID: 1234 Service: 4-Wire, Wye Loc. ID: 1234 Site Address: AL United States Site ID: 65		E Loc. ID: 321 Site Address: AL United States Site ID: 1234 ⊠ Loc. ID: 1234 Site Address: AL United States Site ID: 65	
Service: 4-Wire, Wye (2V31) Loc. ID: CBA Site Address: AL United States	<u> </u>	Service: 4-Wire, Wye (2/31) Loc. ID: CBA Site Address: AL United States	<b>_</b>	Service: 4-Wire, Wye (2V31) Loc. ID: CBA Site Address: AL United States	
	NEXT		NEXT		NEXT

- To **add** an item to the device, check the box next to it.
- To **remove** an item from the device, uncheck the box.

**Note**: Unchecked items are removed from the device but remain stored in TDM and can be re-added at any time.

• Once your selections are made, click **NEXT** to continue to the **Sequences** tab.

## 8.2 Selecting which sequences to keep on the device

The sequences displayed in this tab will vary depending on the connected device type. **Checked** sequences are currently stored on the device, while **unchecked** sequences are not present on the device but remain available in TDM.

🗧 Full Sync with CAT. 6330 00034 — 🗆 🗙	📴 Full Sync with CAT. 6330 00034 — 🗆 🗙	📴 Full Sync with CAT. 6330 00034 — 🗆 🗙
Device Model: CAT, 6330 Serial Number: 00034	Device Model: CAT. 6330 Serial Number: 00034	Device Model: CAT, 6330 Serial Number: 00034
Neter Station         Sequences           Search         Inter/INSULEY ALL         Selected: 8/8           Sequence Name: CBA.         Image: CBA.         Image: CBA.           #         # Of Tests: 4         Image: CBA.         Image: CBA.           Sequence Name: CBF.         Image: CBA.         Image: CBF.         Image: CBF.           Image: CBF.         Image: CBF.         Image: CBF.         Image: CBF.         Image: CBF.           Image: CBF. </td <td>Neter Station     Sequences       Search     Select / VISILE       Set LCC / DESLECT VISILE     Select 2005       Sequence Name: CEA     Image: Content of the second of the seco</td> <td>Stature         Stature           Search         Selectronsition           Statict / Missing         Statict / Missing           # Of Tests: 4         #           # Of Tests: 5         #           # Of Tests: 6         #           # Of Tests: 7         #</td>	Neter Station     Sequences       Search     Select / VISILE       Set LCC / DESLECT VISILE     Select 2005       Sequence Name: CEA     Image: Content of the second of the seco	Stature         Stature           Search         Selectronsition           Statict / Missing         Statict / Missing           # Of Tests: 4         #           # Of Tests: 5         #           # Of Tests: 6         #           # Of Tests: 7         #
BACK BEGIN UPLOAD	BACK	BACK

- To add a sequence to the device, check the box next to it.
- To **remove** a sequence from the device, uncheck the box.

**Note**: Unchecked sequences are removed from the device but remain stored in TDM and can be resynced at any time.

Once your selections are finalized, click **BEGIN UPLOAD** to apply the changes and complete the sync.

## 9. MANAGING ITEMS IN TDM

TDM allows users to create, edit, and delete items within the local database. Once changes are made, they can be synced to a connected device, making the updated items immediately available for use—without the need to manually re-enter details on the device.

To begin managing items in TDM:

- 1. From the **TDM side menu**, click **Database** to expand the submenu.
- 2. Select Items to access the item management screen.

From this view, you can perform the tasks outlined in Sections 9.1 through 9.4.

NOTE: Please refer to section 4.2.2 for a full overview of all the steps associated setting up:

Meters, CTs, VTs, Meter Stations and EVSE Chargers.

## 9.1 Creating Items

To create a new item in TDM, follow these steps:

- 1. Select the type of item you wish to create (e.g., Meter, Meter Station, or EVSE Charger).
- 2. Click the "Add New" button.

TESCO Device Manager - v2.1.1G			TESCO Device Manager - v2.1.1G		
File Edit Management Help			File Edit Management Help		
Devices	ITEM	SEARCH	Devices	ITEM	SEARCH
😫 Database 🖍	<b>v</b>		😫 Database 🖍	Meters	
🗟 Items	Meters	MATCH EXACT Tags:		Meters	
de Sequences	Cts		🗟 Items	ADD NEW	MATCH EXACT Tags:
Test Results	vts Meter Stations		3 Sequences		
🗲 Import	EVSE Chargers		Test Results	TAGS	Meter SN
🗊 NextGen Testing 🗸			E Import	+ See section 15 for Tags	TMPMTR-3057800424911
🗐 Knopp Testing			🛐 NextGen Testing 🗸	+ 🚽 QCCheck 🛛	T-1904
			記 []] Knopp Testing	+ 🗸	9061
			En Knopp Testing	+ 🗸	77060706
				+-	6765433

In the item editing popup, fill in the required details for the selected item type.

• **Note**: The fields presented in the editing window will vary depending on the selected item type. For example, the information required for Meters, CTs, VTs, Meter Stations, and EVSE Chargers is specific to each category.

Meter			CTs	VTs
New Meter Info  Meter SN:  Comm Serial:  Utility Serial:  Manufacturer:  Model:  Catalog #:  Meter Notes:  Bidirectional  KYZ	Form:         2         Base:         S           Kh:         7.200 ÷         Kt:         7.200 ÷           TA:         30.00 ÷         Class:         200 •           Voltage:         240.00 •         Acc Class:         1.0 •           Multipler:         1.00 ÷         •         •           Functionality Code:         •         •         •           Capable         Demand         Vectorial Arithmetic         •           CANCEL         CONTINUE         •         •	B feit Ratio Nameplate Ratio: D Burden Rating: (E-0.04 Rating Factor: 4.00 Accuracy Class: 0.3 Max. Test Burden: 1.00	Acc Class RF T × 2,2 4.00 Cancel Done Cancel Sure Cancel Sure C	X Serial #: Manufacture: Manufacture: Model: Nameplate Ratio: State Auto Burden Rating: (W Accuracy Class: 0.3 Cancel Donne Gal Gal Gale Cancel Stave VI
	er Stations			EVSE Chargers
Know Mares Statementel      Monter Marine      Monter Marine      Monter Marine      Monter Marine      Monter Marine      Monter      Monter      Calibration      frequency      Curtomer:      Default Sequence:	Loc. ID:	ADD Sife	Gfci Rating: 20.00	- • • ×
	CANCEL	AVE STATION		CANCEL SAVE CHARGER

2. Click **"Continue"** or **"Save"** to confirm. A confirmation popup will appear once the item has been successfully saved to the database.

#### Important Note:

• Each item must have a unique ID. Duplicate IDs are not allowed.

- Meter: Identified by Meter SN
- Meter Station: Identified by Site ID
- EVSE Charger: Identified by Charger Serial

#### 9.2 Editing Items

To edit an existing item:

- Either **double-click** the item, or
- **Right-click** the item and select "Edit" from the context menu.

This will open the editing popup, where you can modify item details and save your changes.

<ul> <li>TESCO Device Manager - v2.1.0r</li> <li>File Edit Management Help</li> </ul>			- 🗆 ×
Devices	ITEM	SEARCH	
Database 🔨	Meters 🔻		
E Items	ADD NEW	MATCHEXACT Tags:	Select Set from File
D Sequences	ACOINEW	MATCHEMACT Tags:	seen seennine
Test Results	TAGS	Meter SN Utility Serial Comm Serial	Meter Form Model Mai
 ← Import	+ -	986D Edit	9S
🗊 NextGen Testing 🗸		Delete View Results	
		Oustom Export	
			<u>ب</u>
		- 1 of 1 -	
	R		

## 9.3 Deleting Items

To delete an Item.

• **Right-click** the item and select "Delete" from the context menu.

**A** Note: Deleted items cannot be recovered. Ensure accuracy before confirming deletion.

Help							
	ITEM	SEARCH					
^ (	EVSE Chargers 🔹						
	ADD NEW	MATCH EXACT	Tags:				
	TAGS	Cha	rger Serial	Model	Manufacturer	Customer	Number of Ports
	+ 🗸	TMPCHARGER-7	7591513329456207808				1
~   [	+ 🚽	TMPCHARGER-7	591513173998708352				1
	+ 🗸	TMPCHARGER-7	591513156425770168				1
	+ 🚽	CP40	0099999XP	CT4000	ChargePoint	Burlington TWP	2
	+ 🚽 ISO Model 🗙	919293	949596979899	Series 7	<b>Blink Charging</b>	Br Edit	2
						Delete	
						Custom Expo	rt
		Hep ITEM EVSE Chargers  ADD NEW TAGS + -	Hep TTEM SEARCH EVSE Chargers Chargers MATCH EXACT TAGS Charger- +	TTEM         SEARCH           EVSE Chargers <ul></ul>	TTEM         SEARCH           EVSE Chargers         Imatch exact           TAGS         Charger Serial           MATCH EXACT         Tags:           TAGS         Charger Serial           ++         TMPCHARGER-7591513329456207808           ++         TMPCHARGER-7591513173998708352           ++         TMPCHARGER-7591513156425770168           ++         CP400099999XP	TTEM         SEARCH           EVSE Chargers         Imatch EVACT         Tags:           ADD NEW         MATCH EVACT         Tags:           TAGS         Charger Serial         Model         Manufacturer           + -         TMPCHARGER-7591513329456207808         Model         Manufacturer           + -         TMPCHARGER-7591513173998708352         Imatch EVACT         Imatch EVACT           + -         TMPCHARGER-7591513156425770168         CP400099999XP         CT4000         ChargePoint	TIEM         SEARCH           EVSE Chargers

### 9.4 View Results

To make sure that TDM has all the latest records from a device, do a **Quick Sync** (refer to **section 7** for details/instructions) first on the Devices page with the test device.

