Deltek

Deltek Acumen 8.8

Release Notes

October 7, 2022

Contents

Overview

Welcome to the Deltek Acumen Release Notes. These release notes contain a summary of the following:

- Pre-Installation Information
- New Features and Enhancements
- Software Issues Resolved

Installing Acumen

When you install Acumen, you must run the installer in Administration mode.

Upgrade from Earlier Versions of Acumen

When upgrading from an earlier version of Acumen, Deltek recommends that you install the new version of Acumen into a new folder rather than attempting to overwrite/upgrade an existing Acumen installation. Acumen supports concurrent installations with previous versions of Acumen, provided that:

- The two versions are installed to different folders.
- Only one version can be run at a time.

Upgrading the Database

If you currently use Acumen to publish metric results and definitions to a database, you will need to run upgrade scripts on the database when you upgrade to Acumen 8.8.

> **Note:** For more information about using a database, see *Publish Metric Results and Definitions to a Database* in the Acumen Installation guide.

DECM and DOD Metrics

DECM Metrics

As of this release date, the current DECM metrics version is 5.0. If you are working with existing workbooks with older metrics and want to update to the latest metric version, you can merge the latest metrics into your workbook by clicking **Open** on the Metrics tab Import menu. Note that merging in the latest metrics will not delete the metrics that the DCMA has deleted.

To make the DECM metrics your default metrics for new workbooks, configure Acumen to point to the latest DECM metric template on the Deltek Acumen Options dialog box General page. The latest metric template is **dcma_decm_metrics_88_DECM_V5.0.aft**.

For detailed information about each DECM metric, see the **DeltekDECMMetricsJan2022.xlsx** spreadsheet in the Acumen Documentation folder.

Department of Energy (DOE) EVMS Metrics

Acumen includes the schedule metrics that are part of the U.S. Department of Energy Office of Project Management metrics used to evaluate project Integrated Master Schedules (IMSs).

There are two sets of the metrics included, one is an update to the existing EVMS metrics, the other is organized for doing independent reviews and has the IRSA designation in the names.

You can review the metric descriptions and setup instructions for the EVMS and IRSA metrics in the C:\Program Files (x86)\Deltek\Acumen 8.8\Templates folder. In addition, there is a sample workbook (**DOE_EVMS_metrics_87_EVMS_IRSA_V8.0_workbooktemplate.afw**) that includes the metrics, and the metric template in the same folder.

In addition, the Acumen default metrics now include the DOE metrics under the Industry Standards folder. The DOE EVMS and IRSA metrics are included when you create a new workbook although there is no ribbon created for them by default.

To make the DOE metrics your default metrics for the new workbooks, configure Acumen to point to the latest DOE metric template on the Deltek Acumen Options dialog box General page. The latest metric template is **DOE_EVMS_metrics_87_EVMS_IRSA_V8.0_metrictemplate.aft**.

You can find all of these files along with their instructions in the C:\Program Files (x86)\Deltek\Acumen 8.8\Templates folder.

- DOE_EVMS_metrics_87_EVMS_V8.0_instructions.pdf
- DOE_EVMS_metrics_87_IRSA_V8.0_instructions.pdf

These files are supplied by the DOE. If you have questions or comments on them, please communicate with your DOE contact person.

Custom Programming

If you have custom programs or reports that use the Acumen API, review the following before you upgrade:

- Review all existing custom work at least eight weeks prior to your intended go-live date.
- Compare your custom work to the new functionality being provided in this release.
- Pay particular attention to any Acumen API changes that may impact your custom work.
- If this new version possesses the functionality contained in your custom work, these custom programs may no longer be needed. If the functionality contained in your custom work is not provided in this release, you must ensure the custom work remains intact through the upgrade process.
- Deltek strongly recommends that when upgrading, you first deploy an instance of Acumen in your test environment. This allows for functional UAT (User Acceptance Testing) to ensure that all mission critical custom features are still available to the user community. Typical deployments call for a 30 – 45 day test period before upgrading into your production environment.

> **Note:** The Deltek Technical Services team is available to support you as you plan for this upgrade. We offer both technical and custom services, ensuring the best possible Deltek experience. Contact DGSCONSULTANTS-PES@Deltek.com.

Pre-Installation Information

This section lists the supported and compatible deployment technology.

> **Attention:** For a complete list of the recommended minimum software requirements, see the Deltek Product Support Compatibility Matrix document that you can download from the Deltek Customer Care Connect site.

64-bit Application

Acumen is a 64-bit application.

Supported Deployment Technology

> **Note:** Supported versions are the currently actively tested versions of technologies used to deploy Acumen. Except for the Deltek Integrated Products, these technologies are not directly supported by Deltek. Changes to these technologies occur at the discretion of the individual technology vendors.

