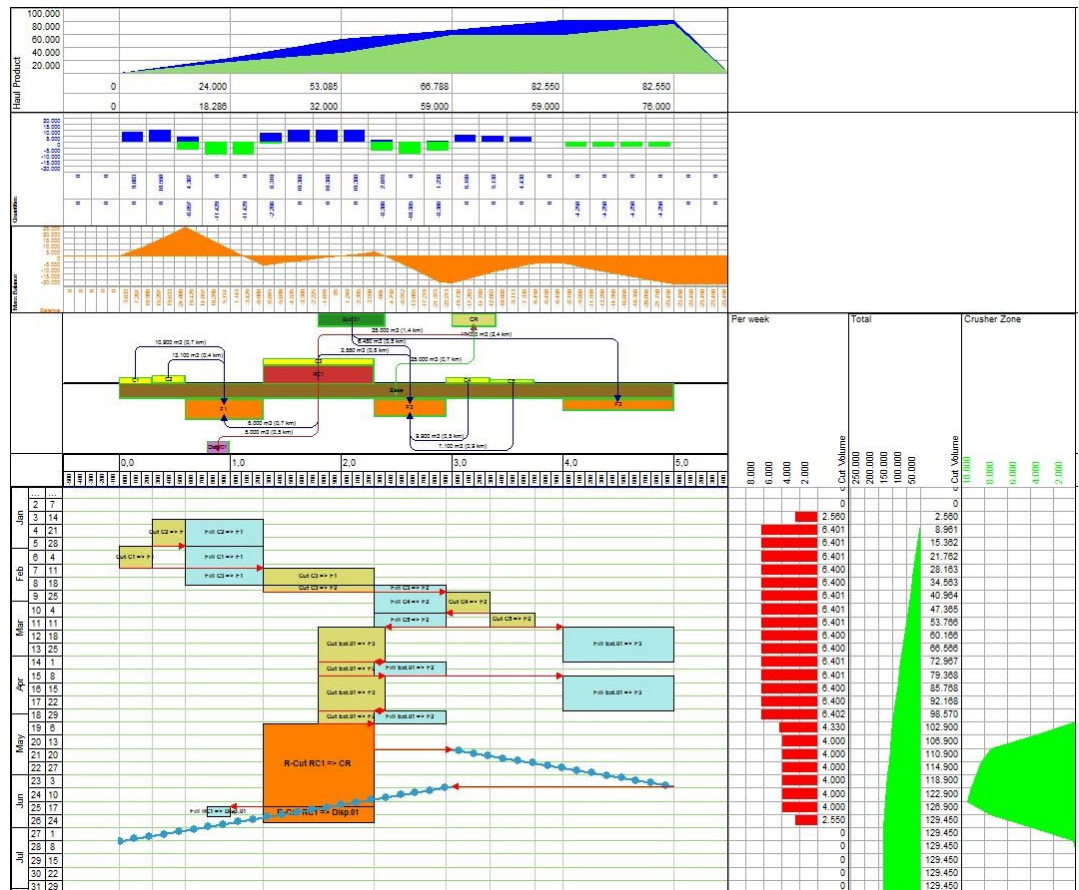


# What is New in Trimble TILOS 10

Increased Speed - More Capacity - Greater Flexibility

Maximum value for your company!



## Mass Haulage

### **Add Space Above/Below the Zero Line**

In a mass haulage diagram, you can now add space vertically between the zero line and cut/fill mass areas to make room for horizontal haulage lines and labels. Enter percentages of the chart's height for the space below cut areas and above fill areas. See **Zero line to cut spacing** and **Zero line to fill spacing** in the [Tab - Mass Haulage Diagram](#) help topic

### **Position the Start/End Points of Mass Haulage Links**

You can now control the horizontal positions of source and destination link arrows between mass areas. This can help you unclutter the view when multiple links converge at a single balance point. For any link start/end point, enter a % (0 = start of mass area; 100 = end of mass area) to separate link arrows/lines so they no longer overlap. Alternately, you can click-and-drag the vertical portion of a link line to a new position. If you drag beyond the extents of the balance area, the link will snap to the nearest valid position (start or end). See **Source link position** and **Destination link position** in the [Dialog - Mass Haulage](#) help topic

### **Show/Hide Mass Haulage Area and Haulage Line Annotations**

You can now filter a mass haulage diagram to show/hide object and line labels by area or haulage type. The settings you specify apply to both existing mass and haulage annotations in the diagram and new ones you create (in the same or a new diagram). See **Filter mass types** in the [Dialog - Filter Mass Haulage Diagram](#) help topic.