To view a test result for a specific item:

1. Navigate to Database -> Items page.



2. Select the item's record type (Meter/Meter Station/EVSE Charger) on the dropdown at the upper left corner of the page. In this example, we are going to view a Meter's test result.

🔀 TESCO Device Manager -					- 🗆 ×
File Edit Management	Help				
🔐 Devices		ITEM	SEARCH		
🛢 Database	^	<b>v</b>			
🗟 Items		Meters	MATCH EXACT	Tags:	Select Set from File
Sequences		d Vts		-	
🗿 Test Results		Meter Stations			
🗲 Import		EVSE Chargers			
🗐 NextGen Testing	~				
			-	1 of 1 -	
	_				

3. Look for the item associated with the results that you want to view. You may filter the item by entering a text on the search bar or by applying tags.

Itsco Device Manager - File Edit Management									- 0	×
Devices	нер		TEM	SEADON						
Database										
	^	Meters		8826	_					
🗟 Items	_	AD	D NEW	MATCH EX	ACT	Tags:		Select _	Set from I	île
Sequences			1.00				o	N		
🗿 Test Results			TAGS	Meter SN	Utili	ty Serial	Comm Serial		Model	Mai
🗲 Import		+ •		8826820				95		
🗐 NextGen Testing	~									
		•				1				•
					-	1 of 1	-			

4. Right click on the item then click "View Results" on the context menu.

TESCO Device Manager	- v2.1.0r									- 0	×
ile Edit Management	Help										
🛱 Devices		ITE	М	SEARCH							
🛢 Database	^	Meters	•	8826							
🗟 Items		ADD	NEW	MATCH	EXACT	Tags:			Select	Set from F	ile
🔊 Sequences		<u> </u>				5					
🗐 Test Results		TA	GS	Meter S	N Util	ity Serial	Comm Seri	al Mete	r Form	Model	Mai
🗲 Import		+ •		882682	Edit Delete				)S		
🗐 NextGen Testing	v				View Re	esults	1				
				-	Custom						
						I.					
		<u> </u>			_						<u> </u>
					-	1 of 1	-				

5. TDM will switch the page to Test Results and display the test results of that item.



6. Right click on a result you wish to view then click "View Sequence Result" on the context menu to open the View Test Result popup. This can also be done by double clicking on a result on the table.

TESCO Device Manager - v2.1.0r File Edit Management Help						- 0	х
🕎 Devices	ITEM		SEARCH				_
🗐 Database 🛛 🔺	Meters	•	8826820				
🗟 Items	EXPORT	TO DAT	MATCH		ROM: 1/1/2000	• TO: 1/23/2025	5
🕫 Sequences		4					_
🖹 Test Results	Meter SN	,	Performed			Test Device	То
E Import	8826820	2022-11-1	1 16:00:	View Sequence Result	I-Wire, Wye	CAT. 6330 - 00034	C
NextGen Testing V				Delete Create PDF Report Export to CSV Export to DAT Outloom Export			
	<u> </u>			← 1 of 1 →	)		

7. Test Result details will be shown on the View Test result popup

3 4 Service Sequence Name Sequence Tolerance Average Error Device Model Devic 5 4 Wire Wye QUICK 0.5% -0.097% CAT. 6330 00 6 7 TAG Result Index Pass / Fail Registration % Error Meter	1	Meter SN	Utility Serial	Comm Serial	Meter Form	Meter Kh/Kt	Met
4 Service Sequence Name Sequence Tolerance Average Error Device Model Devic 5 4 Wire Wye QUICK 0.5% -0.097% CAT. 6330 00 7 TAG Result Index Pass / Fail Registration % Error Meter	2	8826820			<b>9</b> S	1.800 / 1.800	2
5 4-Wire Wye QUICK 0.5% -0.097% CAT. 6330 00 5 7 TAG Result Index Pass / Fail Registration % Error Meter	3						
5 TAG Result Index Pass / Fail Registration % Error Meter	4	Service	Sequence Name	Sequence Tolerance	Average Error	Device Model	Devic
7 TAG Result Index Pass / Fail Registration % Error Meter	5	4-Wire Wye	QUICK	0.5%	-0.097%	CAT. 6330	00
	5						
8 CLACC 2-1 Passed 99.903 -0.097 % 1.	7	TAG	Result Index	Pass / Fail	Registration	% Error	Meter I
	В	CL ACC	2-1	Passed	99.903	-0.097 %	1.

## 9.5 Custom Export

To run a custom export on the selected items, right click on one of the selected/highlighted items and then click "Custom Export" on the context menu.

TESCO Device Manager - v2.1.1G										-	0
ile Edit Management Help											
Devices	ITEM SEARCH										
🛢 Database 🖍	EVSE Chargers										
🛱 Items	MATCH EXACT			PERFORME	D TODAY FROM: 1/1/2	000		• TO: 4/3/202	5		
Sequences											
Test Results	Charger Serial	Loc.	ID Site Address	Loc. Code	Date Performed	Performed By	AC / DC	Test Device	Port Name	Port Typ	Эе
E Import	TMPCHARGER-7591513329456207808		View Sequence Result		2025-01-23 11:21:56.969	TESCO	DC	T4000 - 00079	TMP-PORT	CCS1_D	С
RextGen Testing v	TMPCHARGER-7591513173998708352		Delete		2025-01-21 18:11:55.924	TESCO	AC	T4000 - 00079	TMP-PORT	CCS1_A	С
	TMPCHARGER-7591513156425770168		Create PDF Report		2025-01-21 13:32:37.133	TESCO	AC	T4000 - 00079	TMP-PORT	CCS1_A	C
🚉 Knopp Testing			Export to CSV	_							
			Custom Export								

NOTE: Custom export scripts are categorized on which item/result type the script would be run. An error would be shown if a custom export script is run against an unsupported category.

IMPORTANT NOTE: If no custom export script has been created for the selected table, TDM will display the message: "No Custom Export created for table yet! Please add one first by going to Management > Custom Reports."

🕵 Custom Export Wizard	×
No Custom Export created for Please add one first by going to Ma Custom Exports.	
	ОК

To resolve this, navigate to **Management > Custom Reports** and create or assign an export script for the relevant item or result type.

## **10. EXPORTING RESULTS**

TDM supports exporting test results from connected TESCO devices in a variety of formats, including **CSV**, **PDF**, and **Custom Export** formats. These exports can be used for reporting, archiving, or integrating with other systems.

## **10.1** Exporting to CSV

TDM allows users to export test results in a **CSV format** that is designed for readability and ease of use. Unlike a standard flat-file CSV with a single header row, TDM's CSV format mirrors the layout of the **View Test Result** popup for consistency.

There are two ways to perform a CSV export:

- From the View Test Result popup, click the "Export to CSV" button.
- From the **Test Results** page, right-click one or more test results and select **"Export to CSV"** from the context menu.

View Seque	ince Result 20	22-11-11 16:00:01.006		_		o ×
			EXPORT TO PDI	EXPORT TO	CSV EXPORT	TO DAT
Mete	er SN	Utility Serial	Comm Serial	Meter Form	Meter Kh/Kt	Met
8826	5820			<b>9</b> S	1.800 / 1.800	2.
Serv	vice S	equence Name	Sequence Tolerance	Average Error	Device Model	Device
4-Wire	e Wye	QUICK	0.5%	-0.097%	CAT. 6330	00
TA	AG	Result Index	Pass / Fail	Registration	% Error	Meter N
	ACC	2-1	Passed	99.903	-0.097 %	1.8
		1				

When exporting multiple test results at once, the files will be saved to the directory specified in the **Export Path** under the **Report** tab in the **Preferences** popup. To access this setting, go to **Edit > Preferences**.

## **10.2 Exporting to PDF**

PDF exports can also be generated in two ways:

- From the View Test Result popup by clicking the "Export to PDF" button.
- From the **Test Results** page by right-clicking one or more test results and selecting **"Create PDF Report"**.

	equence Result	2022-11-11 16:00:01.006		_			2.1.0r Help	-
			EXPORT TO PD	F EXPORT TO	CSVEXPORT	TO DAT	ITEM     Metars	SEARCH
м	eter SN	Utility Serial	Comm Serial	Meter Form	Meter Kh/Kt	Met		
8	826820			<b>9</b> S	1.800 / 1.800	2.	Meter S	
							8826820	2022-11-11 View Sequence Result CO 4-Wire, Wye CAT. 6330 - 000
S	ervice	Sequence Name	Sequence Tolerance	Average Error	Device Model	Device	~	Doloto
4-V	vire Wye	QUICK	0.5%	-0.097%	CAT. 6330	00		Create PDF Report Export to CSV
								Export to DAT
	TAG	Result Index	Pass / Fail	Registration	% Error	Meter N		Custom Export
¢	LACC	2-1	Passed	99.903	-0.097 %	1.8		
							•	

If only one test result is selected, the PDF Report Builder will appear, allowing you to:

- Choose which test results from the session to include.
- Specify the file name.
- Select the save location for the PDF report.

To customize the appearance and layout of PDF reports, go to the **Report** tab in the **Preferences** popup (found under **Edit > Preferences**).

When exporting multiple test results, the files will be saved to the path defined in the **Export Path** setting in **Preferences**.

#### **10.3 Custom Export**

TDM also supports Custom Export scripts, which can be used to format data according to specific internal or third-party requirements.

