



TMT Fleet Maintenance/Service Center

2023 Release Notes

4/2023

 TECHNOLOGY THAT
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TMT Fleet Maintenance/Service Center 2023 Release Notes

This document contains information on the latest version, including:

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

Warnings	4
Changes to hardware requirements.....	6
Interactive Workstation replaced by Trimble Technician Portal	7
Enhancements.....	7
Program wide	7
Activities menu.....	7
Inquiries > Order Inquiries	7
Shop Planner	8
Admin menu.....	8
News > Approve News Comments	8
News > Manage News Items	8
Usage Reports	8
Configuration menu	9
Settings Manager.....	9
Installer	9
Inventory menu.....	10
Physical Inventory	10
Masters menu	10
Customers	10
Employees.....	10
Units	10
Orders menu	10
Estimate	10
Invoice	11
Invoices Listing.....	11
Purchase Order.....	11
Repair Order.....	11
Repair Order Template	12
Warranty Claim.....	12
Reports menu	12
Report Scheduler.....	12
Reports > Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library menu ...	12
Accounting > Accounting Export Batch Detail	12
Part Inventory > Inventory Accrual report.....	12
Part Inventory > Physical Inventory Adjustment Log report.....	13
Tires > Tire performance report.....	13

- Tires > Tire Replacement Forecast report 13
- Tires > Units Missing Tire Assignments Report..... 13
- Security menu..... 13
 - Page Security > Manage Page Permissions 13
 - Work with Users > Create User 13
- Setup menu..... 13
 - Options > Application Options 13
 - Options > Integration Options..... 14
 - IES > Service_Schedule 14
 - Options > Integration Options..... 15
 - Order Setup > Re-open Order 15
 - Options > Shop Options..... 15
- Setup menu..... 16
 - System Setup..... 16
 - Tool Kit > Integration Tool Kit Test 16
- TravelCenters of America..... 16
- Trimble Technician Portal..... 17
- Resolved issues..... 21
 - Accounting menu..... 21
 - Accounting > Dynamics GP > GL 21
 - Accounting > IES > GL..... 21
 - Accounting > QuickBooks Desktop > GL..... 22
- Activities menu..... 22
 - Accounting..... 22
 - Accounting > Accounting..... 22
 - Accounting > Accounting > IES > AP 22
 - Inquiries > Order Inquiries 22
 - Inquiries > Order Inquiries > Invoice Tab 23
 - Inquiries > Order Inquiries > Invoice Tab > Invoice Detail Report 23
- Database..... 23
- Framework 24
- McLeod Accounting menu..... 24
 - Batch Export 24
- Mobile Inspection App 24
- Orders menu 24
 - Campaigns Listing..... 24
 - Invoice 24
 - Invoice > Invoice Detail Report..... 24
 - Invoice > Invoice Detail Report..... 25
 - Invoices Listing..... 25
 - Invoices Listing > Invoice Detail Report..... 25
 - Purchase Order..... 25
 - Purchase Order Listing 26
 - Repair Order..... 26
 - Repair Order Template 27

Repair Orders Listing 27

Reports > Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library menu ... 27

 Shops > Shop Component Cost Analysis 27

 Orders > Order Inquiries_Invoice Order 27

Setup menu..... 28

 Options > Integration Options..... 28

 Options > Application Options 28

 Options > Integration Options..... 28

Setup menu..... 29

 Toolkit > Integration Toolkit Rest..... 29

Trimble Technician Portal..... 29

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 2023 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. 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.

Enhancements

Program wide

- **TMT-315147**

The program now uses .NET Framework 4.8.

Activities menu

Inquiries > Order Inquiries

- **TMT-317873**

When you email the **Batch Detail Report**, the Subject line is now blank instead showing the invoice numbers. The Subject line is a required field. You must complete it to finish the batch process.

Emailing a single invoice report has not changed.

- **TMT-316282**

When you print a repair order invoice's summary report, the Section comments are now included.

Shop Planner

- **TMT-317618**

When you upgrade from versions 2019.4 to version 2023.1, you can now see existing plans created from Delphi in TMT Web.

Admin menu

News > Approve News Comments

- **TMT-317184**

The **Last Action By** and **Posted By** fields in the **Manage News Items** page now allow values up to 256 characters. The report can now be scheduled in the **Report Scheduler** even if either field has 256 characters.

News > Manage News Items

- **TMT-317184**

See [TMT-317184](#) under **Admin menu > News > Approve News Comments**.

Usage Reports

- **TMT-317349, TMT-318678**

A new flag has been added to the webconfig file: **DisableTrackUsage**. The flag settings are:

- *True* (default)

Users *cannot* access the Usage Report pages.

- *False*

Users *can* access the Usage Report pages.