### **Group Mass Areas by Type**

In a mass haulage diagram, you can now group all mass areas of the same mass type on one line; one line is created for each unique type. You can also label the mass type rows by using the Glue Left Cells command. See **Group mass types on lines** and **Hide lines if no areas are in range** in the [Tab - Mass Haulage Diagram](#) help topic.

### **Auto-Adjust a Task Template When You Change a Haulage Type**

When mass areas are connected via a mass haulage, and the haulage has a type assigned (scraper, dozer, etc.), TILOS can now create a task out of the mass haulage. If the haulage type changes, the program automatically updates the task's template with the newly assigned type. See **Mass Haulages and Associated Tasks** in the [Tab - Connected Tasks](#) help topic.

## Rescheduling

### ***Automatically Calculate a Successor Task's End Date***

When using a Finish to Finish link between two tasks in a time-distance chart, you can now base one or more successor task end dates on their predecessor task's end date. Enable the Calculate successor end date option for the link when you want a master task to control when parallel tasks end; the other tasks will finish at the same time as the master task. If you change the duration of one task and then reschedule, the second task is changed in duration to meet the same end date as the predecessor. You can also add lead or lag times to make the successor which will make it end before or after the end of the predecessor. See **Calculate successor end date** in the [Dialog - Create New Link](#) help topic.

### ***Synchronize Predecessor and Successor Task Quantities (Material Volumes)***

When linking two tasks in a time-distance chart, you can now base a successor task's quantity on its predecessor task's quantity, e.g., you can synchronize a mass haulage's cut and fill material volumes. When you change the quantity of the predecessor task (making the task longer), when you reschedule, the quantity of the successor changes and you get a new duration calculated from the task's updated quantity. This enables you to quickly update tasks that are all working with the same quantity. See **Set quantity by predecessor** in the [Dialog - Create New Link](#) help topic.

## Printing

### ***Access the Print Command from the Main Menu***

To make printing functions easier to access, you can now find the Print command on the File menu (as well as on the Main toolbar, View toolbar, and context menus from various views). The Print command opens a pane that includes all of the printer and page setup options you need to define and print most charts, lists, and other views. See Printing Views and Charts in the help.

### ***Iteratively Configure and Preview What will Print***

The Print dialog has been replaced by a non-modal pane, meaning that as you make changes to settings, their effects are instantly shown in the print preview pane. The Print pane has been re-arranged so you can more easily define and preview what content is within the printable area for each page. The zoom level of the print preview is automatically set so that all active views are shown, along with pagination lines indicating what content will be printed on each page. A new Print on one page option allows you to quickly for your content to a single sheet. Row and column 'handles' also enable you to manually scale a chart to fit as you need. See Pane - Print in the help

## Project Setup

### **Open or Start a TILOS Project Quicker**

Now when you launch TILOS, you can quickly open a recent project, create a new project from a template, or open any other project (including samples) in the TILOS dialog. See the [Creating a New Project](#) help topic.

### **Drag-and-Drop Picture Files**

You can now drag image files from Windows Explorer and/or the TILOS Explorer Graphic Libraries and drop them into list cells and to a task's File Links tab. See **Drag-and-drop files** in the [Graphic Libraries](#) and [Tab - File Links](#) help topics.

## Gantt Charts

### **Drag and Drop Task Types to Create a Schedule; Drag-and-Drop Tasks to Create a Template Type**

You can now quickly create a schedule by dragging and dropping task types from the Task Templates library to a Gantt chart. When you drop the task type, a task is created with its start date at the location of your cursor. The reverse is also true: you can drag a unique task from a Gantt chart to the Task Template library to create a new task type template. See **Creating tasks from task templates** in the [Working with Tasks in Gantt Charts](#) help topic.

### **Add a New Task using the Insert Key**

You can now add a task into a Gantt chart by selecting a task template, picking an existing row in the chart, and pressing the Insert keyboard key. The new task is created (using the selected template) above the selected task in the chart (as it is in MS Project). See **Creating tasks from task templates** in the [Working with Tasks in Gantt Charts](#) help topic.

### **Zoom Out to Extend the View Range**

When you are zoomed out to the current project range (start and end date of all tasks), you can now click the Zoom Out icon on the Main Toolbar to expand the view range (current start date + duration/length \* 1.5.) so you can add additional tasks after the last one. See **Extending the view range** in the [Defining the Visible Area](#) help topic.

