



TMT Fleet Maintenance/Service Center

2022 Release Notes

2/2023

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TMT Fleet Maintenance/Service Center 2022 Release Notes

This document contains information on the latest version, including:

- Enhancements (new or updated features)
- Resolved issues (application improvements)

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General information

Releases are presented in reverse chronological order. The most recent release is listed first.

Note: All information in this section applies to all 2022 releases except where noted.

Warnings

PLEASE READ BEFORE UPGRADING

Starting with V.2022.2, the AMSLIC (license) database has been merged with the TMWAMS (TMT) database. The installer now works with the new merged database alone.

Existing customers must:

- Run the provided installer migration script to copy all the data from their AMSLIC database to the TMT database.
- Perform the upgrade using this merged TMT database. The AMSLIC database will become an invalid input in the SQL setup page of the installer.

After doing an upgrade, the web.config file should only have a TMT database, so that the application will launch without issues. The web.config file will still have two database connect entries, as they exist today, but both will refer to the same database.

New customers with a fresh database do *not* need to run the installer migration script. They can install the program using the TMT database alone.

Warning: *If you are currently using an older Client-Server version, you must upgrade to at least V.2019.4 before running the merger script to upgrade to V.2022.2.*

Important information, please read

▪ SQL Server Cardinality

Changes to SQL Server cardinality are affecting the performance of TMT Web. The issue happens when SQL Server compatibility mode is set to 120 or greater. This has been identified through Trimble benchmarking and customer feedback.

At this time, Trimble recommends that you set the SQL Server option for **Legacy Cardinality Estimation** to *ON*. This will lessen the effects of the new SQL Server cardinality behavior, which still needs further assessment/improvements in TMT Web.

▪ Trimble Technician Portal (TTP) single sign-on (SSO)

- If you will be using TTP SSO, you *must* allow pop-up windows. You cannot block them. This applies to Apple and Android phones and tablets. If you block pop-up windows, SSO will not work correctly.

Follow the directions for your tablet and browser to allow pop-up windows.

- If you have issues with TTP after upgrading, you may need to clear your browser cache. Close the TTP application and follow the directions for your browser to clear the cache.
- If you have bookmarked a TTP URL that has a version number, such as 21-3, you should delete that bookmark. Use and bookmark this URL instead: <https://tmt-tp.trimble-transportation.com/>
- TMT Client-Server (Delphi) 2019.4.1 or any earlier version **cannot be used** with TMT Fleet Maintenance 2022.1 or later. **Do not upgrade unless you are ready to go to TMT Web only.**
- Customers using both Integration Options and Windows Authentication should set up their systems so that User drop-down lists use the WINUSER value, instead of the USERNAME value.
- This version requires .Net Framework 4.8. See the [hardware requirements](#) for more information.
- Customers who are on versions of TMT Web before 2021.3 may be exposed to a vulnerability documented by one of our third-party software vendors (Telerik). Guidance varies depending on the installed TMT Web version (see below). For information directly from Telerik, please use this link: <https://docs.telerik.com/devtools/aspnet-ajax/knowledge-base/common-allows-javascriptserializer-deserialization>

- **2021.3, 2021.3.2, 2021.3.3, 2022.1, and later**

These versions use an upgraded Telerik version that has patched the vulnerability. No changes are needed.

- **2019.4**

A future service pack will include patched Telerik DLLs. In the meanwhile, remediation is possible via web.config changes.

- **2019.2**

- Remediation possible with web.config changes in this version and higher (2019.2-2021.2.X).

- **Before 2019.2:**

- Remediation is not possible with web.config changes. You must upgrade.
- For Delphi/Web hybrid customers, see 2019.4 section above. For all others, we would suggest you upgrade to the latest version of TMT Web.

Telerik Vulnerability Remediation

Please refer to this link for detailed steps on patching this vulnerability:

<https://docs.telerik.com/devtools/aspnet-ajax/controls/asyncupload/security>

This involves web.config changes, and it can be done without taking an upgrade. However, we strongly encourage you to upgrade to a later version of TMT Web for the greatest level of mitigation.

Note: Before upgrading your production environment, Trimble recommends that you read the hardware requirements and install the latest version in a test environment. If you have questions, please contact your Trimble customer representative.

Changes to hardware requirements

You must be using SQL Server 2016 or later to use TMT Web V.2022.1 or later.

For SQL Server 2016, the minimum compatibility mode is 130. TMT Web will also support modes 140 and 150.

Two files from Microsoft are required for this version:

- SQL Server 2016 CLR Types
- SQL Server 2016 Shared Management Objects

You *must* download and run both files using these links before upgrading to TMT Web V.2022.1:

- SQL Server 2016 SP2 feature pack
<https://www.microsoft.com/en-us/download/details.aspx?id=56833>
- SQL Server 2016 SP3 feature pack
<https://www.microsoft.com/en-us/download/details.aspx?id=103444>

Warning: *You must not delete the 2008R2 CLR/SMO SQL Server components from any TMT Web environment when installing or upgrading. The installer is still using these components at this time.*

Windows Server and SQL Server upgrades are included in TMT Web software as a service (TMT Web SaaS). For information about upgrading to TMT Web SaaS or other technical questions, contact Dawn Siegel at dawn_siegel@trimble.com.

If you have technical questions, contact TMT Support:

- **Email**
tmtsupport@trimble.com
- **Phone**
800-663-0626. Select option 6, and then option 3.

Windows Server and SQL Server Support

- Windows Server 2012, 2016, and 2019 support SQL Server 2016.
- Windows Server 2022 does not support SQL Server 2016.
- Windows Server 2012, 2016, 2019, and 2022 support SQL Server 2017.
- Windows Server 2016, 2019, and 2022 support SQL Server 2019.
- Windows 2012 does not support SQL Server 2019.

Interactive Workstation replaced by Trimble Technician Portal

Effective with V.2022.3, Trimble has replaced Interactive Workstation (IWS) with Trimble Technician Portal (TTP). Mechanics Workstation (MWS) has also been replaced by TTP. Here are some highlights:

- You can now open TTP from TMT Web.
- All IWS options (Application, Customer, Shop, User, and so on) have been replaced with TTP options.
- References to IWS or MWS throughout TMW Web have been replaced with TTP.

There are some IWS features that will not be available in TTP V.2022.3, but they will be included in future releases. Please contact Support for additional information if you are using any of these features:

- Allow charging more than qty 1 serial/position
- Custom company logo
- Forgot Password
- Inspection Tickets and Quick RO
- Pendings/PMs at RO Create
- Spanish Language Support
- Sticky Note support
- Support for switching shops/restrictions

These IWS features will no longer be available (that is, they will not be included in TTP):

- Gate in/Gate out
- Yard Check

These Release Notes contain more detailed information about this change.

Internet Explorer 11 End of Life

As of June 15, 2022, Microsoft stopped supporting Internet Explorer 11 (IE) for some operating systems. Users affected by the IE end of life can use Microsoft Edge in IE mode. The Edge IE mode supports sites that need IE.

IE is a part of the Windows operating system. As such, Microsoft will provide IE 11 security updates and support for Windows versions on which IE is installed. This will continue as long as Microsoft supports those versions. For more information, see <https://docs.microsoft.com/en-us/lifecycle/faq/internet-explorer-microsoft-edge>.

The end of IE affects Interactive Workstation (IWS) users. IWS users can use Edge in IE Mode or consider switching to Trimble Technician Portal (TTP). For details on TTP, see:

- [The Trimble Technician Portal Setup Guide](#)
- [The Trimble Technician Portal User Guide](#)

Note: You must be logged in to learn.transportation.trimble.com to view the TTP Guides.

TMT Fleet Maintenance V.2022.3.3/V.2022.3.3.C Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

V.2022.3.3 Resolutions

Activities menu

Inquiries > Order Inquiries

- **TMT-318722**

When you send Invoice Detail and batch reports by email, the program correct adds attachments that are part of an order.

Inquiries > Order Inquiries > Invoice tab > Invoice Detail Report

- **TMT- 318641**

The Invoice Detail Report shows all four decimal places for the **QTY** field value, when available. For example, if the value is *12.6533*, the reports show the **QTY** value as *12.6533*. The program also uses four decimals when making calculations.

If the unrounded value is all zeros, such as *12.0000*, the reports truncate the number of decimals to the number the customer has configured for their currency unit of measure (UOM), such as *12.00*.

Database

- **TMT-318777**

You can delete any items off a price table without setting the activecode to NULL in SQL.

Orders menu

Invoice > Invoice Detail Report

- **TMT-318641**

See [TMT-318641](#) under **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

Invoices Listing > Invoice Detail Report

- **TMT-318641**

See [TMT-318641](#) under **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

- **TMT-318722**

See [TMT-318722](#) under **Activities menu > Inquiries > Order Inquiries**.

Purchase Order Listing

- **TMT-318722**

When you send reports by email, the program correct adds attachments that are part of an order.

Repair Order Listing

- **TMT-318722**

When you send reports by email, the program correct adds attachments that are part of an order.

V.2022.3.3.C Enhancements

TravelCenters of America Integration

- **TMT-318384**

The TMT Repair Invoice API evaluates incoming ATA Component Codes. The API checks that the codes are valid and mapped in TMT.

When a Connected Maintenance partner sends an invalid ATA Component Code that is not mapped to a valid TMT Component Code, the API will truncate the Component Code to the System portion of the code (the first three digits of the Component Code) and check to see if the revised code is still valid. If so, the API will use the updated code for sections or lines.

If the Component Code is not valid or mapped, even when shortened, the program rejects the value.

TMT Fleet Maintenance V.2022.3.2/V.2022.3.2.C Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

V.2022.3.2 Enhancements

Product wide

Installer

▪ **TMT-317850**

The installer checks to make sure there is a SYSDBA (system database administrator) user. If there is no such user, the installer creates a SYSDBA user automatically. The installer then assigns that user the sysadmin role and rights.

You can enter another user to access the database. When the installer validates the database, however, it checks to make sure that the user you entered has sysadmin database role rights. If the user does not, the installer displays the error message "Please enter a username that is a sysadmin."

SQL user database mapping is still a manual process, whether the installer creates the SYSDBA user or you enter the user yourself.

Orders menu

Release Order

▪ **TMT-318247**

The Vendor Part Quick Search and Advanced Search now show vendor part records for the **Vendor** and the **Remit To Vendor** when you search and add vendor parts on a vendor repair order (VRO).

This change lets the Vendor Parts Master have part records for a repair vendor and the Remit To vendor. This is useful when the repair vendor and the Remit To vendor are different and may have different pricing for the same part.

Setup menu

Module Licenses

▪ **TMT-318012**

You no longer need a Module license to use these Repair Request modules.

- Decisiv (TMT ServiceConnect)
- TRAVELCENTER (TravelCenters of America)
- MSTS-PACCAR (MSTS-PACCAR)

Trimble has removed the Licensing requirement for these modules. They will always be available to you on the **Integration Options** page.

Options > Integration Options

▪ TMT-318347

For installations with TA multi-instance unit integration, the program checks whether a unit has already been interfaced. The check occurs when the user selects Save. If the unit is already interfaced in an instance of TA, the program a new system message stating that. The user must then make sure that the unit is no longer interfaced in the other instance before they can interface the unit to a different instance.

Note: You interface units and TA using the TMT **Integration Options** page **UNIT XREF** (cross-reference) node.

TravelCenters of America Integration

Orders > Repair Order

▪ TMT-318444

When a user creates a vendor repair order (VRO) using the TravelCenters of America integration, and the Vendor has been added to the order, the program automatically completes the **Remit To Vendor** field. The program automatically completes the **Payment Method** field based on the **Remit To Vendor** value.

Vendor Parts Master

▪ TMT-318377

When TMT imports vendor parts from the TravelCenters of America Integration, the program will check the Vendor Part Master in the VENDORITEM table for a match on either:

- The **Part Number** and **Repair Vendor**
- The **Part Number** and **Remit Vendor**

If the program finds a match for the **Vendor Part Number** or **Remit Vendor** in the VENDORITEM table, the TMT VRO part charge amount will be the **Default Cost** from the VENDORITEM amount. If the program cannot find a match for either the **Repair Vendor** and **Part Number** or the **Remit Vendor** and **Part Number**, the program will add the part data to the Vendor Parts Master.

V.2022.3.2 Resolutions

Activities menu

Accounting > Accounting

▪ TMT-316966

The integration now uses the correct Class source values when exporting accounts receivable (AR).

Accounting > Accounting > Dynamics GP > GL

- **TMT-318375**
 - General ledger (GL) orders return transactions correctly for orders with mixed dates. That is, the program returns orders correctly when line transactions, section dates, and order dates may be different. Now the program retrieves all lines within the order when getting new GL transactions.
 - The program no longer retrieves GL transactions marked "Do Not Post."

Accounting > Accounting > IES > GL

- **TMT-318375**

See [TMT-318367](#) in the **Activities menu > Accounting > Accounting > Dynamics GP > GL**.

Accounting > Accounting > QuickBooks Desktop > GL

- **TMT-318375**

See [TMT-318367](#) in the **Activities menu > Accounting > Accounting > Dynamics GP > GL**.

McLeod Accounting

Batch Export

- **TMT-318375**

See [TMT-318367](#) in the **Activities menu > Accounting > Accounting > Dynamics GP > GL**.

Setup menu

Toolkit > Integration Toolkit Rest

- **TMT-318386**

The GetImagingOrderInfo API now pulls the **Notes** field value from the REFORDERID (that is, the VRO header) instead of the ORDERID.

Options > Integration Options

- **TMT-316966**

The integration now uses the correct Class source values when exporting accounts receivable (AR).

TravelCenters of America Integration

Orders > Repair Order

- **TMT-318061**

You can edit and delete both tax and discount lines on a VRO generated from the TravelCenters of America integration. The program puts the tax and discount lines on Section 0.

V.2022.3.2.C Enhancements

TravelCenters of America Integration

▪ TMT-313850

The **Show Notes History** pop-up window has four new filters:

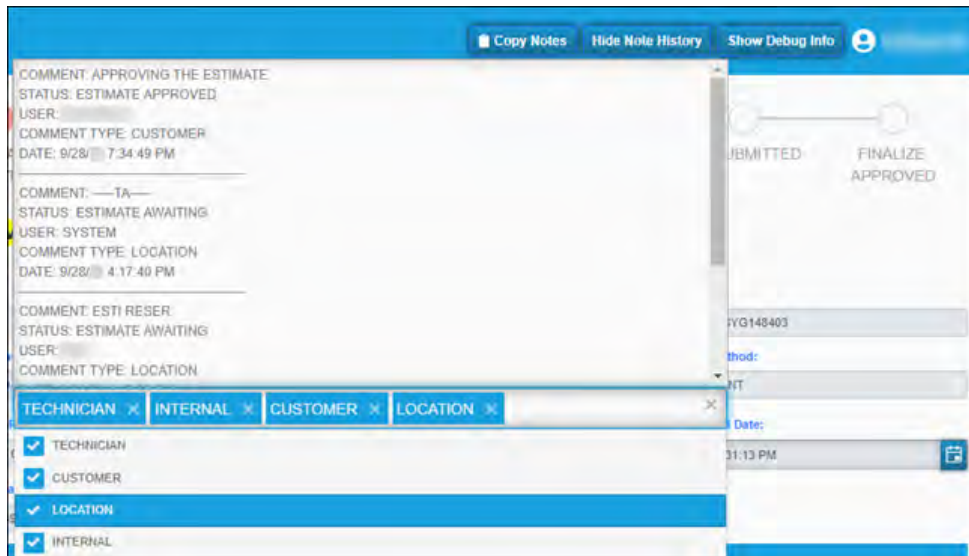
- **Customer**
- **Technician**
- **Location**
- **Internal**

If you clear all the filters, the window shows all notes. You can also select all filters to see all notes. You select one or more filters by selecting them in the filter bar below the window.

The program remembers your filter selections. That is, when you close the **Repair Request** form and reopen it later, the form keeps your previous filters.

You open the **Show Notes History** pop-up window by selecting **Show Notes History** on the **Repair Request** form.

This illustration shows the Show Notes History pop-up window with all filters selected. See how the **Show Notes History** button changes to **Hide Notes History** when the window is open.



▪ TMT-314244

The work order API now includes fields TA needs when receiving an asset not in their system. The fields include the engine manufacturer and make.

▪ TMT-316622

The **Approved** checkmark now automatically display when the work order has been paid out by TA and the status is *Finalized Approved*.

▪ TMT-317421

The **Repair Request** form has a new field: **Associated Unit Number**. The form shows this field if the **Display Associated Unit Field** Integration option is set to *YES* in TMT.

- If the **Associated Unit Number** field has a value on the TMT **Repair Order Detail** page, the **Associated Unit Number** on the **Repair Request** form will match that value.
- If the **Associated Unit Number** is blank on the TMT **Repair Order Detail** page, either the **Associated Unit Number** on the **Repair Request** form will be blank *or* it can show the tractor number that TA sends with the repair details.

▪ TMT-317757

TA can change a payment type on an existing work order until they request the PO. That is, a TA agent can change the payment type while the repair request status is between *Initiate Awaiting* and *Estimate Awaiting*.

When TA changes the **Payment Type**, the integration updates the TMT **Payment Method**. The next time the TMT customer opens the **Repair Request** form, the program alerts the customer that the payment type had been updated.

▪ TMT-317923

Implemented a Repair Request Validation pop-up message in the **Repair Request** form that will list the fields that have been changed in the **Repair Request** form by TA. The user will be notified with a pop-up message the next time the **Repair Request** form is displayed when a field has been changed and displays the Before and After values. The fields that can be changed are **National Account Number**, **Tech Arrival Date**, **Driver Name**, **Driver Phone**, and **Asset Location**.

TMT Fleet Maintenance V.2022.3 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Enhancements

Product wide

Installer

▪ **TMT-307079**

- The TMT database installer has been moved into the main installer of TMT Web.
- You can now choose whether a new installation uses a blank database or a demo database in the installer itself. You can browse and select the location where you want the database files be stored. At the end of the process, the installer creates a new database on the selected SQL server with the selected name.

Note: You can only perform this operation on the SQL server.

- For upgrades, the installer now checks whether the SQL server database has backed up within the last hour. When you click **Test Connection** during the upgrade process, the installer shows an error message if the database restore time is less than one hour. The message states, "Selected Database should be restored an hour prior to its usage." The installer then stops the installation. You cannot proceed.

If the database restore time is more than one hour in the past, the installer allows and continues with the upgrade.

- For upgrades, the installer now checks whether any users are connected to the database. When you click **Test Connection** during the upgrade process, the installer shows an error message if there is an active connection to the database. The message states, "Selected Database is in use by other users." You must make sure all database connections are disconnected to proceed with the upgrade.
- The installer runs the database script (Gorgo) automatically using the latest script during new installations or upgrades of the SQL server.

▪ **TMT-317328**

You can fill out mail settings when you install the program. The installer automatically completes these settings in the Server API web config file. When you upgrade the program or the Server API, the mail settings are also included.

Note: If you manually update either the program or the Server API, the installer will not overwrite those changes.

Installer > SQL Reports

▪ TMT-300087

The installer adds a new type of database user for use in running SQL reports. This new user type can only run and view reports. They cannot change reports. This prevents unwanted changes to SQL reports.

Activities menu

Accounting > Accounting

▪ TMT-314383

You can now turn off inactive account disbursement subrules. The **Account Disbursement Subrule** pop-up window has a new field: **Is Active**. When this option is set to:

▪ YES

The subrule is active, and the program applies it to orders.

▪ NO

The subrule is inactive (turned off). The program does not apply it to orders.

▪ TMT-317635

A new field has been added to the AP tab: **Remit Vendor**. This field applies to vendor repair orders and shows who should be paid for repairs if it is other than the repairing vendor. A column for this field has also been added to the **Save to Excel** options.

Document Viewer

▪ TMT-316318

This menu option and its page have been removed. Due to Microsoft's ending of Silverlight support, TMT no longer supports this function.

Inquiries > Order Inquiries

▪ TMT-316605

The **Order Inquiries** and **Unit Inquiries** pages have a new field: **Data on Load**. The field has two options:

▪ YES (default)

When set to *YES*, the pages load results when they are opened.

▪ NO

When set to *NO*, the pages do not load results until you enter your filter parameters and select **Apply**.

If you have a large amount of data, you may want to set **Data on Load** to *NO* to improve performance.