To perform a custom export:

1. Select or highlight the test results to be exported.

TESCO Device Manager - v2.1.0r						- 0	×
File Edit Management Help							
🔐 Devices	ITEM		SEARCH				
🗟 Database 🛛 🔺	Meters	▼)	882				
🔒 Items	EXPORT	TODAT	MATCH EXAD	FORMED TOC	ROM: 1/1/2000	TO: 1/23/2025	•
and Sequences	-		-		Criteri		_
Test Results	Meter SN	Date	Performed	Performed b		Test Device	14
E Import	8826820	2022-11-1	11 16:00:40.94	TESCO	4-Wire, Wye	CAT. 6330 - 0003	14
創 NextGen Testing 🗸							
Safrackon ready							
	·						٠
				- 1 of 1 →	)		

2. Right-click and choose **"Custom Export"** from the context menu. This opens the **Custom Export Wizard**.



3. In the wizard, select the desired script from the dropdown list.



4. Click **Export** to run the script.

🙎 Custom Export Wizard — 🗆 🗙	📴 Custom Export Wizard — 🗆 🗙
Select Custom Export: TMA-Format	Select Custom Export: TMA-Format
Progress:	Progress:
	Checking Custom Exports integrity. Checking table record selection. Valdating Custom Exports. Generating quary parameter values. Running Custom Export query. Applying RegEx. Applying RegEx. 1 of 1 to record @ row 1. Generating filename param values 1 of 1. Checking file/directory validity. Opening file for writing.
Overwrite file	Overwrite file Open file location on Close
Close Export	Close Export

5. Once complete, a green confirmation message will appear stating "Export Successful" along with an option to open the export folder will be shown.

🕵 Custom Export Wizard	_		×
Select Custom Export: TMA-Format Progress:	•	More	<u>e Info</u>
Checking Custom Exports integrity. Checking table record selection. Validating Custom Exports. Generating query parameter values. Running Custom Export query. Applying RegEx: Applying RegEx: 1 of 1 to record @ row 1. Generating filename param values 1 of 1. Checking file/directory validity. Opening file for writing. Writing to file.			
🔳 Overwrite file 🛛 🗌 Open file	locatio	n on (	Close
(	Close	) Exp	oort

- 6. The resulting file will be saved to the path defined in the **Export Path** under **Preferences**.
- 7. Click **Close** to exit the wizard.

🥵 Custom Export Wizard	_		×
Select Custom Export: TMA-Format	•	More	e Info
Progress:			
Checking Custom Exports integrity. Checking table record selection. Validating Custom Exports. Generating query parameter values. Running Custom Export query. Applying RegEx. 1 to record @ row 1. Generating filename param values 1 of 1. Checking file/directory validity. Opening file for writing. Writing to file. 			
Overwrite file Open file	e locatio Close		Close

Note: Custom export scripts are grouped by item or result type. If a script is applied to an unsupported item, an error message will be displayed.

## **11. IMPORTING ITEMS INTO TDM**

TDM allows users to create item records by importing data from a formatted CSV file. This process is useful for loading multiple records at once, such as Meters, Meter Stations, or EVSE Chargers.

Follow the steps below to complete the import:

- 6 Step-by-Step Instructions:
  - 1. From the **Database** menu, select **Import** to open the import screen.



2. Select the type of items to import. The available items to import as Meters, Meter Stations, and EVSE Chargers. After an item type has been set, the "GENERATE CSV TEMPLATE" button will be enabled. Users may now use this feature to create a csv file template as basis or fill this file with item data. For this example, we are going to import meters.



ave As							Save As						
← → × ↑ 🗄 > This	PC > Documents			✓ Ů Star	ch Documents	Q,	$\epsilon \rightarrow - \downarrow \equiv $	This PC > Documents			✓ <sup>™</sup> Searc	.h Documents	,
Organize 👻 New folder					800 -	•	Organize 👻 New fo	lder				0	· - (
This PC	Name	Date modified	- Mos	Size		^	🗸 💷 This PC	Name	Date modified	Type	Size		
> 🧊 30 Objects	AlabamaPower	2/14/2824-4-06 PM	File folder				> 🗊 30 Objects	AlabamaPower	2/14/2024 4:08 FM	File folder			
> Desktop	bak .	9/13/2024 9:17 AM	Filefolder				> Desktep	bek	9/13/2024 8:17 AM	File folder			
Documents	СПЕС	1/9/2025 1:56 PM	File folder				> Documents	CTEC	1/9/2025 1:56 PM	File folder			
> 🕹 Downloads	CTEC SCRIPT	7/25/2024 1:57 PM	File folder					CTEC SCRIFT	7/25/2024 1:57 FM	File folder			
	Custom Office Templetes	10/9/2024 11:23 /444	File folder				> 🕹 Downloads	Custom Office Templates	10/9/2024 11:23 AM	File folder			
🁌 Music	customer	10/30/2024 2:54 PM	file folder				> 🁌 Music	customer	10/30/2024 2:54 PM	File folder			
> 📰 Pictures	Evoellester	5/14/2024 10:51 /444	File folder				> E Pictures	EvseTester	5/14/2024 10:51 AM	File folder			
> 🔚 Videos	- Fax	11/8/2024 1:49 PM	File folder				> 📓 Videos	- Fax	11/8/2024 1:49 FM	File folder			
🗧 🛓 Local Disk (Ci)	ElowGhart	11/20/2024 2:46 PM	File folder				> 🏪 Local Disk (C)	FlowChart	11/20/2024 2:46 PM	File fokler			
👝 Local Disk (Di)	fromDan20230612	6/12/2623 1:49 PM	File folder				> Local Disk (D)	fromDan20230612	6/12/2023 1:49 FM	File folder			
> 👳 MFG (\\tescona:	PMsg	12/13/2024 1:40 PM	File folder				> 📻 MFG (\\tescona:	IPMsg	12/13/2024 1:40 PM	File folder			
P Drive (Pt)	tronDemo	11/27/2024 12:50 PM	File folder					ItronDemo	11/27/2024 12:50 PM	File folder			
> 👳 nod (Vterconeri 🗸	kevinFarell	8/9/2022 3:12 PM	File folder				> 👳 P Drive (Pt)	kevinfarell	6/9/2022 3:12 Ph/	File folder			
	matiflors	11/25/2024 3-00 FM	File folder				> 👳 npd (\\tescenes\y	markDors	11/25/2024 3:30 PM	File folder			
File nar e: Meters	SvimportTemplate					~	File name: M	terCsvimportTemplate					
Save as type: con to	an maratematica) (1438)						Save as types CSV	(Comma delimited) (*.csv)					
Hide Folders				_	Save Car							_	

3. Click "SELECT FILE" to browse and locate the csv file to be imported.

	GENERATE C		SELECT FI		
	ter SN Meter Fo		eter Kh	Met	
lect import file					
. 🖂	his PC > Documents		v ö		
nize • New fold	<u>^</u>			-	•••
This PC 🎧	Name	Date modified	3F-	áz e	
3D Objects	🖬 exector	10/13/2021 12:54 PM	Microsoft Excel C	1 KB	
Desktop	export-file-20240719_14.47.59.csv	7/25/2024 2:12 PM	Microsoft Excel C	5 KE	
Documents	importsrp.csv	10/28/2024 3:42 PM	Microsoft Excel C	1 KB	
Downloads	DS.csv	1/5/2024 9:50 AM	Microsoft Excel C	103 KE	
	imiter cav import.cav	6/12/2024 11:55 AM	Microsoft Excel C Microsoft Excel C	4 KB	
Music	meter station template.csv meter1.csv	5/2/2024 4:00 PM 1/3/2024 2:12 PM	Microsoft Excel C	408 KB 75 KB	
Pictures					
Videos	MetersToImport.csv	1/23/2025 4:10 PM	Microsoft Excel C	4 KE	
Local Disk (C:)	Intertemplete 2- normalesy NISC Meter Test Import Sample.csv	5/1/2024 0:30 PM 8/7/2024 11:39 AM	Microsoft Excel C	2 KB	
Local Disk (D)	SampleData.csv	877/2024 T1:39 AM 1/31/2023 3:28 PM	Microsoft Excel C	2 KB 1 KB	
MFG (Atescona:	sites.cov	11/9/2022 12:12 PM	Microsoft Excel C	1 KB	
P Drive (P:)	SitesToImport_0.csv	2/9/2024 10:50 AM	Microsoft Excel C	18 KB	
	agMeterserial.csv	7/24/2024 10:51 AM	Microsoft Escel C	1 KB	
npd (\\tesconasi	tagMeterStationid.csv	7/24/2024 10:34 AM	Microsoft Excel C	1 KB	
pm-storage (\\tr	Tesco-Matt project 3 final.csv	2/9/2024 10:53 AM	Microsoft Excel C	19 KB	
				CSV (Comma-5	an analysis the second
Eile					Cancel
File	name			Open	
Files					
lect import file					
lect import file → ~ ↑ 🗎 → T	This PC > Documents		ڻ   ~		nts
lect import file → ~ ↑ 🗟 > T	This PC > Documents		ڻ v		
lect import file → ~ ↑ 🗟 > T	This PC > Documents	Date modified			nts

