

## Logic+ Introduction

LWARE Logic+ is used to view and analyse project schedule files.

### Quick Start Guide

1. **Installation:** Get a license key and [install](#) Logic+
2. **Schedule Files:** Have a copy of two schedule files for the same project
3. **Project Wizard:** Use the [Project Wizard](#) to create a project and load schedule files
4. **User Documentation:** Available on the [lware website](#).

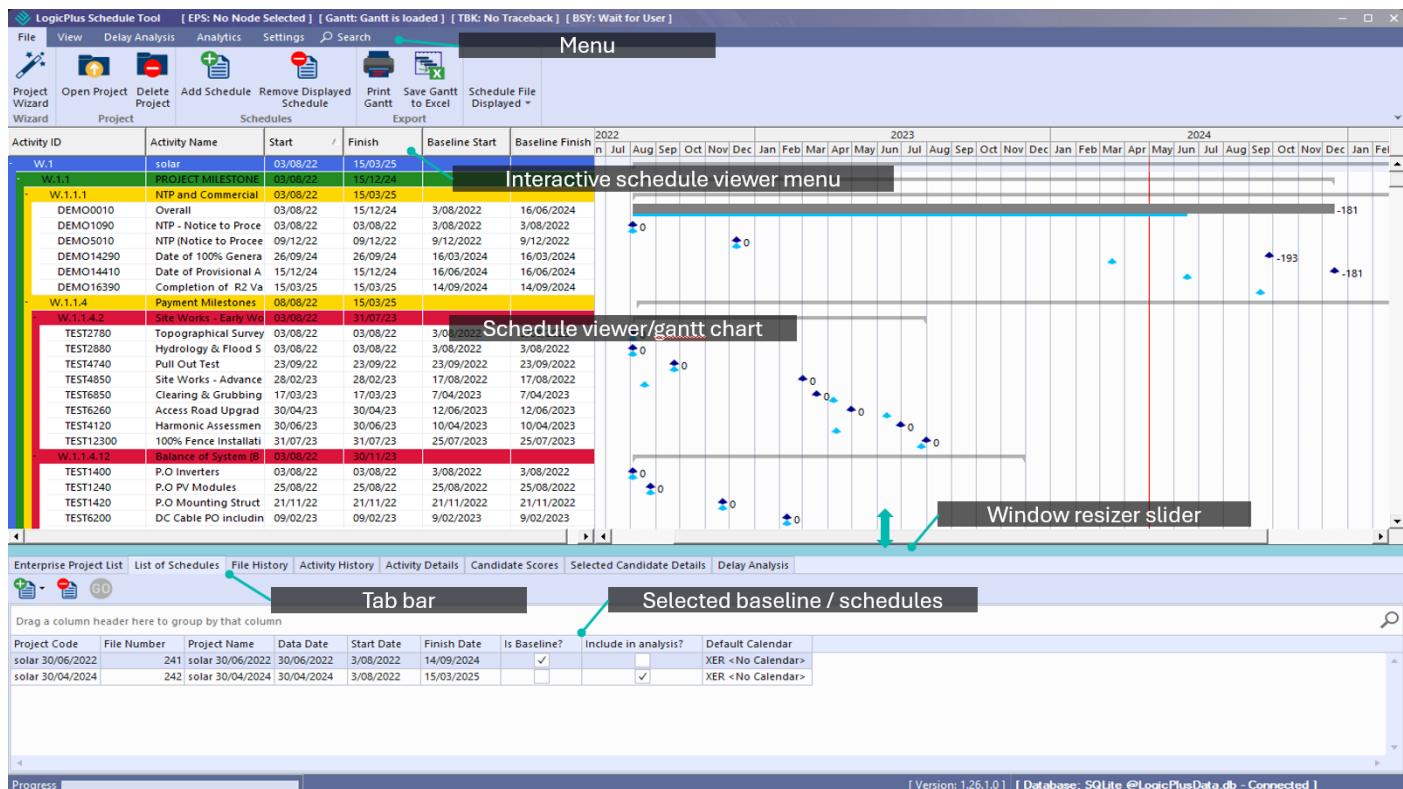
### Logic+ Modules

There are four main modules to be familiar with:

<b>Schedule Manager</b>	Create and maintain Enterprise Project Structure, projects and schedule files. Load files from Oracle Primavera P6, Asta Powerproject, and Microsoft Project
<b>Schedule Viewer</b>	Visualise and compare schedule data
<b>Analytics</b>	Report schedule trends, performance, and forecast accuracy
<b>Delay Analysis</b>	Identify and visualise delay sources and critical path impact

### Navigation terminology

The below outlines the terminology used throughout the Logic+ user documentation and guides:



The screenshot shows the Logic+ Schedule Tool interface. Key components and annotations include:

- Menu:** Located at the top, containing options like File, View, Delay Analysis, Analytics, Settings, and Search.
- Interactive schedule viewer menu:** A dropdown menu that appears when clicking on a schedule bar in the Gantt chart.
- Schedule viewer/gantt chart:** The main area displaying the project schedule as a Gantt chart, with activities listed on the left and their durations shown as bars.
- Window resizer slider:** A vertical slider used to adjust the width of the Gantt chart window.
- Tab bar:** Located at the bottom, showing different views such as Enterprise Project List, List of Schedules, File History, Activity History, Activity Details, Candidate Scores, Selected Candidate Details, and Delay Analysis.
- Selected baseline / schedules:** A table at the bottom showing details for selected baselines or schedules, including Project Code, File Number, Project Name, Data Date, Start Date, Finish Date, Is Baseline?, Include in analysis?, and Default Calendar.