Whenever you upgrade the program, your **DisableTrackUsage** setting remains the same (that is, it is not overwritten).

The Usage Report pages are:

- Monitor All Usage
- View Graph by Page
- View Graph by Role

Configuration menu

Settings Manager

- **TMT-315927**

On the **Login Info** tab, the **Attempts Before Lockout** field lets you set how often a user can try to log in before they are locked out of the program. For example, if you set the field to 3, the user can fail three times before they are locked out.

The **Lockout Minutes** field works with the **Attempts Before Lockout** field. Once a user is locked out, this field lets you set how long the user must wait before they can log in again. For example, if you set the **Lockout Minutes** to 5, the user must wait for five minutes before they can try to log in again.

Installer

- **TMT-317850**

While installing the product, you can create a new SQL user and assign that user the proper authorization permissions. Users with the SYSADMIN role can approve role changes. Users in other roles cannot. If you try to log in with a non-SYSADMIN role, the installer shows you the message, "Please enter a username that is a sysadmin."

The installer also creates a Web install log similar to the SQL install log.

- **TMT-318099**

The Installer supports HTTPS for the SSRS Server setup. This makes the SSRS reports in the application compatible with HTTPS as well.

- **TMT-318523**

During a new installation, the installer checks whether a SYSDBA user already exists in the database. If a SYSDBA user does not exist, the installer creates the SYSDBA user in the background with TFW user role mapping. It also provides a confirmation message. This feature applies to existing databases and new Blank/Demo databases.

- **TMT-318767**

When upgrading the program, the installer checks to see if the SYSDBA user exists.

- **TMT-318784**

The TFWUser role has the *db_executor*, *db_datareader*, and *db_datawriter* roles after an upgrade, just as it does after a new installation.

Inventory menu

Physical Inventory

- **TMT-311825**

The **Physical Inventories** pane, **Inventory Counts** pane, and **Inventory Adjustment** window now have page persistence so that admin users can customize which columns appear. An **Apply to All** option has been added that saves the column settings and applies them to all users.

- **TMT-319667**

The **Apply All** button has a new name: **Assign Current Grid Layout to All Users**. The button is only available on the **Counts** tab of the **Physical Inventory** page. It has been removed from the **Inventories** and **Adjustment** tabs.

Masters menu

Customers

- **TMT-317645**

You can filter customers based on their Department of Transportation (DOT) Number in the customer search pop-up window.

Employees

- **TMT-317979**

The obsolete **Mechanic Can Go Remote?** field has been removed from the **Misc** tab **Employee Permissions** section.

- **TMT-318199**

The obsolete **Workstation Default Mode** field has been removed from the **Misc** tab **Misc Information** section. The **Workstation Default Mode** option has also been removed from all employee advanced search windows.

Units

- **TMT-317645**

See [TMT-317645](#) under **Masters menu > Customers**.

Orders menu

Estimate

- **TMT-317644**

You can filter customers based on their Department of Transportation (DOT) Number in the customer search pop-up window

Invoice

- **TMT-316282**
Invoice Detail Report: See [TMT-316282](#) under **Activities menu > Inquiries > Order Inquiries**.
- **TMT-316282**
See [TMT-316282](#) under **Activities menu > Inquiries > Order Inquiries**.
- **TMT-317644**
See [TMT-317644](#) under **Orders menu > Estimate**.

Invoices Listing

- **TMT-316282**
Invoice Detail Report: See [TMT-316282](#) under **Activities menu > Inquiries > Order Inquiries**.
- **TMT-317873**
See [TMT-317873](#) under **Activities menu Inquiries > Order Inquiries**.

Purchase Order

- **TMT-317624**
The **Receipts** pane of purchase orders now shows the date and time the POs were received and completed. It also shows the invoice number if one exists for that PO.

Repair Order

- **TMT-317644**
See [TMT-317644](#) under **Orders menu > Estimate**.
- **TMT-317713**
The repair order header fields have been reorganized to make creating ROs more efficient.
- **TMT-318247**
The vendor part quick search and advanced search now show vendor part records. The **Vendor** search criteria now include **Remit Vendor**. This change lets the **Vendor Parts Master** have part records for a repair vendor and the **Remit To** vendor in cases where the repair vendor and the **Remit To** vendor are different and may have different pricing for the same part.
- **TMT-318444**
When a vendor repair order is created by the TA (TravelCenters of America) integration, and the vendor has been added to the order, the **Remit To Vendor** field populates automatically. The **Pay Method** field then populates automatically based on the **Remit To Vendor** field.