_	Name	Date modified	Туре	Size		
💻 This PC	i evse.csv	10/13/2021 12:54 PM	Microsoft Excel C	1 KB		
🧊 3D Objects	export-file-20240719 14.47.59.csv	7/25/2024 2:12 PM	Microsoft Excel C	5 KB		
E Desktop	importsrp.csv	10/28/2024 3:42 PM	Microsoft Excel C	1 KB		
😫 Documents	DS.csv	1/5/2024 9:50 AM	Microsoft Excel C	103 KB		
🕹 Downloads	🙀 meter csv import.csv	6/12/2024 11:55 AM	Microsoft Excel C	4 KB		
Music	meter station template.csv	5/2/2024 4:00 PM	Microsoft Excel C	408 KB		
Pictures	i meter1.csv	1/3/2024 2:12 PM	Microsoft Excel C	75 KB		
Videos	MetersToImport.csv	1/23/2025 4:10 PM	Microsoft Excel C	4 KB		
	😰 metertemplate 2- norris.csv	5/1/2024 6:36 PM	Microsoft Excel C	174 KB		
🏪 Local Disk (C:)	🔕 NISC Meter Test Import Sample.csv	8/7/2024 11:39 AM	Microsoft Excel C	2 KB		
🛖 Local Disk (D:)	🔕 sampleData.csv	1/31/2023 3:28 PM	Microsoft Excel C	1 KB		
🛫 MFG (\\tescona:	🔕 sites.csv	11/9/2022 12:12 PM	Microsoft Excel C	1 KB		
🛫 P Drive (P:)	🔹 SitesToImport_0.csv	2/9/2024 10:53 AM	Microsoft Excel C	18 KB		
👳 npd (\\tesconasi	😰 tagMeterserial.csv	7/24/2024 10:41 AM	Microsoft Excel C	1 KB		
👳 pm-storage (\\te	🔯 tagMeterStationId.csv	7/24/2024 10:34 AM	Microsoft Excel C	1 KB		
- · · · · · · · · · · · · · · · · · · ·	😰 Tesco-Matt project 3 final.csv	2/9/2024 10:53 AM	Microsoft Excel C	18 KB		_
File na	ame: MetersTolmport.csv			CSV (Com	ma-Separated Valu	es ∨

4. Once TDM finishes parsing the CSV file, a preview of the records to be imported will be displayed. A popup may appear with a warning if any fields are missing or left blank. TDM will automatically assign default values such as blanks, zeros, or "false" to those fields. Click "OK" to close the popup.

Devices	ITEMS TO IMPORT		ACTIONS	
Database 🔺 📶	ters 🔻	C:/Users/mark.cerna/Documents/Me	tersToImport.csv	HELP
🗟 Items			TE SAVE IMPORTED ITEMS TO	
🔊 Sequences				
Test Results	Meter SN	Meter Form	Meter Kh	м
E Import	19772790	26	× 0.6	
NextGen Testing 🗸	2172		0.25	
grivextden resultg		e not supplied, assigning default valu eterBase:	es: 0.25	
	2103	eterVoltage: 120 eterClass: 20 eterTA: 2.5	0.25	
	2448	eterAccuracyClass: 1	0.25	
	<b>21/2</b>	eterManufacturer: [Blank] eterModel: [Blank]	0.25	
	3183	eterCatalogNum: [Blank] eterUtilitySerial: [Blank]	0.25	
	2177. m	eterFunctionalityCode: [Blank] eterHasDemand: false	0.25	
	2172	eterHasKYZ: false eterIsBidirectional: false	0.25	
	2177. m	eterVectorialArithmatic: false eterImage: 0	0.25	
	3012	eterNotes: (Blank) eterRetired: false	0.6	
	2177	eterDefaultSequence: [Blank]	0.25	
	2188	UK	0.25	
	22054016	4S	0.25	
	21724031	4S	0.25	
	21854922	4S	0.25	
	21886054	4S	0.25	
	22054019	4S	0.25	
	23569698	4S	0.25	

Database 🔨	ITEMS TO IMPORT	1	(CTIONS	
Database 🔨	Meters 💌	C: /Users/mark.cema/Documents/Meter	sToImport.csv SELECT I	
🖹 Items		JENERATE OSV TEMPLATE	SAVE IMPORTED ITEMS TO	DATABAS
Sequences     Test Results	Meter SN	Meter Form	Meter Kh	
	19772790	36	- 0.6	
E Import	2172	>		
NextGen Testing 🗸 🗸	Some fields a	re not supplied, assigning default values		
		meterBase: 5 meterVoltage: 120	0.25	
		meterCass: 20 meterTá: 25	0.25	
		meter Accuracy Class 1 meter Manufacturer: [Elank]		
		meter Kodal: Blank meter LotakonNum: Blank	0.25	
	3183	meter UtilitySerial Plank meter PunctionalityCode: Blank	0.25	
	2177	meter Haftemand: take	0.25	
	2172	meterHak(YZ: take meterIsädirectional: febe	0.25	
	2177	meter-vectorial/vitnmatic: fabe meter/meter: 0	0.25	
		meter Notes: [blank] meter Ratired: toka	0.6	
		meter DefaultSequence: [Blank]	0.25	
	2188	OK	0.25	
	22054016	40		
		45	0.25	
	21724031	45	0.25	
	21854922	4S	0.25	
	21886054	45	0.25	
	22054019	45	0.25	
	23569698	45	0.25	
	4 4000070		a ar	

 To proceed with saving these data into the database, click "SAVE IMPORTED ITEMS TO DATABASE"

Pevices	ITEMS TO IMPORT		ACTIONS	
atabase 🔨	Meters 💌	C:/Lisers/mark.cema/Documents/Mebs	Tit	
Items		CENERATE CSV TEMPLATE	SAVE IMPORTED ITEMS T	DATA
Sequences				_
Test Results	Meter SN	Meter Form	Meter Kh	
Import	19773789	35	0.6	
lextGen Testing 🐱	21723965	4S	0.25	
extern reading •	21723940	4S	0.25	
	21854921	45	0.25	
	24480170	45	0.25	
	21724565	45	0.25	
	31832994	45	0.25	
	21775328	45	0.25	
	21724101	4S	0.25	
	21775349	45	0.25	
	30129402	45	0.6	
	21775316	45	0.25	
	21886053	45	0.25	
	22054016	45	0.25	
	21724031	45	0.25	
	21854922	45	0.25	
	21886054	45	0.25	
	22054019	4S	0.25	
	23569698	4S	0.25	

6. TDM will prompt you to confirm if any existing items with matching IDs should be overwritten with the new data.

Click **Yes** to confirm and continue.

TEDCO Device Manager - v2.1.01				- 0 ×	
File Edit Management Help	ITEMS TO IMPORT	Ar	TIONS		
E Database 🔥		C./Liters/mark.cema/Documents/MetersToImport.csv SELECT FILE HELP			
B Items		GENERATE CSV TEMPLATE			
ØD Sequences		JUNERAIL LAV ILDELAIL	SAME IMPORTED TELAS T	O DATADASL	
Test Results	Meter SN	Meter Form	Meter Kh	M÷	
E Import	19773789	35	0.6		
NextGen Testing V	21723965	45	0.25		
Eginexical result V	21723940	45	0.25	_	
	21854921	45	0.25		
	2448( Save built Meter	i fram coute TDM database 🚽 🔲 🗙	0.25		
	21724		0.25		
	31832 Importing Mete	ers from cav may update existing ones. Propeet?	0.25		
	21775	FIGUEES	0.25		
	21724	No Yes	0.25		
	21775		0.25		
	30129402	4S	0.6		
	21775316	45	0.25		
	21886053	4S	0.25		
	22054016	4S	0.25		
	21724031	45	0.25		
	21854922	45	0.25		
	21886054	4S	0.25		
	22054019	4S	0.25		
	23569698	4S	0.25		
	4 4000070	~	0.05		

7. Once the import is complete, TDM will notify the end user that the import was successful. Click **OK** to close the popup.

	ITEMS TO IMPORT	A	CTIONS
M	eters 💌	C: /Users/mark.cerna/Documents/Meters	ToImport.csv
		GENERATE CSV TEMPLATE	SAVE IMPORT
	Meter SN	Meter Form	Meter I
	19773789	35	0.6
	21723965	45	0.25
	21723940	45	0.25
	21854921	45	0.25
	2448( <sup>See</sup> Data Import	×	0.25
	21724		0.25
	31832 Success	sfully saved imported records to DB!	0.25
	21775		0.25
	21724	ОК	0.25
	21775		0.25
	30129402	45	0.6
	21775316	45	0.25
	21886053	45	0.25

 Navigate to Database in the TDM side menu and click to expand the submenu. Then select Items. Locate and select the item type you imported (e.g., Meters). The imported records will now be visible in the list.

💭 Devices	ITEM	SEARCH				
🗏 Database 🖍 🚺	leters	-				
🗟 items	ADD NEW	MATCH EX	ACT Tags:		Select	Set from I
ØD Sequences	PADD HEAV		Act Tugs.			
Test Results	TAGS	Meter SN	Utility Serial	Comm Serial	Meter Form	Model
E Import	•	9908749		2464612	55	
A NextGen Testing	-	9908745		2462166	55	
-	•	9908721		2464567	55	
-	•	9908715		2462606	55	
		9749023		2444916	55	
	•	9313900		2432547	55	
	•	9313897		2432558	55	
		9313896		2433482	55	
-	•	9313895		2431315	55	
	•	9313894		2429808	55	
	•	9313885		2432930	55	
	•	9313869		2434833	55	
	•	9313866		2435052	55	
-	•	9313859		2433262	55	
	•	8841968		380038	55	
	•	8841947		380303	55	
		8841929		388175	5S	
	-	8841918		389364	55	

## 12. CONTROLLING A METER TEST BOARD REMOTELY

TDM provides the ability to control and run tests on supported **Meter Test Boards** over the network. This functionality is available through the **NextGen Testing** interface.

To begin, click "NextGen Testing" from the sidebar, then click "Manual Test".

**IMPORTANT NOTE**: This option will only be available if **"Meter Test Boards"** is/was selected under **Supported Devices** in the **Preferences** popup. If you don't see it, Refer to section **5.1**, Setting Up Supported Devices.



## 12.1 Selecting a Meter Test Board to control

On the Manual Test screen, click **Select Device** to open the device selector.