- **TMT-317420**

The page has a new column: **Associated Unit**. By default, the new column is *not* included. To see the column, click the triangle on the right side of any column header. This opens the **Sort and Columns** menu. Click **Columns** and select **Associated Unit**.

- **TMT-318073**

The **Associated Unit** field shows the associated unit number, not the unit ID.

[Inquiries > Order Inquiries > Invoices Tab](#)

- **TMT-316474**

The **Invoices** tab view has three new columns:

- **Printed**

This column identifies whether an invoice has been printed. The column displays *N* for *NO* and *Y* for *YES*.

- **Emailed?**

This column identifies whether an invoice has been emailed. The column displays *N* for *NO* and *Y* for *YES*.

- **Type Sent**

This column shows what type of invoice email was sent:

- *Draft*

Draft invoice was sent.

- *Original*

Finalized Original Invoice sent. If someone previously sent a draft, the program replaces *Draft* with *Original*.

- *Duplicate*

Duplicate Invoice sent. If someone previously sent a draft and/or an original invoice, the program replaces those values with *Duplicate*.

The **Type Sent** column will be blank if the invoice has not been emailed.

[Inquiries > Unit Inquiries](#)

- **TMT-316393**

See [TMT-316605](#) in the **Activities menu > Inquiries > Order Inquiries**.

[Interactive Workstation > Daily Code Generator](#)

- **TMT-314342**

The Module option name was changed from **Interactive Workstation** to **Technician Portal**.

Parts Workstation

▪ TMT-313417

You can now use the **Delete Request** button to delete a part request within the **Actions** options.

Shop Planner, Shop Scheduler

▪ TMT-313174

Shop Planner and **Shop Scheduler** now automatically refresh the screen to display new results. You set how often the screens refresh using the **Automatically Refresh Scheduler Screen Interval (Minutes)** Application Option. You get to this option by going to **Menu > Setup > Options > Application Options > Scheduler**.

Units > Clone Unit

▪ TMT-313229

The **Clone Attributes** section has two new fields:

- **UDFs?**
- **User Fields?**

When you set **UDFs?** to *YES*, and you select a unit to clone, the program copies the UDF field values from the **Definition** tab of the source unit to the selected destination units.

When you set **User Fields?** to *YES*, and you select a unit to clone, the program copies the user fields values from the last tab on the source unit to the selected destination units.

When you set **Clone All Tabs?** to *YES*, the program includes the settings from the new fields when cloning.

Units > Unit in Inventory

▪ TMT-316318

This menu option and its page now appear only if you have the Production Based Pay module installed.

Asset Inspection Tickets Cloud Solution

▪ TMT-317321

The **Attachment** window has a new button: **Get Previous Attachments**. When you select the button, and if the inspection item has any images that have been attached recently, the program adds those images to the **Attachment** window. If the inspection item does not have any images attached recently, the program shows the message, "No previous image found."

You can also use the **Attachment** window **Upload** button to attach new images specific to inspection items. When you add an image to an inspection item using either **Get Previous Attachments** or

Upload, the program creates a new inspection order with the images attached. Previous inspection items are not affected by the images of recent inspection orders.

ConfigurationHub

DVIR > EFS-DVIR > General

▪ TMT-316911

The page has a new field: **DVIR Failures Only**. The field has two options:

▪ YES

If you set the field to *YES*, the program only sends DVIRs when repairs are needed (that is, someone has reported a failure).

▪ NO

If you set the field to *NO*, the program sends all DVIRs.

Database

▪ TMT-314261

Two fields were added to the ASPNETUSERS and ASPNETROLES database tables:

▪ MODIFIED

▪ MODIFIEDBY

Two fields were added to the PAGESECURITY database table:

▪ CREATED

▪ CREATEDBY

▪ TMT-317034

The index ITEMREQ_ORDERID_REQSTATUS was added to the ITEMREQ table. This index speeds up the loading time of the **Invoice** page.

▪ TMT-317164

▪ The OrderApproval table accepts logged-in usernames up to 256 characters in the **Modifiedby** column.

▪ The PAYROLLTIME table accepts logged-in usernames up to 256 characters in the **Approvedby** column.

▪ TMT-317166

The program updates the **Modifiedby** column of the OrderInAudit table with the logged-in username whenever someone deletes a line item from an open order.

- **TMT-317167**

These columns of the VIEW_ORDER_AUDIT_TRAIL table accept logged-in usernames up to 256 characters:

- **oss_createdby**
- **Order_createdBy**
- **Order_ClosedBy**
- **Order_CompltBy**

The PARTXREF and PERMISSION tables each accept logged-in usernames up to 256 characters in their Modified columns.

- **TMT-317169**

The **ExportedBy** field was updated to accept logged-in usernames up to 256 characters.

- **TMT-317170**

These tables accept logged-in usernames up to 256 characters for these fields:

- Users table **WINUSER** field
- Unitoutofservice table **USEROUTOFSERVICE** and **USERINSERVICE** fields
- Itemreq table **Requuser** field

- **TMT-317171**

The SCHEDULERAUDIT and Planner tables accept logged-in usernames up to 256 characters.

- **TMT-317210**

The PMSCHED table has a new column: **NEEDSRECALC**. The program sets **NEEDSRECALC** to Y (YES) for the dependent PM SCHEDULE when one of these events happen

- Someone updates the **Unit** page with the Dependent PM
- Someone updates the **PM Detection %** field on the **System Setup** page
- Someone sets one or more of these PM related Application Options to **YES**:
 - **Schedule Dependent PMs By Actual % Due By PM Level**
 - **Return All Dependent PMs That Are Due**
 - **Enable PM Fixed Date**
 - **Exclude Inactive Units From PM Due Reports**
 - **Enable Fixed PM Schedule**

The PM Due calculation system recalculates the Dependent PM when **NEEDSRECALC** is set to Y.

Masters menu

Dealers

- **TMT-316318**

This menu option and its page have been removed. Due to Microsoft's ending Silverlight support, TMT can no longer support this function.

Employees > Misc

- **TMT-314342**

The field label was changed from **Interactive Workstation Password** to **Workstation Password**.

- **TMT-316345**

TTP obeys the setting for the **Allow Charging of Parts from Workstation?** field. You set this field on the **MISC** tab of the **Masters Employees** page. When you set this field to YES, the technician can charge out parts in TTP. When you set this field to NO, the technician cannot charge parts or even see the tab when working on an RO in TTP.

Units

- **TMT-317418**

You can no longer set the unit status to *Reports Only* if the unit is on the **Associated Unit** field of a repair order. The new logic applies to repair orders that are not closed or canceled.

Orders menu

Campaign

- **TMT-317163**

The maximum length of these fields has been increased from 40 to 256 characters:

- **Created By**
- **Modified By**
- **Completed By**
- **Closed By**

Estimate

- **TMT-317163**

See [TMT-317163](#) in **Orders menu > Campaign**.

Estimates Listing

▪ TMT-314716

You can now see the **Change Unit/Customer** button when the Invoicing module is turned on. The button changes to **Change Unit** when the Invoicing module is turned off.

Indirect Charge

▪ TMT-314342

The error message has changed when you try to change an order status from *Open* to *Closed* and the order is locked. The old message stated, "Order is locked by IWS and cannot be closed or completed." The new message states "Order is locked by TTP and cannot be closed or completed." This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

▪ TMT-317163

See [TMT-317163](#) in **Orders menu > Campaign**.

Invoice

▪ TMT-316227

The new **EMAIL AUDIT** tab shows up to 40 invoice email-related transactions. The tab shows this information:

▪ **Date Sent**

The date the email was sent

▪ **Emailed To**

The email address of the recipient

▪ **Sent From**

The email address of the sender

▪ **Type**

This column shows what type of invoice email was sent:

▪ *Draft*

Draft invoice was sent.

▪ *Original*

Finalized Original Invoice sent. If someone previously sent a draft, the program replaces *Draft* with *Original*.

▪ *Duplicate*

Duplicate Invoice sent. If someone previously sent a draft and/or an original invoice, the program replaces those values with *Duplicate*.

- **TMT-317163**

See [TMT-317163](#) in **Orders menu > Campaign**.

Invoices Listing

- **TMT-316226**

The new **Emailed?** column lets you see if an invoice was emailed. The column shows *Y* for yes and *N* for no.

- **TMT-316472**

The program updates the EMAILAUDIT database table if batch invoices have been printed. For more information, see [TMT-316226](#).

Purchase Order

- **TMT-317163**

See [TMT-317163](#) in **Orders menu > Campaign**.

- **TMT-317544**

The **Purchase Order** page has a new field: **Remit To Vendor**. This field shows who should be paid for repairs if it is other than the repairing vendor.

Purchase Orders Listing

- **TMT-317542**

The **Remit To Vendor** and **Remit Vendor Name** columns now appear on the **Purchase Orders Listing** page. By default, the new columns are *not* included in the page view.

To add one or both of these columns, click the triangle on the right side of any column header. This opens the **Sort and Columns** menu. Click **Columns** and select **Remit To Vendor** and/or **Remit Vendor Name**.

Purchase Orders Listing > Purchase Order Report

- **TMT-317529**

The report parameters now include a column for the new **Remit To Vendor** field.

Repair Order

- **TMT-314007**

You can create repair orders without an estimate if the cost is below the customer's approval limit. If an estimate is needed, you can now create one from the **Repair Order** page. Selecting the estimate hyperlink opens the created estimate.

- **TMT-314342**

Three repair order error messages have been changed:

- **Deleting a labor line when the order is locked**

The old message stated, "Line is locked by *number*, Employee in IWS, and cannot be deleted."

The new message states, "Line is locked by *number*, Employee in TTP, and cannot be deleted."

- **Changing a section from *Open* to *Closed* when the order is locked**

The old message stated, "Section is locked by IWS. Employee assignments cannot be modified until they are logged off." The new message states, "Section is locked by TTP. Employee assignments cannot be modified until they are logged off."

- **Changing an order from *Open* to *Closed* when the order is locked**

The old message stated, "Order is locked by IWS and cannot be closed or completed."

These changes are part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

- **TMT-316633**

When you hover over the text below the **Vendor** and **Bill to Customer** fields, you can see the full name, city, and state information.

- **TMT-317163**

See [TMT-317163](#) in **Orders menu > Campaign**.

- **TMT-317416**

The **Repair Order** header has a new field: **Associated Unit**. This field is available for both Standard and Vendor ROs based on the **Require Associated Unit** Application Option setting. When the option is set to **YES**, the **Associated Unit** field is required and the **Repair Order** page shows an asterisk (*) beside the field name.

- **TMT-317417**

If you put an invalid unit in the **Associated Unit** field, the program opens a new pop-up window to let you create a new unit. The window is called **Create Retail Unit/Customer on the Fly**.

- **TMT-317528**

The **Repair Order** page has a new field for vendor repair orders: **Remit To Vendor**. The remit to vendor data comes from the **Remit** tab on the **Vendor Masters** page.

- **TMT-317534**

You can now create vendors on the fly on repair orders. When you enter a vendor in the **Remit To Vendor** field, and the program cannot find the vendor in its database, the **Vendor on the Fly** pop-up window opens. This lets you enter the new vendor immediately.

▪ TMT-317832

The **Add Section** pop-up window adds a job code to the header automatically when you assign an active job code to both the component and complaint codes.

Repair Order > Repair Request form

▪ TMT-313749

Once a TMT/TA customer approves the estimate (*Estimate Approved*), or when the order is paid out in the TA shop system (*Finalize Approved*), the program updates the vendor estimate on the VRO for the work order to reflect the vendor estimate listed in the **Repair Request** form.

▪ TMT-317089

The **Repair Request** form has new features:

- A new progress line at the top of the form shows the status of a work order at a glance.
- All fields on the form are read-only. You make changes on a new pop-up window, and the window only shows the fields needed for the order's current status.

The only exception is the **Comments** field. When the repair request is in *Initiate Awaiting* status, the **Comments** label changes to ***Comments** to mark it as required. In these cases, you must complete the ***Comments** field before you can select **Submit**.

- The **Notes** and **Notes History** fields have been removed from the **Repair Request** form. There are two new buttons to cover the note functions: **Show Note History** and **Copy Notes**.
 - **Show Note History:** Opens a pop-up window where you can add notes and view the note history.
 - **Copy Notes:** Lets you copy all the History Notes available to your clipboard. You can paste these into the file format of your choice. A recommended practice is to save the file as a PDF. You can then print or move the PDF file if you want.
- There is a third new button: **Show Debug Info**. You can use this button to see and copy your cross-reference data for troubleshooting purposes.

▪ TMT-317570

The program has a new validation pop-up window for the **Payment Method** field. When the payment method saved on the repair order is not mapped for TA, the message states, "Payment method is not valid. Please check your Payment method mapping in the Integration Options page." The form will not save the user's changes. This makes sure the user corrects the error before proceeding.

▪ TMT-317573

The program has a new validation pop-up window for the **Repair Site** field. When the repair site saved on the repair order is not mapped for TA, the message states "Repair Site is not valid. Please check your Repair Site mapping in the Integration Options page." The form will not save the user's changes. This makes sure the user corrects the error before proceeding.

- **TMT-317574**

The program has a new validation pop-up window for the **VIN** field. When the **VIN** saved for the unit on the repair order does not meet the requirements for the TA integration, the message states, "VIN has to be 6, 8, or 17 characters in length. Please update the VIN in the Unit Master." The form will not save the user's changes. This makes sure the user corrects the error before proceeding.

- **TMT-317575**

The program has a new validation pop-up window that opens when the token for the repair request form has expired. The window message states "The Repair Request form Token has expired due to a time-out condition. Please refresh the Repair Request form by closing the form and then re-display the Repair Request form again." You cannot continue with the repair request until you reload the **Repair Request** form by clicking the **Repair Request** button on the repair order.

- **TMT-318109**

The TA **Repair Request** form **Review** pop-up window now marks the **Comments** field as required when the request is in *INITIATE AWAITING*, *ESTIMATE AWAITING*, or *FINALIZED AWAITING* status. An asterisk (*) appears next to the **Comments** label when you must complete the field. The **Submit** button will be turned off until you add a comment.

Repair Order Template

- **TMT-317543**

The **Repair Order Template** page has a new field: **Remit To Vendor**. The field lets you select a remit vendor from the **Vendor** master records.

Repair Orders Listing

- **TMT-314716**

See [TMT-314716](#) in **Orders menu > Estimates Listing**.

- **TMT-316660**

The **Change Vendor** and **Change Unit/Customer** buttons can be turned off for TravelCenters of America, TMT ServiceConnect, and I360 customers using Integration options.

When you select a vendor repair order (VRO) row on the **Repair Orders Listing** page, the program checks the corresponding TMT Integration Options:

- For TravelCenters of American and TMT ServiceConnect customers, the program checks **Vendor DEFAULT XREF** option
- For I360 customers, the program checks the Configuration Hub **CONNECTMAINT Data Mapping** option.

If the vendor on the VRO has an active cross-reference in one of those integrations, the program turns off the **Change Vendor** and **Change Unit** buttons.

- **TMT-317419**

The Repair Orders Listing page has a new column: **Associated Unit**. By default, the new column is *not* included. To see the column, click the triangle on the right side of any column header. This opens the **Sort and Columns** menu. Click **Columns** and select **Associated Unit**.

- **TMT-317530**

The **Remit To Vendor** and **Remit Vendor Name** columns now appear on the **Repair Orders Listing** page. By default, the new columns are *not* included in the page view.

To add one or both of these columns, click the triangle on the right side of any column header. This opens the **Sort and Columns** menu. Click **Columns** and select **Remit To Vendor** and/or **Remit Vendor Name**.

- **TMT-317163**

See [TMT-317163](#) in **Orders menu > Campaign**.

Reports menu

Reports - SSRS > SSRS Report Viewer > Standard Reports

- **TMT-316856**

The length of the username that reports show at the end of each page can now contain up to 256 characters.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Orders > Order Inquiries_Purchase Orders

- **TMT-317529**

See [TMT-317529](#) in **Orders menu > Purchase Orders Listing > Purchase Order**.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Orders > Order Inquiries_Repair Orders

- **TMT-317422**

The SSRS **Order Inquiries_Repair Orders** report now contains the **Associated Unit** field. Adding this field lets you use the report on repairs to equipment at a drop yard.

- **TMT-317529**

See [TMT-317529](#) in **Orders menu > Purchase Orders Listing > Purchase Order**.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Purchasing > PO Accrual Summary

- **TMT-317529**

See [TMT-317529](#) in **Orders menu > Purchase Orders Listing > Purchase Order**.

Reports – SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Fuel Ticket History

▪ **TMT-315382**

The filter **Fuel Ticket Shop** appears under the **Domicile Shop** group. The new filter and group make sure that records display correctly on reports.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit PM History

▪ **TMT-316152**

When TMWSuite is integrated with TMT, the program saves the historical data. You can see this data by running the **Unit PM History** report. The report displays the history of PM sections on ROs for all units.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Vendors > Vendor RO Accrual Report

▪ **TMT-317529**

See [TMT-317529](#) in **Orders menu > Purchase Orders Listing > Purchase Order**.

Security menu

Work With Users > Create User

▪ **TMT-314342**

On the **AMS Options** tab, the **User Type** drop-down list has changed. The *IWS* option has been replaced by *KIOSK*. This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

▪ **TMT-315450**

There is a new user role: **Security Administrator**. When you assign someone to the **Security Administrator** role, they can:

- Create new users
- Use all security pages related to customizing user roles
- Control which pages new users can access

Security Administrator users do *not* have the same permissions as Administrative users. They only have the permissions needed to create and manage users and user roles.

For more information on creating users, see [Creating a primary user account](#).

For more information on assigning roles and pages to users, see [Setting up role and page security](#).

Setup menu

Deprecation Policy

- **TMT-316318**

This menu option and its page now appear only if you have the Contract Maintenance module installed.

Module Licenses

- **TMT-316512**

LIC Database information has been removed from the **Module Licenses** page. Now the page shows application information.

- **TMT-317072**

The **In Use** column now lists all users. The **Licensed** column now lists all users except Admin and Adminacct.

Options > Application Options > Accounting

- **TMT-315144**

The new **Purge Accounting Errors Older than X Days** Application option lets you set when the program should purge data by number of days. When you set this option to *0*, the program does not delete any accounting errors. If you set the option to *30*, for example, the program deletes any accounting error older than 30 days.

Options > Application Options > Estimates

- **TMT-315071**

You can now copy fees from estimates to repair orders using the new **Copy Fees from Estimates to Repair Orders** Application option. The settings are:

- *NO* (default)

The program *does not* copy fees from estimates to repair orders. Users must enter the fees manually.

- *YES*

The program *does* copy fees from estimates to repair orders.

Options > Application Options > Interfaces > TMWSuite

- **TMT-313415**

The **Enforce Shop Commodity Codes** option has been moved from **Application Options > Interfaces > TMWSuite** to the **Integration Options > TMWSuite > GENERAL OPTIONS** section. This puts all integration interface options in the same location.

[Options > Application Options > Repairs](#)▪ **TMT-317414**

There are two new options:

▪ **Display Associated Unit Field**

This option controls whether the repair order header includes the new **Associated Unit** field.

▪ *NO* (default)

The repair order header will *not* show the **Associated Unit** field.

▪ *YES*

The **Associated Unit** field will be available for entry on the repair order header.

▪ **Require Associated Unit**

This option controls whether the Associated Unit field is required for repair orders. You can only use this option if you set **Display Associated Unit Field** to *YES*.

▪ *NO* (default)

The **Associated Unit** field is *not* required.

▪ *YES*

The **Associated Unit** field *is* required. When you save an RO header, the program will not let you proceed until this field is completed.

Standard rules for application and shop options apply. Shop option always takes precedence over the application value for the shop the RO is created for.

Notes:

- This option can be overridden at the Shop Options level.
- The system looks for the setting at the Shop Options level first, then at the Application Options level.
- If the Shop Options is set differently from the Application Options, it becomes independent of the Application Options. Changing the Application Options does not sync the Shop Options.

[Options > Application Options > Repairs > PMs](#)▪ **TMT-315529**

There is a new **PM** option: **Use PM Due Calculation Job**. When you set this option to *YES*, the program uses the scheduled job for calculating PM due dates rather than calculating the dates on the fly. This can significantly improve performance for large **PM Due** reports.

The option has these settings:

▪ *NO* (default)

The program calculates PM due dates on the fly.