▪ **TMT-318620**

When TravelCenters of America (TA) starts a repair request and includes an **Associated Unit** value, that value will fill the **Associated Unit** field in the TMT vendor repair order (VRO) header. If TA also sends a tractor number, then the TMT VRO header shows that tractor number in the **Associated Unit Number** field. The integration also performs additional validation checks depending on whether the **Associate Unit** field is required and/or the TA value is invalid.

Repair Order Template

▪ TMT-314646

You can add **Credit** lines to repair order templates.

Warranty Claim

▪ TMT-317644

See [TMT-317644](#) under **Orders menu > Estimate**.

Reports menu

Report Scheduler

▪ TMT-317184

See [TMT-317184](#) under **Admin menu > News > Approve News Comments**.

Reports > Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library menu

Accounting > Accounting Export Batch Detail

▪ TMT-315010

The report dynamically changes column headings based on the accounting method. The report also has links for the column values. Selecting a link opens more information about the entry.

- For general ledger (GL) entries, the column headings remain **Unit** and **Unit Type**. Entries in these columns are links to unit information.
- For accounts payable (AP) entries, the column headings are **Vendor** and **Vendor Type**. Entries in these columns are links to vendor information.
- For accounts receivable (AR) entries, the column headings are **Customer** and **Customer Type**. Entries in these columns are links to customer information.

Part Inventory > Inventory Accrual report

▪ TMT-317939

There is a new report: **Inventory Accrual**. The report tracks all movement of inventory. This includes debits and credits before and after exporting transactions.

Part Inventory > Physical Inventory Adjustment Log report

- **TMT-313265**

The **Physical Inventory Adjustment Log** now has a **Physical Inventory Number** parameter for filtering the report.

Tires > Tire performance report

- **TMT-317515**

The **Tire Performance Report** now has a **Cost per 32 of Utilization** column.

Tires > Tire Replacement Forecast report

- **TMT-314690**

The new Tire Replacement Forecast report calculates remaining tire utilization for tires installed on units. The report calculates replacement based on the tire's warning and replacement depths in the Parts Catalog.

Tires > Units Missing Tire Assignments Report

- **TMT-317637**

The **Units Missing Tire Assignments Report** is now available. The report lets you find all units where tires are missing from positions. It also lets you validate that all units have tires currently installed in each of the active tire positions.

Security menu

Page Security > Manage Page Permissions

- **TMT-316497**

The **Manage Page Permissions** page now lets you select which order types a role can re-open.

Work with Users > Create User

- **TMT-316846**

When creating a user, the **User Name** field can now take up to 256 characters.

Setup menu

Options > Application Options

- **TMT-316288**

The TTP **Go To Order Activities On Log-in** Application option is no longer available.

Options > Integration Options

▪ TMT-318347

There is a new system message for the **Integration Options** page, **Unit XREF** node. It applies to the TA multi-instance integration for units. When a unit is interfaced in a TA instance, and you try to save the same unit to another TA instance, the message says that this unit is already interfaced in another instance.

IES > Service_Schedule

▪ TMT-318658

The **Service Start Time** field names are now consistent. These field names under **SERVICE_SCHEDULE** have been updated:

- **Send Unit Availability Status:**
 - **Set Schedule Start Time** (formerly **Set/Reset Start Time**)
 - **Send Unit Availability Status Next Run Time** (formerly **Send Unit Shop Status Start DateTime**)
 - **Send Unit Availability Status Last Start Time** (new field added in V.2023.1)
- **Get Trailer Dispatch Meter Type**
 - **Set Schedule Start Time** (formerly ***Set/Reset Start Time**)
 - **Get Dispatch Miles Next Run Time** (formerly **Receive Dispatch Mileage Start DateTime**)
 - **Get Dispatch Miles Export Status** (formerly **Receive Dispatch Miles Export Status**)
 - **Get Dispatch Miles Last Start Time** (new field added in V.2023.1)
 - **Get Dispatch Miles Last End Time** (formerly **Receive Dispatch Miles Last End Time**)
- **Get Unit Meter Type**
 - **Set Schedule Start Time** (formerly ***Set/Reset Start Time**)
 - **Get Unit Meters Next Run Time** (formerly **Receive ECM Start DateTime**)
 - **Get ECM Miles Export Status** (formerly **Receive ECM Miles Export Status**)
 - **Get ECM Miles Last Start Time** (new field added in V.2023.1)
 - **Get ECM Miles Last End Time** (formerly **Receive ECM Miles Last End Time**)
- **Send AP Transactions**
 - **Set Schedule Start Time** (formerly ***Set/Reset Start Time**)
 - **Send AP Transactions Next Start Time** (formerly **AP Transactions Export Start DateTime**)
 - **Send AP Transactions Last Start Time** (new field added in V.2023.1)
 - **Send AP Transactions Last End Time** (field moved to the bottom of the section)