🕵 TESCO Device Manager - v2.1.0r	
File Edit Management Help	
📟 Devices	SEQUENCE DRIVE/UNIT TESTING
🗐 Database 🗸 🗸	NEXTGEN DEVICE
🗐 NextGen Testing 🔺	SELECT DEVICE EDIT Meter SN:
🗃 Bulk Test	Form: Base: 5
ାର୍ଥ୍ୟ Manual Test	Kh: 0.000 🛨 Kt: 0.000
	TA: 0.00 😤 Class: 10
	Acc. Class: 0.1 🔻 Voltage: 69

The popup will display any Meter Test Boards currently discovered on the network.

o If the device does not appear, return to the **Devices** page and perform a network scan.

🤮 Add Device	5		$\times$
	Select devices to include:		
Search:			)
			-
	Device Serial: 00000279 IP Adress: 10.20.11.165		
	Device: DTS-2990		
		DO	NE

Select the desired device.

😤 Add Devices				×
_	Select devices to include:			_
Search:				]
De	vice Serial: 00000279			
U	IP Adress: 10.20.11.165 Device: DTS-2990			
			DO	NE
Click **Done** to close the popup.

Add Devices			×
	Select devices to include:		
Search:			]
Dev	vice Serial: 00000279 IP Adress: 10.20.11.165 Device: DTS-2990		
		DC	INE

## 12.2 Setting Meter information & Service

On the Manual Test screen, click **Drive/Unit Testing** above the **NextGen Device** ribbon.

ESCO Device Manager - v0.1.0+ Fig. Edit Monagament Halp	- 0
🖵 Devices	SEQUENCE DRIVE JUNIT TESTING
🗐 Database 🗸 🗸	NEXTGEN DEVICE METER INFO
E NextGen Testing A	STATE TRAVISE (1000-2000) (nontrave)         D.E.         FORT:         V         Base:         V           Promo:         Promo:         V         Base:         V
	SEQUENCE PARAMETERS
	Service: (-NITS, VI)e  Test Flason: VOLTAGE ON PULSE ALIGN Security: (EFMULT SEQ IF, IL, IF ACOLAR) Ver Notes LOAD ON START SEQUENCE
	Tric:         STALL:           STALL:         STALL:           VMT:         VMT:
	SEQUENCE RESULTS
	Index Load Took PacoFall Wer Parom

Under the **Meter Info** ribbon, set the **Meter Form** based on the meter currently installed in the socket on the Meter Test Board.

😤 TESCO Device Manager - v	/2.1. <b>đ</b> r						
File Edit Management	Help						
Devices		SEQUENCE I	DRIVE/UNIT TES	STING			
🛢 Database	~	NE	XTGEN DEVICE				MET
🗐 NextGen Testing	^	SELECT DE	VICE		EDIT Meter SN: 0993	36600	
🔠 Bulk Test		DTS-2990	IDLE	:	Form: 9 🗸 🗸	) Base: S 🔻	
ାର୍ଥ୍ୟ Manual Test		(Series Parallel) (Test Board)			Kh: 1.800 🚊		VETER D
		(100 000 0)			TA: 2.50 🛨		
					Acc. Class: 1.0 🔻	) Voltage: [120 ▼	
						DRIVE SETUP	,
			RMS	PHASE	WAVEFORM	Service: 4-Wire, Wye	
		VA	120.000 🛨 🛛	0.000*	SINUSOIDAL 🔻	<u> </u>	
		VB	120.000 🗮	0.000	) 🗄 SINJSOIDAL 🛛 🔻		
		VC	120.000		🗧 🗄 SINUSOIDAL 🛛 🔻		

In the Drive Setup ribbon, use the Service dropdown to select the appropriate service for the test.



## **12.3** Turning the Voltage and/or Current ON/OFF

The **Drive/Unit** tab in Manual Test displays waveform setup fields for voltage, current, and phase. These fields may be edited to generate custom waveforms as needed.

🞇 TESCO Device Manager -	v2.1.0r						
File Edit Management	Help						
Devices		SEQUENCE	DRIVE/UNIT TES	TING			
🛢 Database	~	NE	XTGEN DEVICE				
🗐 NextGen Testing	^	SELECT DE	VICE		EDIT	1eter SN: 09	936600
Bulk Test		DTS-2990	IDLE	:	Form:		Base: S
ඏ <mark>ඬ</mark> _ Manual Test		(Series Parallel) (Test Board)					+ Kt: 1.800
							Voltage: 120
							DRIVE
			RMS	PHAS			Service: 4-Wire, W
		VA VB	120.000 ÷	0.000			
		VC	120.000	0.000			
		IA	2.500 🕂	0.000	n 🕂 SINUSOII	DAL 🔻	VOLTAGE ON
		IB	2.500 🛨 🗌	0.000	° ÷ SINUSOII	dal 🔻	LOAD ON
		IC	2.500 ᅻ 🗌	0.000	🖭 🕂 SINUSOII	dal 🔻	LOAD ON
							TEST PAP
		Test	Type Pul				Iterations Measure Type:
		MotorAccura	acu 🔍 🚺 1	÷lío	n:00:00 🗎 🗌	0.50% 🕂	[1 ÷] [wh ▼

Click **Voltage On** to activate the voltage channels. Once turned on, the button will change to **Voltage Off**, which can be clicked to turn voltage off.

🗟 TESCO Device Manager - v2."	Or					
File Edit Management He						
Devices	SEQUENCI	E DRIVE/UNIT TE	STING			
🛢 Database 💊	1	NEXTGEN DEVICE				ME
🗐 NextGen Testing 🔺	SELECT	DEVICE		EDIT Meter SN:	09936600	
all Bulk Test	DTS-2990		.E	Form: 9	Base: S	5 (
මඹු Manual Test	(Series Parallel (Test Board)	)		Kh: 1.800	<u>+</u> Kt: 1.800 -	METER
	(Test board)			TA: 2.50	🛨 Class: 20 🔹	
				Acc. Class: 1.0	Voltage: 120	·
					DRIVE SET	JP
		RMS	PHASE	WAVEFORM		
	VA	120.000 🛨	0.000	SINUSOIDAL 🔹	<b>·</b> ]	
	VB	120.000	0.000	° 🚍 SINUSOIDAL 🛛 🤊		
	VC	120.000 🗧	0.000	° 🕂 SINUSOIDAL 🖪		
	IA	2.500 🛨	0.000	° 🛨 SINUSOIDAL 🖪	<b>VOLTAGE ON</b>	
	IB	2.500 🛨	0.000	sinusoidal 🥆		
	IB IC	2.500 ÷	0.000		LOAD ON PUL	SE ALIG

Click **Load On** to activate the current channels. Once active, the button will change to **Load Off**, which can be clicked to disable the current output.

😤 TESCO Device Manager - v2.1.0r					
File Edit Management Help					
Devices	SEQUENCE	DRIVE/UNIT TESTIN	NG		
🛢 Database 🗸 🗸	NE	XTGEN DEVICE			ME1
🗊 NextGen Testing 🔺	SELECT DE	VICE		EDIT Meter SN:	09936600
📲 🗊 Bulk Test	DTS-2990	IDLE		Form: 9	👻 Base: S 👻 🎴
⊖ <u>₿</u> Manual Test	00000279 (Series Parallel)			Kh: 1.800	+ Kt: 1.800 + METER I
	(Test Board)			TA: 2.50	Class: 20
				Acc. Class: 1.0	▼ Voltage: 120 ▼
					DRIVE SETUP
			PHASE		Service: (4-Wire, Wye
	VA		0.000° 0.000°		
	VC		0.000*		$\overline{\mathbf{v}}$
	IA		0.000°		
	IB (	2.500 🛨 🚺	0.000°	SINUSOIDAL '	
	IB IC		0.000° 0.000°		LOAD ON ULSE ALIGN
					LOAD ON ULSE ALIGN TEST PARAMETERS
	IC		0.000° W		TEST PARAMETERS

Click **Pulse Align (P.A.)** to begin detecting pulses from the connected meter. The button text will change to **Stop P.A.**, which can be clicked to stop pulse detection and turn off the current channels.

😸 TESCO Device Manager - v2	1.0r								
File Edit Management H	dp								
Devices	SEQU	ENCE D	RIVE/UNIT TES	TING					
🖨 Database ,	·	NEX	TGEN DEVICE						METER INFO
🗐 NextGen Testing	SEL	ECT DEV	/ICE			DIT Meter SN	: 09936	5600	
📲 Bulk Test	DTS-	2990	IDLE			Form: 9	-	Base: S 🗸 🗸	
මඹ Manual Test	(Series I (Test Bo	Parallel)				Kh: 1.800 TA: 2.50	÷	Kt: 1.800 📫	METER INSERTED
					Ac	c. Class: 1.0	<b>_</b>	Voltage: 120 💌	
								DRIVE SETU	P
			RMS	PHASE	<u> </u>	WAVEFORM	_	Service: 4-Wire, Wye	▼
	· · · · ·	/A	120.000 🛨 🗌			SINUSOIDAL	<u> </u>		
		/B	120.000 ≑			SINUSOIDAL	<b>_</b>		
		/C	120.000 🔫	0.000		SINUSOIDAL	-		
		A	2.500 主	0.000	٠÷	SINUSOIDAL	•	VOLTAGE ON	
		в	2.500 🛨 🤇	0.000	٠÷	SINUSOIDAL	•	LOAD ON PULS	EALIGN
		c	2.500 🛨	0.000	٠÷	SINUSOIDAL	<b>-</b>	LOAD ON PULS	EALIGN
								TEST PARAMET	ERS
		Test 1	ype Pul	ses	Narm		ie Ite	rations Measure Type:	

Tip: Use these controls to simulate test conditions in real time without running a full test sequence.