Project Code	File Number	Project Name	Data Date	Start Date	Finish Date	Is Baseline?	Include in analysis?	Default Calendar
solar	30/06/2022	241	solar 30/06/2022	30/06/2022	3/08/2022	14/09/2024	<input checked="" type="checkbox"/>	XER <No Calendar>
solar	30/04/2024	242	solar 30/04/2024	30/04/2024	3/08/2022	15/03/2025	<input checked="" type="checkbox"/>	XER <No Calendar>

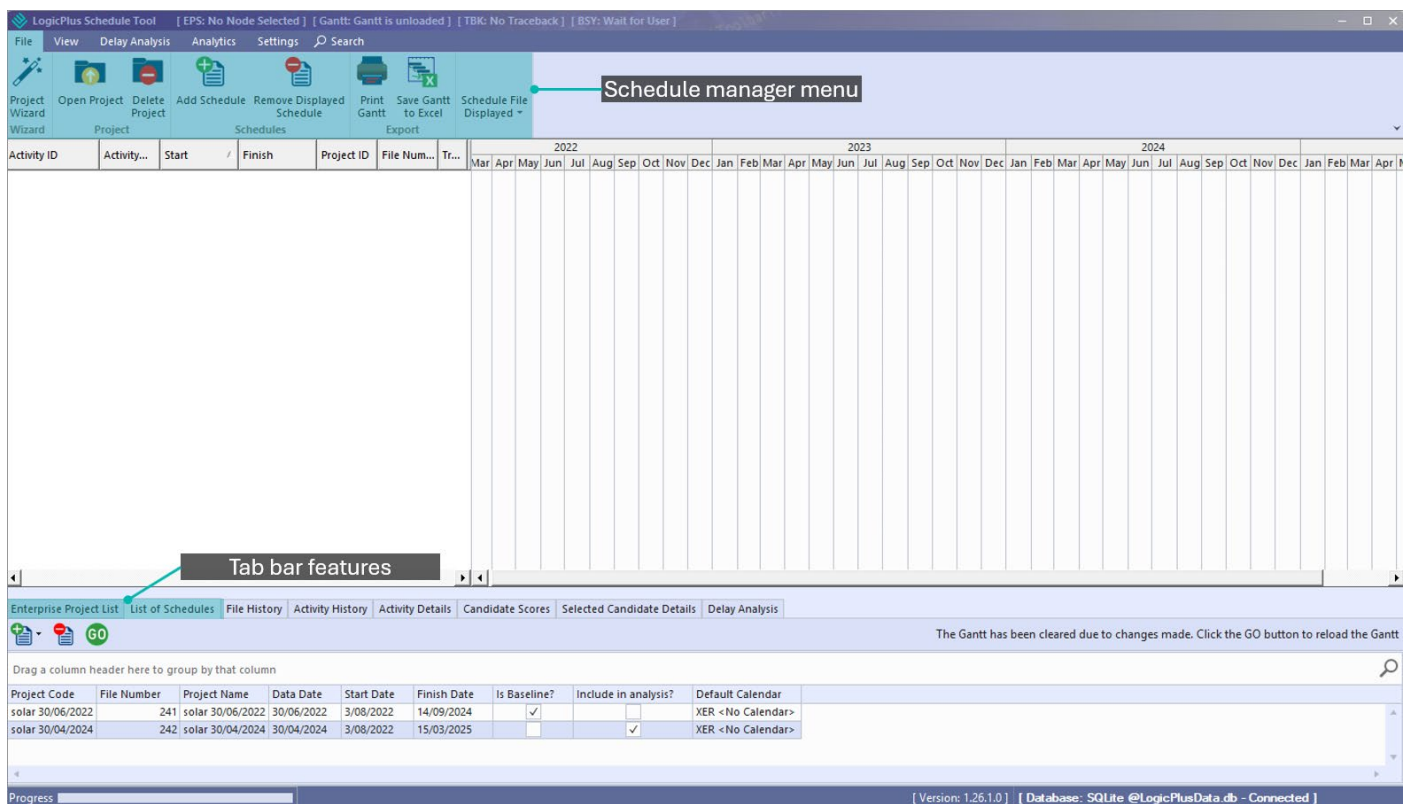
## Module 1: Schedule Manager

### Purpose

The Schedule Manager is used to define enterprise project lists and streamline the upload and management of associated schedule files. It also serves as the starting point for opening projects and selecting the baseline and other files to be loaded for analysis.

 [Documentation](#)

### Schedule Manager Feature Overview



The screenshot displays the LogicPlus Schedule Tool interface. The top menu bar includes File, View, Delay Analysis, Analytics, Settings, and Search. The 'File' menu is open, showing options like Project Wizard, Open Project, Delete Project, Add Schedule, Remove Displayed Schedule, Print Gantt, Save Gantt to Excel, and Schedule File Displayed. A callout points to the 'Schedule manager menu' in the File menu. Below the menu bar is a large Gantt chart area with columns for months from March 2022 to April 2024. At the bottom, a 'Tab bar features' callout points to the 'Enterprise Project List' tab. Below the tabs is a table with columns: Project Code, File Number, Project Name, Data Date, Start Date, Finish Date, Is Baseline?, Include in analysis?, and Default Calendar. The table contains two rows of data. At the very bottom, there is a progress bar and a status bar showing the version (1.26.1.0) and database connection status.