Category	Supported Deployment Technology
Operating Systems	**Windows Server** • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 **Windows** • Windows 10 • Windows 11 **Citrix** • XenApp 7.* (Win Svr 2016) • Citrix Virtual Apps and Desktop 7.* (Win Svr 2019) **Mac** • Mac OS X (Requires Parallels or VMware) For more information, see Installing Acumen on a Mac Operating System. **VMWare Horizon** • VMWare Horizon 7 • VMWare Horizon 8
Database Platform	**Microsoft SQL Server** • SQL Server 2016

Category	Supported Deployment Technology
	▪ SQL Server 2017 (also supported on Linux and Unix) ▪ SQL Server 2019 (also supported on Linux and Unix) **Oracle** ▪ Oracle 12.2 ▪ Oracle 18.3 ▪ Oracle 19.3 Oracle is supported on Linux, Unix, and Exadata For information about using a database, see <u>Publish Metric Results and Definitions to a Database</u>.
Database Driver	Acumen supports Oracle and SQL Server databases through an OLEDB 2.1 compliant provider. The data source providers to use for each database type are listed below. ▪ Oracle Provider for OLE DB ▪ MS SQL Server 2012 Native Client, version 11.4.7001.0 or higher ▪ MS OLE DB Driver for SQL Server, version 18.2.2.0 or higher

Scheduling Tools	Acumen integrates with multiple project management platforms. Each Acumen workbook can contain projects from any of the following platforms:
	Microsoft Project
	Acumen links to MS Project files through your installed copy of MS Project or by directly reading an MS Project file (without needing MSP installed on your PC).
	▪ **Microsoft Project Standard**
	    ▪ Microsoft Project Standard 2013
	    ▪ Microsoft Project Standard 2016
	    ▪ Microsoft Project Standard 2019
	    ▪ Microsoft Project Standard 2021
	▪ **Microsoft Project Professional**
	    ▪ Microsoft Project Professional 2013
	    ▪ Microsoft Project Professional 2016
	    ▪ Microsoft Project Professional 2019
	    ▪ Microsoft Project Professional 2021
	▪ **Microsoft Project Online** (Office 365) – Local Deployment Only
	▪ **Microsoft Project Server**
	    ▪ Microsoft Project Server 2013 SP1

Category	Supported Deployment Technology
	▪ Microsoft Project Server 2016
	▪ Microsoft Project Server 2019
	Microsoft Project Server: Because MSP Server runs on SharePoint, it uses the same authentication scheme that is configured on the SharePoint server. Acumen allows http or https secure connections to MSP Server. Acumen does not support Two Factor Authentication (2FA). If the server is configured for 2FA, you can create an App password for Acumen.
	Oracle
	▪ **Risk Analysis**
	▪ Risk Analysis 8.x
	▪ **Primavera P6 (XER, Web, and XML)**
	▪ Primavera P6 8.4
	▪ Primavera P6 17.12
	▪ Primavera P6 18.8
	▪ Primavera P6 19.12
	▪ Primavera P6 20.12
	▪ Primavera P6 21.12
	Acumen supports Oracle-hosted P6 web as part of the integration with Primavera Web Services. Acumen does not support Two Factor Authentication (2FA). If the server is configured for 2FA, you can create an App password for Acumen.
	Other
	▪ IPMDAR Schedule Performance Dataset (SPD)
	▪ IPMDAR Contract Performance Dataset (CPD)
	▪ UN/CEFACT (IPMDR Format 6 v1.0)
	▪ Ares Prism G2
	▪ Phoenix 4.0-4.6, 4.8
	▪ PowerProject 16.0.1
	Note: For upgrade information, see Upgrading Powerproject.
	▪ Safran 5.0

Category	Supported Deployment Technology
Deltek Integrated Products	**Deltek Open Plan** • Deltek Open Plan 8.4 through 8.6 **Deltek Cobra** • Deltek Cobra 8.4 • Deltek Cobra 8.5 **Note:** When Cobra 8.5 is released, check Cobra 8.5 Compatibility Matrix. **Deltek wInsight** • Deltek wInsight 8.3 • Deltek wInsight 8.3.1 **Note:** You cannot publish metric results and definitions to a wInsight database. You can export to a DCDE file and use wInsight Administrator to import into a wInsight database. **Important:** You must not install Acumen tables in an existing Deltek database that has wInsight installed.
Web Browser	• Internet Explorer 11 • Microsoft Edge • Google Chrome • Firefox
.NET Framework	• Microsoft .NET Framework 4.8
Microsoft Office	**Microsoft Word** • Microsoft Word 2013 • Microsoft Word 2016 • Microsoft Word 2019 • Microsoft Word 2021 **Microsoft Excel** • Microsoft Excel 2013 • Microsoft Excel 2016 • Microsoft Excel 2019 • Microsoft Excel 2021

Compatible Deployment Technology

> **Note:** Compatible versions are the recent previously supported and tested technologies used to deploy Acumen. These are not actively being tested but are believed to be compatible with Acumen. Deltek does not recommend these technologies for new deployments but will make its best effort to answer questions concerning these technologies. These technologies may not be available for troubleshooting at Deltek.