- **YES**

The program calculates PM due dates on a scheduled basis.

Options > Application Options > TTP

- **TMT-314342**

The **IWS** node has been renamed **TTP**. These options were also renamed:

- **Allow Local Install of IWS** was changed to **Allow Local Install of TTP**.
- In the **TTP > Repairs** category, **All Labor Lines Via IWS Only** was changed to **All Labor Lines Via TTP**.
- In the **TTP > Reports** category, **IWS Repair Order Detail Report** was changed to **TTP Repair Order Detail Report**.

This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

Notes:

- This option can be overridden at the Shop Options level.
- The system looks for the setting at the Shop Options level first, then at the Application Options level.
- If the Shop Options is set differently from the Application Options, it becomes independent of the Application Options. Changing the Application Options does not sync the Shop Options.

Options > Integration Options > QuickBooks > CONNECTION

- **TMT-317199**

The QuickBooks integration has a new option: **Use Sandbox**. This option controls whether your integration makes use of the Intuit QuickBooks sandbox (that is, testing) environment.

- **NO** (default)

The TMT/QuickBooks integration **does not** use the sandbox testing environment.

- **YES**

The TMT/QuickBooks integration **does** use the sandbox testing environment.

Options > Integration Options > TMWSuite > GENERAL OPTIONS

- **TMT-313415**

See [TMT-313415](#) in **Setup menu > Options > Application Options > Interface > TMWSuite**.

Options > Integration Options > Trimble I D

▪ TMT-316655

Two changes have been made to make sure entries match Trimble ID requirements:

- The program now converts account names to UPPERCASE before saving.
- If URLs do not end with a backslash, the program adds one to the end of the URL before saving.

Options > Shop Options > Repairs

▪ TMT-317414

See [TMT-317414](#) in **Setup menu > Options > Application Options > Repairs**.

Options > Shop Options > TTP

▪ TMT-314342

The **IWS** node has been renamed **TTP**. These options were also renamed:

- In the **TTP > Repairs** category, **All Labor Lines Via IWS Only** was changed to **All Labor Lines Via TTP**.
- In the **TTP > Reports** category, **IWS Repair Order Detail Report** was changed to **TTP Repair Order Detail Report**.

This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

Notes:

- This option can be overridden at the Shop Options level.
- The system looks for the setting at the Shop Options level first, then at the Application Options level.

If the Shop Options is set differently from the Application Options, it becomes independent of the Application Options. Changing the Application Options does not sync the Shop Options.

Options > User Options

▪ TMT-314342

On the **Setup** tab, the **User Type** option *IWS* was renamed to *KIOSK* to match the interface. This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

Options > User Preferences > TTP

▪ TMT-314342

The **IWS** category was renamed to **TTP**. This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

Order Setup > Price Tables > Misc Fees

▪ TMT-314433

The Misc Fees tab has a new field: **Exclude Fees from Vendor ROs**. This field controls whether you can exclude (that is, remove) fees from VROs. The field has two settings:

- *NO* (default)
You *cannot* remove fees from VROs.
- *YES*
You *can* remove fees from VROs.

Tool Kit > Integration Tool Kit REST

▪ TMT-317580, TMT-317712

The Integration ToolKit has a new application programming interface (API): GetImagingOrderInfo. The API returns details about an order when you enter the **Order Number** and **Unit Number**.

TravelCenters of America Integration

▪ TMT-317440

The Review form has new validation functionality when you select the **Submit** button and the order is in *Initiate Awaiting* status. If you select a **Truck Arrival Date** that is less than six minutes after the current date and time, the page shows the message "Truck Arrival Date/Time must be greater than the current Date/Time by at least 6 minutes." The message opens when you select **Submit** whether the work order is coming from TA or TMT.

If you select an invalid date/time by mistake, the page highlights the **Truck Arrival Date** field in red, and the **Submit** button is turned off. You cannot select a date from the past in the calendar grid.

▪ TMT-317465


The **Attachments Required** label has been changed and the button has been removed from the Repair Request form. In the **Review** pop-up window for orders in *Initiate Awaiting* and *Estimate Awaiting* status, the **Attachment Required** label now reads **Required Attachments?**

Trimble Technician Portal

▪ TMT-311536

TTP reflects the warranty when you charge parts. The program now considers position and component code as part of the warranty indicators.

▪ TMT-315032

Units have a new icon:  **Tire**. Trimble Technician Portal (TTP) only shows the **Tire** icon when:

- You have the Tire module turned on.

- The Company unit has an assigned tire configuration.

Selecting **Tire** opens the **Tires** screen so you can view tire details. You can only initialize tires from this screen. If a tire was already assigned and then removed from the position, you cannot initialize the tire. Instead, you will see the error message "Tire has previously been charged to this position. Must create RO to charge Tire from Shop Inventory." However, you can initialize tires in the Spare position multiple times.

- **TMT-315802**

These features have been added:

- For repair orders with non-company units, you can now add tire parts from the **Charge Parts** screen. You cannot add tire parts to non-tire sections.
- The **Serial Number** field can now accept negative quantities. If the **Track Serial Numbers For Serialized Parts** Inventory Application option is set to *YES*:
 - The **Charge Part** screen shows the **Serial Number** field as a multi-select pop-up window for positive quantity charges.
 - The **Charge Part** screen shows the **Serial Number** field as a custom field for negative quantity charges. The drop-down list always pulls serial numbers with *INUSE* status.
 - The screen shows the error message "Duplicate serial number" if you enter a duplicate serial number.
- If **Track Serial Numbers For Serialized Parts** is set to *NO*, then the **Charge Part** screen shows the **Serial Number** field as a free-form text field for negative quantity charge.

The **Serial Number** field is limited to 40 characters.

- **TMT-316044**

You can now email these reports from the **Job Activity** panel in TTP:

- Repair Order Detail
- Repair Order Section Work Card
- Repair Order Work Card
- Repair Order Time Card

You can now email these reports from the **Job Detail** panel once a repair order is complete:

- Repair Order Section Work Card
- Repair Order Work Order Card
- Repair Order Sign Off report.

- **TMT-316092**

The **Check-off List** tab now highlights required items.

- **TMT-316473**

You can print timecard reports in TTP.

- **TMT-316980**

You can connect to TTP through TMT Fleet Maintenance. Go to **Menu > Activities > Technician Portal > Technician Portal**. This change is part of the replacement of Interactive Workstation (IWS) with Trimble Technician Portal (TTP).

- **TMT-317446**

TTP Bill To logic was updated with the following rules:

- If a Customer account has been suspended and the Customer does not have a Parent account, you cannot create a repair order. The program shows the error message "Customer is suspended. Cannot create RO for Unit *unit number*."
- If a Customer account is suspended but has an active Parent account, you can create a repair order.
- If both the Customer and their Parent are suspended, you cannot create a repair order. The program shows the error message "Bill To is suspended. Cannot create RO for Unit *unit number*."

- **TMT-317516**

You cannot complete or close a repair order in TTP or TMT if a technician has paused that repair order. Instead, you will see one of these error messages:

- **TTP**

"Cannot Complete/Close because user(s) are logged into this Order."

- **TMT**

"Order is locked by TTP and cannot be closed or completed."

Resolutions

Product wide

- **TMT-317405**

You can now customize pages without getting issues. You can customize a page to a particular role. You log in as a user who has the role to make sure the program retains the customized changes.

Activities menu

Accounting > Accounting

- **TMT-317200**

When you export Credit POs, the program exports the correct Credit and Debit amounts for parts and taxes when the **Include Tax in Inventory** Application option is set to **YES**.

- **TMT-317208**

When you export using McLeod, Voucher and VoucherDist files are generated on VROs.

- **TMT-317588**

You can export complete order details to Microsoft Excel without first expanding the record before saving.

[Inquiries > Order Inquiries](#)

- **TMT-315776**

The **Order Inquiries** page has a new filter: **Section Component**. You can apply the Section Component filter to:

- Campaigns
- Invoices
- Purchases
- Repairs
- Warranties

- **TMT-316984**

The **Customer Name** column was changed to **Order Customer Name**. This name matches the naming convention used on other inquiries pages.

[Inquiries > Order Inquiries > Invoice](#)

- **TMT-316268**

These invoice reports now use the same requirements when showing an invoice's **Print** status: *Draft*, *Original*, or *Duplicate*:

- Invoice Detail Report
- Invoice Payments Report
- Invoice Summary Report

[Shop Planner](#)

- **TMT-312691**

The program correctly calculates the amount of time a technician works regardless of differences in time zones.

[Shop Scheduler](#)

- **TMT-312691**

See [TMT-312691](#) in **Activities menu > Shop Planner**.

- **TMT-313070**

When you refresh **Shop Scheduler**, you can see the current hour in the client time zone at the top of the page.

Units > Clone Unit

- **TMT-315749**

The **Clone Unit** page updates all PMs on the selected unit to match the PMs on the **Source Unit**.

Asset Inspection Tickets App

- **TMT-316637**

You can upload attachments even if there are a large number of defects associated with the inspection ticket.

- **TMT-317041**

The **Shop** menu lists all active shops set up in TMT for company and fuel tickets.

Database

- **TMT-317204**

The value in the ORDERS table TOTALAMT column matches the amount you see in the repair order header.

- **TMT-317739**

The logic for bulk loads/inserts has been edited to prevent deadlock issues.

- **TMT-317962**

- The TMW Suite Integration job PROCESS TMWAMS SUITE SYNC does not execute when the Interface option is turned off.
- The new TMWAMS_PROCESS_SUITE_SYNC_CONTROL job now runs the PROCESS TMWAMS SUITE SYNC SQL job and checks for the Integration state before execution.

Inventory menu

Parts Reorder Point

- **TMT-316988**

Updating the **Primary Vendor** on the **Parts Reorder Point** page for a part in multiple shops now only affects the part in the shop selected instead of all shops with the selected vendor.

Parts Transfer

- **TMT-314325**

The **Order Number** field correctly fills in preceding zeros automatically when the **Auto Zero-fill Order Numbers** Application Option is set to *YES*.

- **TMT-316519**

Performance has been improved when you transfer 15 to 20 parts from one **Shop** to another.

Physical Inventory

- **TMT-316408**

When you open a new physical inventory adjustment, and the **Sort By** is by *Bin*, the **Counts** tab aligns and matches the report sort by parameters.

Physical Inventory > Counts

- **TMT-317332**

You see the correct page number from the inventory count sheets in the **Page** column. This is true whether the inventory is sorted by **Parts** or **Bins**.

Masters menu

Customers

- **TMT-316190**

If you type in an invalid Customer ID in the **User Fields** tab, the program shows the error message "Customernumber is not a valid customer." Click **OK** to refresh the screen. You can then type in a valid Customer ID.

Parts Catalog

- **TMT-318076**

The program merges parts without errors.

Shop Inventory

- **TMT-316317**

When you renumber local parts from Shop Inventory with the **Renumber and Update History** checkbox clear, it only updates the part numbers on the non-closed orders. When you renumber local parts with **Renumber and Update History** checked, it updates the part numbers in all the orders, including closed orders.

- **TMT-317589**

You can delete a local part from the **Shop Inventory** even if the part was renumbered.

Units

- **TMT-315724**

When you clone a unit, the program populates the OEM **Warranty In Service** date as the start date of the **Extended Warranty**.

- **TMT-317265**

The **State** field shows the existing value after you renumber a unit.

Orders menu

Campaign

- **TMT-316021**

The campaign **Unit** search retrieves data more quickly.

- **TMT-317014**

Sections show the correct billable values.

Invoice

- **TMT-317714**

If you change the **Bill to Customer** field, the taxes are now recalculated as expected.

Invoices Listing

- **TMT-316268**

See [TMT-316268](#) in **Activities menu > Inquiries > Order Inquiries > Invoice**.

- **TMT-316729**

Users with read-only access can view associated orders.

Purchase Order

- **TMT-314173**

The **Purchase Order** page **Accounts** tab (also known as the Accounts Summary) shows the correct tax amount.

- **TMT-317042**

The program applies a rounding buffer to AP transactions that are out of balance by at most \$0.005 due to taxes or freight. This makes sure that transactions are equal.

Purchase Orders Listing

▪ TMT-316721

If the user has approval permission, standard purchase orders shows the **Approve** button even if the order has no lines.

Repair Order

▪ TMT-314154

The program shows an error message shows when card charges fail.

▪ TMT-316180

The default options for **Repair Class** and **Repair Site** work when changed from one **Repair Order Type** to another.

▪ TMT-316723

You can reopen a repair order if:

- A credit card payment failed.
- A credit card payment was canceled before it was processed.

You cannot reopen a repair order if:

- A payment is pending.
- A voided PAYPROCESSOR or PAYBYPHONE was used.

▪ TMT-316840

Tires credited through the Tire Review screen create and close repair orders correctly.

Repair Orders Listing

▪ TMT-315968

You can update the **Cost Center** field from the **Repair Order** page. If you change a unit using the **Change Unit** button, the cost center updates to the new unit.

Warranty Claim

▪ TMT-316334

If you type in an invalid status in the **Warranty Status** drop-down list, the program makes you change the status. You will see a blank or default value if you type in an invalid status.

Reports menu

Report Scheduler

▪ TMT-316770

The Report Scheduler updates next the run date and time with the correct date and time.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Customers > Customer Gross Profit

- **TMT-317076**

Labor costs appear correctly in the report.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Orders > Orders Inquiries_Invoice Orders

- **TMT-316853**

The report loads correctly when you set date parameters.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Orders > Order Inquiries_Purchase Orders

- **TMT-316388**

The summary view of the **SSRS Purchase Orders** now shows the **Cost** column values.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Order Reports > Order Inquiries_Repair Orders

- **TMT-316634**

The report runs correctly when you use the **Order Customer** parameter.

- **TMT-317539**

The Repair Order Detail report does not time out when you click a link on the report.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Inventory Month-End Balances

- **TMT-318091**

The report shows the correct ONHAND amounts for the parts. Also, the report shows the correct calculations.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > PMs Due

- **TMT-316674**

Non-company units do not appear on the **PM Due** report.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Cost by Utilization Report

- **TMT-312795**

The report corrects shows values for the MONTHS and DAYS meters when they exist.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Cost of Ownership](#)

▪ **TMT-314363**

The warranty column takes into account all line items that are in the Repair Order, as everything done to the unit should be covered under OEM and Extended Warranty.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Inventory](#)

▪ **TMT-315996**

The Unit Inventory report runs without issue when the **Yard Location** field has more than 12 characters.

Setup menu

[Options > Application Options > General](#)

▪ **TMT-316698**

The **GENERAL** section now shows the **Enforce Enhanced Shop Restriction** Application option. It is set to **YES** by default.

[Options > Integration Options > TravelCenters of America](#)

▪ **TMT-317177**

The way the program validates units has changed. This affects how you can use units with the TravelCenters of America (TA) integration.

- The program validates all new units by default. You can use these units with the TA integration.
- An existing unit is validated for the TA integration if it meets one of these conditions:
 - The unit has no record in the INTEGRATION_XREF database table. (This is the default condition for new units, which is why they are automatically validated.) The program does not add a unit record to the table unless you clear the unit's **Interfaced** checkbox on the **Integration Options** page.
 - The database flag INTEGRATION_XREF "IS_INTERFACED" is set to *Y*. This shows the flag was originally set to *N* and changed to *Y*. That is, someone originally cleared the **Interfaced** checkbox (set the flag to *N*) and later selected it again (set the flag to *Y*).
- A unit is not validated if the database flag INTEGRATION_XREF "IS_INTERFACED" is set to *N*. That is, the **Interfaced** checkbox was cleared (set to *N*).

If you do not want the program to validate a new unit for integration use, you must clear the unit's **Interfaced** checkbox on the Integration Options page. For example, if you have a unit that will never be sent to a TA for repairs, or if you have units with *Reports Only* status, those units should not be integrated. You should clear the **Interfaced** checkbox for those units.

Note: You get to a unit's **Interfaced** setting checkbox by going to **Menu > Setup > Options > Integration Options > TravelCenters of America > UNIT XREF**.

Order Setup > Approval Levels

- **TMT-317172**

The **Approval Level Name** field length can include up to 20 characters.

Order Setup > Re-Open Order

- **TMT-317326**

You cannot reopen orders once they have been sent to Accounting. Instead, the program shows one of these error messages:

- "Has Been Exported And Can Not Be Re-opened" shows if you try to reopen exported orders.
- "Is Posted To A Period And Can Not Be Re-opened" shows if you try to reopen orders that have been posted to Company Masters.

System Setup

- **TMT-316394**

You cannot delete codekeys labeled ATA or TMT.

Trimble Technician Portal

- **TMT-317396**

The **Bill to Customer** field and the **Customer** field values do not change when you complete a repair order.

Trimble Technician Portal menu

Repair Order

- **TMT-317404, TMT-318173**

TTP calculates the labor line correctly when a technician marks a section as *Incomplete*, *Complete*, or *Closed*.

TMT Fleet Maintenance V.2022.2.2 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Enhancements

Orders menu

Invoice

- **TMT-317034**

You should see improved performance when creating invoices due to a new database index.

Progressive Web Application Asset Inspection App

- **TMT-317321**

The **Attachment** window has a new button: **Get Previous Attachments**. You can use this button to get recently attached images.

When you click **Get Previous Attachments**, the program adds any attached images to the window. If the item does not have any attached images, the program gives you the message "No previous image found."

The **Attachment** window also has an **Upload** button. You can use **Upload** to attach new images to inspection items.

When you attach an image, either by using **Get Previous Attachments** or **Upload**, the program creates the new inspection order with the images attached. Previous inspection items are not affected by images of recent inspection orders.

Security menu

Work with Users > Create User

- **TMT-315450**

There is a new user role: **Security Administrator**. When you assign someone to the Security Administrator role, they can:

- Create new users
- Use all security pages related to customizing user roles
- Control which pages new users can access

Security Administrator users do *not* have the same permissions as Administrator users. They only have the permissions needed to create and manage users and user roles.

For more information on creating users, see [Creating a primary user account](#).

For more information on assigning roles and pages to users, see [Setting up role and page security](#).

Setup menu

Options > Integration Options > QuickBooks > Connection

▪ TMT-317199

There is a new setting: **Use Sandbox**.

A *sandbox* is a mock QuickBooks company with sample data. You can use a sandbox for testing purposes.

The **Use Sandbox** options are:

▪ NO (default)

The QuickBooks integration *does not* use a sandbox.

▪ YES

The QuickBooks integration *does* use a sandbox.

Trimble Technician Portal

▪ TMT-317446

The Trimble Technician Portal (TTP) follows the **Bill To Customer** hierarchy when you create a repair order (RO).

- If you try to create an RO for a Customer whose service has been suspended and who does not have a Parent account set up, the program shows the error message, "Customer is suspended. Cannot create RO for Unit #####." The program also prevents you from creating the RO.
- If the suspended Customer *does* have a Parent account set up, and the Parent has active service, the program lets you create the RO without issues.
- If both the Customer and Parent accounts have suspended service and you try to create an RO, the program shows the message, "Bill To is suspended. Cannot create RO for Unit #####."

Resolved issues

Orders menu

Purchase Order

▪ TMT-314173

The **Purchase Order** page **Accounts** tab (also known as the Accounts Summary) shows the correct tax amount.

▪ TMT-317042

The program uses a rounding buffer for accounts payable (AP) transactions. It evens out charges that are out of balance by at most \$0.005 due to tax or freight costs.

Repair Order

▪ **TMT-316723**

You can reopen repair invoices if a credit card payment failed to go through or was canceled before processing. If there is a current or voided credit card payment (that is, a payment made using PAYPROCESSOR or PAYBYPHONE), then you cannot to reopen the invoice.

Progressive Web Application Asset Inspection App

▪ **TMT-317041**

The **Shop** menu includes all available shops. The menu is no longer limited to 25 shops.

Reports menu

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Orders > Orders Inquiries_Invoice Orders

▪ **TMT-316853**

The program no longer shows an error message when you apply date parameters to the report.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Inventory Month-End Balances

▪ **TMT-315810**

The report shows correct quantity values.

Setup menu

Order Setup > Re-Open Order

▪ **TMT-317326**

Once someone sends an order to Accounting, you cannot reopen it. The program has two new error message to alert you to these situations:

- "Has been exported and cannot be reopened." You will see this message if you try to reopen an order that has been exported from the **Accounting** tab.
- "Is posted to a period and cannot be reopened." You will see this message if you try to reopen an order that has been posted on the **Company** Master page.