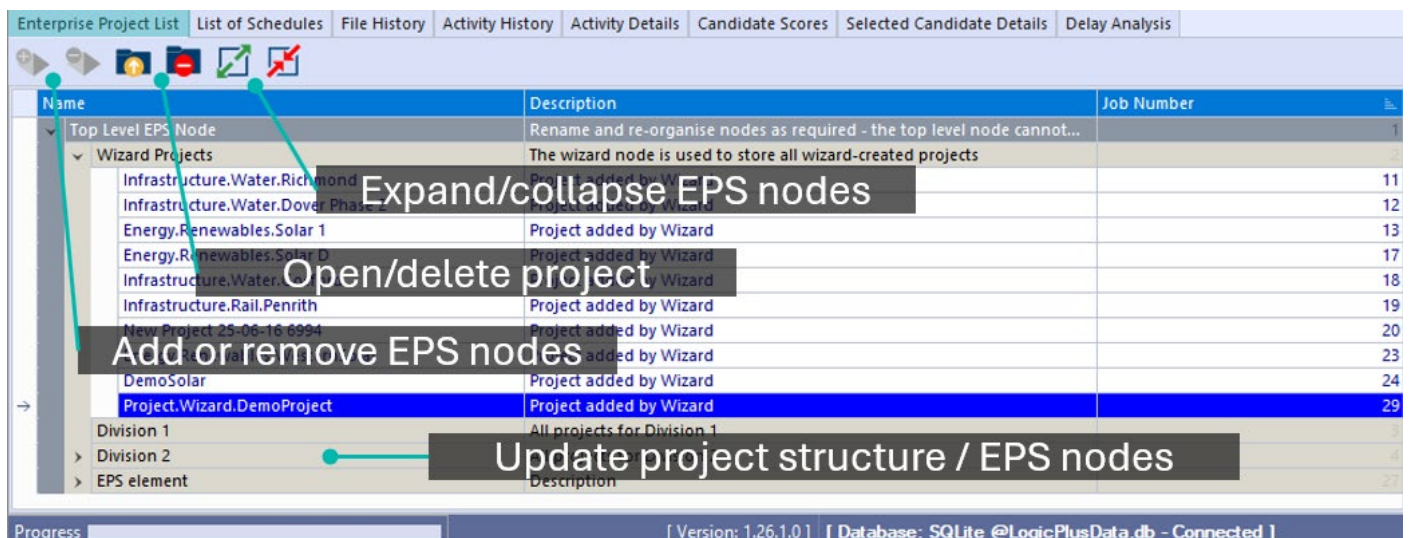
### Key Features & Navigation

Feature	Navigation	Description
<b>Create Project</b>	File > Project Wizard <b>or</b> Enterprise Project List (right click in EPS Node)	A project is a repository of schedule files in Logic+. The Project Wizard is an easy guided way to create a project, upload schedules, and nominate a baseline ( <i>see steps below on how to use Project Wizard</i> ).
<b>Open/Delete Project</b>	File menu <b>or</b> Enterprise Project List (tab bar)	Access or remove existing projects
<b>Add/Remove Schedule</b>	File menu <b>or</b> List of Schedules (tab bar)	Manage schedule files within a project
<b>Select files for analysis</b>	List of Schedules (tab bar)	Nominate baseline and analysis files

Feature	Navigation	Description
Load files for analysis	List of Schedules (tab bar)	GO button loads the selected files in Schedule Viewer, Analytics and Delay Analysis
Print/Export Gantt	File menu	Print or save the Schedule View to Excel
Schedule File Displayed	File menu	Change the schedule file displayed in the Schedule Viewer/Gantt view

### Enterprise Project List (bottom tab bar)

- Structure projects using an EPS-style hierarchy (e.g., Infrastructure.Water.Richmond)
- Add/remove EPS nodes and manage projects within each node
- Open projects for viewing and analysis



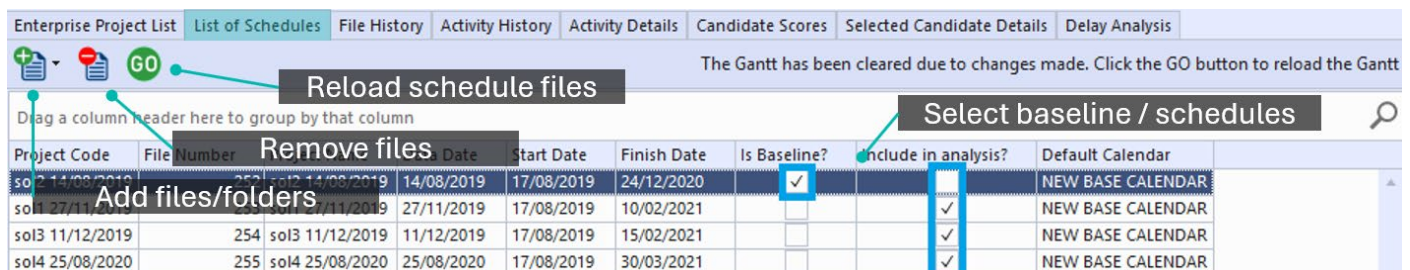
The screenshot shows the 'Enterprise Project List' tab. The interface includes a tree view on the left for 'Name' and a table on the right for 'Description' and 'Job Number'. Annotations with arrows point to specific features:

- Expand/collapse EPS nodes:** Points to the tree view structure.
- Open/delete project:** Points to the 'Project added by Wizard' entries in the table.
- Add or remove EPS nodes:** Points to the 'New Project' entry in the table.
- Update project structure / EPS nodes:** Points to the 'Division 1' entry in the table.

At the bottom, a status bar shows 'Progress' and '[ Version: 1.26.1.0 ] [ Database: SQLite @LogicPlusData.db - Connected ]'.

### List of Schedules (bottom tab bar)

- Add/remove schedule files or folders (supports XER, MPP, and mixed formats)
- Nominate baseline and analysis files
- Click **GO** to load selected files for use in Schedule Viewer, Analytics and Delay Analysis









The screenshot shows the 'List of Schedules' tab. The interface includes a table with columns: Project Code, File Number, Date, Start Date, Finish Date, Is Baseline?, Include in analysis?, and Default Calendar. Annotations with arrows point to specific features:

- Reload schedule files:** Points to the 'GO' button.
- Add files/folders:** Points to the 'File Number' column header.
- Remove files:** Points to the 'Date' column header.
- Select baseline / schedules:** Points to the 'Is Baseline?' and 'Include in analysis?' checkboxes.

A message at the top right states: 'The Gantt has been cleared due to changes made. Click the GO button to reload the Gantt'.

Project Wizard

The Project Wizard offers a quick, guided process for creating projects by stepping through the upload of project schedules and selection of a baseline file.

<div> Select <b>Project Wizard</b> from the File menu</div> <div> Click <b>Next</b></div>	<div><div><div>Project Set Up Wizard</div><div><div></div><div>Project set up wizard</div><div></div></div><div><div>Welcome to Logic+</div><div>This wizard guides you through the process of loading schedule files into a Logic+ project</div></div><div><div><input checked="" type="checkbox"/> Show this when starting</div><div>&lt; Back</div><div>Next &gt;</div><div>Cancel</div></div></div></div>
<div> Enter <b>Project Name</b></div> <div> Click <b>Next</b></div>	<div><div><div>Logic+ Wizard</div><div><div><b>Name for New Project</b></div><div>All Logic+ work is organised into projects. Each project can contain many schedule files, of which one should be the baseline and others may be loaded for reference only.</div></div><div><div>Give your project a new name</div><div>Enter a name for the project</div></div></div><div><div><input checked="" type="checkbox"/> Show this when starting</div><div>&lt; Back</div><div>Next &gt;</div><div>Cancel</div></div></div>

- ☞ Select **Add Files** to select schedule files and folders
- ☞ Select Baseline to nominate the Baseline file.
- ☞ Select Next

**Project Set Up Wizard**

**Select schedule files**  
Select XER, MPP or PP Project Files to include in the project. It is also recommended to upload and select a baseline file, you can change this selection and add or remove files at any point


Baseline	File Name	File Path	Size
<input checked="" type="radio"/>	Solar1(baseline).xer	C:\Users\gabos\OneDrive - LWare\gboshell\project files\Schedule Files\Solar projec...	1.3 MB
<input type="radio"/>	Solar2.xer	C:\Users\gabos\OneDrive - LWare\gboshell\project files\Schedule Files\Solar projec...	1.3 MB
<input type="radio"/>	Solar3.xer	C:\Users\gabos\OneDrive - LWare\gboshell\project files\Schedule Files\Solar projec...	1.3 MB
<input type="radio"/>	Solar4.xer	C:\Users\gabos\OneDrive - LWare\gboshell\project files\Schedule Files\Solar projec...	1.3 MB

☒ Show this when starting


- ☞ Select **Finish**
- ☞ Start viewing and analysing your schedule files.