- **Send AR Transactions**
 - **Set Schedule Start Time** (formerly **Set/Reset Start Time*)
 - **Send AR Transactions Next Start Time** (formerly **AP Transactions Export Start DateTime**)
 - **Send AR Transactions Last Start Time** (new field added in V.2023.1)
 - **Send AR Transactions Last End Time** (option moved to the bottom of the section)
- **Send GL Transactions**
 - **Set Schedule Start Time** (formerly **Set/Reset Start Time*)
 - **Send GL Transactions Next Start Time** (formerly **AP Transactions Export Start DateTime**)
 - **Send GL Transactions Last Start Time**
 - **Send GL Transactions Last End Time** (field moved to the bottom of the section)

Options > Integration Options

- **TMT-313189**

The TMW Suite Integration Options now include the option **Use Open-Ended Expiration Dates**. This option sets whether the program calculates expiration dates to send to TMWSuite. The options are:

- *NO* (default)
The program *will not* use open-ended expiration dates. Instead, it will use the current expiration date calculation (Start Date/Today's Date + Estimated Days in Shop = End Date). The program then sends the calculated expiration date to TMWSuite.
- *YES*
The program *will* send open-ended expiration dates to TMWSuite.

Order Setup > Re-open Order

- **TMT-316497**

See [TMT-316497](#) under **Security menu > Page Security > Manage Page Permissions**.

Options > Shop Options

- **TMT-316288**

The TTP **Go To Order Activities On Log-in Shop** option is no longer available.

Setup menu

System Setup

- **TMT-316567, TMT-316571, TMT-316572, TMT-316573, TMT-316574, TMT-316575**

The new **Customer Type** node lets you restrict component codes of all levels to specific customer types. When mapping TMT values to CustomerType values, the **Available** column show available components. Components in the **Excluded** column cannot be mapped to a CustomerType.

If you enter a component code that is excluded for the customer type in the **Bill-To Customer** field, the program clears the field. The excluded component codes do not appear in searches.

In the **Estimates** section, trying to add an excluded component opens the error message "Component Code XXX is excluded from Customer XXX Customer Type of *CUSTOMER TYPE*."

These restrictions apply to these pages:

- **Repair Order Detail**
- **Repair Order Template**
- **Shop Planner**
- **Shop Scheduler**
- **Road Calls**
- **Parts Workstation**

The restrictions also apply to the **Shop Planner** and **Shop Scheduler Open Orders > Add Section** window.

Tool Kit > Integration Tool Kit Test

- **TMT-316979**

The Unit GetVINDetails returns results without any timeout errors. When you set the **Start Date** and **End Date** filter range, the API filters results based on MODIFIED timestamp. When you set the **Estimates** and **Repair Orders**, the API filters results from its **Orders** table **Modified** column. When you set the **Estimate/Repair Section** and **Estimate/Repair LineOrders**, the API filters based on **Orders Section** table **Modified**.

TravelCenters of America

- **TMT-318377**

There is a change in how Vendor parts are imported into TMT from the TravelCenters of America Integration. The change 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.

Trimble Technician Portal

▪ TMT-316576

When creating an RO, you cannot use a component code that is restricted for the customer type. This affects several areas in Trimble Technician Portal (TTP):

- RO creation from the **Job Dashboard**
- RO creation from an **RO Template**
- Add Section from the Job **Dashboard**
- RO creation from Pause
- **Add Template Section**
- RO creation from the **Unit Dashboard**

▪ TMT-316841

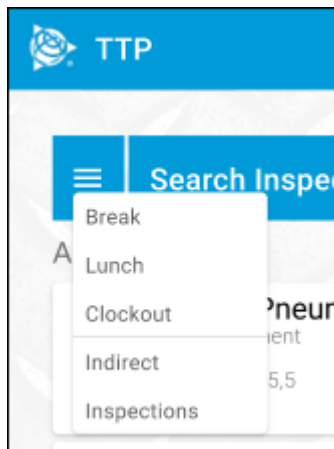
When a user logs into TTP in Kiosk mode, employee cards show the customer name if the employee is working on an RO that has a customer assigned in the header. This feature is only available if you have license for the Invoice module.

▪ TMT-317360

On the **Add Repair Order** page, the **Unit Section Details** panel appears after you enter a unit number. This only happens if the **Select PMs Due & Work Pending to Create Sections** Application option or Shop Option is set to *YES*.

▪ TMT-317604

The **Job Dashboard** menu has a new option: **Inspections**. The menu has a new line between option types:



- **TMT-317605**

The **Inspections** option takes you to an inspection tickets list for the current employee's shop. This page shows open inspections in a read-only view. You can search the page by unit number or filter results by critical status. From this page, users can select **New Inspections**, **Add Plans/ROs**, or **Quick RO**. You can also view, print, or email the **Inspection Ticket Report**.

