Product Bulletin

August 8, 2023

Release Announcement

Trimble is pleased to announce version 5.7 of our Trimble Unity® Remote Monitoring (RM) and Work Management (WM) software. Below is a list of key benefits, additional release details, and fixed issues.

Trimble Unity RM 5.7 Release Benefits:

- **Calculated Measurements**: Enhance your reports using custom calculations built with the new Formula Editor, including automatic syntax validation. Your calculated measurements automatically update as you collect data. Here are a few examples of what is possible.
    - **Elevations**: Convert PSI data to water column.
    - **Netflows**: Calculate total flows by adding and subtracting flow entering and leaving a junction in a sanitary sewer network.
    - **Mass/Water Balance**: Estimate water loss by summing all inflows and subtracting all outflows to determine the unaccounted volume.
    - **Surcharge Level Monitoring**: Switch between an ultrasonic level sensor to a pressure sensor during surcharge with Excel-style If-Then-Else functions.
    - **Weir/Flume Flows**: Calculate flow through a weir or flume using built-in trigonometric and exponentiation functions.
    - **Unit Conversions**: Convert from the units of measurement to the desired units for reporting.
    - **Data Adjustments**: Add an offset to previously collected data to compensate for an incorrect level offset or rescale data that had the wrong scaling factors applied.
    - **Simple Aggregations**: Create an hourly or daily average from 5-minute interval data.
    - **Baseline Indicators**: Create measurements to mark critical values, such as pipe diameter and manhole depth.
- **Table Only View**: Now, you can easily view raw data values on-site using a small screen and low-resolution device with our dedicated Table View.
- **Improved Navigation**: Our breadcrumb-style navigation quickly shows where you are within the app and how you got there, enabling you to return quickly to any prior screen.

Trimble Unity WM 5.7 Release Benefits:

- **Improved Asset Status Reporting**: From the web portal, you can now quickly view a status summary for all assets associated with a work order.
- **Improved PDF Reporting**: Improved report image/photo size and quality while maintaining optimal file size for ease of sharing.
- **Form Editor Validation**: Improved user experience when editing forms. You will be notified when you attempt to delete questions that are conditionally associated with other questions while creating and editing smart forms.
- Bug fixes to improve stability and performance.

If you are a Trimble Unity RM or WM cloud-hosted customer, your software has been updated to the latest version.

If you have a dedicated hosted environment, our support team will reach out to coordinate your cloud software update.

Because the new features in this release are targeted for our cloud customers, we will not be offering it to our customers with an on-premise deployment of Trimble Telog® Enterprise integrated with Trimble Unity RM (RMTE).

Watch for our next release announcement, when we will once again include an upgrade path for all customers.

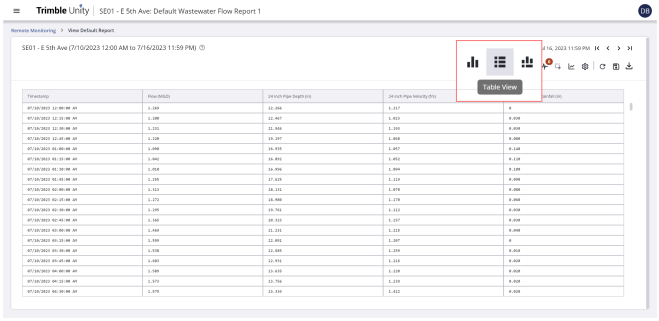
Please join our Trimble Unity 5.7 webinar on August 24, 2023 at 2 PM EDT to learn about the latest release and have the opportunity to ask questions. Sign up here.

Release Details

Trimble Unity Remote Monitoring (RM)

Advanced Analytics with Calculated Measurements

Calculate flow through a weir or flume, convert between PSI and water column, estimate netflows, perform mass balance calculations, automatically switch between primary and surcharge level sensors, and more with calculated measurements. Use the new Formula Editor with automatic syntax validation to derive additional information from your existing RTU and imported monitoring site data. Our flexible formulas enable you to perform everything from simple unit conversions to complex logical operations using If-Then-Else statements, allowing you to enhance your reporting capabilities.

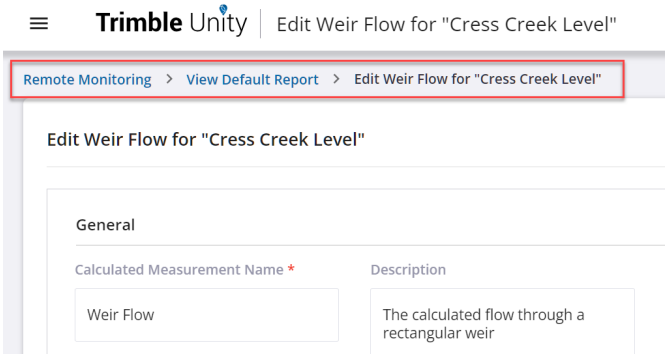


Telemetry Report - Table Only View

For those times when you are onsite calibrating your sensors, validating an installation, or troubleshooting a problem, and all we need are the raw data values, try the new Table Only view to maximize your screen area. This view is ideal for users working with smaller, low-resolution screens that need to view data without including the chart and the space it consumes.