**Project Set Up Wizard**

**Project Setup Complete**



Project set up wizard





☒ Show this when starting



## Module 2: Schedule Viewer

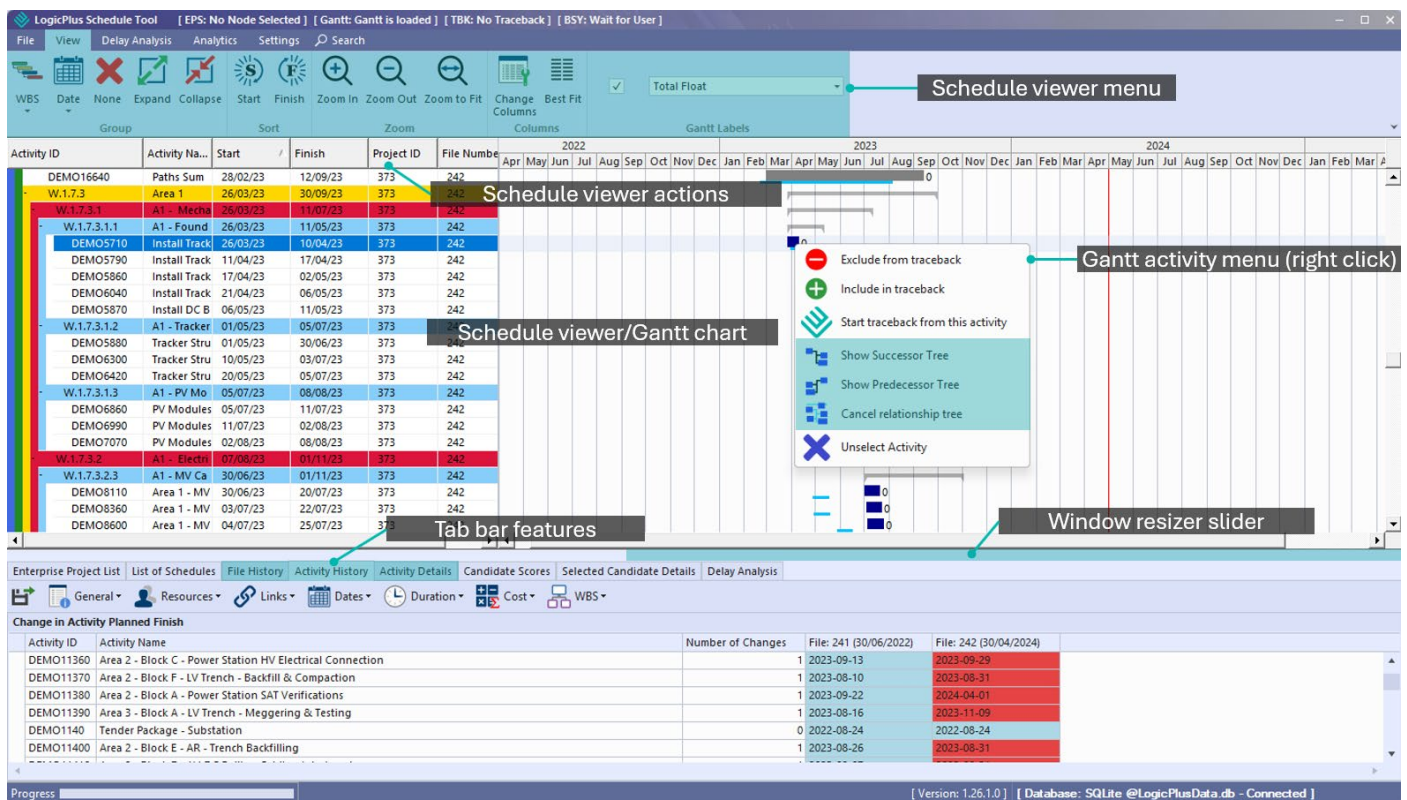
### Purpose

Use the Schedule Viewer to display, compare, and analyse schedule files across formats (XER, MPP, mixed).

Activities are shown in both tabular and Gantt views, with tools to group, sort, zoom, and track changes across versions.

 [Documentation](#)

### Scheduler Viewer Feature Overview



### Schedule Viewer/Gantt View Legend

In normal schedule viewer mode (traceback has not been run), the following legend applies to activities in Gantt view:

- Blue bars: Activities from the selected schedule
- Green bars: Added activities post-baseline
- Light blue line: Baseline schedule reference
- Dark grey bars: Excluded activities

 To change the displayed schedule file: File menu > Schedule File Displayed

## Key Features & Navigation

Feature	Navigation	Description
<b>Schedule View / Gantt View</b>	Centre of application	Visualize activities by WBS, ID, name, and start/finish dates by month/year
<b>Schedule Viewer Actions</b>	View menu <b>or</b> Schedule view actions bar	Customize display: group, sort, zoom, filter, and label activities  This includes the window resizer between the schedule viewer and the bottom tab bar. Click and slide up or down.
<b>File History</b>	File History (tab bar)	Track attribute changes across all loaded schedules
<b>Activity History</b>	Activity History (tab bar)	View how specific activity attributes evolve over time
<b>Activity Details</b>	Activity Details (tab bar)	Inspect dates, predecessors, and resourcing for selected activities
<b>Show/Cancel Successor or Predecessor Tree</b>	Right-click Gantt activity	Visualize task dependencies

## Schedule Viewer Actions

→ Navigation: View menu **or**  
Schedule view actions bar

Action	Description
<b>WBS Grouping</b>	Select levels 1–9; lower levels nested within selected level
<b>Date Grouping</b>	Adjust granularity of activity grouping
<b>None</b>	Remove WBS grouping
<b>Sort Order</b>	Order activities by planned start or finish dates
<b>Column Chooser</b>	Add or remove fields displayed in the schedule viewer. 💡 You can also click on the field header and drag out of view to remove.
<b>Zoom</b>	Zoom from yearly quarters to daily views
<b>Best fit</b>	Resize columns on the schedule viewer
<b>Gantt Labels</b>	Choose label display: Activity ID or Description

## Module 3: Analytics

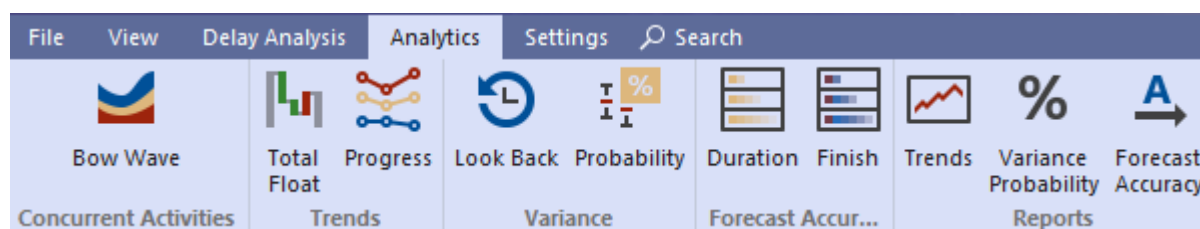
### Purpose

Access a suite of reports to analyse schedule performance, forecast accuracy, and project trends across multiple schedule files.