- **TMT-317706**

TTP now displays the company logo that is set for each environment. The program only shows the logo when you are logged into TTP. You can change this logo in TMT Fleet Maintenance by going to **Menu > Admin > Theme > Customize Site**.

- **TMT-317981, TMT-317983, TMT-317984, TMT-317985, TMT-317986**

Translation support for Spanish has been added to the TTP **Job Detail** and **Search Job** screens. The language change is controlled by your browser settings.

- **TMT-318112**

When creating a repair order from an inspection in TTP, the program now obeys the settings for these Application and Shop Options on the **Planner** node:

- **Auto Create Shop Plans From Repair Orders**

- When set to *NO*, TTP does not create a plan when you create a repair order in TTP.
- When set to *YES*, TTP creates a plan automatically when you create a repair order.

- **Create Plans When Plan Without RO Exists For A Unit**

- When set to *NO*, TTP will not create new plans when you create a new repair order for that unit *if* a plan exists without an associated repair order.
- When set to *YES*, TTP always creates a plan when you create a new repair order for a single unit.

- **TMT-318113**

The **Quick RO** option for an inspection ticket is now available for TTP. For this option to be available, the **Allow User to do a Quick RO on an Inspection Ticket** field must be set to *YES*. This field is located on the **MISC** tab of the **Employees** Master page.

When you select **Quick RO**, the **Quick RO** page opens. If you are in Kiosk mode, the **Shop** field is read-only and the **KIOSK** shop value is shown. If you log into TTP in Employee mode, the **Shop** field shows your shop as the default, and you can edit the field.

When you add a part to any Inspection ticket, the program automatically creates an RO. You can add any type of part except for tires. If you try to add a tire part, you will get the error message, "Tires are not supported on Quick RO; please use standard RO to charge tires."

You now have the option to print part warranties while adding parts to a Quick RO.

▪ TMT-318114

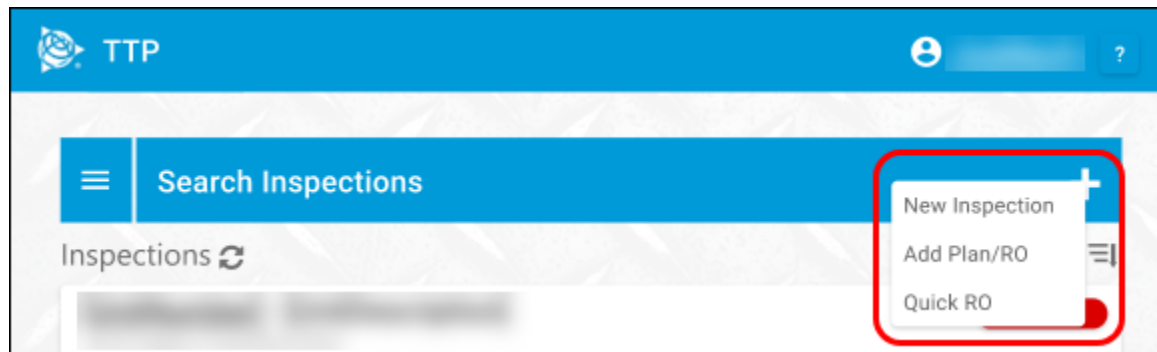
The Inspection Listing page has a new  **Add** menu. The button has three options:

- **New Inspection**
Opens the **New Inspection Ticket** page.
- **Add Plan/RO**
Opens the **Create Plan/RO** page. This option is only available if the **Allow User To Add Plan/RO to an Inspection Ticket** field is set to *YES*. This field is located on the **MISC** tab of the **Employees** Master page.
- **Quick RO**
Opens the **Quick RO** page. This option is only available if the **Allow User to do a Quick RO on an Inspection Ticket** field is set to *YES*. This field is located on the **MISC** tab of the **Employees** Master page.

This illustration shows the **Add** menu location:



This illustration shows the menu:



▪ TMT-318182

You can use the **Employee Search** feature to find employees with specific roles, such as drivers, when you are creating Inspection Tickets.

You can search for employees in two ways:

- **Quick Search**
You start Quick Search by beginning to enter the driver's employee ID. With each character you enter, the program provides a list of matching employees in a drop-down list. As you enter more characters, the list of employees shrinks until you can select the employee you were looking for.

- **Advanced Search**

The Advanced Search employee control panel lets you use search parameters to filter employees. The search parameters are:

- **Employee**

The **Employee** field works like Quick Search. Start entering the employee ID and the field opens a drop-down list with employees who have that character anywhere in their employee ID text.