# 13. RUNNING A SINGLE TEST ON A METER TEST BOARD

To perform a single test using a Meter Test Board, begin by navigating to the **Manual Test** page in TDM.

#### **Step-by-Step Instructions:**

- 1. Click the **Drive/Unit Testing** tab.
- 2. Select the Meter Test Board that will run the test.
- 3. Enter the appropriate **meter information** and select the **service**.
- 4. Define the **target waveform** using the available voltage, current, and phase settings.



#### Test Setup:

- In the **Test Parameters** section, select the desired test type and update its parameters as needed.
- Click **Start Test** to begin the test.

IA         2.500 ÷}         0.000° ÷         SINLSCIDAL ▼         VOLTAGE ON           IB         2.500 ÷         0.000° ÷         SINLSCIDAL ▼         LOAD ON         PULSE ALIGN           TC         2.500 ÷         0.000° ÷         SINLSCIDAL ▼         LOAD ON         PULSE ALIGN	PHS         IMUEDIM         Servet         (-Wrin, Wye         •           120.000         Imutediate         Servet         (-Wrin, Wye         •
TEST PARAVETERS         Test type       Putes       warm up       toerance       terators       reasure type:         Meter Accuracy       1 ± 00:00.00 ÷ 0.50% ÷ 1 ± Wh       Wh       START1	10000 1 0000 1 0000 1 0 00000 1 0 00000 1 0 00000 1 0 00000 1 0 00000 1 0 00000 1 0 00000 1 0 00000 1 0 000000
Legend:	Dep Fulce Warm LE Tolerance Itamer Manual FIESE PARAMETERS y ▼ 1 2 02 00 00 1 0.30% 1 2 9/m ▼ START TEST

#### Monitoring and Results:

• While the test is in progress, real-time information will be displayed in the **Active Test Info** section.

Service: 4-Wire, Wy	e	▼ Test Reason:	MANUAL TEST	
Sequence: DEFAULT S		User Notes:		
				ACTIVE TES
TAG: ADV / ACTUAL	ACC STAT REMAINING	TUS: Stal	oilizing WHrs: 0.000	SKIP
ulses: () (				
rulses: () (				SEQUENCE F

Upon completion, a summary of the results will appear in the Sequence Results section.



**Recommendation**: After completing the full test session, perform a **Quick Sync** to retrieve the test results from the device.

To view the results, refer to the Viewing Results section (9.4) of this manual.

# 14. RUNNING A SEQUENCE ON A METER TEST BOARD

To run a predefined test sequence on a Meter Test Board, navigate to the Manual Test page in TDM.

#### **Step-by-Step Instructions:**

- 1. Click the **Sequence** tab.
- 2. Select the Meter Test Board that will execute the sequence.
- 3. Enter the required **meter information** for the test setup.

😭 TESCO Device Manager - v File Edit Management			
Devices	·	SEQUENCE DRIVE/UNIT TESTING	
🛢 Database	~	NEXTGEN DEVICE	
🗐 NextGen Testing	^	SELECT DEVICE -1	EDIT Meter SN:
📲 🕮 Bulk Test		D15-2990 IDLE	Form: 9 Base: S
<del>ළඹු</del> Manual Test		(Series Parallel) (Test Board)	Kh: 1.800 ↔ Kt: 1.800 ↔ METER INSERTED
			Acc. Class: 1.0 Voltage: [120 V
			SEQUENCE PARAM
		Service: 4-Wire, Wye	Test Reason:
		Sequence: DEFAULT SEQ FL, LL, PF A	

### Sequence Configuration:

• In the **Sequence Parameters** section, choose the appropriate **service** and **sequence** to be run on the selected device.

en Testing 🖍 c Test nual Test	SELECT DEVICE DTS-2990 IDLE 00000279 Genes Farakel (Text Board)	EDIT Meter SN: Form: 9 • Kh: 1.800 ÷ TA: 2.50 ÷ Acc. Class: 1.0 •	Base: S ▼ Kt: 1.800 ÷ Class: 20 ▼ Voltage: 120 ▼
			SEQUENCE PARAMETERS
	Service: 4-Wire, Wye Sequence: DEFAULT SEQ FL, LL, PF A	Fest Reason:	VOLTAGE ON PU
	NEW ED		LOAD ON STAR
			ACTIVE TEST INFO

#### **Running the Sequence:**

• Click **Start Sequence** to begin executing the test sequence on the Meter Test Board.

TESCO Device Manager - v2.1.0r File Edit Management Help		
🚍 Devices	SEQUENCE DRIVE/UNIT TESTING	
🗄 Database 🗸 🗸	NEXTGEN DEVICE	METER INFO
🗐 NextGen Testing 🔺	SELECT DEVICE	EDIT Meter SN:
🗃 🗐 Bulk Test	DTS-2990 IDLE	Form: 9 V Base: S V
〇圓_ Manual Test	(Series Parallel) (Test Board)	Kh: 1.800 ÷ Kt: 1.800 ÷ METER INSERTED
	(	TA: 2.50   Class: 20   Acc. Class: 1.0   Voltage: 120   Voltage: 120
		SEQUENCE PARAMETERS
	Service: 4-Wire, Wye	Test Reason:     VOLTAGE ON     PULSE ALIGN
	Sequence: DEFAULT SEQ FL, LL, PF A	
	NEW ED	IT LOAD ON START SEQUENCE
		ACTIVE TEST INFO
	TAG:	STATUS:

#### Monitoring and Results:

• Real-time details of the active test will be shown in the Active Test Info section.

∕lanager - v agernent							
		SEQUENCE DRIVE/UNI	T TESTING				
	×	NEXTGEN DEV	ICE				METER
Testing	^	SELECT DEVICE		EDIT Meter SN:	09936600		
fest		DTS-2990 St	EQUENCE	Form: 9	Base: S	<u> </u>	
al Test		(Series Parallel) (Test Board)		Kh: 1.800		800 🚊 METER	INSERTED
		(ICA DOLLA)		TA: 2.50			
				Acc. Class: 1.0	Voltage: 12	20 🔻	
						SEQUEN	ICE PARAMETERS
		Service: 4-Wire, Wye		▼ Test Reason:			VOLTAGE OFF
		Sequence: DEFAULT SE	Q FL, LL, PF ACCL	User Notes:			
		NEW	EDIT				LOAD OFF
		14200					
						ACTI	IVE TEST INFO
		TAG: FL ACI ACTUAL	CS REMAINING	TATUS: Stab	ilzing WHrs:	SKIP TEST	
		Pulses: 0	5		0.000		
						SEQU	ENCE RESULTS
		Index	Load	Test	Pass/Fail	%Err	Param

• Once completed, a summary of the sequence will appear in the **Sequence Results** section.

TAG:			TATUS:	ACTIVE TEST INFO						
Pulses:			TATUS.	WHrs:	PRINT RESULTS					
					S	EQUENCE RESULTS				
	Index	Load	Test	Pass/Fail	%Err	Param				
1	1-1	FL	MeterAccuracy	FAIL	12.785%	5 pulses				
2	2-1	LL	MeterAccuracy	PASS	-0.094%	1 pulse				
3	3-1	PF	MeterAccuracy	PASS	-0.068%	3 pulses				
4 W	eighted AVG			FAIL	7.638%					
6		AF	AL							
7	FL	12.785%	12.785%							
8	LL	-0.094%	-0.094%							
9	PF	-0.068%	-0.068%							

**Recommendation**: After the sequence has finished, perform a **Quick Sync** to retrieve test results from the device.

For instructions on how to view test results, refer to the Viewing Results section (9.4) of this manual.

# 15.TAGS

Tags provide a flexible way to organize and categorize records in TDM, such as Meters, CTs, VTs, Sites, and Chargers. Tags can be managed centrally and applied to items for sorting, filtering, and reference.

# 15.1 Managing tags

To manage tags, click **Tags** under the **Management** menu from the toolbar. This will open the Tag Management popup, displaying all available tags for supported item types.

😤 TESCO	Device Manager - v2.1.1G								
File Edit	Management Help		😭 Tag Management					- 0	×
🖵 Dev	NextGen - Standards Validation		Search:	1					$\Box$
	CAI. 6330 - Huke Calibration	Devices: Meter Test Boards, Knopp Cor	Tag Name	Meters	Cts	Vts	Sites	Chargers	
🖯 Dat	e EVSE - AC Calibration		-	Hetero	0.5		01100	chargers	
🗐 Nex	EVSE - DC Calibration	SCAN FOR DEVICES	-					1	
	Custom Query			3	1			-	
<u>∛</u> ≣∦ Kno	Curtom Evnorte			3					
	custom exports				1	1	1		
	Harmonics Builder		QCCheck	2	1		1		
	VNEX Custom Query Custom Exports		RMA		1		2		
		E - AC Calibration E - DC Calibration SCAN FOR DEVICES Immonics Builder Builts		- 1	of 1 🗕	A	2 3 4 Id Rename Dele	_	

Available options include:

- 1. **Search**: Use the search bar to filter tags by keyword.
- 2. Add a Tag: Click the Add button in the lower-right corner to create a new tag.
- 3. Rename a Tag: Select a tag and click Rename to update its name.
- 4. **Delete a Tag**: Select a tag and click **Delete** to remove it from the system.

**Note**: Tag names must be unique and cannot be reused after deletion.

## 15.2 Using tags

Currently, tags can be applied and managed on the **Database > Items** page found on the sidebar menu.

# 15.2.1 Assigning a tag to an item

To assign an existing tag to an item:

• Click the "+" button on the leftmost side of the item's row.