- Before running reports, confirm selected schedules in the List of [List of Schedules](#) tab.
- Additional analytics related to delay are available in the [Delay Analysis](#) module.
- When an analytics report is run, all schedule files that are currently open will be included in the analytics.

 [Documentation](#)

### Analytics Menu



### Analytics Summary

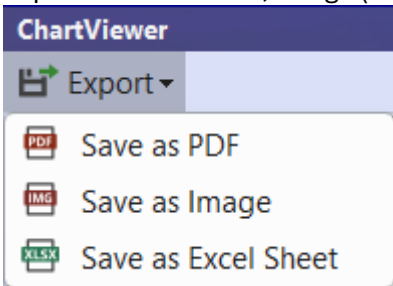

 Navigation: Analytics menu

Report	Description
<b>Concurrent Task Bow Wave</b>	Visualizes monthly activity completions across schedules; highlights peak periods and resource pressure <ul style="list-style-type: none"> <li>Shows total activities planned per month across schedules</li> <li>Highlights peak workload periods and evolving concurrency</li> <li>Reveals resource strain and delay risks</li> <li>Toggle visibility of schedule files using checkboxes</li> </ul>
<b>Delay Trends</b>	Tracks project delay over time; compares baseline vs actual finish dates and forecasts cumulative impact <ul style="list-style-type: none"> <li>Displays finish variance (actual vs baseline) per schedule</li> <li>Forecasts cumulative delay impact</li> <li>Horizontal lines show baseline and latest finish dates</li> </ul>
<b>Float Trends</b>	Reports average float per activity over time; forecasts float erosion and risk of negative float <ul style="list-style-type: none"> <li>Tracks average float per activity across schedules</li> <li>Forecasts float erosion toward project finish</li> <li>Zero-crossing indicates risk of missing target finish</li> </ul>
<b>Duration Forecast Accuracy</b>	Compares planned vs actual durations, groups by duration range and variance <ul style="list-style-type: none"> <li>Groups activities by planned duration (0–9, 10–19, etc.)</li> <li>Shows variance between planned and actual durations</li> </ul>



	<ul style="list-style-type: none"> <li>• Uses logarithmic scale to visualize distribution</li> </ul>
<b>Finish Forecast Accuracy</b>	<p>Evaluates accuracy of planned finish dates; shows probability of delay by forecast window</p> <ul style="list-style-type: none"> <li>• Groups activities by forecast window (0–30, 31–60, etc.)</li> <li>• Displays variance between planned and actual finish dates</li> <li>• Shows percentage of activities delayed within each window</li> </ul>
<b>Trend Report</b>	Combines key trend reports into a single overview (Float, Progress, Bow Wave, Delay)
<b>Forecast Accuracy Report</b>	Combines Duration and Finish Forecast Accuracy into a single view

## Analytics Features


Feature	Description
<b>Chart Export Options</b>	<p>Export charts as PDF, Image (PNG/JPG), or Excel (data only)</p> 
<b>Schedule File Options</b>	<p>Use checkboxes to hide/unhide schedule files in chart viewer</p> <p>Schedule Data Dates</p> <p><input checked="" type="checkbox"/> 14/08/2019  <input type="checkbox"/> 27/11/2019  <input type="checkbox"/> 11/12/2019  <input checked="" type="checkbox"/> 25/08/2020</p>
<b>Chart Tooltips</b>	<p>Hover over chart elements to view detailed data</p> 

## Module 4: Delay Analysis

### Purpose

Logic+ Delay Analysis automates the identification of the critical path in completed or as-built schedules. It helps planners and analysts attribute delays, visualize schedule impacts, and uncover the root causes of variation.

Logic+ uses the Traceback function to determine the critical path.

 To start using any of the Delay Analysis features, you first need to run a Traceback (Delay Analysis > **Start Traceback**).

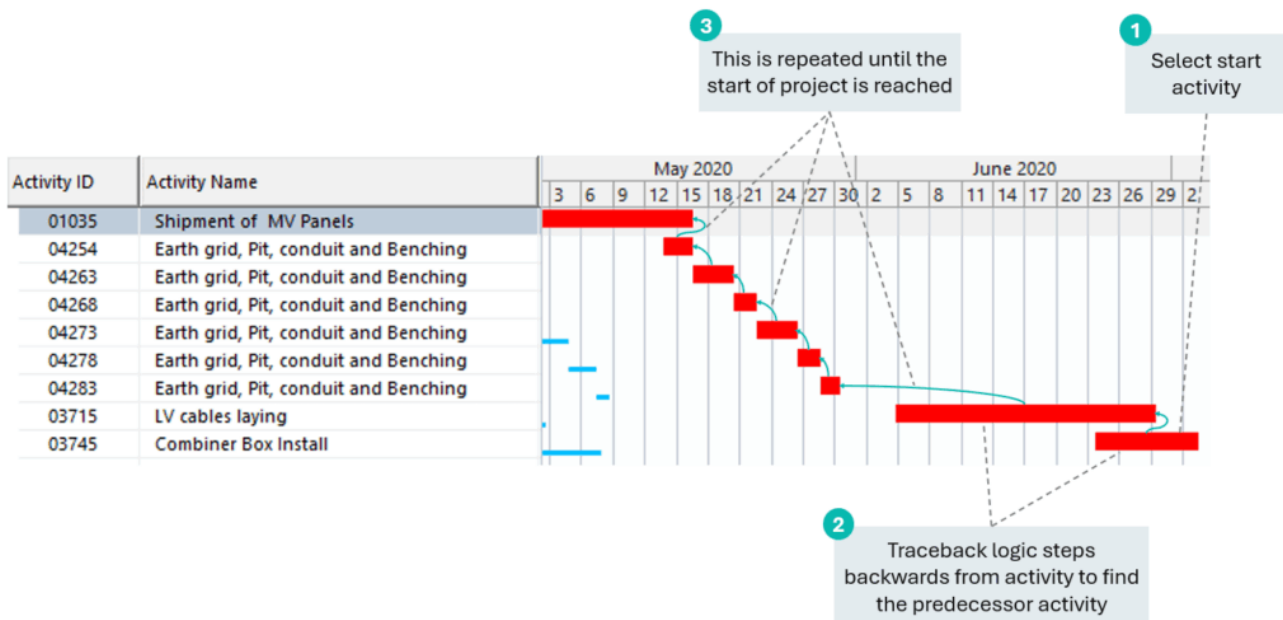
 [Documentation](#)