Trimble Technician Portal

▪ **TMT-317396**

TTP does not change any values from the repair order header once the order is completed.

▪ **TMT-317404**

When you complete an RO section, TTP calculates the labor line correctly.

TMT Fleet Maintenance V.2022.2 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Enhancements

Product wide

- **TMT-315359, TMT-313649**

The program checks to see if the License server is available before interacting with it. If the program cannot reach the License server, or it times out, the program lets you continue to work. The program does let you know that you are in a grace period while it tries to connect to the License server. You can use the program until the grace period ends. This process:

- Avoids intermittent timeouts
- Reduces the frequency of requests to the License server

- **TMT-315398**

Updated ATA/VMRS codes are now available. If you want to update your ATA/VMRS codes, download the AMS - ATA Codes Update.zip file. You can find it with the 2022.2 files at the Trimble ClientCenter.

1. Log in to [ClientCenter](#).
2. Go to **Build Delivery > Downloads > TMW Asset Maintenance > TMT Fleet Maintenance – Windows > 22.20 > View Details > AMS - ATA Codes Update.zip**.

Activities menu

[Accounting > Accounting](#)

- **TMT-313603**

On the **Accounting** page **QuickBooks** tab, you can add, remove, group, filter, and sort the columns for:

- Accounts Payable (AP)
- Accounts Receivable (AR)
- General Ledger (GL)
- Error Handling

[Accounting > Accounting > TruckMate](#)

- **TMT-313604**

On the **Accounting** page **TruckMate** tab, you can sort and filter results in the **TM Error Handler** grid. You can also sort items by groups and clear filters.

[Inquiries > Order Inquiries > Invoice Detail Report](#)

▪ **TMT-316204**

You can select multiple invoices and combine them in one report file. The report groups the invoices by the bill to customer.

▪ **TMT-316279**

When you select more than one invoice and run the report, the first page of the report becomes a summary page. It shows details of the selected invoices based on the customer.

[Inquiries > Order Inquiries > Invoice Summary Report](#)

▪ **TMT-316204**

See [TMT-316204](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

▪ **TMT-316279**

See [TMT-316279](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

[Units > Meter Readings](#)

▪ **TMT-315504**

The **Unit Meter Readings** window no longer displays times. Since the program does not store timestamps for historical meter readings, all readings showed the same default time. This confused users.

[Installer](#)

▪ **TMT-315466**

The LIC (license) database has been merged with the TMT database. The installer now works with the TMT database alone.

Existing customers must:

- Run the provided installer migration script to copy all the data from their LIC database to the TMT database.
- Perform the upgrade using this merged TMT database. The LIC database will become an invalid input in the SQL setup page of the installer.

After doing an upgrade, the web.config file should only have the TMT database, so that the application will launch without issues. In the web.config file, there will still be separate database connect entries, as exists today.

New customers with a fresh database do not need to run the installer migration script. They can install the program using the TMT database alone.

▪ TMT-315617

The new installer saves report setting values to the SERVER.API web.config file and the Pages web.config file. This ensures that pages and web APIs have the settings and values they need.

Note: This feature works as expected for one and two tier setups. You do not have to select SSRS Reports. If you have a three tier setup, however, you *must* choose SSRS Report Services to save and update the settings in the web.config file. For information on one, two, and three tier setups, see [Hardware Requirements, V.2020.2 and later](#).

▪ TMT-315807

The Web installer has these improvements:

- It works with SQL Server 2016 common language runtime (CLR) types and SQL Server 2016 shared management objects (SMO).
- It can run the DB Test Connection though the SQL Server 2008R2 CLR Types without errors, even if the server does not have SQL SMO.
- It only checks the SQL Server 2016 minimum requirement on the SQL Server. It does not check for the requirement on the Web or Application servers.
- The Install links on the **Configuration requirements** page let you install the 64-bit SMO and CLR types directly from the installer. If you want to install the 32-bit version, you must do it manually.

Inventory menu

Parts Price Update

▪ TMT-315056

You can now delete multiple part prices at once on the **Parts Price Update** page.

Physical Inventory

▪ TMT-313262

On the **Shop Inventory** page's **Cost History** tab, the values in the **Physical Inv Number** column are links. Click the link to open the **Counts** tab of the **Physical Inventory** page and see the counts.

Note: The **Physical Inv Number** values are links only if they have an actual value. If the value is N/A, there is no link.

Masters menu

Company

▪ TMT-315740

The **Company** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Customers

▪ TMT-315064

The new **Customer DOT Number** field has been added to the:

- **Customers** page, **Definition** tab
- **Add New Customer** pop-up window
- **Unit/Customer on the Fly** pop-up window

If you enter a customer DOT number that is already in use, the program shows the warning message "Customer DOT Number *number* has already been applied to Customer *Customer ID*."

If the **Require Customer DOT Number** Application option is set to *YES*, you must complete the **Customer DOT Number** field when you create or update customer details. For details, see [TMT-315064](#) in **Setup menu > Options > Application Options > Invoicing**.

▪ TMT-315739

The **Customers** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Employees

▪ TMT-315741

The **Employees** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Parts Catalog

▪ TMT-315274

The program prevents you from using a deactivated part type when you create a new part.

▪ TMT-315742

The **Parts Catalog** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Shop Inventory

▪ TMT-313262

See [TMT-313262](#) in **Inventory menu > Physical Inventory**.

▪ TMT-315274

See [TMT-315274](#) in **Masters menu > Parts Catalog**.

- **TMT-315745**

The **Shop Inventory** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Shops

- **TMT-315746**

The **Shops** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Units

- **TMT-315747**

The **Units** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Vendor Parts

- **TMT-315274**

See [TMT-315274](#) in **Masters menu > Parts Catalog**.

- **TMT-315773**

The **Vendors** page tabs show the correct contents whether the **Customize Page** pane is open or closed. You open the pane by clicking your user name in the upper-right corner of the page and selecting **Customize**.

Orders menu

Campaign

- **TMT-313431**

The **Assign Units** pop-up window has new options in the **Items per page** drop-down list. You can select 10, 20, 30, 100, 500, or 1000 results. Seeing more results per page lets you assign more units at once.

- **TMT-314759**

When you filter one or more columns, the column heading background changes color. This change marks the selected columns. Where applicable, the font color has been changed to improve readability.

▪ TMT-315237

You can control users' access to the **Campaign Details** page by role using the **Manage Page Permissions** page.

You open the **Manage Page Permissions** page by going to **Menu > Security > Page Security > Manage Page Permissions**. By default, all permissions are turned on. You can set permissions for each role and assign roles to each user. When there is a conflict between roles, the program gives precedence to options that are turned on.

For example, assume User A has two roles: **All Web Users* and **Road Calls*.

- The **All Web Users* role gives users access to the **Repair Order** page. The permissions are read-only. Users assigned this role cannot edit the **Repair Order** page.
- The **Road Calls* role also gives users access to the **Repair Order** page. Users with this role have read and edit permissions for the page.

When User A opens the **Repair Order** page, they can edit the page as part of their **Road Calls* role.

Campaigns Listing

▪ TMT-314672

A new column has been added: **Shop Region**. The column behaves the same way as the previous columns. You can sort and filter by it. The column also has page persistence.

▪ TMT-314759

See [TMT-314759](#) in **Orders menu > Campaign**.

▪ TMT-315236

You can control users' access to the **Campaigns Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

Estimate

▪ TMT-310746

You can add fee lines to an estimate section you create.

Estimates Listing

▪ TMT-315238

You can control users' access to the **Estimates Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

Fuel Ticket Listing

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

Indirect Charge

- **TMT-314759**

See [TMT-314759](#) in **Orders menu > Campaign**.

- **TMT-315235**

You can control users' access to the **Indirect Charge** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

Indirect Charges Listing

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

- **TMT-315234**

You can control users' access to the **Indirect Charges Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

Inspection Ticket Listing

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

Invoice

- **TMT-314759**

See [TMT-314759](#) in **Orders menu > Campaign**.

- **TMT-311443**

You can add discounts and coupons at the section level.

- **TMT-311997**

When **Override Auto Discounts** is set to *YES*, you can:

- Override an existing discount
- Add a discount manually

Invoices Listing

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

Invoices Listing > Invoice Detail Report

- **TMT-316204**

See [TMT-316204](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

- **TMT-316279**

See [TMT-316279](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

Invoices Listing > Invoice Summary Report

- **TMT-316204**

See [TMT-316204](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

- **TMT-316279**

See [TMT-316279](#) in **Activities menu > Inquiries > Order Inquiries > Invoice Detail Report**.

Purchase Order

- **TMT-315245**

See [TMT-315245](#) in **Setup menu > Options > Application Options > Purchasing**.

- **TMT-314759**

See [TMT-314759](#) in **Orders menu > Campaign**.

- **TMT-315531**

You do not have to select a printer when printing barcode labels. The labels automatically print to the default printer.

Purchase Orders Listing

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

- **TMT-315531**

See [TMT-315531](#) in **Orders menu > Purchase Order**.

Repair Order

- **TMT-312764**

You can see the **Customer PO** field even if you do not have the Invoicing module.

- **TMT-312883**

When there is a bill to customer, the page shows this information under the **Bill To Customer** field:

- Bill To customer name
- City
- State

When there is a vendor, the page shows this information under the **Vendor** field:

- Vendor name
- City
- State

These changes were made to reduce entry errors.

- **TMT-313046**

When you have the Tire Module, you can remove a tire from a unit that does not have a tire configuration.

- **TMT-314759**

See [TMT-314759](#) in **Orders menu > Campaign**.

- **TMT-315308**

When **Vendor Supplied** is set to *YES*, you can edit the part **Quantity** field for vendor-supplied parts. When **Vendor Supplied** is set to *NO*, you cannot edit the part **Quantity** field. The part is not a vendor-supplied part.

- **TMT-315504**

See [TMT-315504](#) in **Activities menu > Units > Meter Readings**.

- **TMT-316008**

PO numbers on the **Parts on Order** pop-up window now have links. You can open the PO by clicking the link.

- **TMT-316088**

To protect employee privacy, the Employee Quick Search no longer shows the employee's full address.

[Repair Order > Repair Order Detail Report](#)

- **TMT-316042**

The report includes the bottom line of the report. It does not add an extra blank page.

[Repair Order > Repair Request Form](#)**TMT-315115**

You can edit the **Truck Arrival Date** field only when the **Repair Request Status** is *Initiate Awaiting*. The field is read-only for any other status. This applies to all TravelCenters of America (TA) repair requests.

Note: The **Truck Arrival Date** field is also known as *estimated time of arrival* or ETA.

TMT-315598

The Repair Request Form for TA road call work orders has a new field: **Tech Arrival Date**. This field shows the estimated date and time that the technician will arrive at the vehicle. TA provides this data. The field is read-only in TMT.

TMT-315875

The **Driver Name** and **Driver Phone** number fields have been added to the TA Repair Request form. Before, these fields were only available for road calls. Now you can see these fields on orders classified as:

- Repairs performed at a TA shop location
- Repairs performed on site

The two fields are optional. If they are not filled out before submitting the repair request, TMT uses these default values:

- **Driver Name:** *UNKNOWN*
- **Phone Number:** *000-000-0000*

TMT-316347

The **Note History** shows who submitted the note. The user ID replaces the generic term "TMT User."

TMT-316453

The Repair Request Form now shows the currently logged in user's first and/or last name in the upper-right corner. If the user does not have a first or last name saved in the system, the form shows the user name instead. For example, assume John Smith has the user name *JSmith* in the system, but not his first and last names. The form would show *JSmith* in the upper-right corner.

This change applies to TA and TMT ServiceConnect integrations.

TMT-316596

The TA **Repair Request Form Tire Account Number** field has been renamed to **National Account Number**. The change covers customers who do not use tire accounts.

- **TMT-316625**

The TA **Repair Request Form** now shows comments in order from newest to oldest. Order is based on the time submitted. Before, comments submitted for the same request status were listed in chronological order (that is, from oldest to newest).

- **TMT-316716**

The TA and TMT ServiceConnect **Repair Request Forms** now show a user icon next to the username in the top-right corner of the form. At this time, there is no functionality applied to the icon.

- **TMT-316838**

TMT now verifies vehicle identification number (VIN) length for the TA **Repair Request Form**. Valid VINs must be 6, 8, or 17 characters in length. If you try to save a request form for a unit with an invalid VIN length, an error message opens. It states that the VIN must be 6, 8, or 17 characters in length. You cannot submit the form until you correct the error.

[Repair Order > Vendor Parts on Fly](#)

- **TMT-315274**

See [TMT-315274](#) in **Masters menu > Parts Catalog**.

[Repair Order Template](#)

- **TMT-310737**

You can add fee line items to Standard Repair Order (RO) and Vendor RO templates.

[Repair Orders Listing](#)

- **TMT-312022**

The **Repair Orders Listing** page has new columns in the Section view:

- **Component Description**
- **Warranty Type**
- **Billable**

- **TMT-314266**

The Repair Orders Listing Page has a new column: **Vendor Name**.

- **TMT-314672**

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

[Warranty Claim](#)

- **TMT-314759**

See [TMT-314759](#) in **Orders menu > Campaign**.

▪ TMT-315073

You can now edit the **Warranty Status** field at any time. It does not become read-only when the **Order Status** is changed to *Closed*.

Note: The **Order Status** field remains read-only once it is changed to *Closed*.

Warranty Claims Listing

▪ TMT-314672

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

Warranty Potential Claims

▪ TMT-314672

See [TMT-314672](#) in **Orders menu > Campaign Listing**.

▪ TMT-315880

The **Warranty Potential Claims Listing** page has a new column: **Engine Serial**. The data for this column comes from the **Serial Number** field of the **Units** page **Specs** tab.

Progressive Web Application Asset Inspection App

TMT Asset Inspection lets drivers perform pre and post-trip inspections, review inspection reports, and confirm repairs from mobile devices.

Here are the major enhancements for V.2022.2:

▪ **New pages: Login and Employee Login (TMT-315966)**

These let users log in to the Asset Inspection App. Logging in opens the **Home** page.

Before users can log in, they must have **Mobile Permissions** turned on for their assigned user role. You set permission and roles on the **Manage Mobile Permissions** page in TMT by going to **Menu > Mobile Security > Manage Mobile Permissions**.

Note: Users cannot log in if you do not have an Asset Inspection App license.

▪ **New page: Select Unit (TMT-316155)**

The new **Select Unit** page lets you find units. The page has these fields:

- **Unit search**
- **Unit description**
- **Unit's primary meter type** (read-only)
- **Last meter reading for the primary meter** (read-only)

Clicking the back arrow on the page takes you to the **Home** page.

Once you select a unit, you can use two new tabs (TMT-316163):

- **Next Services Due**

Lists pending work and preventive maintenance (PM) due items

- **Open Tickets**

Lists open inspection ticket items

- **New page: New Inspection (TMT-316154, TMT-316177)**

The new **Inspection Menu** page lets you create inspection tickets. You open the **New Inspection** page from the **Select Unit** page. Once you select a unit, you can click **Start Inspection**. The **New Inspection** page opens.

The **New Inspection** page has three fields at the top of the page. The **Unit** and **Description** fields show the values for your selected unit. They are read-only fields. The third field is **Inspection Type**. This field is required. Clicking in it opens the **Inspection Type** menu, where you can select from all the available active codes. The bottom of the page has two tabs:

- **Meters**

This tab is open by default. It shows the meters available for the selected unit. The tab only shows those meters that have the **Require Inspection** option set to *YES* on the **Units** page. Each meter shows the **Last reading value** by default.

- **User Defined (TMT-316125)**

This tab is not available if the meters have incorrect values. You must enter valid readings before you can open it. It shows only UDFs with valid code. Clicking on a UDF opens a menu with the available codes for the field.

The **User Defined** tab shows only the fields that have active codes assigned on the **System Setup** page. You assign codes by going to **Menu > Setup > System Setup > User Fields > Inspection**.

- **New tabs on the Perform Inspection page (TMT-316252)**

The **Perform Inspection** page has three new tabs that let you handle inspection items at various stages:

- **Pending**

Lists the cards for pending inspection items. Each card has **Pass** and **Fail** buttons. You can move inspection items to the **Passed** tab by clicking **Pass** from the **Pending** tab (TMT-316254).

- **Failed**

Lists cards for inspection items that failed. Each card has **Edit** and **Pass** buttons.

- **Passed**

Lists cards for inspection items that passed. Each card has a **Fail** button.

The **Perform Inspection** page also has two buttons:

- **Cancel**
Closes the page and returns you to the **New Inspection** page.
- **Inspection Complete**
Marks the inspection item as complete.

- **Completing Inspections (TMT-316300)**

You can complete inspections. When you click **Complete Inspection**, the **Safe to Operate** pop-up window opens. It shows the message "Is this equipment safe to operate?"

- Click **Yes** if the equipment is safe.
- Click **No** if the equipment is not safe to operate.

If the **Signature Required** Application option is set to **YES**, the **Signature** pop-up window opens once you click **Yes** or **No**. Enter your signature and click **Done**. The screen opens the Success message, which states, "Successfully Created Inspection." Clicking **OK** closes the message and redirects you to the **Select Unit** page.

Note: You can find the **Signature Required** Application option in TMT. Go to **Menu > Setup > Options > Application Options > Mobile Applications > Driver Inspection Tickets**.

Reports menu

Report Scheduler and SSRS Report Viewer

- **TMT-315517, TMT-315518**

Additional file formats are now available for emailing SSRS reports:

- CSV
- Excel
- PDF

Select the format you want from the **Attachment Format** drop-down list when emailing any SSRS report.

Security menu

Page Security > Manage Page Permissions

- **TMT-315237**

See [TMT-315237](#) in **Orders menu > Campaign**.

▪ TMT-315239

You can control users' access to the **Campaigns Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

▪ TMT-315240

You can control users' access to the **Inspection Tickets Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

▪ TMT-315241

You can control users' access to the **Fuel Ticket Listing** page by role using the **Manage Page Permissions** page. See [TMT-315237](#) in **Orders menu > Campaign** for more information on assigning permissions.

Setup menu

Options > Application Options > Purchasing

▪ TMT-315245

There is a new purchasing option: **Do Not Allow Misc Lines on Standard POs**. It controls whether you can add miscellaneous lines on POs.

- If set to *NO* (default), you *can* have miscellaneous lines on standard POs.
 - The *Misc* option is available in the **Line Type** field drop-down list. The field is in the **Create New Line** pop-up window.
 - **Misc** shows up as a column in the **Order Totals** grid. The value matches the total value of the miscellaneous lines, if any.
 - You *can* edit miscellaneous line rows in the **Receive Purchase Order** pop-up window.
 - **Misc** shows up in the summary in the **Receive Purchase Order** pop-up window.
- If set to *YES*, you *cannot* have miscellaneous lines on standard POs.
 - The *Misc* option is not available in the **Line Type** field drop-down list. The field is in the **Create New Line** pop-up window.
 - There is a **Misc** column in the **Order Totals** grid, but the total is always \$0.00.
 - You *cannot* edit miscellaneous line rows in the **Receive Purchase Order** pop-up window.
 - **Misc** shows up in the summary in the **Receive Purchase Order** pop-up window, but the total is always \$0.00.

This option applies only to the Application level.

[Options > Application Options > Purchasing > Approvals](#)**▪ TMT-315940**

There is a new node under the **Purchasing** section: **Approvals**. To see the Approval options, go to **Menu > Setup > Options > Application Options > Purchasing > Approvals**.

These options that were under **Purchasing** have been moved under **Approvals**:

- **Require PO Approval Levels**
- **Allowed Cost Overage** (only available if **Require PO Approval Levels** is set to YES)
- **Require VRO/PO Approval Levels**
- **Allowed Cost Overage** (only available if **Require VRO/PO Approval Levels** is set to YES)
- **Show Pending PO Number When PO Status Is Pending**

[Options > Application Options > Repairs](#)**▪ TMT-316360**

The **Require Repair Site** Application option has been moved and renamed:

- It has moved from the **Repairs** node to the **Repairs > Defaults** node.
- The name has been changed from **Require Repair Site** to **Repair Site field is required**.

[Options > Integration Options](#)**▪ TMT-313503**

The ability to select a *<DEFAULT>* or *<OVERRIDE>* value for **Payment Method** in the TA Default XREF has been removed. You must set a payment type cross-reference from TA to TMT.