- **First Name**

Enter the employee's first name. If this is the only parameter you use, TTP will return every employee who has that first name.

- **Last Name**

Enter the employee's last name. If this is the only parameter you use, TTP will return every employee who has that last name.

- **Shop**

Enter a shop number, and TTP returns a list of all employees assigned to that shop.

There is also a **Show Terminated** button. When you select the button, the search results include any employees who have been terminated. Select the button again to exclude terminated employees from the results.

The **Results Panel** shows the list of employees.

- **TMT-318208**

If you press and hold an inspection ticket in TTP, the **View Inspection** screen opens. This screen has these details about the inspection ticket:

- The inspection header information
 - All complaints/comments
 - Critical status

If you are using TTP in Kiosk mode, the **View Inspection** screen is visible beside the inspection ticket automatically.

You can use this page to mark items to be added to a VRO, Plan, Pending, or RO.

You can restrict the ability to create plans by setting the **Allow User to Add Plan/RO to an Inspection Ticket** field to *NO*. This field is located on the **MISC** tab of the **Employees** Master page.

- **TMT-318272**

If you are on the **TTP Inspection Listing** screen, and you press and hold in the **Search** field, a read-only view of the Inspection Ticket information appears. This view shows:

- The unit number
 - The date
 - A drop-down menu with additional header information

- A list of all Inspection Items and their notes

If you are using TTP in Kiosk mode, this information is visible beside the inspection ticket automatically.

- **TMT-318274**

You can now create an RO, VRO, Pending RO, or Plan from an inspection ticket card. To use this feature, the **Allow User To Add Plan/RO to an Inspection Ticket** field must be set to YES. This field is located on the **MISC** tab of the **Employees** Master page.

Creating an RO will follow the **Auto Create Shop Plans From Repair Orders** Application and Shop options. When this option is set to YES, TTP creates a plan when you create a repair order.

- **TMT-318768**


You can now record time spent on Inspection Tickets. When you go to the **Inspections** dashboard, the Timecard records it as an *Indirect Order*. TTP automatically generates an **Indirect Order** with the *Inspections* labor code.

- **TMT-318791**

You can now hide cost values in the **Repair Order Detail** report when you set the **Show Line Item Monetary Amounts** Application Option to *YES*.

- **TMT-318111**

You can now create new inspections in TTP. After you enter an inspection type, a list of configured inspection items appears. You can select a complaint and enter comments. If you do not select a complaint, the message "Is unit okay to drive?" appears. If you select "Yes," then the inspection ticket and the unit are marked as safe to drive.

The  **Print** option lets you email the inspection details.

Resolved issues

Accounting menu

Accounting > Dynamics GP > GL

- **TMT-318375**

GL orders with mixed dates for line transactions, versus section dates, and versus order dates are all returned successfully.

Orders that were marked as "Do Not Post" are no longer incorrectly retrieved when getting GL transactions.

Accounting > IES > GL

- **TMT-318375**

See [TMT-318375](#) under Accounting Menu > Accounting > Dynamics GP > GL.

Accounting > QuickBooks Desktop > GL

- **TMT-318375**

See [TMT-318375](#) under **Accounting Menu > Accounting > Dynamics GP > GL**.

Activities menu

Accounting

- **TMT-308156**

The page shows the correct general ledger (GL) transactions instead of duplicating credit and debit lines when you have the **Inter-Company Accounting** Integration option set to *YES*.

- **TMT-317311**

The **Accounting** drop-down list no longer shows inactive accounts when you add or edit lines.

Accounting > Accounting

- **TMT-316966**

QuickBooks accounts receivable (AR) now exports **Class** source values correctly.

- **TMT-318385**

You can use the same invoice number for different vendors when exporting into QuickBooks.

Accounting > Accounting > IES > AP

- **TMT-317854**

When retrieving an accounts payable (AP) order with tax rounding issues, the order remains in the **AP** tab and is handled by the IES error handler when exported. The correct error message now appears.

Inquiries > Order Inquiries

- **TMT-317318**

When a company unit with a preventive maintenance (PM) schedule is changed to a non-company unit, that unit no longer appears on the **PM Due** tab of the **Unit Inquiries** page.

- **TMT-317435**

The **Line Component** filter is now available for:

- Invoices
- Purchases
- Repairs
- Warranty
- Indirect and Transfers

The **Component Key** filter is no longer available for:

- Repairs
- Purchases
- Invoices
- Warranty
- Indirect
- Fuel Tickets
- **TMT-317566**

Invoice tab filters with date parameters filter results correctly.

- **TMT-317568**

The **Invoice Filters** pane no longer has a **Customer ID** drop-down menu. There is now a **Customer Name** drop-down menu. The customer ID and customer name appear in the grid.