### How Traceback Works

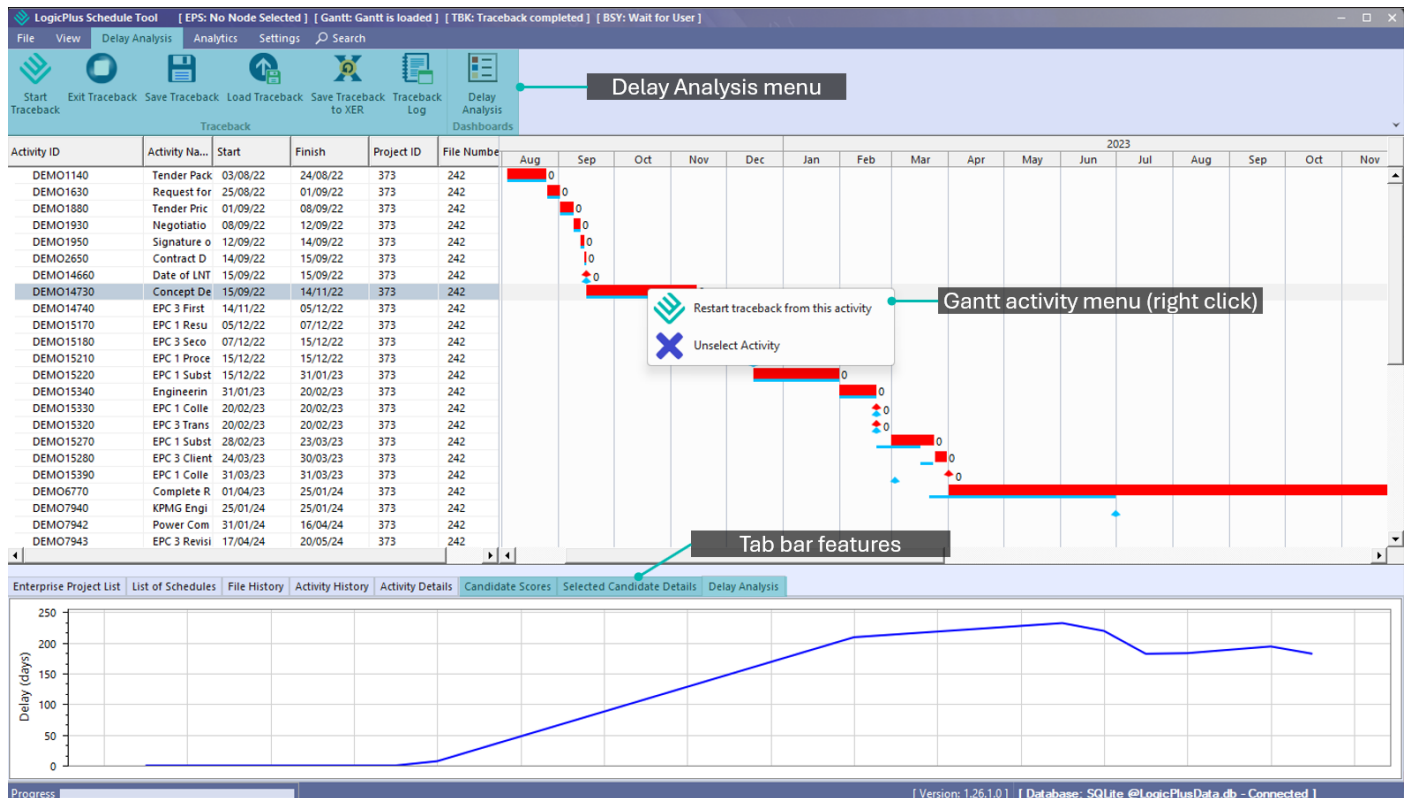
Traceback is the logic engine behind Logic+ Delay Analysis. It determines the critical path by evaluating both explicit and implied relationships between activities.

- Each activity is scored using 15 key attributes
- The analysis starts from the latest activity and works backward
- The highest-scoring predecessor is selected at each step to build the path

This approach reveals not just what changed—but why—making it easier to validate impacts and support delay claims.



## Delay Analysis Feature Overview



## Gantt Activity Menu

➔ Navigation: Right click activity in Gantt view

<ul style="list-style-type: none"> <li>Exclude from traceback</li> <li>Include in traceback</li> <li>Start traceback from this activity</li> <li>Show Successor Tree</li> <li>Show Predecessor Tree</li> <li>Cancel relationship tree</li> <li>Unselect Activity</li> </ul> <p>💡 You need to Exit Traceback to see this menu</p>	<ul style="list-style-type: none"> <li>Restart traceback from this activity</li> <li>Unselect Activity</li> </ul> <p>💡 You need to be in a Traceback to see this menu</p>
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## Key Features & Navigation

Feature	Navigation	Description
<b>Start/Exit Traceback</b>	Delay Analysis menu <b>or</b> Right-click Gantt activity	Begin or exit a traceback session to generate the critical path (see <i>steps below on how to Start Traceback</i> )
<b>Save/Load Traceback</b>	Delay Analysis menu	Save or reopen a previous traceback session
<b>Export to XER</b>	Delay Analysis menu	Export critical path to Primavera P6 format for further analysis
<b>Traceback Log</b>	Delay Analysis menu	View/export detailed audit trail of traceback logic and scoring.
<b>Start Traceback from this activity</b>	Right-click Gantt activity	Begin analysis from a specific task
<b>Exclude/Include in Traceback</b>	Right-click Gantt activity	Toggle activity inclusion (excluded = dark grey)
<b>Show/Cancel Successor or Predecessor Tree</b>	Right-click Gantt activity	Visualize task dependencies
<b>Unselect Activity</b>	Right-click Gantt activity	Clear current selection to analyse a different activity  💡 Use “Unselect Activity” when working with large files to reset the active selection.
<b>Candidate Scores</b>	Candidate Scores (tab bar)	View scoring logic for selected and alternate critical path candidates
<b>Selected Candidate Details</b>	Selected Candidate Details (tab bar)	Inspect attribute-level details of selected candidate predecessor
<b>Delay Analysis Chart</b>	Delay Analysis (tab bar)	Interactive timeline vs cumulative delay impact
<b>Delay Analysis Dashboard</b>	Delay Analysis > Delay Analysis	Visual dashboard showing delay attributes and schedule impact
<b>Traceback Settings</b>	Settings menu > Settings > Traceback	Configure scoring weights, exclusion criteria, and export preferences