If you click **Repair Request** for a TA VRO, but the payment method has not been set in the TMT TA Default XREF, an error message opens. It states, "Payment method for TravelCenters of America is not valid. Please check your Integration Options page."

To set a payment method cross-reference, open TMT and go to **Menu > Setup > Options > Integration Options > TravelCenters of America > DEFAULT XREF**. In the **Options** pane, select **Pay Method**.

[Options > Integration Options > TMT ServiceConnect > General](#)**▪ TMT-314006**

The General node has a new option: **Link Open Road Call for VRO**.

If you have a license for the Road Calls module, you can set this option.

- *NO* (default)

New orders imported from ServiceConnect will *not* link to open road calls

- **YES**

New orders imported from ServiceConnect *will* automatically link to open road calls if there is one for the assigned unit.

Note: This option applies to the TMT ServiceConnect integration only. The TA integration does not have this option, but TA orders will automatically link to open road calls.

Options > Shop Options

- **TMT-316360**

See [TMT-316360](#) in **Setup menu > Option > Application Options > Repairs**.

Options > User Options

- **TMT-315941**

This option has been removed from the **User** options page: **Allow User to Only Create Pending Purchase Requests**. From this point on, the program only looks at the approval levels defined on the **Approval Levels** page. Go to **Menu > Setup > Order Setup > Approval Levels** to open the page.

For a vendor repair PO, if you do not have an approval level assigned when you create an order, the order is set to *Needs Approval*. The VRO order status is set to *Open*, but its PO is set to *Pending* and the number is masked.

For a vendor repair order PO, if you have an approval level of \$100 when you create an order, its approval status is set to *Approved* if the line total stays within the Vendor Estimate. If the amount exceeds the estimate, the approval status changes to *Needs Approval*. The order status changes to *Pending*.

- **TMT-315942**

- Two options have been removed from the **User** options page:

- **Allow User to Approve Vendor Repair Order Requests**
- **Allow User To Approve Pending Purchase Requests**

From this point on, the program only looks at the approval levels defined on the **Approval Levels** page. Go to **Menu > Setup > Order Setup > Approval Levels** to open the page.

If you have an approval level, then you can approve orders. If you do not have an approval level, the program will prevent you from approving orders.

- The Purchase Orders Listing page now shows the **Approve** button VRO POs when orders are in **Needs Approval** status.

- **TMT-315979**

This option has been removed from the **User** options page: **If PO Approval Amount is Exceeded, Create Pending PO**. From this point on, the program only looks at the approval levels defined on the **Approval Levels** page. Go to **Menu > Setup > Order Setup > Approval Levels** to open the page.

If you open a PO where the **Estimated Amount** is above your approval limit, the PO changes to *Pending* status and the approval status changes to *Needs Approval*.

[Order Setup > Inspection Ticket Setup > Assignments](#)

▪ **TMT-316182**

When TMT sends repair order sections to eFleet Solutions (eFS), it can now include the mechanic name or names. The data is sent to the EFS Repaired Event in the NOTES data object.

[Order Setup > Re-Open Order](#)

▪ **TMT-315591**

The **System Message** pop-up window now shows repair order numbers as hyperlinks. This lets you open the repair order immediately.

SSRS menu

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library](#)

▪ **TMT-257222, TMT-315360**

User-defined fields (UDFs) 1 through 8 now show their descriptions instead of their UDF numbers. For example, if you set **UDF1** to *Chassis Brand*, the report now shows *Chassis Brand*.

The change affects these reports:

- **Customers > Customer Gross Profit**
- **Customers > Customer Invoices Listing**
- **Customers > Customer Listing**
- **Customers > Customer Units Listing**
- **Units > Unit Parts Usage Listing**
- **Units > Unit Utilization Report**


[Reports > Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Part Cost History Summary Report](#)

▪ **TMT-316895**

The report correctly uses the average cost (AVGCOST) accounting method when you set the **Inventory Method** to *AVG Cost*.

Trimble Technician Portal

▪ TMT-313079

You can see the meter reading history for each meter in the **Job Detail** panel. The  **History** icon is next to each meter in the **Job Detail** panel **Meter Reading** column. Clicking the icon opens a new **Meter Reading History** panel. It shows past readings for the meter.

There is an **Include ignored** field in the upper-right corner of the panel. It has these options:

▪ *NO* (default)

The panel *will not* show meters marked as *Ignore*.

▪ *YES*

The panel will show *all* meters, including ones marked as *Ignore*.

▪ TMT-314950

▪ **Logging in**

An **Account Name** field and a **Sign In with Single Sign-On** button have been added to the bottom of the **Login** page. TTP must be set up for single sign-on (SSO) for these items to be available. SSO users must be registered in TMT Web. If you are not registered, the application shows the error message "User not found in TMT."

TTP does not automatically redirect unauthenticated users to the SSO workflow. Unauthenticated users see the standard Login page.

▪ **Logging out**

- When you log out, TTP logs you out of SSO (that is, Azure) as well as the web framework. It also clocks you out. After logging out, TTP redirects you to the standard login page.
- If you are logged in to TTP, then you can log in to TMT Web by clicking **Single Sign-On**. You do not have to go through the SSO workflow again.
- If you are logged in to TMT Web, you can log in to TTP by entering the account name and clicking **Sign In with Single Sign-On**. You do not have to go through the SSO workflow again.
- Currently, you have to log out of each application separately. For example, if you are logged in to both applications, and you then log out of TTP, you are still logged in to TMT Web until you manually log out.

▪ **Redirecting to different versions**

TTP supports SSO for V.22.1. Once you enter the **Account Name**, the application shows the message "Based on the API entered, redirecting to the appropriate TTP version." TTP then redirects you to the V.22.1 **Job Login** page.

TTP V.21.3 does *not* support SSO. If you try to use SSO, the application shows the error message, "Single Sign-On is not supported for version 21.3."

Redirection based on API version (apiversion) will now allow only *one* time login for TTP versions 22.2, 22.1, and 21.3. For example, if you enter apiversion 22.1, TTP redirects you to the V.22.1 **Employee Login** page instead of the V.22.1 **Login** page.

- **Account Name**

The **Account Name** is a required field if you want to use SSO. *Account Name* is the *Tenant* name. It should match your Trimble setup.

If there is a mismatch between the names, TTP shows the error message "No configuration found for [Account Name]. Please contact support."

- **Limitations**

- The user email address should be no more than 40 characters.
- You must allow pop-up windows (that is, you cannot block pop-up windows) if you want to use TTP SSO. This applies to Apple and Android phones and tablets. If you block pop-up windows, SSO will not work correctly.

Follow the directions for your tablet and browser to allow pop-up windows.

- **TMT-315060**

The drop-down lists for fields show the field options in alphabetical order.

- **TMT-315157**

The new **Display Last Meter Reading** option lets you set TTP to show the last reading values for meters. You can apply this option at the Application and Shop levels. The values are:

- *NO*

TTP hides the last reading value for meter fields.

- *YES* (default)

TTP shows the last reading value for all meter fields.

The option is available in two places:


- As an Application option

Go to **Menu > Setup > Options > Application Options > IWS > Repairs**.

- As a Shop option

Go to **Menu > Setup > Options > Shop Options > IWS > Repairs**.

- **TMT-315459**

You can open the Repair Order Detail report from the **Job Activity** screen. Clicking  **Report** opens the Repair Order Detail report for that RO. You can also download and print the report.

▪ TMT-315478

TTP opens a confirmation message pop-up window when you try to go to the **Incomplete/Complete/Pause** menu without saving your Check-off list changes. The message states, "You have unsaved changes in the Check-off list. Do you want to continue?" The window has two options:

▪ Yes

Clicking **Yes** discards your Check-off list changes and opens your selected menu.

▪ No


Clicking **No** closes the pop-up window so you can save your changes before proceeding.

▪ TMT-315562


The **RO Create** command has been removed from the **Filter** menu. It has been replaced with the **Unit** command. Selecting **Unit** lists all units in the shop.

You now create ROs and sections with the new  **RO Create** icon. Clicking the icon lets you create an RO and section. The rules of creating ROs and sections have not changed.

Notes:

1. Whether you can create ROs in TTP depends on the **Allow RO Creation** Application option set in TMT:
 - If the option is set to *YES*, you *can* create ROs and sections in TTP and the **Job Dashboard** shows  **RO Create**.
 - If the option is set to *NO*, you *cannot* create ROs or sections in TTP. The icon is not shown on the Job Dashboard.

The option is set in TMT. Go to **Menu > Setup > Options > Application Options > IWS > Repairs**.

2. If you can create ROs in TTP, you can use the **Unit** command with the new  **RO Create** icon to create an RO for the selected unit.

▪ TMT-315639

Clicking  **Report** opens a report drop-down list. Two reports are available:

▪ Repair Order Detail

Lists the task details (that is, the job code checklist)

▪ Repair Order Section Work Card

Shows the section work card details for the section you have selected

You can see, download, and print both reports.

▪ TMT-315641


You can see, download, and print the Mechanic Signoff Sheet Report from TTP. The report automatically opens when you:

- Complete a section
- Complete an RO
- Close an RO

Notes:

1. The **Print Mechanic Signoff Sheet On RO Close** option must be set to *YES* to use this feature. You can set this option at the Application and Shop levels.
 - To set the Application option, open TMT and go to **Menu > Setup > Options > Application Options > IWS > Reports**.
 - To set the Shop option, open TMT and go to **Menu > Setup > Options > Shop Options > IWS > Reports**.
2. You must have a custom Mechanic Signoff Sheet set up and complete **Repair Order Signoff Sheet** option with the path to an SSRS report. You can find the **Repair Order Signoff Sheet** Application and Shop options are child options of the **Print Mechanic Signoff Sheet On RO Close** options.

▪ TMT-315642

The **Check-off** tab of the **Job Activity** has a new icon:  **Task Details Report**. You can click the icon to see, download, and print the report. If the task has no details, the icon is not shown.

Note: You can find task details on the TMT **Job Code Definitions** page. You open the page by going to **Menu > Setup > Repair Order Setup > Job Code Definitions**.

▪ TMT-315856

You can edit past meter reading values for each reading in the **Meter Reading History** panel. Clicking **Edit** opens the **Edit Meter Reading** card. It has three fields:

▪ Edit Reading

If you set **Edit Reading** to *YES*, it turns on the **Reading** field and turns off the **Mark as Ignored** field.

▪ Mark as Ignored

If you set **Mark as Ignored** to *YES*, it turns off the **Edit Reading** and **Reading** fields.


▪ Reading

If you set **Edit Reading** to *YES*, you can edit this field.

Once you have made your changes, you can click **OK** to save them. Clicking **Cancel** discards them.

Note: This feature is only available when the **Allow Meter Edit** Application option is set to *YES*. You can set this option in TMT. Go to **Menu > Setup > Options > Application Options > IWS > Repairs**.

- **TMT-315897**



The **Unit Repair History** panel has a new icon:  **Report**. Clicking the icon opens the Repair Order Detail report for the selected repair order selected in the repair history list. You can see, download, and print the report.

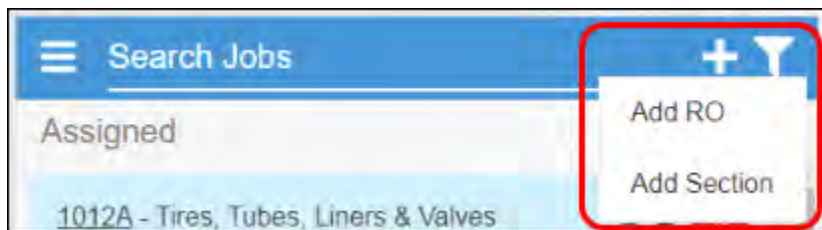
- **TMT-315928**

TTP has two new error messages to alert you when a customer has a suspended account:


- When you try to start a job for a suspended customer, TTP shows the message "Customer is suspended. Cannot charge lines."
- When you try to create an RO for a unit that is linked to a suspended customer from **Unit Dashboard** or **RO Template** pages, TTP shows the message "Customer is suspended. Cannot create RO for Unit [Unit Number]".

- **TMT-315989**

The **Add** button has been replaced with the  **Add** icon. It is next to the **Filter** menu. Clicking  **Add** opens a menu where you can select **Add RO** or **Add Section**.



Whether you see the icon depends on your TTP setup.

- If the **Allow RO Creation** and/or **Allow Section Creation** Application options are set to *YES*,  **Add** is available.
- If they are set to *NO*, the icon is hidden.

To set these options, open TMT and go to **Menu > Setup > Options > Application Options > IWS > Repairs**.

Note: This icon is not available if you are in the filter view for Unit or RO Template.

- **TMT-316074**

You can open, download, and print the Repair Order Work Card report from the **Job Activity** screen. See [TMT-315639](#) under Trimble Technician Portal.

▪ TMT-316075

You can open, download, and print two reports from the **Job Detail** panel, which is located in the **Job Dashboard** and **Job Activity** screens. See [TMT-315639](#) under Trimble Technician Portal.

Resolved issues

Activities menu

Accounting > Accounting

▪ TMT-314655

The **Purge All** and **Purge Selected Documents** buttons work correctly. You can see the purged transaction again in Export Preview.

▪ TMT-316379

You can use the TMT Web QuickBooks Interface to open these records without getting a 504 error:

- General Ledger (GL)
- Accounts Payable (AP)
- Accounts Receivable(AR)
- Error Handler
- Invoice Payment

▪ TMT-316426

The **Export/Preview** shows only the fields you selected on the **Export Transaction** tab.

▪ TMT-316477

- You can see details over a month range when using **Export/Preview** on the **Export Transaction** tab.
- If the data takes too much time to load, the page shows an error message: "Preview timed out. Please restrict selection further or increase SQL Command Timeout setting."

Accounting > Accounting > IES

▪ TMT-315998

When you click **Search** or refresh the page, exported orders are removed from the GL, AR, and AP tabs.

Fuel Data Import

▪ TMT-314111

The program imports valid utilization ticket data without errors. In the past, the program had logged errors even when the data in the import file was valid.

- **TMT-315743**

You can add a negative quantity during the fuel data import. This lets you fix entry errors by changing the inventory on hand quantity.

- **TMT-315955**

The program creates the correct number of fuel tickets and exceptions. This happens even if an imported file has an invalid unit.

Parts Workstation

- **TMT-315752**

You cannot add invalid serial parts to an RO. If you try, the program shows you a warning message: "Serial Number [number] does not exist in the Inventory." You cannot save your changes until you enter the correct serial number.

- **TMT-316359**

You can use **Fill Request** and **Fill All Requests**. You will not get errors as long as the Shop Inventory has enough of the requested parts on hand.

- **TMT-316652**

Parts charged from Parts Workstation show the valid charge amounts.

Shop Planner

- **TMT-314761**

Hyperlinks work correctly.

Shop Scheduler

- **TMT-314761**

See [TMT-314761](#) in **Activities menu > Shop Planner**.

Database

- **TMT-316281**

You can export more than 255 files without the program:

- Creating a blank 256th file
- Stopping the SQL stored procedure

- **TMT-316446**

The execution process runs for all available orders even after finding an error.

Inventory menu

Requisition List

- **TMT-316009**

The program's performance for creating part transfers for multiple records has improved.

Masters menu

Company

- **TMT-314226**

The program takes any day that you enter in the **Year Starts On** field and creates a calendar year from that date.

Company > Accounting Year Tab

- **TMT-316115**

You can close a period without receiving an error message.

Shop Inventory

- **TMT-314200**

The **Cost History** tab updates correctly when you add, edit, or delete any part in a repair invoice.

- **TMT-315218**

You can renumber local parts in the Shop Inventory.

- **TMT-315233**

When you return a tire to inventory from the **Tire Review** page, the program applies the correct item value. It is based on the accounting method in use. The **Shop Inventory** page **Cost History** tab shows the correct item price.

- **TMT-315606**

When you return a part on a PO using the **Return** button, the program adds that PO number to the **Cost History** tab for that part.

- **TMT-316071**

The part value in the Shop Inventory's **Costs** and **Cost History** tabs match the part value added to the RO. It matches the cost coming into inventory from the RO line.

Units

- **TMT-314662**

Unit User Field labels match the **Unit Search** field's drop-down list.

- **TMT-315232**

Updates to a unit's physical location remain consistent when updating the RO status for standard and vendor repair orders.

Note: The **Set Unit Physical Location On RO Status Change** Application option must be set to *YES* to use this feature. To set this option, go to **Menu > Setup > Options > Application Options > Repairs**.

- **TMT-315948**

The **Search** feature works correctly after you update meter readings on the **Units** page **PM Schedules** tab.

- **TMT-316492**

When the selected unit has no more open ROs (standard or vendor), the program sets the unit's physical location back to its previous location. The previous location cannot be *IN-SHOP* or *AT-VENDOR*. If the unit has no previous location available, the program sets the location to *IN-SERVICE*.

McLeod Integration

- **TMT-315832**

Transactions with a mix of inactive and active disbursements successfully generate XML files during batch export. To use this feature, the **Ignore Inactive Disbursement Rules** Application option must be set to *YES*. You can set this option by going to **Menu > Setup > Options > Application Options > Accounting**.

Mobile Mechanic Application

- **TMT-313312**

The application syncs successfully after you correct a bad meter reading. This applies to cases where offline ROs were created with bad meter readings.

Orders menu

Campaign and Campaigns Listing

- **TMT-315212**

You can search and view Reports Only units in:

- All order and orders listing pages
- Historic orders

Estimate and Estimates Listing

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

Fuel Tickets Listing

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-315495**

You can create consecutive fuel tickets without getting errors.

- **TMT-315743**

For details, see [TMT-315743](#) in **Activities menu > Fuel Data Import**.

- **TMT-316099**

Fuel tickets created from edited exceptions are added to the correct batch.

Indirect Charge

- **TMT-315573**

You can add parts to an indirect order correctly. The program uses the correct unit of measure (UOM) for the part and the correct decimals for the **Quantity** value.

Inspection Tickets Listing

- **TMT-313890**

- The **Comments** field shows the latest comment without duplication
- The page uses the **Append Complaint Comment** Integration option, if applicable. To set this option, go to **Menu > Setup > Options > Integration Options > PeopleNet Basic Info > DVIR**.

Invoice

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-314722, TMT-315904**

The program uses custom invoice reports based on the **Invoice Detail Report** option. You can set this option at the Application, Customer, and Shop levels. If you have settings at more than one level, the program applies the settings in this order:

1. Customer level
2. Shop level
3. Application level

To set the **Invoice Detail Report** option, go to:

- **Application level**

Menu > Setup > Options > Application Options > Reports > Invoicing

- **Customer level**

- Menu > Setup > Options > Customer Options > Reports > Invoicing**

- **Shop level**

- Menu > Setup > Options > Shop Options > Reports > Invoicing**

- **TMT-314995**

You can update part line details on the **Invoice** page even if the part number contains a special character, such as a colon.

- **TMT-316019**

When you adjust a price on an invoice, the program also adjusts the fee price based on the item you adjusted.

- **TMT-316514**

The **Invoice Closed Date** shows the date and time when you closed the invoice. It does not use the current date and time.

Invoices Listing

- **TMT-311996**

The program can calculate labor estimate hours correctly when you generate invoices. To do this, you must have these options set to *NO*:

- **Sum Labor By Job Code**

- **Sum Labor By Task Time**

You can set these options at Application, Shop, and Customer levels.

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-314722**

See [TMT-314722](#) in **Orders menu > Invoice**.

- **TMT-315904**

See [TMT-315904](#) in **Orders menu > Invoice**.

Purchase Order

- **TMT-313759**

You cannot return more parts than are listed on a Credit PO. If you try, the program shows an error message: "Cannot return more than inventory on hand." For example, you will see the message if there are two parts on the PO, and you try to return three.

- **TMT-314047**

All line totals on Credit POs use negative values by default. If you need to, however, you can edit the negative values for these line types and make them positive:

- **Freight**
- **Tax**
- **Misc**

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-313149**

The **Invoice** tab **Amount Billed** field updates itself automatically when you apply a receipt. This is true regardless of the **Culture Override** setting for the user.

- **TMT-315446**

Two users can edit the same VRO without causing line errors between the VRO and the PO. For example, assume Users A and B are working on the same VRO. User A deletes a line. User B makes a change and tries to save the VRO. The program alerts User B that someone has made a line change, and they must refresh the VRO before saving.