- **TMT-317569**

The **Purchase** tab can filter results by invoice.

- **TMT-318722**

Detail and batch reports now send emails with attachments correctly.

Inquiries > Order Inquiries > Invoice Tab

- **TMT-318187**

The **Invoice Detail Report** shows the correct value for **Amount Paid**.

Inquiries > Order Inquiries > Invoice Tab > Invoice Detail Report

- **TMT-318956**

The **Invoice Detail Report** no longer adds duplicate part lines.

- **TMT-318641**

The **Invoice Detail Report** correctly shows the full decimal values, when available, for quantity and price.

Database

- **TMT-318777**

The **ACTIVECODE** column is no longer set to NULL in SQL after you delete an item from a price table.

Framework

- **TMT-318346**

We have enhanced the security protocol of Transport Layer Security from 1.0/1.1 to 1.2. As a result, we have upgraded the .NET version to support the new security protocol.

McLeod Accounting menu

Batch Export

- **TMT-318375**

See [TMT-318375](#) under **Accounting Menu > Accounting > Dynamics GP > GL**.

Mobile Inspection App

- **TMT-317508**

The mobile inspection app now adheres to the TMT Application Option settings **Require Batch Numbers For Fuel Tickets** and **Require Trip Tickets for Fuel Tickets**.

- **TMT-317509**

The mobile inspection app now tells you if the requested fuel quantity exceeds the available fuel quantity right after you enter a fuel ticket.

Orders menu

Campaigns Listing

- **TMT-318689**

Repair order attachments added to one RO no longer appear on every RO in a campaign.

Invoice

- **TMT-312579**

Invoices now correctly select the labor rate based on the customer's pay grade and the employee's workshift type.

Invoice > Invoice Detail Report

- **TMT-318956**

See [TMT-318956](#) under **Activities menu Inquiries > Order Inquiries > Invoice Tab > Invoice Detail Report**.

Invoice > Invoice Detail Report

- TMT-318641

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

Invoices Listing

- TMT-318187

See [TMT-318187](#) under **Activities menu Inquiries > Order Inquiries > Invoice Tab**.

- TMT-318722

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

Invoices Listing > Invoice Detail Report

- TMT-318956

See [TMT-318956](#) under **Activities menu Inquiries > Order Inquiries > Invoice Tab > Invoice Detail Report**.

- TMT-318641

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

Purchase Order

- TMT-315496

The **Accounting** page's **Export Preview** now correctly rounds freight and tax numbers with three or more decimal places. The pane shows correct credit and debit balances. Values are consistent between purchase orders and the **Export Preview** on the **Accounting** page.

- TMT-315809

The **Purchase Order** page **POINVOICE** tab shows the correct **Invoice** date instead of defaulting to the purchase order **Opened** date. If you try to enter an invoice date that is before the Opened date or after the Invoice date, the program alerts you to the problem with an error message.

- TMT-317135

The **Receive Purchase Order** page now shows the correct date in the **Receive/Close Date** field after you select **Receive** on a line item.

- TMT-318755

The **Tax** line recalculates correctly when you add a **Freight** or **Misc** line while receiving a purchase order.

Purchase Order Listing

- **TMT-318722**

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

Repair Order

- **TMT-317111**

Diagnostics definitions mapped to a component code or unit type correctly print on the **Repair Order Section Work Card** report.

- **TMT-317816**

When you add a section template to an RO, the **RO Template Sections** window only shows you active templates.

- **TMT-317861**

The program handles VRO estimate approvals correctly when a line total contains a negative amount. The estimate approval process calculates credit and debit lines correctly.

- **TMT-318061**

You can edit and delete tax and discount lines on VROs generated from the TA integration. Tax and discount lines are placed in Section 0.

- **TMT-318136**

When you change the job code assignment for an RO section, the program also updates associated tasks.

- **TMT-318188**

The **Change VRO Estimate** button is not available on closed standard ROs.

- **TMT-318264**

You can now add comments after reopening a closed section.

- **TMT-318417**

Changing a **Complaint** code after entering a **Job Code** on a section does not remove the **Job Code**.

- **TMT-318507**

While replacing the tires, the program records only one entry for the new tire fixed in position. The old tire that you removed is available.

- **TMT-318589**

If you add a vendor line that goes above your limit to a VRO with an order status of *Complete* and approval status of *Approved*, the order status changes to *Open* and the approval status changes to *Needs Approval*.

If you do not have the option Allow User to Change VRO from Complete Status to Open Status set to YES, you get the error message, "The User is not allowed to reopen the order." You cannot reopen the order.