## Start Traceback

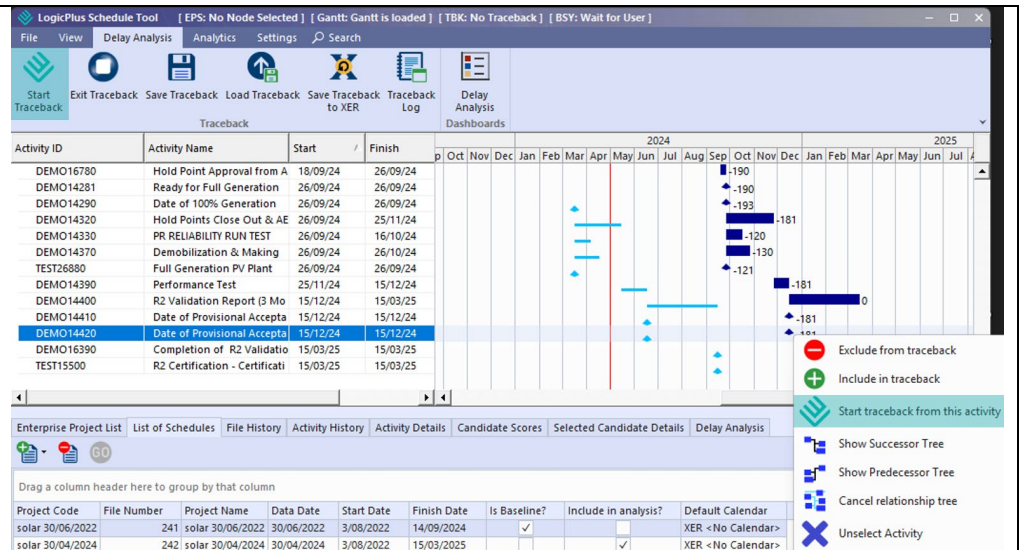
You run a traceback to generate the critical path for the baseline and schedule files selected.

💡 A traceback works in reverse chronological order. Therefore, to start a traceback, select the activity with the **latest** date.

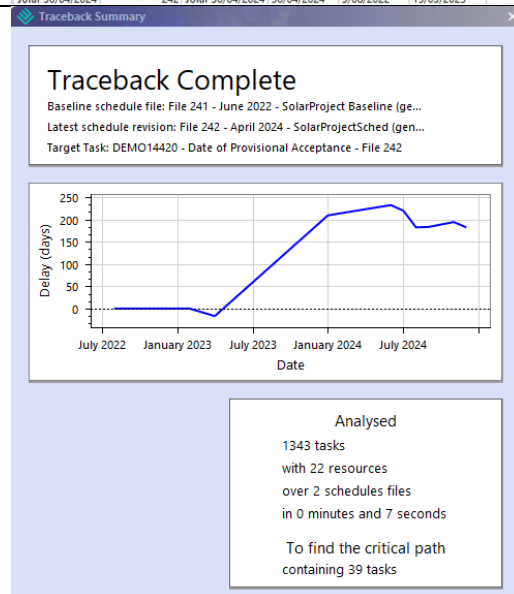
Before you start:

- 💡 Check the selected schedules before you start on the [List of Schedules](#) tab.
- 💡 Remove WBS grouping and sort by finish date to quickly locate the final activity.

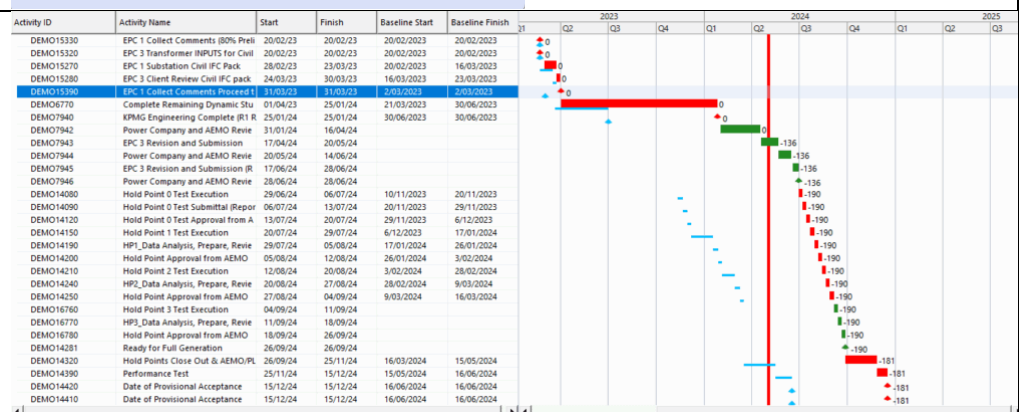
- Highlight the **latest** activity in the Schedule Viewer
- Select **Start Traceback** or
- Start traceback from this activity



- View the **Traceback Summary**
- Click the 'x' to close the window



- View the critical path determined by the traceback



## Schedule Viewer/Gantt View Legend

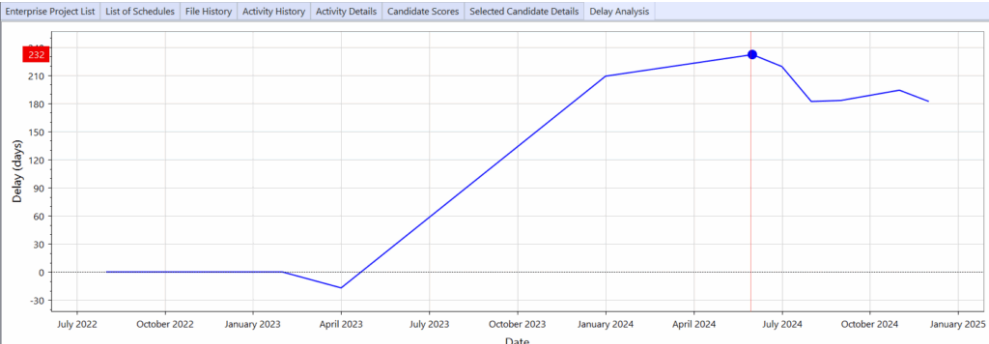
After running a traceback, the following legend applies to activities in Gantt view:

- Red bars: Critical path activities from baseline
- Green bars: Critical path activities added post-baseline
- Light blue line: Baseline schedule reference
- Dark grey bars: Excluded activities



## Delay Analytics Summary

Use the Delay Chart or Delay Analysis Dashboard to analyse changes.