E TESCO Device Manager - v2								
File Edit Management H		ITEM	SEARCH					
Database  Database   Database   Database    Database    Database    Database    Database    Database    Database     Database      Database      Database		Meters  ADD NEW	MATCH EXACT					
E Test Results		TAGS	Met	Utility Serial				
NextGen Testing	~		met TMPMTR-30578					
E Knopp Testing		+ v QCCheck X		1904 061				
		+ •		50706 5433				
		+ v QCCheck ×		238 12007				
		+ NeedsRecalibration X		12006	55444556786760001			

• Select a tag from the list.

File Edit Management	Help		
开 Devices		ITEM	SEARCH
Database	^	Meters 💌	
E Items		ADD NEW	MATCH EX
3 Sequences			
Test Results		TAGS	
E Import		+ -	
NextGen Testing	~	Add New	
	Ť	EVSE Chargers	TMPMTR-3
🛐 Knopp Testing		ISO Model	
		NeedsRecalibration	
		OutOfTolerance	
		QCCheck	
		RMA	
		+ 🚽 QCCheck 🗙	
		+ VeedsRecalibration X	
		+ _ NeedsRecalibration X	

• A green tag widget will appear in the **Tags** column for that item.

TESCO Device Manager	- v2.1.1G								
File Edit Management	Help								
Devices		ITEM	SEARCH						
Database	^	Meters							
🛱 Items		ADD NEW	MATCH EXACT	Tags:					
Sequences									
Test Results		TAGS	Met	Utility Serial					
🗲 Import		+ 🗸	me						
NextGen Testing	~	+ •	met						
Knopp Testing		+ -	TMPMTR-3057800424911618984						
E Knopp lesting		+ QCCheck X	T-1	1904					
		+ 🗸	9	061					
		+ •	770	60706					
		+ 🗸	676	5433					
		+ - QCCheck X	61	.238					
		+ VeedsRecalibration ×	5020	12007					
		+ _ NeedsRecalibration ×	5020	12006	5544455678676000				
				45					

# 15.2.2 Creating a tag and assigning it to an item

To create and assign a new tag in one step:

• Click the "+" button on the leftmost side of the item's row.

File Edit Manageme	nt Help								
Devices		ITEM	SEARCH						
Database	^	Meters							
🗟 Items		ADD NEW	MATCH EXACT Tags:						
Sequences		<u>د</u>							
🖹 Test Results		TAGS	Meter SN	Utility Serial					
🗲 Import		+ -	meter01						
NextGen Testing	na 🗸		meter 01						
Knopp Testing	-	+ -	TMPMTR-3057800424911618984						
Sal Kilopp lesting		+ 🚽 QCCheck 🛛	T-1904						
		+ 🗸	9061						
		+ 🗸	77060706						
		+ 🗸	6765433						
		+ 🚽 QCCheck 🗴	61238						
		+ _ NeedsRecalibration ×	502012007						
		+ _ NeedsRecalibration X	502012006	554445567867600					
			45						

• Select Add New.

🛞 TESCO Device Manager	v2.1.1G						
File Edit Management	Help						
Devices	~	ITEM Meters	SEARCH				
E Items		ADD NEW	MATCH EXACT Tags:				
<b>æ</b> 3 Sequences <b>∰</b> Test Results		TAGS	Meter SN				
← Import	v	+ _ NeedsRecalibration ×	meter01 meter 01				
Knopp Testing	Ť	EVSE Chargers ISO Model	TMPMTR-305780042491				
		OutOfTolerance QCCheck	T-1904 9061				
		RMA	77060706				
		+ •	6765433				

• Enter the tag name and click **OK**.

🈭 Tag	?	×								
Type Tag Name:										
Lab only										
ОК	Car	ncel								

٠

TESCO Device Manager - v2.1.1G ile Edit Management Help Devices ITEM SEARCH Database Meters ▼ En Items ADD NEW MATCH EXACT Tags: 23 Sequences TAGS Meter SN Test Results meter01 🕂 🚽 Lab Only 🗙 E Import meter 01 (+ \_) NextGen Testing

A green tag widget will be added to the **Tags** column for that item.

## **15.2.3** Removing a tag from an item

To remove a tag from an item:

- Click the "x" icon next to the tag in the Tags column.
- The tag will be removed from that specific item.



## **15.2.4** Filter items using tags

To filter the item list using tags:

- Click Select under the Search section and choose a tag.
- A green tag widget will appear in the tag filter list, and the table will refresh based on the selected filters.

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ADD NEW	MATCH EXACT	Tags:						
4	MATCH EXACT	Tags:						
TAGS						Select	Set from File	
TAGS						Lab C		
	Meter	r SN	Utility Serial	Comm Serial	Meter Form	Ma Needs QCCh	sRecalibration	
Lab Only ×		meter01			25	L		
)	meter				25			
.)	TMPMTR-3057800	)424911618984			95			
QCCheck X				7646668	55	A3	HONEYW	
				50CE5E71	95		154274	
.)	77060	1706			95	SENTINEL	ITRO	
)	67654	433			25			
QCCheck X	6123	38			95	A3	HONEYW	
NeedsRecalibration ×	502012007			KZG502012007DT049B	25	FM 9S (8)	Allian	
NeedaRecalibration ×	502012006		55444556786760001	55444556786760001	95	LG5510	L+G	
)	45	i			45S			
.)	336913	3987	541311		95	CENTRON	ITRO	
)	324564	4268			95	CENTRON	ITRO	
)	32100	090			95	S4XRXR	L+G	
)	30891	.493			95	A3	ELSTE	
)	30130	071			95	RXR	L&G	
)	17924	738			95	S4XRXR	L+G	
)	159	9	357	245	95	RXR	L&G	
NeedsRecalibration ×	15695	065			95	A3	HONEYW	
	ACCheck	TMPMTR-3057800           GCOheck         T-19           906         906           6765-         6765-           600-         6725-           600-         60201           Readshorthan         502011           Readshorthan         502011           100-         336911           335911         3456-           32100         33891           30891         30130           17924         1551	TMPMTR-3057800424911618984           cocheck         T-1904           9061         9061           977060706         6765433           cocheck         61238           textdidecalibration         502012007           textdidecalibration         502012006           cochattecalibration         336913987           3245642688         3210090           30891493         30130071           17924738         159	TMPMTR-3057800424911618984           CCOlect         T-1904           9061         -           77060706         -           6755433         -           6755433         -           6755433         -           6755433         -           6755433         -           6755433         -           6755433         -           6755433         -           6750212007         -           6405         -           70047062         -           70047062         -           70047062         -           70047062         -           70047062         -           70047062         -           70047062         -           70047062         -           70047062         -           70470627         -           70470627         -           70487         -           70497         -           70497         -           70497         -           70497         -           70497         -           70497         -           70497 </td <td>TMPMTR-3057800424911618984         7646668           T-1904         7646668           9061         50CE5271           07060706         50CE5271           6765433         675433           66765433         K26502012007           6765433         K26502012007DT049B           670404ce30mde1         500012006           5544556786760001         55444556786760001           45         541311           336913987         541311           324564268         64           33081493         64           30130071         64           17924738         64           159         357</td> <td>TMPMTR-3057800424911618984         98           CCCMCN         T-1904         7646668         55           9061         50CE5E71         98           CCCMCN         6755433         50         95           6755433         6755433         98         95           CCCMCN         6755433         98         95           CCCMCN         502012007         KZG502012007DT0498         95           CCCMCN         502012006         55444556786760001         95           CCCMCN         502012006         55444556786760001         95           CCCMCN         455         6455         455           336913987         541311         95         95           324564268         95         95         95           33081493         95         95         95           30130071         95         95         95           17924738         357         245         95</td> <td>TMPMTR-3057800424911618984         95         95           CGCMAX         T-1904         7646668         55         A3           9061         50CE5E71         95         S4XRXR           77060706         95         S4XRXR           6765433         61238         95         A3           CCCMAX         61238         95         A3           CCCMAX         502012007         KZG502012007D10498         25         FM 95 (8)           CCCMAX         502012006         55444556786760001         55444556786760001         95         LG5510           45         502012006         55444556786760001         95         CENTRON           336913987         541311         95         CENTRON           324564268         95         A3         CENTRON           3210090         210090         95         A3           1         3089193         95         A3           30130071         95         A3         A3           17924738         95         SXRXR           159         357         245         95         RXR</td>	TMPMTR-3057800424911618984         7646668           T-1904         7646668           9061         50CE5271           07060706         50CE5271           6765433         675433           66765433         K26502012007           6765433         K26502012007DT049B           670404ce30mde1         500012006           5544556786760001         55444556786760001           45         541311           336913987         541311           324564268         64           33081493         64           30130071         64           17924738         64           159         357	TMPMTR-3057800424911618984         98           CCCMCN         T-1904         7646668         55           9061         50CE5E71         98           CCCMCN         6755433         50         95           6755433         6755433         98         95           CCCMCN         6755433         98         95           CCCMCN         502012007         KZG502012007DT0498         95           CCCMCN         502012006         55444556786760001         95           CCCMCN         502012006         55444556786760001         95           CCCMCN         455         6455         455           336913987         541311         95         95           324564268         95         95         95           33081493         95         95         95           30130071         95         95         95           17924738         357         245         95	TMPMTR-3057800424911618984         95         95           CGCMAX         T-1904         7646668         55         A3           9061         50CE5E71         95         S4XRXR           77060706         95         S4XRXR           6765433         61238         95         A3           CCCMAX         61238         95         A3           CCCMAX         502012007         KZG502012007D10498         25         FM 95 (8)           CCCMAX         502012006         55444556786760001         55444556786760001         95         LG5510           45         502012006         55444556786760001         95         CENTRON           336913987         541311         95         CENTRON           324564268         95         A3         CENTRON           3210090         210090         95         A3           1         3089193         95         A3           30130071         95         A3         A3           17924738         95         SXRXR           159         357         245         95         RXR	

😫 TESCO Device Manager - v2.1.1G										- 0	ı x
File Edit Management Help											
🖵 Devices	ITEM	SEARCH									
🖨 Database 🖍	Meters										
🕄 Items	ADD NEW	MATCH EXAC	Tags: Lab 0	nly X					Select 🖕	Set from	file
Sequences											
E Test Results	TAGS	Meter SN U	Jtility Serial	Comm Serial	Meter Form	Model	Manufacturer	Demand Capable	Kh / K	t TA	Clas
🗲 Import	+ 🚽 Lab Only 🗙	meter01			25			No	7.2/7.2	2 30.0	200
🛐 NextGen Testing 🗸											
Knopp Testing											

To remove a tag filter:

• Click the "x" icon next to the tag in the **Search** section.