### **Hide Quantities in the Summary Task Row**

You can now hide the quantity values for summary tasks using a text column setting. See **Hide values on summary tasks** in the [Dialog - Text Panel Column Setup Extra](#) help topic.

### **Show/Hide Sub-Project Summary Rows**

You can now hide the summary task rows for ungrouped sub-projects in a Gantt chart. Once summary rows (and therefore task sub-project data) are hidden, you can still make sub-project names visible by adding a Sub-project ID column to the chart. Although sub-project data may be hidden, chart sorting is still done within each sub-project. See **Hide project line** in the [Tab Display](#) help topic.

### **Color the Rows of Summary Tasks**

You can now color summary task rows to make the task hierarchy in the chart easier to understand. Choose a color code in Gantt Chart Settings to specify how to shade each level in the tree. Color codes that can be edited and new color codes can also be created directly from the Gantt chart settings. See **Color background of summary structure** in the [Tab - Display](#) help topic.

## **Time-Distance Chart**

### **Control the Expand/Collapse of Levels**

Now when you import a project with a deep hierarchy (from Microsoft Project, for example), you can more easily control how many levels are shown (expanded/collapsed) in a time-distance view. There are now options to:

Hide all summaries, but show all details.

Hide all details, but show all summaries.

Show summaries and details just down to a specific level; deeper levels are collapsed.

Save and load a specific set of display attributes (such as what levels are expanded/collapsed) for a time-distance cell so you can return to that state at any time.

Show/hide individual levels by checking boxes in the Display details column.

These options help you visualize tasks from any level. See **Display Only Details, Display Only Summaries, Show Details to Level, Save Preset and Load Preset** in the [Tab - Summary Tasks](#) help topic

### **Reuse Cell Display Settings**

In a time-distance view, you can now copy settings (display attributes and the expand state of levels) from an existing cell to your active cell. Select the cell you want to copy to and use a context menu command to select a cell you want to copy settings from (grid and border definitions are not copied). See **Copy Display Settings** in the [Context Menu Gantt Chart](#) help topic.

### **Use a Color Code to Shade Task Hierarchy**

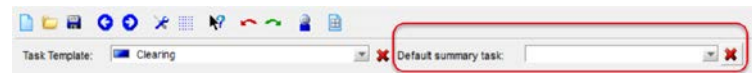
You can now automatically color the hierarchy based on each task's indent level using a color code (predefined set of colors; same as those used for the Gantt charts). You can also override the color code at the individual task level. If you have a deeply nested summary structure, it is helpful to color rows based on their indent level. See **Use color set** in the [Dialog - Options - Display](#) help topic, **Use task color for summary** and **Shape colors** in the [Tab - Display](#) help topic.

### **Work with Task List and Time Distance View in Parallel**

The interaction between a time-distance view and a task list has been enhanced with a new Task List tab beneath the TILOS Explorer. When you are in a time-distance cell, you can now click the tab to see a list of all visible tasks in the cell (with the same filter applied). When you select tasks in the list, the same ones are then selected in the view. If the task is outside the extents of the view's visible area, you are prompted to change the extents. If the task is within the extents, the view is scrolled to it. These features make it easier to select tasks and change them in the time-distance view using the task list. See the [Tab - Task List](#) help topic.

### ***Specify a Default Summary Task***

You can now select a default summary task for each task template in the Preset toolbar so that each task is automatically associated with a summary when it is created. See the [Creating Tasks](#) help topic.



### ***Show/Hide or Flatten the Task List***

You can now use buttons at the top of the new tabbed Task List pane beneath the TILOS Explorer to expand/collapse the list structure, as well as to switch it to a flat list that can be sorted. See Show Flat List, and Copy Expand States to View in the [Tab - Task List](#) help topic.

### ***See a Task List or Gantt Chart Selection in the Time-Distance View***

You can now quickly show a Gantt chart or Task List selection in the time-distance view. This can be helpful when you are editing tasks in either of those non-graphical formats. The start and end coordinates of the time-distance view that is opened are working in are set by the minimum and maximum values of the selected task. See [Show Selection](#) in the [Context Menu - Task](#) help topic.

### ***Use a Quantity Split Linear Model to Measure Progress***

You can now enter task progress using a Quantity Split Linear progress model, which behaves similarly to the Quantity Split progress model. Quantity split is like a simple percent complete measurement, based on quantity. See [Quantity \(Split Linear\)](#) in the [Dialog - Enter Task Progress](#) and [Tab - Progress Task](#) help topics.