Breadcrumb Style Navigation

Always know where you are and how you got there with the breadcrumb navigation bar. Quickly return to any point in your journey by clicking the links in the path. For example, clicking the Remote Monitoring link will return you to the main application page from your current page. You will always be prompted to save your changes before leaving the current page.



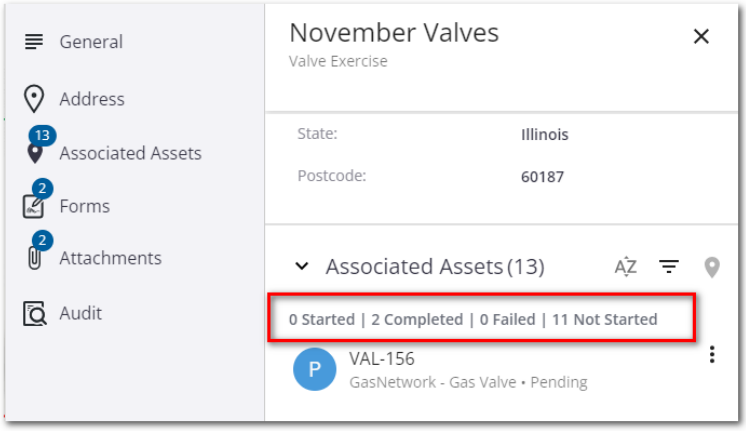
Additional Trimble Unity RM Improvements

- The user interface responsiveness has been improved when working with RTUs that include many channels.
- Minor layout changes to the controls on graphical telemetry reports, increasing the available reporting area.
- Minor improvements to the RS-45 channel grouping and naming increase readability and consistency.

Trimble Unity Work Management (WM)

Enhanced visibility to asset inspection status counts

Quickly view asset inspection status counts from the Trimble Unity Web portal. Users can easily see how many inspections have been started or not and how many have been completed. Users can also quickly see if any have failed. This allows for increased insight into how work activities are progressing from the field.

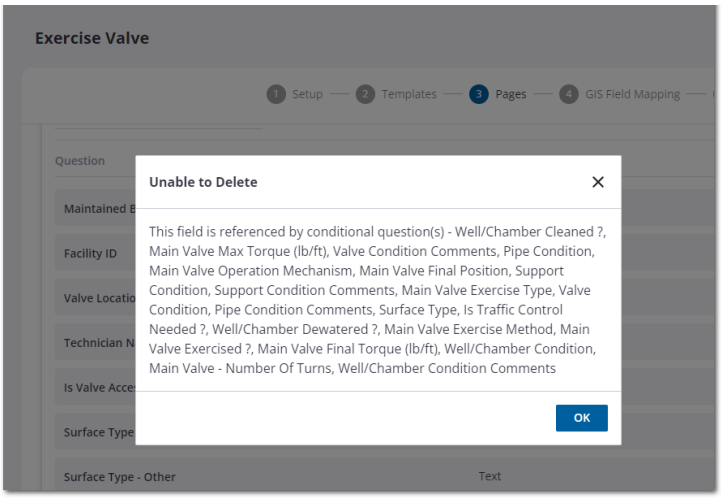


Improvements to PDF Report

New enhancements to the PDF reporting capabilities that allow for larger images while still maintaining ideal file size for the report as well as more intelligent reporting that respects conditionally hidden fields that are defined in the Form Editor.

Enhanced Form Builder capabilities

Administrators that are editing smart forms with the Form Editor now have better insight when updating a form that has conditional rules. The Form Editor will prompt the user if they try to delete a field that is referenced by a conditional question. It will also list all the conditional fields associated with it so the user will know what needs to be modified.



Fixed Issues

Below is the list of issues fixed in this release.

Trimble Unity Remote Monitoring

- URM-3394: RTU Details shows "This RTU has no alarms set" when alarms are set.
- URM-3425: Unity RM Dashboard rendered incorrectly for screen width of 1401 to 1576 pixels.
- URM-3650: The monitoring site status is not automatically updated when a new alarm is reported.

Trimble Unity Work Management

- UWM-5139: Unable to change question label in the Form Builder if the question is a parent of a conditional questions.
- UWM-5103: Password ending with `&` character prevents the user from logging in to the web app.
- UWM-4971: List fields are not returned in excel exports for classifications (e.g. for Work Orders, Service Requests).
- UWM-3813: Exports larger than 2GB fail to complete (due to python2.7 limitation).
- UWM-3696: The filtering drop-downs on the web do not handle wrapping and are too narrow when the drop-down text exceeds space available.
- UWM-4750: Add Associated Asset Counts by Status on the web app.
- UWM-4671: Improved compression of Images in PDF to reduce file size.
- UWM-4834: Prevent user from deleting a form question if other fields have a conditional dependency on it.

Trimble Unity Mobile

- UM-5246: Filtering does not always return the correct list of RM monitoring sites.
- UM-5048: Memory issue preventing user from completing a WO.
- UM-5137: Compass tool indicator not taking into account the direction where we are facing (when connected to external receiver).
- UM-5134: After Sync completed work order left on the device and cannot be synced.
- UM-5081: Back button disappears from the Measure screen after auto sync.
- UM-5185: When switching to TPK basemap, identify results screen getting opened automatically if done previously.