- **TMT-315543**

You can delete PO sections after someone deletes a part from an RO, even if the part was directly received from a PO.

- **TMT-315549**

You can edit these fields on a closed standard PO:

- **Check Date**
- **Check Number**
- **Amount Paid**
- **Packing Slip Number**
- **Invoice Comments**

Purchase Orders Listing

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

Repair Order

▪ TMT-313492

Deleting a negative part line on an RO does not cause inventory violation errors when you have sufficient quantity on hand in the Shop inventory.

▪ TMT-314810

The program keeps your selected **Priority** value when you close an RO.

▪ TMT-314973

The **Job Code** field is not required when you:

- Have the **Default Existing Job Code & Allow Assignment W/O Job Code** Application option set to *YES*
- Create an RO section
- Enter a component code
- Assign a mechanic

To open the Application option, go to **Menu > Setup > Options > Application Options > Repairs > Job Codes**.

▪ TMT-315062

The **Job Code Search** correctly returns all job codes associated with unit types.

▪ TMT-315074

When you change an RO **Order Status** to *CLOSED*, the program updates the **Accounts** tab with the **Account Disbursement Summary**.

▪ TMT-315212

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

▪ TMT-315230

If you close an RO and get the **Items on Request** error message, it now includes more details, such as:

- **Request Type**
- **Section**
- **Parts**
- **Quantity**

For example, if you request the parts from Manual Requisition, the error message shows the **Request Type** *MANUAL*. If you request the parts from IWS or TTP, the **Request Type** is *REQUEST*. If you request the parts using picklist definitions, the **Request Type** is *PICKLIST*.

- **TMT-315446**

See [TMT-315446](#) in **Orders menu > Purchase Order**.

- **TMT-315563**

The program saves meter readings when you create an RO from an RO template that has a unit with **Auto Load Meter** set to *YES*. On the RO header, the **Unit** and **Customer** fields are inactive.

[Repair Order > Repair Request Form](#)

- **TMT-315874**

When TA repair requests reach *Estimate Approved* status, these fields become read-only:

- **Asset Location**
- **Driver Name**
- **Driver Phone Number**

They will remain read-only for all other steps after *Estimate Approved*.

- **TMT-316697**

The TA Repair Request **Driver Phone Number** field now defaults to a format of (000) 000-0000. You can only enter up to 10 digits. If you enter less than 10 digits, the program adds zeros at the front until all 10 digits are filled. You can modify this later.

[Repair Order Template](#)

- **TMT-315915**

You can add a vendor part that is not in the Inventory.

[Repair Orders Listing](#)

- **TMT-314360**

The **Repair Order Listing** page returns the correct results when you search for a shop.

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-315997**

- The **Repair Orders Listing** page shows rows with a white background when the order is approved or auto approved.
- The **Needs Approval** column shows the correct value (*Y* or *N*) based on the order's current approval status.

[Warranty Claim and Warranty Claims Listing](#)

- **TMT-315212**

For details, see [TMT-315212](#) in **Orders menu > Campaigns Listing**.

- **TMT-315922**

The program associates the correct RO when you create a direct claim from the **Warranty Claims Listing** page.

Warranty Potential Claims

- **TMT-316936**

An RO potential claim has a single entry even if you mark it *Invalid*, reopen the RO, and close it again.

Reports menu

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Period Close > Period Close Account Analysis Report

- **TMT-315716**

The report runs correctly for companies with more than 12 accounting periods in an accounting year.

Note: The maximum number of periods you can have in an accounting year is 15.

- **TMT-316172**

The report includes all PO lines. In the past, the report omitted lines if the line had the same quantity and cost as another line.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part I Inventory > Part I Inventory Listing by Bin

- **TMT-314063**

The report correctly excludes bins with zero parts on hand if you set the **Parts With Zero Quantity on Hand** field to *Exclude*.

Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part I Inventory > Parts Usage Report

- **TMT-315285**

The report includes vendor parts when you set **Usage** to *Parts with usage*.

- **TMT-315764**

The report's **On Order** count matches the **Shop Inventory** count.

Setup menu

Options > Application Options

▪ TMT-316055

The **RO Default Repair Class** option is independent. It is not a child option of **Repair Class field is required**.

Options > Application Options > Invoicing

▪ TMT-315064

There is a new invoicing option: **Require Customer DOT Number**.

- If set to *NO* (default), the customer DOT number is *not* required when creating or updating customer details.
- If set to *YES*, the customer DOT number *is* required for entry when creating or updating customer details.

This option applies only to the Application level.

▪ TMT-315453

- The **Approval Levels** page has a new button: **Include Inactive Users/Exclude Inactive Users**.

The page excludes inactive users by default, so when you first open the page, the button reads **Include Inactive Users**. If you click the button, the page includes inactive users and the button changes to **Exclude Inactive Users**.

- The **Assign Approval Levels** grid has a new column: **Active**.

The column shows a checkbox for each user in the grid. If the user is active, the checkbox is selected. If the user is inactive, the checkbox is cleared. The checkboxes are read-only.

These new items work together to make sure you only assign approval levels to active users.

Options > Integration Options > QuickBooks > Connection

▪ TMT-315786

There is a new **Connection** option: **SSL Certificate Path**. When you enter the path to your SSL certificate in this option, the program adds it to the end of the **URL** entry.

For example, assume you have these entries on your **Integration Options** page:

- **URL**

https://myserver.mydomain.com:1234

- **SSL Certificate Path**

C:\Folder\Certificates\mycertificate.cer

The program combines these entries into

`https://myserver.mydomain.com:1234;SSLServerCert=<C:\Folder\Certificates\mycertificate.cer>.`

This final value is what TMT passes to the integration CData Connector.

If you leave the **SSL Certificate Path** option blank, TMT sends your CData Connector **URL** entry only.

Options > Shop Options

▪ TMT-316055

See [TMT-316055](#) in **Setup menu > Options > Application Options**.

Tool Kit > Integration Tool Kit REST

▪ TMT-316043

The **Title** parameter in the REST API completes POST and PUT operations without issues.

▪ TMT-316101

The **User Defined Field** parameter in the REST API creates and updates the **User Defined Field** value in the database.

SkyBitz integration

▪ TMT-315964

The SkyBitz integration now supports Transport Layer Security (TLS) 1.2.

Trimble Technician Portal

▪ TMT-315676

TTP now uses the same user lock out security as TMT Web. If you enter your password incorrectly five times, TTP locks you out. If you try to sign in again before the lock out time is over, TTP shows an error message. It states, "User Account Locked for number more minutes. If you need assistance, contact a system administrator."

▪ TMT-315958

TTP correctly shows the **Cause/Correction** pop-up window in portrait and landscape view. All buttons are visible and available for use.

▪ TMT-315990

When you add a job code to an RO, TTP adds the task checklist, if applicable.

To use this feature, these Application options must be set to **YES**:

- **Allow Employee Assignment Without A Job Code**
- **Auto Create Tasks On Job Code Assignment**
- **Auto Default Jobcode (Component/Complaint)**

To set these options, open TMT. Go to **Menu > Setup > Options > Application Options > Repairs > Job Codes**.

- **TMT-316709**

Time calculations are rounded without causing time record overlaps. TTP uses the same date and time for:

- The labor line for the new activity that the user selected
- Closing out the Lunch or Break record

TMT Fleet Maintenance V.2022.1.3 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Resolved issues

Activities menu

Accounting > Accounting

- **TMT-316379**

You can use the TMT Web QuickBooks Interface to open these records without getting a 504 error:

- General Ledger (GL)
- Accounts Payable (AP)
- Accounts Receivable(AR)
- Error Handler
- Invoice Payment

Parts Workstation

- **TMT-316359**

You can use **Fill Request** and **Fill All Requests**. You will not get errors as long as the Shop Inventory has enough of the requested parts on hand.

TMT Fleet Maintenance V.2022.1.2 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Enhancements

Product wide

▪ TMT-315807

The Web installer has these improvements:

- It works with SQL Server 2016 common language runtime (CLR) types and SQL Server 2016 shared management objects (SMO).
- It can run the DB Test Connection through the SQL Server 2008R2 CLR Types without errors, even if the server does not have SQL SMO.
- It only checks the SQL Server 2016 minimum requirement on the SQL Server. It does not check for the requirement on the Web or Application servers.
- The Install links on the **Configuration requirements** page let you install the 64-bit SMO and CLR types directly from the installer. If you want to install the 32-bit version, you must do it manually.

Masters menu

Customers

▪ TMT-315064

The new **Customer DOT Number** field has been added to the:

- **Customers** page, **Definition** tab
- **Add New Customer** pop-up window
- **Unit/Customer on the Fly** pop-up window

If you enter a customer DOT number that is already in use, the program shows the warning message "Customer DOT Number *number* has already been applied to Customer *Customer ID*."

If the **Require Customer DOT Number** Application option is set to *YES*, you must complete the **Customer DOT Number** field when you create or update customer details. For details, see [TMT-315064](#) in **Setup menu > Options > Application Options > Invoicing**.

Parts Catalog

▪ TMT-315274

The program prevents you from using a deactivated part type when you create a new part.

Shop Inventory

- **TMT-315274**

For details, see [TMT-315274](#) in **Masters menu > Parts Catalog**.

Vendor Parts

- **TMT-315274**

For details, see [TMT-315274](#) in **Masters menu > Parts Catalog**.

Orders menu

Purchase Order

- **TMT-315245**

There is a new Application option: **Do Not Allow Misc Lines on Standard POs**. It controls whether you can add miscellaneous (MISC) lines to POs. For details, see [TMT-315245](#) in **Setup menu > Options > Application Options > Purchasing**.

Purchase Order > Vendor Parts on Fly

- **TMT-315274**

For details, see [TMT-315274](#) in **Masters menu > Parts Catalog**.

Repair Order

- **TMT-313046**

When you have the Tire Module, you can remove a tire from a unit that does not have a tire configuration.

Repair Order > Vendor Parts on Fly

- **TMT-315274**

For details, see [TMT-315274](#) in **Masters menu > Parts Catalog**.

Setup menu

Options > Application Options > Invoicing

- **TMT-315064**

There is a new invoicing option: **Require Customer DOT Number**.

- If set to *NO* (default), the customer DOT number is *not* required when creating or updating customer details.
- If set to *YES*, the customer DOT number *is* required for entry when creating or updating customer details.

This option applies only to the Application level.

[Options > Application Options > Purchasing](#)

▪ **TMT-315245**

There is a new purchasing option: **Do Not Allow Misc Lines on Standard POs**. It controls whether you can add miscellaneous lines on POs.

- If set to *NO* (default), you *can* have miscellaneous lines on standard POs.
 - The *Misc* option is available in the **Line Type** drop-down list in the **Create New Line** pop-up window.
 - **Misc** shows up as a column in the **Order Totals** grid. The value matches the total value of the miscellaneous lines, if any.
 - You *can* edit miscellaneous line rows in the **Receive Purchase Order** pop-up window.
 - **Misc** shows up in the summary in the **Receive Purchase Order** pop-up window.
- If set to *YES*, you *cannot* have miscellaneous lines on standard POs.
 - The *Misc* option is not available in the **Line Type** drop-down list in the **Create New Line** pop-up window.
 - There is a **Misc** column in the **Order Totals** grid, but the total is always \$0.00.
 - You *cannot* edit miscellaneous line rows in the **Receive Purchase Order** pop-up window.
 - **Misc** shows up in the summary in the **Receive Purchase Order** pop-up window, but the total is always \$0.00.

This option applies only to the Application level.

[Options > Integration Options > TravelCenters of America](#)

[Options > Integration Options > TMT ServiceConnect](#)

▪ **TMT-315971**

The **Ignore Invalid Meters** and **Ignore Invalid Trailer Meters** options have been removed. The program now handles invalid meters differently. These options are no longer needed.

If the program receives an invalid meter reading from the integration, it will leave the RO header meter field blank. You can correct the blank meter field, if required, when you save the RO header.

▪ **TMT-315972**

If the TravelCenters of America or ServiceConnect integrations passes a meter reading to TMT, and the meter is mapped to a TMT value, TMT uses the mapped value.

If the integrations pass an unmapped meter reading, TMT will try to use the default value. If the TMT value is set to *PRIMARY*, then the program selects the primary meter on the unit. If the unit has no primary meter, then TMT ignores the reading.

If the selected meter is not set up on the unit, the program will ignore the reading.

Resolved issues

Activities menu

Accounting > Accounting > IES

- **TMT-315998**

Now, when you click **Search** or refresh the page, exported orders are removed from the GL, AR, and AP tabs.

Fuel Data Import

- **TMT-315743**

You can add a negative quantity during the fuel data import. This lets you fix entry errors by changing the inventory on hand quantity.

- **TMT-315955**

The program creates the correct number of fuel tickets and exceptions. This happens even if an imported file has an invalid unit.

Masters menu

Company > Accounting Year

- **TMT-316115**

You can close a period without receiving an error message.

Shop Inventory

- **TMT-314200**

The **Cost History** tab updates correctly when you add, edit, or delete any part in a repair invoice.

- **TMT-315233**

When you return a tire to inventory from the **Tire Review** page, the program applies the correct item value. It is based on the accounting method in use. The **Shop Inventory** page **Cost History** tab shows the correct item price.

- **TMT-316071**

The part value in the Shop Inventory's **Costs** and **Cost History** tabs match the part value added to the RO. It matches the cost coming into inventory from the RO line.

- **TMT-316821**

Fixed the issue of the negative quantity returned to shop inventory via fuel data import is populated with zero dollars (\$0.00).

Orders menu

Fuel Tickets Listing

- **TMT-315473**

For details, see [TMT-315743](#) in **Activities menu > Fuel Data Import**.

- **TMT-315495**

You can create consecutive fuel tickets without getting errors.

- **TMT-316099**

Fuel tickets created from edited exceptions are added to the correct batch.

Purchase Order

- **TMT-315446**

Two users can edit the same VRO without causing line errors between the VRO and the PO. For example, assume Users A and B are working on the same VRO. User A deletes a line. User B makes a change and tries to save the VRO. The program alerts User B that someone has made a line change, and they must refresh the VRO before saving.

- **TMT-315549**

You can edit these fields on a closed standard PO:

- **Check Date**
- **Check Number**
- **Amount Paid**
- **Packing Slip Number**
- **Invoice Comments**

Repair Order

- **TMT-314973**

The **Job Code** field is not required when you:

- Have the **Default Existing Job Code & Allow Assignment W/O Job Code** Application option set to *YES*
- Create an RO section
- Enter a component code
- Assign a mechanic

To open the Application option, go to **Menu > Setup > Options > Application Options > Repairs > Job Codes**.

- **TMT-315446**

For details, see [TMT-315446](#) in **Orders menu > Purchase Orders**.

- **TMT-315563**

The program saves meter readings when you create an RO from an RO template that has a unit with **Auto Load Meter** set to *YES*. On the RO header, the **Unit** and **Customer** fields are inactive.

Trimble Technician Portal

- **TMT-315676**

TTP now uses the same user lock out security as TMT Web. If you enter your password incorrectly five times, TTP locks you out. If you try to sign in again before the lock out time is over, TTP shows an error message. It states, "User Account Locked for number more minutes. If you need assistance, contact a system administrator."

TMT Fleet Maintenance V.2022.1 Release Notes

For warnings, hardware requirements, and other information, see the [General information section](#).

Enhancements

Product wide

▪ TMT-314447

Updated ATA/VMRS codes are now available. This update has the VMRS codes released in October 2021 (the 2021.3 update). If you want to update your ATA/VMRS codes, download the AMS - ATA Codes Update.zip file. You can find it with the 2021.3 files at the Trimble ClientCenter.

1. Log in to [ClientCenter](#).
2. Go to **Build Delivery > Downloads > TMW Asset Maintenance > TMT Fleet Maintenance - Windows > 21.30 > View Details > AMS - ATA Codes Update.zip**.

▪ TMT-314483, TMT-314961

The minimum setup requirements for SQL Server have changed. This applies to the SQL Server, the Web Server, and the Application server. These are the new minimum versions:

- SQL Server 2016
- SQL Server 2016 CLR Types
- SQL Server 2016 Shared Management Objects (SMO)

▪ TMT-314861

The minimum SQL Server version for V.2022.1 is SQL Server 2016. The compatibility mode will be set to 130.

Activities menu

[Inquiries > Order Inquiries](#)

▪ TMT-314176

The **Orders Inquiries** page **Repair** table has a new column: **Service Provider**. This column shows the Connected Maintenance service provider's name. You need to select the **Service Provider** from the **Columns** menu to see it in the table. It is hidden by default.

If a vendor repair order (VRO) is for a vendor that is not linked to a Connected Maintenance service provider, the **Service Provider** column will be blank.

▪ TMT-314884

You now have more options available when you use filters on the **Order Inquiries** page.

▪ TMT-315254

The **Orders Inquiries** page has a new column: **Line Total Amount**. The column is available for all the tabs on the page except the **Campaigns** tab.

If you click **Include Grid Totals** in the **Filters** pane, the sum of **Line Total Amount** for all items included is shown in the page footer. The **Order** total and the **Line Total Amount** are the same unless you apply a line type filter.

You must select the **Line Total Amount** from the **Columns** menu to see it in a table. It is hidden by default.

Tires > Fix Tires

▪ TMT-315006

You can change the serial status for spare tires using the **New Serial Status** column on the **Fix Tires** page. You can select from these options:

- *IN USE*

The spare is on the unit.

- *CASING*

A tire was taken off the unit and put into the spare tire position.

The page only shows the **New Serial Status** column when you have a spare tire selected.

Inventory menu

Parts Price Update

▪ TMT-313750

Changes were made to the **Parts Price Update** page to improve your experience:

- The page now has four sections:

- **Filters**

- **Update Criteria**

- **Filtered Parts**

- **Parts Price Update**

- The **Filtered Parts** section has a **Search** button. Clicking it applies any filters you set in the **Filters** section. The page shows the matching results. To sort the list by one of the columns, click its header. Clicking the header once sorts the results in ascending order. Clicking it again sorts the results in descending order.

- The **Parts Price Update** section has the **Update Prices on Filtered Parts** button. The button is turned off until you complete a part search. This button used to be labeled **Update Prices**.

- Once you complete a search, a paging bar opens at the bottom of the page. This lets you move through the pages. The bar also includes the results total.

This illustration shows the redesigned **Parts Price Update** page.

Part Number	Ship	Component	Average Cost	Last Cost
02-00484	01	016-003-008	0.26	0.25
0R8354	01	042-004	76.95	75.95
10W40	01	053-999-016	1.01	1.01
110-555	01	031-001-001	95.22	95.22

■ TMT-315023

The **Calculate on Average price** option has been renamed to **Calculate Fixed Price on Average Cost Instead of Last Cost**. The new name reflects the calculation more accurately. This option is turned off when you set **Price Type for Updates and Inserts** to *Percentage*.

This option has two settings:

- NO** (Default)

The program calculates prices based on the last cost for fixed price.

- YES**

The program calculates prices based on the average cost for fixed price.

■ TMT-315024

Two drop-down lists have been renamed for clarity and/or accuracy:

- Price Category Settings for Inserts** is now **Pricing Type for Updates and Inserts**.
- Percentage Price** is now **Percentage**.

■ TMT-315028

The items in the **Parts Prices to Update** drop-down list have been updated for clarity:

- Parts Catalog* is now *Catalog Parts Only*.
- Local* is now *Local Parts Only*.

The parts price also changes based on your selection.

■ TMT-315030

The **Parts Price Update** page has two new drop-down lists in the **Filters** section:

- **Shop State**

This field lets you select the state or province where the shop is located.

- **Part Type**

This field lets you select from the part types in your setup, such as *Electrical*, *Fluids*, or *Paints*.

Physical Inventory

- **TMT-314703**

The **Physical Inventory** page **Inventories** tab has a new column: **Physical Inventory Number**.

When someone adds a physical inventory, this column shows the number.

Masters menu

Shop Inventory

- **TMT-314670**

The **Cost History** page updates the on hand data when part numbers are merged and renumbered. The program puts *N/A* in these columns to mark the change caused by the part merge:

- **Order Number**
- **Section Number**
- **Physical Inv Number**

Shop Inventory > Prices Tab

- **TMT-314833**

These changes were made to the **Shop Inventory** page **Prices** tab:

- The **Price Type** column name is now **Price Category**.
- The **Price** column name is now **Fixed Price**.
- The **Price UOM** column has been removed.
- The **Quantity UOM** column has been removed.