## ***Other enhancements***

### ***Choose a Different Duration Format***

You can now format the default Duration format and token used for various performance values (e.g., Baseline, Done, Earned value, Remaining, and At completion durations) in other time units, e.g., days. This makes it easier to customize and read Gantt chart text tables and time-distance chart dashboards. See [Duration unit](#) in the [Dialog - Text Panel Column Setup Presentation](#) help topic and [Calculation of duration by](#) in the [Dialog - Options - Project](#) help topic.

### ***Include a Row Number Column in List Views***

You can now include a first column with row numbers in list views, such as the Task List, Link List, and Resources List. For instance, if you open a Task List, the first column now indicates the number of the records in the list. This makes TILOS lists more familiar and similar to Microsoft Excel and other spreadsheets. You can specify the header of the row number column. See [My Name](#) in the [Dialog - Spreadsheet Settings](#) help topic.

Row#	Link	Successor	Predecessor	Link type
1	Cut & Haul (Scraper) C2 ↔ F1 → Cut & Haul (Scraper) C5 ↔ F1	Cut & Haul (Scraper) C5 ↔ F1	Cut & Haul (Scraper) C2 ↔ F1	Finish - Start
2	Cut & Push (Dozer) C3 ↔ F2 → Cut & Push (Dozer) C4 ↔ F3	Cut & Push (Dozer) C4 ↔ F3	Cut & Push (Dozer) C3 ↔ F2	Finish - Start
3	Cut & Haul (Scraper) C5 ↔ F1 → Cut C1 ↔ F1	Cut C1 ↔ F1	Cut & Haul (Scraper) C5 ↔ F1	Finish - Start



### ***Find List Entries More Easily***

You can now right-click in a list cell, select Incremental Search, and enter a specific text 'string' by typing the characters. Previously, this function was only enabled by pressing CTRL + I. Find the next matching string in the list (including in following columns) by pressing the down arrow key. See **Incremental search** and **Find entries in the list** in the [Shortcuts & Function Keys](#), [Task List View](#), [Link List View](#), and [Working with Data Grids](#) help topics.

### ***Copy and Paste Task List Items in a 'Natural Order'***

Now when you use the CTRL + C and CTRL + V shortcuts to copy and paste tasks into the Task List, the copied tasks are inserted above the task you select (in the natural order/task sequence). In addition, each inserted task is automatically assigned a new Task ID. See **Copy-and-paste tasks** in the [Dialog - Task Sorting](#) help topic.

### ***Quickly Show/Hide Sub-project Data in Views***

When your project contains many sub-projects, you can now open a list (in the time-distance chart's cell properties) and show/hide just the ones you want to see in the chart. To make selecting just the required sub-projects easier, Select All and Deselect All buttons are also available. In addition, a Default sub-project column allows you to specify into which sub-project new tasks will be automatically assigned. See **Show/Hide Sub-project Data in Views** in the [Dialog - Sub-Project Settings](#) help topic.

### ***See More Task Information in Predecessor and Successor Lists when Creating a Link***

When creating a new link between tasks using the Link properties pane, you can now see additional information for tasks, including their IDs, names, and linked predecessors and successors. This information helps you easily see which tasks in the list are already linked. To help you find the right successor or predecessor, you can also use CTRL+I in the task list to perform an incremental search for a text string. See **Predecessor** and **Successor** in the [Dialog - Create New Link](#) help topic.

### ***Access Create Predecessor/Successor from a Selected Task***

In a project with many tasks, it is helpful to have an alternate non-graphical way to link tasks, so you can now right-click a task and select Create Predecessor or Create Successor from the context menu. Depending on whether you are creating a predecessor or successor, that field is automatically filled in the Create Link pane, and you simply need to click in the other field and (using the enhanced task information) select the other task. See [Linking Tasks](#) and [Dialog - Create New Link](#) in the help.

### ***Color symbols***

You can now color summary icons according to a predefined color table schema. See **Use color schema for a task structure** in the [Dialog - Options - Display](#) help topic.

### ***Use Updated Help and Training Resources***

The table of contents and many help topics have been restructured to make it easier to search for and find the information you need. The [Getting Started](#) help topic includes an expanded list of training and reference resources to help you get started and make you more productive. The help menu now links to training videos. See the [Other Training Resources](#) help topic.