Report	Description
Delay Analysis Chart	<p>➔ Navigation: Bottom tab panel &gt; Delay Analysis</p> <p>Displays an interactive timeline (x-axis) against cumulative delay (y-axis) to help visualize project delay.</p> <ul style="list-style-type: none"> <li>• Mouse-over reveals delay in days at each point in time</li> <li>• Used alongside the Delay Analysis Dashboard to understand root causes</li> </ul> 
Delay Analysis Dashboard	<p>➔ Navigation: Delay Analysis &gt; Delay Analysis</p> <p>Interactive dashboard for investigating critical path delays and their cumulative impact on project schedules.</p> <ul style="list-style-type: none"> <li>• Displays activity-level delay details after running a Traceback</li> <li>• Highlights how individual delays contribute to overall schedule impact</li> <li>• Enables tracking of timing changes over time and across schedules</li> <li>• Supports substantiating delay claims with clear, data-driven insights</li> <li>• Works in tandem with the Delay Analysis Chart for full context</li> </ul> <p><b>Sort Options</b></p> <p>Quickly toggle between views to prioritize analysis:</p> <ul style="list-style-type: none"> <li>• <b>Traceback Order</b> – chronological sequence of delay events</li> <li>• <b>Delay Event Impact</b> – sorts by delay magnitude (positive to negative)</li> </ul> <p><b>Delay Days Visualization</b></p> <p>Calculates total delay by summing changes in duration, gaps, and new sequences:</p> <ul style="list-style-type: none"> <li>• <b>Color-coded bars</b> indicate severity: <ul style="list-style-type: none"> <li>○ Major delay (<math>\geq 30</math> days)</li> <li>○ Moderate delay (<math>&gt; 10</math> days)</li> <li>○ No delay (0 days)</li> <li>○ Acceleration (negative delay)</li> </ul> </li> <li>• <b>Bar length</b> reflects delay magnitude (approximate scale)</li> </ul> <p><b>Delay Categories</b></p> <p>Categorizes root causes of delay with expandable activity insights:</p> <ul style="list-style-type: none"> <li>• <b>Change in Relationship</b> – flags altered dependencies (e.g., FS added)</li> <li>• <b>Extended Duration</b> – highlights longer-than-baseline activity durations</li> </ul>

Report	Description																																																																														
	<div><ul style="list-style-type: none"><li>• <b>Increased Gap</b> – shows widened gaps between predecessor and successor</li><li>• <b>New Activity/Sequence</b> – identifies added tasks and calculates their impact</li></ul></div> <div><div><div>Project Schedule Delay Analysis</div><div><div>Sort by Traceback</div><div>Sort by Delay Event</div><div><div>Change in Relationship</div><div>Extended Duration</div><div>Increased Gap</div><div>New Activity/Sequence</div></div></div><table><tr><td>DEMO6770</td><td>Complete Remaining Dynamic Studies</td><td>Actual</td><td></td><td>+226 days</td><td></td></tr><tr><td></td><td></td><td>Baseline</td><td></td><td></td><td></td></tr><tr><td>DEMO7942 – DEMO7946</td><td>New Sequence</td><td>New Activities</td><td></td><td>+23 days</td><td></td></tr><tr><td>DEMO16760 – DEMO14281</td><td>New Sequence</td><td>New Activities</td><td></td><td>+22 days</td><td></td></tr><tr><td>DEMO14250</td><td>Hold Point Approval from AEMO &amp; NSP</td><td>Planned</td><td></td><td>+1 days</td><td></td></tr><tr><td>DEMO1440</td><td>Signature of PO/Subc. Agreement</td><td>Actual</td><td></td><td>0 days</td><td></td></tr><tr><td></td><td></td><td>Baseline</td><td></td><td></td><td></td></tr><tr><td>DEMO1530</td><td>Contract Down Payment</td><td>Actual</td><td></td><td>0 days</td><td></td></tr><tr><td></td><td></td><td>Baseline</td><td></td><td></td><td></td></tr><tr><td>DEMO1560</td><td>Manufacturing Order - Power Conversio</td><td>Actual</td><td></td><td>0 days</td><td></td></tr><tr><td></td><td></td><td>Baseline</td><td></td><td></td><td></td></tr><tr><td>DEMO1590</td><td>Power Conversion Station - Site Wide -</td><td>Actual</td><td></td><td>0 days</td><td></td></tr><tr><td></td><td></td><td>Baseline</td><td></td><td></td><td></td></tr></table></div></div>	DEMO6770	Complete Remaining Dynamic Studies	Actual		+226 days				Baseline				DEMO7942 – DEMO7946	New Sequence	New Activities		+23 days		DEMO16760 – DEMO14281	New Sequence	New Activities		+22 days		DEMO14250	Hold Point Approval from AEMO & NSP	Planned		+1 days		DEMO1440	Signature of PO/Subc. Agreement	Actual		0 days				Baseline				DEMO1530	Contract Down Payment	Actual		0 days				Baseline				DEMO1560	Manufacturing Order - Power Conversio	Actual		0 days				Baseline				DEMO1590	Power Conversion Station - Site Wide -	Actual		0 days				Baseline			
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## Settings

### Delay Analysis Settings

#### Purpose

Configure how Logic+ determines the critical path during a Traceback. These settings allow users to fine-tune exclusion criteria, scoring logic, and export preferences - ensuring the analysis reflects project-specific priorities and delay scenarios.

 [Documentation](#)

 Navigation: Settings > Traceback

Feature	Description
<b>Activity Exclusion Criteria</b>	Define which activities should be excluded from Traceback logic
<b>Candidate Score Presets</b>	Save and reuse scoring presets for different delay analysis scenarios
<b>Candidate Score Weights</b>	Adjust attribute weightings used to calculate candidate scores (must total 100%)
<b>Exporting Tracebacks</b>	Configure export format and labelling for XER files

- 💡 Traceback Settings can only be modified when no active Traceback is running.
- 💡 After making changes, click Apply and confirm the “Changes Applied” message to activate settings.