These changes were made to the **Edit Part Price** pop-up window:

- The ***Category** field name is now ***Price Category**.
- The **Price** field name is now **Fixed Price**.
- The **Price UOM** field has been removed.
- The **Quantity UOM** field has been removed.
- Fields were moved for better visibility.

Shop Inventory > Prices Tab > Edit Part Price pop-up window

- **TMT-315024**

For details, see [TMT-315024](#) in **Inventory menu > Parts Price Update**.

Units

- **TMT-313106**

The **Units** page **Meters/Fluids** tab has a new button: **Meter History**. It is in the lower-right corner of the **Meter Information** section. Click **Meter History** to see and edit a meter reading.

- **TMT-314616**

If the PM has more than one meter interval set, the **PM Due** page shows the meter with the highest percentage due.

Units > History tab > Invoice

- **TMT-314906**

The **Units** page **History > Invoice** tab has a paging bar. This lets you review invoice history by moving through the pages.

Units > History tab > Repairs

- **TMT-314897**

The **Units** page **History > Repairs** tab has a paging bar. This lets you review repair history by moving through the pages.

Orders menu

Inspection Tickets Listing

- **TMT-313883**

You can see all eight user-defined fields (UDFs) on the **Inspection Tickets Listing** page. You can add UDF values for a ticket while you create or edit it.

Note: You cannot edit UDFs in the **View Inspection** pop-up window. You can only see the inspection details.

Invoice

- **TMT-310747**

You can add a fee line in all sections when **Override Fees** is set to **YES**. This lets you itemize an invoice to your customers' needs.

When **Override Fees** is set to **NO**, **FEE** is not available in the **Line Type** drop-down list.

- **TMT-311447**

When you have the Credit Card Processing module installed, you can close an invoice with a value of zero. You do not have to add a payment of zero first.

- **TMT-312133**

The **Make Payment** pop-up window fills the **Amount** field with the balance due automatically.

- **TMT-313528, TMT-314923**

The **Order Totals** table has a new column: **Profit**. The program calculates profit by taking the difference between the total amount and total cost. The table includes the profit value for the **Section** row and the **Order** row. All invoice orders have the **Profit** column except contract invoices.

- **TMT-314278**

You can set which user roles and/or users can access the **Invoice** page.

- You can use the **Manage Page Permissions** page to restrict which roles can read, add, edit, and delete items on the **Invoice** page. You open the **Manage Page Permissions** page by going to **Menu > Security > Page Security > Manage Pages Permissions**.
- You can use the **Create User** page to assign users to a role. You open the **Create User** page by going to **Menu > Security > Work with Users**. Then you select a user and assign them to the related role.

By default, all permissions are turned on. You can set permissions for each role and assign roles to each user. When there is a conflict between roles, the program gives precedence to options that are turned on.

For example, assume User A has two roles: **All Web Users* and **Road Calls*.

- The **All Web Users* role gives users access to the **Repair Order** page. The permissions are read-only. Users assigned this role cannot edit the **Repair Order** page.
- The **Road Calls* role also gives users access to the **Repair Order** page. Users with this role have read and edit permissions for the page.

When User A opens the **Repair Order** page, they can edit the page as part of their **Road Calls* role.

Invoices Listing

- **TMT-314277**

You can set which user roles and/or users can access the **Invoice Listing** page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

Purchase Order

- **TMT-311947**

You can set the program so that users cannot add or edit tax lines if there are no taxable lines on the purchase order (PO). Users can add or edit a tax line only if there is at least one taxable line.

These Application option settings control whether you can add or edit tax lines to a PO:

- **Inventory > Include In Inventory** is set to *Include Sales Tax in Inventory*.
Purchasing > Receiving > Include Tax On Taxable Service Lines Directly Received To RO is set to *YES*.

The program requires a taxable part line or service line. If there is no such line, you see this error message: "There should be a taxable part/service line to add non-zero tax line."

- **Inventory > Include In Inventory** is set to *Exclude Sales Tax in Inventory*.
Purchasing > Receiving > Include Tax On Taxable Service Lines Directly Received To RO is set to *YES*.

The program requires a taxable service line. If there is no such line, you see this error message: "There should be a taxable service line to add non-zero tax line."

- **Inventory > Include In Inventory** is set to *Include Sales Tax in Inventory*.
Purchasing > Receiving > Include Tax On Taxable Service Lines Directly Received To RO is set to *NO*.

The program requires a taxable part line. If there is no such line, you see this error message: "There should be a taxable part line to add non-zero tax line."

- **Inventory > Include In Inventory** is set to *Exclude Sales Tax in Inventory*.
Purchasing > Receiving > Include Tax On Taxable Service Lines Directly Received To RO is set to *NO*.

You can add or edit a new tax line.

- **TMT-314160, TMT-314953**

You can set whether MISC part lines are taxable. On the **Create New Line** pop-up window, set the **Taxable** option to *YES* or *NO*.

For details, see [TMT-314160](#) in **Setup menu > Options > Application Options**.

- **TMT-314161**

You can set whether freight lines are taxable. On the **Create New Line** pop-up window, set the **Taxable** option to *YES* or *NO*.

For details, see [TMT-314161](#) in **Setup menu > Options > Application Options**.

- **TMT-314385**

You can use the **Change PO Estimate** button unless the PO status is *Closed* or *Canceled*.

- **TMT-314276**

You can set which user roles and/or users can access the **Purchase Order** page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

- **TMT-314293, TMT-314952, TMT-315139**

When you add lines to a PO, RO, or VRO, the program checks your approval limit if:

- Your setup uses approval limits
- The order is in *Approved* status

If the new total is less than the estimate *and* less than your approval limit, a confirmation pop-up window opens. The message asks, "New order total is above approved amount. Do you want to update the estimated amount?"

- If you click **YES**, the program updates the estimate amount to the new order total and saves the line changes.
- If you click **CANCEL**, the program removes the lines that would have gone over the approved amount.

If the new total exceeds your approval limit, the order approval status changes from *Approved* to *Needs Approval*.

Note: For VROs, you will not see the confirmation pop-up window unless you are adding vendor-supplied part lines.

Purchase Orders Listing

- **TMT-314273**

You can set which user roles and/or users can access the Purchase Orders Listing page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

Repair Order

- **TMT-306424**

You can enter up to 36 characters in the **Customer PO** field. The former limit was 12 characters.

- **TMT-311616, TMT-314981**

If you change an RO's opened date, the program checks the new date against the open date of the sections and the charge date of the lines. If the new date is after a section open date or a line charge date, the program opens a pop-up window with this confirmation message: "Repair Order open date cannot be greater than the lowest section open date. Do you want to update all open and complete sections and lines to the new open date?" The window has two buttons: **YES** and **NO**.

- If you click **YES**, the program sets the section opened date to the new RO opened date.
- If you click **NO**, the program changes the RO opened date to the original date and time.

- **TMT-313416**

Section headers show repair reasons. This lets you see the repair reasons for all sections without having to open each one.

- **TMT-313980**

The Repair Order Detail Report includes the task details (that is, the job code checklist). This report is available on the **Repair Order** and the **Repair Orders Listing** pages.

- **TMT-314015**

When you open an RO section, the pointer's starting position is based on the **Create Sections By Job Code Instead Of Component Code** Application option.

- If the option is set to *YES*, the pointer starts in the **Job Code** field.
- If the option is set to *NO*, the point starts in the **Component Code** field.

- **TMT-314293, TMT-314952, TMT-315139**

For details, see [TMT-314293](#), [TMT-314952](#), [TMT-315139](#) in **Orders menu > Purchase Order**.

- **TMT-314814**

When you return a spare tire to inventory, the program puts the tire's value in the **Credit** field.

[Orders > Repair Order > Repair Request Form](#)

- **TMT-315207**

ROs sent using TA integration can use the new **Unit Type** cross reference list. You should map TMT units to either the *Tractor* or *Trailer Unit Type*. If a unit is not mapped, TMT sends it to TA as a *Tractor* by default. To avoid confusion, be sure to map all trailer units to the **Trailer Unit Type**.

- **TMT-315420**

When reviewing repair request estimates, you can approve or decline a TA Service Group at the service header level only. You cannot approve or decline an individual service line.

For example, you can approve or decline a TA PM Service. You cannot approve or decline the oil, filter, and labor lines that fall under the PM Service.

- **TMT-315601**

You can update the payment method for VROs that are sent to TA. The change updates the TA system.

You must save the VRO header with the updated **Pay Method**. That method must also be a valid payment type in the TA system. Clicking **Submit** during the *Initiate Awaiting* or *Estimate Awaiting* steps triggers the update. You *cannot* change the payment method once the VRO reaches the *Estimate Approved* step.

[Repair Orders Listing](#)

- **TMT-311446**

The **Order Type** drop-down list has been updated. The *Repair* option is now *Standard Repair Order*.

- **TMT-313980**

For details, see [TMT-313980](#) in **Orders menu > Repair Orders**.

- **TMT-314175**

The **Repair Orders Listing** page has a new column: **Service Provider**. It is for VROs so you can see the vendor's name. You map vendors to TMT values with the **Integration Options** page.

Warranty Claim

- **TMT-314975**

You can set which user roles and/or users can access the **Warranty Claim** page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

Warranty Claims Listing

- **TMT-314967**

You can set which user roles and/or users can access the **Warranty Claims Listing** page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

Warranty Potential Claims

- **TMT-313398, TMT-314929, TMT-314930**

One column has been renamed. Other columns have been added. By adding basic warranty data from the **Units** master page to the **Warranty Potential Claims** page, you can see everything you need in one table. These are the column changes:

- **Vendor** has been renamed to **OEM Vendor**. The data shown in this column depends on the warranty type, as shown in the **Type** column:
 - When the **Type** is *OEM*, the vendor data comes from the **Units** page **OEM Warranty** tab.
 - When the **Type** is *Extended*, this column shows the vendor from the **Units** page **Extended Warranty** tab.
 - When the **Type** is *Aftermarket*, this column is blank.
 - When the **Type** is *Campaign*, this column shows the vendor linked to the section.
- These columns have been added. The columns are listed in alphabetical order since you can arrange the columns the way that works best for you:
 - **Domicile**
 - **Engine**
 - **In Service**
 - **Make**
 - **Model**

- **Model Year**
- **RO Meter Reading**
- **Serial Number**
- **Unit Cost Center**
- **Unit Type**
- **Warranty In Service**
- If you expand a claim on the page, you will see a new column in the sub-table: **Campaign Number**. It is between the **Section Total** and the **Opened Date** columns. If the claim does not have a campaign number, this column is blank.
- **TMT-314974**

You can set which user roles and/or users can access the **Warranty Potential Claims** page.

For details, see [TMT-314278](#) in **Orders menu > Invoice**.

Reports menu

Report Scheduler

- **TMT-305870**

There are two new options for scheduling monthly reports:

- **First of the Month**
- **End of the Month**

If you select one of these options, the **Day** menu becomes read-only. You still need to select a time from the **Time** menu.

Reports - SSRS > SSRS Report Viewer

- **TMT-312263**

You can sort the Parts Usage report by primary vendor. To do so, select *Vendor* from the **Sort By** drop-down list. The report's **Parts Usage Grid** and **No Part Usage Grid** sort the results alphanumerically by vendor name.

- **TMT-313975**

The Parts Usage report **No Part Usage Grid** has a new Total field at the end of the report. These columns have been moved for easier readability:

- **Part Type** is now to the right of the **Part** column.
- Columns **Stacked** and **Consigned** are stacked into a single column.
- **Extended Cost** is now on the far right side of the report.

- **TMT-313978**

There is a new report in the **Part Inventory** category: Parts Usage by Time Period. You can get the report on daily, monthly, or quarterly basis for 12 periods. For example, if you select *Daily*, the report includes 12 days from the selected start date. If you select *Monthly*, the report includes 12 months from the start date.

You cannot see more than 12 periods of data. If you enter a date range of more than 12 periods, the report shows results for the first 12 periods only.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Component Cost](#)

- **TMT-313954**

You can sort the report by component code in ascending or descending order.

Security menu

[Work with Users > Review Users](#)

- **TMT-314674**

The **Review Users** page has two new columns:

- **Technician**
- **User Type**

The columns make it easier for you to see which license type users belong to. You do not have to open user records one at a time.

Setup menu

[Module Licenses](#)

- **TMT-312797**

The System limits section has two new columns:

- **In Use**
- **Licensed**

There are also two new rows:

- **Full User Type**
- **Technician Type**

These columns and rows make it easier for you to see how you are using your TMT licenses.

- **TMT-314790, TMT-314791, TMT-314797, TMT-315361, TMT-315362, TMT-315363**

The program filters menus, pages, and options based on your module licenses. Menus do not show unlicensed pages.

- **TMT-314798**

The **Clone Existing Unit** button can be hidden based on your installed modules.

- **TMT-314799**

These tabs can be hidden based on your installed modules:

- **Employees** master page:
 - **Work History**
 - **Tools**
- **Shops** master page:
 - **Groups**
 - **Tools**
- **Units** master page:
 - **Specs**
 - **Shifts**
 - **History**
 - **Licenses**
 - The **Assignments** tab **Drivers** tab

Options > Application Options

- **TMT-314160**

There is a new **Inventory** Application option: **Misc Lines as Taxable**. This option is a child of the **Include in Inventory** option.

You cannot use **Misc Lines as Taxable** unless **Include in Inventory** is set to *Exclude Sales Tax*.

- If set to *NO* (default), miscellaneous lines **do not** apply to the tax total (that is, they are nontaxable).
- If set to *YES*, miscellaneous lines **do** apply to the tax total.

- **TMT-314161**

There is a new **Inventory** Application option: **Freight Lines as Taxable**. This option is a child of the **Include in Inventory** option.

You cannot use **Freight Lines as Taxable** unless **Include in Inventory** is set to *Exclude Sales Tax*.

- If set to *NO* (default), freight lines **do not** apply to the tax total (that is, they are nontaxable).

- If set to *YES*, freight lines *do* apply to the tax total.

- **TMT-314343**

There is a new **Purchasing** Application option: **Allowed Cost Coverage**. It is a child option under both the **Require PO Approval Levels** and **Require VRO/PO Approval Levels** options. **Allowed Cost Coverage** sets how much cost coverage is acceptable on a PO or VRO, depending on the parent option.

You can only edit **Allowed Cost Coverage** if its parent option is turned on. By default, the setting is 0% (that is, no coverage allowed). When the parent option is turned on, you can enter the acceptable cost coverage as a percentage.

Once **Allowed Cost Coverage** is set, a warning pop-up window opens if you change a PO total by editing or adding lines. The window changes based on whether the new total is *over* or *under* the allowed cost coverage percentage. The window options also change with your approval level amount. For example, if the new total is:

- ***Below your approved level amount but above the allowed cost coverage amount***

The window shows the warning, "The PO Total exceeds the estimate." The program does not let you save your changes. Since the new total is below your approval level, however, you can edit the approved amount and then save your changes.

- ***Above your approved level amount and above the allowed cost coverage amount***

The window shows the warning, "The PO Total exceeds the estimate." The program does not let you save your changes.

- ***Above your approved level amount but below the allowed cost coverage amount***

The window shows the warning, "This order is over its Approved Estimate amount." You can still click **OK** and save your changes.

- **Example 1**

- **Require PO Approval Levels** is set to *YES*.
- **Approved Cost Coverage** is set to 10%.
- Your approval level amount is \$200.
- The PO's approved estimate is \$100.

The current PO total is \$100. The 10% cost coverage setting means the maximum approved amount is \$110.

- **Scenario 1**

You add a \$5 tax line. The program lets you save your changes because \$105 is less than \$110.

- **Scenario 2**

You try to add \$15 freight line. The warning pop-up window opens with the message "The

PO Total exceeds the estimate." It does not let you save your changes because \$115 is greater than \$110.

You change the approved estimate amount to \$115. The program lets you make this change because \$115 is less than your approval limit of \$200. Once you adjust the approved estimate amount, the program lets you save your changes.

- **Example 2**

- **Require PO Approval Levels** is set to *YES*.
- **Approved Cost Overage** is set to *10%*.
- Your approval level amount is \$50.
- The PO's approved estimate is \$100.

The current PO total is \$100. The 10% cost overage setting means the maximum approved amount is \$110.

You try to add \$15 freight line. The warning pop-up window opens with the message "The PO Total exceeds the estimate." It does not let you save your changes because \$115 is greater than \$110.

You cannot add the line until the approved estimate amount is changed. You must get the new total approved through the normal PO approval process because \$115 is greater than your approval level of \$50.

- **TMT-315488**

The **Client Server** menu has been removed from the **Application Options** page. The options under **Client Server** have been moved to other Application option menus.

- **Invoice Matches Estimate** is found under **Invoicing > Retail**.
- All road call options, such as **Road Call Color Time - Blue**, are now on the **Road Calls** menu.
- **Maximize Windows** is now **Open Pages in New Tab** under the **General** menu.

[Options > Integration Options](#)

- **TMT-314617**

The **Payment Method** option in the **TA > General** section defaults to *NO* when users upgrade to 2022.1, but only if:

- The option did not exist in your earlier setup.
- The option was set to *YES* in your setup, but you had no payment methods set up in the **TA > Default XREF** section.

▪ TMT-314986

The TMT ServiceConnect installer can add predefined values to Integration options. These include **Basic**, **Default XREF** (cross-reference), and **General** options. The **Default XREF** options include for values for:

- **Cause**
- **Complaint**
- **Correction Code**
- **Delay Reason**
- **Meter Type**
- **Quantity UOM**
- **Repair Class**
- **Repair Reason**
- **Repair Site**

The updated installer does not change any values that were in the system before you run the installer. The installer leaves blank any **Default XREF** options with values of *Invalid*, *Missing*, or *Inactive*. This lets you add the values you want for those options.

▪ TMT-315463

There is a new option under **TA > Default XREF: Unit Type**. Unlike other cross-references, you can map the same **Incoming Value** to more than one **TMT Value**.

You can map TMT units to either the *Tractor* or *Trailer Unit Type*. If a unit is not mapped, TMT sends the unit to TA as a *Tractor* by default. To avoid confusion, you *must* map all TMT trailer units to the *Trailer Unit Type*.

Options > Integration Options > IES > Customer Type XREF

▪ TMT-312796, TMT-314549

The **Customer Type XREF** section **External Value** option is now **Export AR Transactions As**. These settings control how the program sends transactions through the Innovative interface.

This setting has three values:

- **GENERAL LEDGER ONLY**

This new value lets you export accounts receivable (AR) transactions to the GL service. The AR preview page still shows these orders, but they are exported as GL items:

- The program does not create a *receivable header* (due bill). It creates GL disbursement transactions.
- The transaction does not go through the customer validation process. That data is not being sent.

- **OWNER/OPER** (Owner/Operator)

The program exports *OWNER/OPER* transactions as settlements. A settlement deduction is added to the owner/operator's account.

- **STANDARD**

The program exports *STANDARD* transactions as normal AR transactions:

- The program creates a receivable header for the customer
- GL disbursement transactions are created.
- The transaction goes through the customer validation process.

When you upgrade to V.2022.1, the program will update any data from the old External Value option. Any value other than *STANDARD* or *OWNER/OPER* will be set to *NULL*.

Integration Options > TravelCenters of America

- **TMT-315165**

The *Unit Type Available Default* has two new options:

- **Tractor**

Mapping a TMT value to *Tractor* cross-references the value to the TA *Tractor* type.

- **Trailer**

Mapping a TMT value to *Trailer* cross-references the value to the TA *Trailer* type.

The *Unit Type Default* option is still available. It defaults the TMT value to the TA *Tractor* value.

Options > Integration Options > TMT ServiceConnect > BASIC

- **TMT-312071**

These obsolete options have been removed from the TMT ServiceConnect options:

- **Bearer Token**

- **Meter**

- **Ignore Invalid Meter**

Options > User Options

- **TMT-313087**

When you set a default shop in your user preferences, the Shop Inventory shows your shop when you open the page.

You set your default shop by going to **Menu > Setup > Options > User Options**. This opens the **User Options** page. Select **Inventory**, and then enter your shop in the **Default Shop** field. Your user default shop will override any default shop set at the Application level.

Order Setup > Approval Levels

▪ TMT-313222

The **Approval Level Name** can accept 20 characters instead of 12.