- **TMT-316178**

Toggling the **Vendor Supplied** option multiple times no longer lets users edit the **Qty UOM** and **Charge Amount** fields for catalogued parts. The fields remain locked based on your system settings.

- **TMT-318788**

The new **Customer Type** node lets you restrict component codes of all levels to specific customer types. When mapping TMT values to CustomerType values, the **Available** column show available components. Components in the **Excluded** column cannot be mapped to a CustomerType.

If you enter a component code that is excluded for the customer type in the **Bill-To Customer** field, the program clears the field. The excluded component codes do not appear in searches. IN the Estimates section, trying to add an excluded component opens the error message "Component Code XXX is excluded from Customer XXX Customer Type of CUSTOMER TYPE."

Repair Order Template

- **TMT-316000**

If you have the **Require VRO/PO Approval Levels** Application option set to YES, the program completes repair order template **Vendor Estimate** field automatically. The **Approval Status** changes to *Approved* or *Needs Approval*, depending on your approval level.

Repair Orders Listing

- **TMT-318722**

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

- **TMT-318727**

The **VPO Number** column filter returns results without any duplicates.

Reports > Reports - SSRS > SSRS Report Viewer > Standard Reports > AMS SSRS Report Library menu

Shops > Shop Component Cost Analysis

- **TMT-317433**

The **Shop Component Cost Analysis** report shows correct cost values for part and labor lines.

Orders > Order Inquiries_Invoice Order

- **TMT-318641**

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

- **TMT-318956**

See [TMT-318956](#) under **Activities menu Inquiries > Order Inquiries > Invoice Tab > Invoice Detail Report**.

Setup menu

Options > Integration Options

- **TMT-318699**

The expirations between AMS and TMW Suite sync regardless of whether there is a UNITCHILD associated with the unit.

Options > Application Options

- **TMT-318766**

The **Parts** price accurately reflects the price table markups correctly when the **Calculate Part Tax On Actual Price For Bundle Pricing** Application Option is set to *YES*.

Options > Integration Options

- **TMT-316966**

See [TMT-316966](#) under **Activities menu > Accounting > Accounting**.

- **TMT-318661**

In the **IES** node **Service_Schedule** category, the **Next Start Time** updates appropriately when the IES Console application is run out of scope or the scheduled task executions for the IES Console are interrupted. The program uses this procedure to set the **Next Run Time**:

- Calculate "Next Run Time" by taking the newly recorded "Last Start Time" in the SEND_XXXXXXXXX_LAST_START and adding the value in minutes recorded in SEND_XXXXXXXXX_FREQ.
 - If
 - 1) Newly recorded "Last Start Time" is earlier than "Schedule Start Time" and
 - 2) "Last Start Time"+"Frequency" is after Today's Date at "Schedule Start Time"Then the timestamp of "Next Run Time" should be reset to today's date at the timestamp from "Schedule Start Time"
 - If
 - 1) Newly recorded "Last Start Time" is earlier than "Schedule Start Time" and
 - 2) "Last Start Time"+"Frequency" is equal to or before Today's Date at "Schedule Start Time"Then use the calculated "Last Start Time" + "Frequency" value in the "Next Run Time" field.
 - If
 - 1) Newly recorded "Last Start Time" is later than "Schedule Start Time" and
 - 2) "Last Start Time"+"Frequency" is after Tomorrow's Date at "Schedule Start Time"Then the timestamp should be reset to tomorrow's date at the timestamp from "Schedule Start Time"

- If
 - 1) Newly recorded "Last Start Time" is later than "Schedule Start Time" and
 - 2) "Last Start Time" + "Frequency" is equal to or before Tomorrow's Date at "Schedule Start Time"Then use the calculated "Last Start Time" + "Frequency" value in the "Next Run Time" field.

Setup menu

Toolkit > Integration Toolkit Rest

- **TMT-318386**

GETIMAGINGORDERINFO includes the VRO Notes value, which is shown in its associated field.

Trimble Technician Portal

- **TMT-317473**

TTP's timecard's **Total Paid Time** calculation no longer includes lunchtime values. It includes idle time values.

- **TMT-318223**

The **Unit History Search** in TTP now has a **Customer** field. If there are multiple customers with the same **Unit Number**, you can use this field to filter the search by individual customer. If you leave this field blank, the search returns all customers with the same **Unit Number**.

- **TMT-318675**

When you create a repair order, TTP calculates the billable value is calculated correctly, independent of the combinations of the shop and customer options.

- **TMT-318743**

Reports-only units no longer appear in TTP unit searches. If you try to create an RO with a reports-only unit, you get an error message.

If you do not have the option **Allow Creating of Units 'On The Fly' in Workstation** set to *YES*, you get an error message if you try to make an RO with a reports-only unit.

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