ESCO Device Manager - v2.1.1G										- 0	) X
File Edit Management Help											
Devices	ITEM	SEARCH									
😫 Database 🖍	Meters										
🗟 Items	ADD NEW	MATCH EXA	MATCH EXACT Tags: Lab of X								n file
Sequences	4										
E Test Results	TAGS	Meter SN	Utility Serial	Comm Serial	Meter Form	Model	Manufacturer	Demand Capable	Kh /	Kt TA	Clas
✓ Import	+ 🚽 Lab Only 🗙	meter01			25			No	7.2/7	.2 30.0	200
🗐 NextGen Testing 😈											

• The table will refresh automatically based on the remaining filters.

# **16. CREATING/EDITING CUSTOM EXPORT SCRIPTS**

TDM allows users to build **Custom Export Scripts** to generate report files in formats that meet specific organizational or third-party requirements from selected records in either the **Database Items** or **Database Test Results page**.

TESCO Device Manager - v2.1.1G							
File Edit Management Help							
Devices	ITEM	SEARCH					
🛢 Database 🖍	Meters						
🔁 items	ADD NEW	MATCH EXACT Tags:					
3 Sequences			1				
E Test Results	TAGS	Meter SN	Utility Serial	Comm Serial	Meter Form	Model	Manufacture
🗲 Import	+ 🚽 Lab Only 🗙	meter01			25		
🗐 NextGen Testing 🗸	+ 🗸	meter 01			25		
という 説 Knopp Testing	+ 🗸	TMPMTR-3057800424911618984			95		
	+ 🚽 QCCheck 🗙	T-1904		7646668	<b>5</b> S	A3	HONEYWELL
	+ 🗸	9061		50CE5E71	95	S4XRXR	154274542
	+ 🗸	77060706			95	SENTINEL	ITRON
	+ 🗸	6765433			25		
	+ 🚽 QCCheck 🗙	61238			95	A3	HONEYWELL
	+ - NeedsRecalibration X	502012007		KZG502012007DT049	Delete	FM 9S (8)	Alliant
	+  NeedsRecalibration ×	502012006	55444556786760001	5544455678676000	Custom Export	LG5510	L+G
	+ 🗸	45			45S		

Figure 1. Performing Custom Export via Database Items table record selection

These scripts are made up of two main components: a **SQL query**, which defines the data to be retrieved, and a **Regular Expression**, which formats the output.

In most cases, users will only need to define the **SQL** portion, as the regular expression can be kept simple for standard formats.

To create a new custom export script:

- Click Custom Export under the Management menu.
- Click **Add** to create a new script.
- Enter a **name** for the script and proceed to define its components.

## 16.1 SQL query

- From the **Select Target Data** dropdown, choose the database table where the *Custom Export* will be usable. Click **DB Schema** to open a reference diagram showing the structure and relationships of available tables.
- The Input parameter represents the type of data that can be extracted from the Target Data. It can either be \${serials}, representing the comma-separated list of serial numbers of the selected rows (see Figure 1) or \${resultKeys}, representing the comma-separated list of result keys for test results. NOTE: The Input parameter should be used in the SQL query.

• Input your **SQL query** with the applicable **Input parameter**. As an example, below is a query with *Meter* table as the **Target Data** using the **\${serials} Input parameter**:

```
SELECT meterSerial, meterForm FROM Meter WHERE meterSerial IN
(${serials})
```

Upon query execution, the **\${serials}** parameter will be substituted by the selected serial numbers. As an example, using *Figure 1* selections, the *final query* will be

```
SELECT meterSerial, meterForm FROM Meter WHERE meterSerial IN
('meter02', 'meter01', 'meter02', 'meter01', '6789', '43t aef')
```

• For easy representation, the query result is converted into a comma-separated value (CSV format). This is important to keep in mind when extracting and formatting the final output using **Regular Expressions**.

**Note**: Ensure your SQL query returns data in a format compatible with your export needs. Advanced users may incorporate JOINs, filters, and aliases as required.

Note: Only SELECT (read-only) queries are allowed

# 16.2 Regular Expression

Regular Expression can be used to extract (*capture*) data from the CSV data of the SQL query, and to rearrange them freely.

### Suggested Steps:

- 1. After entering your SQL query, click Next button.
- 2. You may tick **Include Headers from CSV Results** checkbox if you want to include query columns from the CSV data.
- 3. Click Add RegEx button to add as many *regular expression* definitions as necessary.

**RegEx** field: This is the actual *regular expression*. At least one *capture* should be included in the expression.

**Format** field: This is the format of the exported data using the *regular expression* captures. *Captures* are represented by **\${1}** for *capture 1*, **\${2}** for *capture 2*, so on and so forth.

**Description** field: This is the description of the *regular expression*, the *format*, or anything that relates to the *regular expression* definition. This field is *optional*.

As an example, below is *regular expression* definition that includes the CSV Header from the example query above and the resulting export output:

## SQL Result (CSV-formatted):

meterSerial,meterForm

```
meter02,2
meter01,2
:
43t aef,9
Regular Expression Definition:
RegEx: ^(.*),(.*)$
Format: ${2}:${1}
Description: Extract 2 data between commas, reverse order and join them with a colon
```

```
Export Output:
```

```
meterForm:meterSerial
2:meter02
2:meter01
:
9:43t aef
```

NOTE: For Custom Exports with more than one *regular expression* definitions, the output of the first will be fed to the next one and so on and so forth until the last definition is performed.

NOTE: All Regular Expression should follow the Perl-compatible format.

## 16.3 File name and file format

This section determines how the exported file will be named and what format it will use when saved.

### Suggested Steps:

- In the Filename Format text field, type the desired file name format which can include *fixed* and generated sections. To include a generated data like date/timestamp in the filename, the <DateTimeStamp> placeholder can be used. See *Filename Format Parameters* section for a list of available generated data with their corresponding descriptions.
- 2. In the **File Extension** text field, type the desired file extension (without the dot). This can be any known extension like **csv**, **json** or a custom one like **dat**.

```
As an example, the following Filename Format value of

Exportedby_<username>_on_<DateTimeStamp>

with a File Extension of

frt

will yield a file

Exportedby_TESCO_on_20250407_160817.frt

assuming that the logged in username is TESCO and the export was generated on April 7<sup>th</sup>, 2025, at
```

```
04:08:17 pm.
```

## **16.4 Output Directory**

This section sets the location where the Custom Export file will be saved. By default, it will use the **Export Path** in the Preferences if left unchanged.

# **17. CUSTOM SQL QUERIES**

## 17.1 Creating Custom SQL queries

This feature allows users to define ad-hoc SQL queries to extract data from the TDM database for analysis, validation, or custom reporting.

### Suggested Steps:

- 1. Navigate to Management > Custom SQL.
- 2. Click Add Query and enter a name for your custom query.
- 3. Enter your SQL query in the editor field.

**Query Parameters** can be inserted anywhere in the SQL query to allow input of query details through a popup. This is useful to make the query more flexible.

As an example, below is a query that searches for specific records from the **Meter** table based off a meter serial list using the query parameter **\${Meter Serials}** to get that list from the user.

```
SELECT * from Meter where meterSerial IN (${Meter Serials})
```

😫 Custom Parameters	×
Please input the values for the following query parameter(s):	
Meter Serials: ('abc'	
Cancel	Run Proceed

The query parameter value is then substituted to the original query making it SELECT \* from Meter where meterSerial IN (**'abc'**)

4. Click **PROCEED** to store the query for future use.

Note: Use the DB Schema button to view available fields and relationships between tables.

## **17.2** Running Custom SQL queries

To execute a previously created custom query:

- 1. Navigate to Management > Custom SQL.
- 2. Select the desired query from the list.
- 3. Click **Run** to execute the SQL command.
- 4. Results will be displayed in a table format within the interface.

**Optional**: Export the query results using the **Export to CSV** button.

# **18. CHANGELOG**

This section provides a detailed record of manual revisions, including software updates, procedural adjustments, and any other relevant information you may want to track.

Date	Author	Log
1/17/2025	MD	Updated to keep up with TDM version 2.1.0r
-		
-		
-		
-		
-		
-		
-		
-		

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# **19. TECHNICAL SUPPORT**

### **Technical Support Contact Information:**

For any technical issues, questions about TDM, you can reach TESCO through the following:

• Phone (Technical Support): +1 (215) 228-0500

This is TESCO's main support line.

Hours of operation are Monday – Friday, 7:00 AM – 6:00 PM (Eastern Standard Time).

• Email: support@tescometering.com

Email is great for non-urgent inquiries or to send a detailed description of an issue (even screenshots). TESCO's support team monitors this address and typically responds within one business day.

When contacting support, always provide the following information to ensure efficient assistance:

- The current firmware or software version, if known
- A concise description of the issue, including any error codes and/or system behavior.

### Thank you for your patronage, we look forward to working with you!

### -The TESCO Team