Trimble Technician Portal

▪ TMT-312839

When you scan a barcode while searching for a part, TTP shows you any matching parts and any cross-referenced parts.

▪ TMT-313125

You can rotate tires from one position to another with the **Rotate** button. The button is turned on only when you select a position with a mounted tire.

Selecting a tire puts it in the **Tire Changes PLACEHOLDER** position. From here, you can assign the tire to any empty position or switch it to other positions. When you are finished, select **Save** to save your changes. TTP returns you to the **Tires** screen.

There are safeguards in place to help you rotate a tire successfully:

- If you select **Save** without rotating a tire rotation, the screen shows the error message, "No tire rotation has been done."
- If you try to rotate a spare tire, the screen shows the error message "Cannot Rotate a Spare Tire."
- If you try to rotate a tire to a restricted axle, the screen shows the error message, "This tire cannot be placed on the selected position for axle of type DRIVE. Please select a different position."

▪ TMT-314150

The new **Pause** command lets you stop work on one RO so you can work on a different RO or create a new one. To use **Pause** in TTP, the TMT Fleet Maintenance **Allow Job Pause** Application option must be set to *YES*. To find the option in TMT Fleet Maintenance, go to **Menu > Setup > Options > Application Options > IWS > Repairs**. You can also set this option at the Shop level.

▪ TMT-314219

The **Select Component Type** pop-up window selects a field by default. The default is set by the TMT **Max Component Level For Repair Order Section** Application option. For example, if the option is set to *Assembly*, the pop-up window will have *Assembly* selected when you open it. This makes it easier for you to find the right component. If needed, you can select a different field.

▪ TMT-314340

If you try to log in outside of your normal shift hours, the **Shift Override** pop-up window opens. The TMT **Enforce Shift Times** Application option controls this feature.

- Logging in outside your active shift days gives you this message: "You are attempting to clock-in/sign-in outside of your scheduled shift hours. Please contact a supervisor for an override code."

- Logging in on an active day but outside your shift time gives you this message: "You are attempting to sign-in after your maximum shift time has been exceeded. Please contact a supervisor for an override code."

You enter the code your supervisor gives you in the pop-up window's **Override** field. The code must have only four letters. It cannot include numbers. If you enter an invalid code, you see this message: "Invalid shift override code provided."

- **TMT-314410**

The new **Mechanic Signature** pop-up window lets you sign off checkoff lists. The window opens as soon as you select *Complete* or *Incomplete* for an RO section.

The **Mechanic Signature** pop-up window is controlled by two TMT Application Options:


- **Require Password At Log-In**
- **Require Signoff on Check-off List**

If both options are turned on, the window opens whenever a checkoff item is changed or added. Once you enter your password, you can continue working based on the option you selected (*Complete* or *Incomplete*).

- **TMT-314417, TMT-314820, TMT-314925, TMT-315008**

The Job Activity screen has two new menus for creating part requests:

- **Request By**
- **Parts On Order**

You open the new menus by selecting the  **Part Request**.

The **Request By** menu is available only if the TMT **Use Parts Workstation for Parts** Application option is set to *YES*. If the option is set to *NO*, you will only see the **Parts On Order** menu.

The **Request By** menu has three commands:

- **Description**
Opens the **Request Part by Description** panel showing part descriptions and quantities
- **Part**
Opens the **Part Search** pane
- **Component**
Opens the **Request by Component** pane, which includes advanced component search features

Selecting **Parts On Order** opens **Parts On Order** pane.

You can see your part requests on the **Parts on Order** pane and the Parts Workstation **Request** tab.

- **TMT-314926**

The **Login** screen redirects you to the right version of TTP based on the API you enter. The screen also shows the confirmation message, "Based on the API entered, redirecting to the appropriate version."

- **TMT-314927**

- The TTP screen footer shows the TTP release version and build number.
- The log in error message has changed. Before, the message was: "Unknown Error. Please try again later." Now, the message is "Error with TTP setup. Please contact support."

- **TMT-315004**

You can update tire pressure and depth values in a non-tire section of an RO. You can also mount new tires. You must go to the tire section to charge, replace, or rotate a tire.

- **TMT-315076**

You can create units while creating an RO.

If you enter a new unit number while creating an RO, the **New Unit** pop-up window opens. The window lets you enter the unit's details:

- **Unit Number**
- **Unit Description**
- **Customer**
- **Make**
- **Model**
- **Year**
- **Unit Type**
- **License**
- **State**
- **VIN/Serial Number**
- **Meter Type**
- **Fluid Type**
- **Color**

To use this feature:

- The TMT **Allow Creation Of Units On The Fly** Application option must be set to *YES*.
- Your TMT employee settings must have **Allow Creating of Units on the Fly** set to *YES*.
- The TMT **Invoicing > Retail** Application option must specify default settings. If it does not, you cannot create the new unit. You will see an error message saying the unit could not be created.

Once you save the new unit, TTP adds it to TMT based on the defaults set in the TMT **Invoicing > Retail** Application option.

▪ TMT-315319

The **Job Detail** pane now includes meter readings. If you expand the **Meter Reading** section, it lists all the meters assigned for the unit. Meter readings show the values recorded on the matching RO. If the unit has no assigned meters, the section shows the message "No Meter Readings to Display."

Resolved issues

Activities menu

Accounting > Accounting

▪ TMT-314221

The QuickBooks integration correctly processes invalid orders. Valid orders are marked with *Success* in the **Accounts Receivable** section **Task Status** column.

▪ TMT-314281

The QuickBooks interface exports general ledger (GL) transactions correctly.

▪ TMT-314287

The interface exports the right order details for the QuickBooks Accounts Payable Invoice Voucher. The **Memo** field correctly shows the PO number instead of the vendor invoice number.

▪ TMT-314288

The interface shows the correct part line details regardless of the number of receipts in the voucher. The exported receipts have the correct part line details for each invoices. When a PO has:

- More than one receipt but only one invoice, the interface shows defined part line details and the invoice number.
- More than one receipt *and* more than one invoice, each receipt shows the correct part line details with the matching invoice numbers.

▪ TMT-314720

The **Accounting** page **Export Preview > Orders: All** tab correctly shows results of 10,000 or more records.

▪ TMT-315323

The program calculates disbursements correctly when:

- The **Include Freight Charges In Inventory Costs** Application option is set to *YES*.
- Freight is charged on Credit POs.

[Accounting > Accounting > Dynamics GP](#)**TMT-314862**

Clicking **Get Data** for GL transactions no longer reopens closed and exported ROs.

[Accounting > Accounting > IES](#)**TMT-314245**

You can click **Get Data** without getting an object reference error. The page shows results correctly.

TMT-314769

You cannot export orders with invalid customer and unit combinations. The program sends the order to error handling instead.

TMT-314847

The program correctly validates vendors when integrating POs with Innovative.

TMT-314881

These changes have been made to the **GL**, **AP**, and **AR** tabs:

- You can click **Purge All Documents** without getting an "Object Reference" error.
- Clicking **Get Data** clears old data and loads new data. You do not have to refresh the page.

TMT-314917

The **GL**, **AP**, and **AR** tabs do not show orders with errors. The orders appear only in the **Error Handler** tab while they are in error state.

[Accounting > Accounting > IES > Error Handler](#)**TMT-315140**

You can switch between the **GL** and **AR** accounting types without getting an "Object Reference" error.

[Accounting > Accounting > Setup > Disbursements](#)**TMT-314834**

The page shows **Expand** and **Collapse** buttons correctly for all disbursements and subrules.

[Fuel Data Import](#)**TMT-314394**

The Fuel Data Import skips the meter reading validation for units if they:

- Have road fuel dispensed
- Do not require a meter for Fuel Tickets

This prevents Meter Import errors and lets the program update the fuel dispensed for the unit.

- **TMT-315407**

When units with the same unit ID have multiple fluids, the exception grid does not show duplicate values.

Interactive WorkStation (IWS)

- **TMT-314818**

The IWS job code search works correctly. The results do not include deactivated job codes. Results include only:

- Job codes assigned to the selected unit type
- Job codes without any assignments

Road Calls > Road Call

- **TMT-313964**

The program completes the **Driver Phone** field for you when you add a road call for a unit with an assigned driver.

- **TMT-314230**

The program loads the Road Call page correctly.

Shop Planner

- **TMT-312406**

The page uses these color codes for orders:

- **Red**

A mechanic is working on the section.

- **Green**

The order does not have an invoice number, the section status is *Closed* or *Complete*, and the order has a customer.

- **Blue**

The order status is *OPEN*, and the section status is not *OPEN*.

- **Yellow**

The order status is *COMPLETE*, and the section status is not *OPEN*.

- **Orange**

The section needs approval. The **Require RO Approval Levels** Application option must be set to *YES* to use this color code.

- **TMT-313874**

To create ROs/VROs from a template, the template must specify **Customer** or **Bill To Customer** data. This lets the program set the added template section to billable. If the template does not specify **Customer** or **Bill To Customer** data, the program cannot set sections to billable.

- **TMT-314193**

Dragging a PM due unit to the **Shop Planner** creates a plan without deleting the unit's **Asset Number**. The unit data on the **Shop Planner Misc** tab matches the data on the **Units** master page.

Shop Scheduler

- **TMT-312406**

For details, see [TMT-312406](#) in **Activities > Shop Planner**.

- **TMT-313874**

For details, see [TMT-313874](#) in **Activities > Shop Planner**.

Database

- **TMT-314131**

The program closes orders without causing duplicate disbursements. This prevents out of balance accounting errors.

- **TMT-314172**

The web.config file has a new key: *CreateDatabaseUser*. It controls whether creating a TMT Web User also creates a SQL Server user.

The program does not create a SQL Server user when you create a new TMT Web user if:

- The key is set to *false*
- If the key is not in the web.config file

If the key is set to *true*, the program creates a new SQL Server user when you create a TMT Web user *if* you authorized for the Sysadmin role in SQL Server.

Inventory menu

Parts Price Update

- **TMT-314792**

The program updates part prices when you select *Both* or *Insert* from the **Price Category Process** drop-down list.

- **TMT-314793**

The program does not reset the **By Percentage?** toggle when you update a part price.

- **TMT-314822**

The **Percentage** column shows the correct markup value when you update a part's price.

Parts Transfer

- **TMT-313209**

Part transfers show a single transfer line record when you use the AVGCOST inventory method.

Physical Inventory

- **TMT-314231**

A paging bar has been added to the bottom of the page. This lets you move through records more easily.

Masters menu

Parts Catalog

- **TMT-313967**

The program merges serial part numbers correctly. The program does not merge serial parts with duplicate serial numbers. You cannot merge kit parts with serial parts.

Shop Inventory

- **TMT-314563**

- The **Running Inv Value** column has been removed from the **Shop Inventory Cost History** page.
- There is a new field on the **Shop Inventory Cost** tab in the **Cost Summary** section: **Total Inventory Value**. The program calculates the total inventory value based on the available quantity and the actual cost value.

- **TMT-314831**

The **Add Part Price** pop-up window shows all available price category options. To set price categories, go to **Menu > Setup > System Setup > Price Categories**.

- **TMT-314832**

If the **By Percentage?** toggle is set to **YES**, the **Price** field is empty and read-only.

Shop Inventory > Cost History

- **TMT-313304**

The **COST HISTORY** tab shows the correct details when an order has multiple bins and cost records.

Units

- **TMT-314673**

Deleting a single unit does not delete the user-defined fields saved from other units.

- **TMT-314724**

You can view units on the **Units** master page even if:

- The first unit has *Reports Only* status.
- **Include Reports only** is not selected.

A unit with *Reports Only* status does not prevent you from seeing unit details.

- **TMT-314042**

The **Unit Search** pop-up window returns the correct unit.

Vendors

- **TMT-313923**

You cannot create a vendor without including all required data. If you do, you see a warning message.

Orders menu

Estimate

- **TMT-315426**

You can edit the **Labor Rate** field when adding a labor line. The **Up** and **Down** arrows next to the **Labor Rate** field are correctly aligned.

Fuel Ticket Listing

- **TMT-315001**

Road type fuel tickets do not need to pull from the on-hand shop inventory. You do not get an error if you enter an inventory amount greater than what is currently in the shop inventory.

Inspection Ticket Listing

- **TMT-313619**

Creating one RO from an inspection ticket with more than one complaint creates a single record on the **Inspection Ticket Listing** page.

Invoice

- **TMT-312867**

When you change the status of an invoice from *Complete* to *Open*, the program automatically turns on these toggle options:

- **Override Fees**
- **Override Taxes**
- **Override Auto Discounts**

You do not have to refresh the page or regenerate the invoice. This change applies to repair invoices, direct sale invoices, and credit invoices.

▪ **TMT-312913**

The Invoice Detail Report does not include component codes in section 0. This prevents errors when you run the Order Inquiries -Invoice Report by component code.

▪ **TMT-313391**

The **Prices** column shows values out to four decimal places. For example, *108.0331*. The column appears on the **Invoice** page's **Lines** tab.

▪ **TMT-314217**

You can cancel a section in *Pending* status when you close an RO from an invoice. You do not get an "Object Reference" error.

▪ **TMT-314222**

The program can add email addresses to invoices, even if the **Customer** field is empty. It uses the **Bill To Customer** email address in the **Email Report** pop-up window's **To** field.

The program uses the **Bill To Customer** address when both:

- The **Bill To Customer** and the **Customer** fields are complete.
- The customer types have email addresses.

It uses the **Customer** email address if:

- The **Bill To Customer** does not have an email address
- The **Customer** has an email address.

If neither customer type has an email address, the program leaves the **To** field blank.

▪ **TMT-314809**

Markup on negative lines obeys the Price Table setup.

▪ **TMT-314938**

The program does not recalculate invoice lines when you:

- Make changes to the invoice header
- Save a payment
- Update a payment

▪ **TMT-315025**

The program correctly applies price table markup to part lines with parts price exceptions. It does not apply a double markup.

▪ **TMT-315101**

The part line total for credit invoices can show negative values now.

- **TMT-315272**

You can generate an invoice if some RO sections have bundled pricing and some do not.

- **TMT-315431**

Invoices show negative labor lines after you close an RO with negative labor lines.

Invoices Listing

- **TMT-314217**

For details, see [TMT-314217](#) in **Orders menu > Invoice**.

- **TMT-314222**

For details, see [TMT-314222](#) in **Orders menu > Invoice**.

Purchase Order

- **TMT-313748**

PO estimates and approval status remain unchanged through a version upgrade.

- **TMT-313810**

If a part has a **QTY UOM** (quantity unit of measure) of *Each*, and you enter a quantity with a decimal to a PO, the program rounds your entry up to closest whole number. For example, a tire has a **QTY UOM** of *Each*. If you accidentally enter that tire on a PO with a quantity of *4.6*, the program rounds the quantity up to *5*.

- **TMT-314387**

You cannot click **Change PO Estimate** on an approved PO unless you have:

- Approval permissions
- An approval limit higher than the current estimate

If you do not meet these requirements, the **Change PO Estimate** button is not active.

- **TMT-314464**

You can cancel a PO if it has only **Misc** and **Tax** lines. You cannot cancel the PO if it has part or service lines.

You must have the **Include in Inventory** Application option set to *Exclude Sales Tax* to use this feature.

- **TMT-314516**

The PO **Closed** date does not default to the PO's **Opened** date and time.

- **TMT-314608**

Tax calculations round correctly on modified tax values. This corrects unbalanced accounting transactions.

- **TMT-314896**

When you change a PO estimate, and the new estimate is within your approval limit, the PO does not need another approval. The status is still *Approved*.

- **TMT-315160**

Closed POs show the correct vendor name, even if that vendor has since become inactive.

Repair Order

- **TMT-312479**

The job code estimate is divided between all technicians working on the same assignment.

- **TMT-314337**

The **Work With Assignments/Tasks** pop-up window performs better when:

- Assigning employees to RO sections
- Loading saved assignments

- **TMT-314390**

When you close an RO, the **Closed On** field on the **History** tab uses your current date and time. It does not use the server date and time.

- **TMT-314436**

When you reopen a closed RO, the program keeps the original meter reading. It does not add and save the latest meter reading.

- **TMT-314544**

The **Inventory** Application option **Track Serial Numbers for Serialized Parts** controls parts with serial numbers. If the option is set to *YES*, you cannot add a part with a serial number that is not in the system.

- **TMT-314566**

The program updates the **Modified Date** and **Modified By** fields when you set a section to *Closed*.

- **TMT-314684**

When you create a section from a template, the program sets the section as billable if the template has **Bill To Customer** data. If there is no **Bill To Customer**, the program sets the section as non-billable.

- **TMT-314808**

When you add a new section to a completed RO, the program sets the **Opened** and **Completed** dates for the section to the RO **Completed** date.

- **TMT-314812**

The **Work With Assignments/Tasks** pop-up window uses the default **JobCode** and **Estimated Time** values each time you save a new assignment or edit an existing assignment. To use this feature, these **Repairs: Job Codes** Application options must be set to **YES**:

- **Default Existing Job Code & Allow Assignment W/O Job Code**
- **Allow Duplicate Job Codes on Repair Orders**

- **TMT-314872, TMT-314954**

When determining if a VRO needs approval, the program looks at the vendor supplied parts total instead of the RO line total.

- **TMT-314898**

The **Add/Edit/View Line** pop-up window's **Hours** field is read-only if the line is generated from TTP or IWS.

- **TMT-315025**

For details, see [TMT-315025](#) in **Orders menu > Invoice**.

- **TMT-315272**

For details, see [TMT-315272](#) in **Orders menu > Invoice**.

- **TMT-314042**

For details, see [TMT-314042](#) in **Masters menu > Units**.

Repair Orders Listing

- **TMT-314042**

For details, see [TMT-314042](#) in **Masters menu > Units**.

Repair Orders Listing > Create Repair

- **TMT-314042**

For details, see [TMT-314042](#) in **Masters menu > Units**.

Reports menu

Reports - SSRS > SSRS Report Viewer

- **TMT-313638**

Saved reports with custom date ranges run correctly.

- **TMT-314940**

If you use the same date range when you run the Historical Part Inventory and the Inventory Month End Balances reports, they show:

- Matching inventory
- Correct counts

- **TMT-313858**

When emailing a report, you can enter email addresses with special characters, such as an asterisk (*). If you enter a character that is not allowed, you see an error message.

- **TMT-314978**

The report shows the **User Defined** fields descriptions instead of their labels. This makes it easier to select the fields you want to include.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Customers > Parts Gross Profit report](#)

- **TMT-314375**

The Parts Gross Profit report correctly applies markup from price tables.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Employees > Employee Labor Log](#)

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Employees > Employee Labor Time Log](#)

- **TMT-313924, TMT-313926**

When you save the generated report as a PDF:

- There are no blank pages after each report page.
- There are no blank pages when you print it.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Period Close > Period Close Account Analysis](#)

- **TMT-314615**

The report shows invoice numbers for purchase receipts. It calculates unit usage values correctly.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Part Cost History Summary](#)

- **TMT-314411**

Report performance has been improved.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Part Reorder Point Analysis](#)

- **TMT-313486**

The report shows the correct primary bin assigned to the part.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Part Inventory > Parts Usage](#)

- **TMT-313976**

The Parts Usage report shows a correct list of parts when you select *Parts Without Usage* from the **Usage** drop-down list.

- **TMT-315214**

When you run the report and set **Display Vendor in Parts Without Usage** to *YES*, the report shows the count per part.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Down Time Analysis](#)

- **TMT-314032**

The report includes the **DAYS** meter when it is set as the primary meter in **Units Masters** page **Meters/Fluids** tab.

[Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library > Units > Unit Fuel Ticket History](#)

- **TMT-313175**

The report does not add days outside of the selected date range.

Security menu

[Work With Users > Create User](#)

- **TMT-313003**

The **Landing Page Override** field now works correctly. When set, the program opens the selected page when you log in. It does not show the default landing page.

Setup menu

[Options > Application Options > Accounting](#)

- **TMT-314945**

The **Accounting** Application option **Use Close Date Instead of Charge Date for Transaction Date** is working correctly.

[Order Setup > Job Code Definitions](#)

- **TMT-314027**

When you create a new job code, the program creates a default (blank) job code assignment.3

Trimble Transportation Solutions
6085 Parkland Boulevard
Mayfield Heights, OH 44124
United States
<https://transportation.trimble.com>