Category	Compatible Deployment Technology
Operating System	**Windows Server** ▪ Windows Server 2012 **Windows** ▪ Windows 8.1 **Citrix** ▪ XenApp 7.* (Win Svr 2012) ▪ XenApp 7.* (Win Svr 2021 R2)
Database Platform	**Microsoft SQL Server** ▪ SQL Server 2014
Scheduling Tools	**Oracle** ▪ Primavera P6 15.2 ▪ Primavera P6 16.2 **Other** ▪ Phoenix 3.7 ▪ PowerProject 15.0.1

Open Source Software Included with Acumen

Acumen includes the following open source software:

Software	Company
JSON.NET Library 12.0.2	Newtonsoft
CsvHelper v12.1.2	Josh Close

New Features and Enhancements

Mapping Parallel Risks

Acumen now allows you to map risks to activities so that their effect is parallel to other risks on the activity. This only applies when both risks occur in the same iteration. Activities can be influenced by both serial and parallel risks.

The new option is In S3//Risk, on the Activity Details dialog, Risk Events tab. If you have mapped risks to an activity, you will see a new Parallel column.

When you select the checkbox in the Parallel column:

- If there are no other risks mapped to the activity, the risk impact is normal with no parallel effect as there are no other mapped risks to be parallel with.

- If there are other risks mapped to the activity, regardless of whether or not they are parallel:

  o If non-parallel risk impacts are greater than the parallel risk impacts, Acumen uses the non-parallel risks to compute the activity finish.

  o If all mapped risks are marked as parallel, Acumen adds the longest risk impact to any uncertainty to calculate the activity finish.

  o If there are parallel opportunities, Acumen uses the largest of the parallel opportunities plus any uncertainty to calculate the activity finish.

- ▪ Weather delays to the start of the activity will always delay the start of the activity.

> **Note:** Weather events establish non-work times so they cannot be in parallel with anything else.

For an activity, the remaining duration for an iteration is calculated as:

deterministic remaining duration + any uncertainty

+ Maximum of risks ((Max of parallel risks) or Sum(impacts of non-parallel risks))

- Largest of opportunities ((Max of parallel opportunities) or Sum(impacts of non-parallel opportunities))

Risks in Series

| Risk 1 impact: 3 days | **+** | Risk 2 impact: 5 days | **=** | Combined impact: 8 days |

Risks in Parallel

| Risk 1 impact: 3 days |
| Risk 2 impact: 5 days |

= | Impact: 5 days |
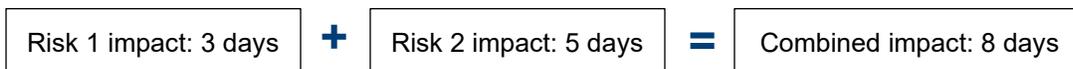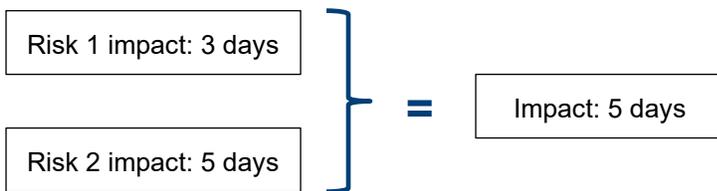
Risk Driver Chart: Select All Drivers

Previously, you could select up to 20 activities to display in the risk driver chart. You now have the option to display all of the activities that are driving the schedule by selecting **All** in the **Risk Drivers » Configuration » Bars » Show Top** menu.
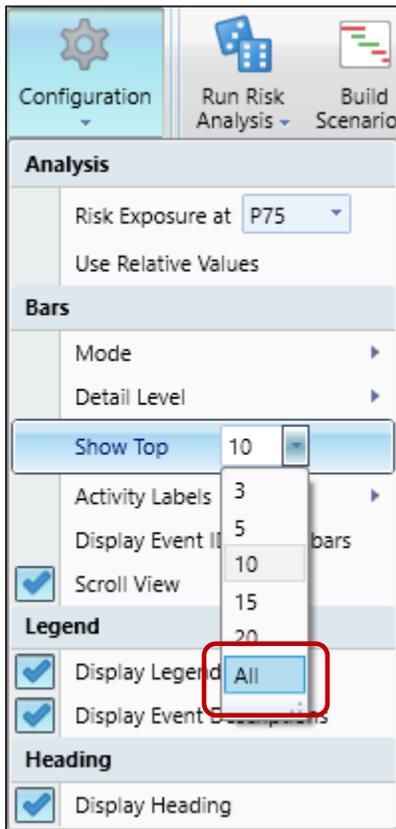
Risk Drivers Configuration Menu Enhancements

Acumen added a menu option to the Configuration menu to help you control the sort of the Risk Drivers chart. This new menu option, labeled "Sort by", is found under the "Show Top" option. The "Sort by" option has three sub menu options:

- **Top Threats:** This sorts the results with the largest Threats at the top.
- **Top Opportunities:** This sorts the results with the largest Opportunities at the top.
- **Both:** This is the default option and sorts the results with the top threats and opportunities both at the top.

By clicking one of the options, the view will sort the results and redisplay based on your selection. Only the number of results selected in the "Show Top" option will be displayed, making the top 20 with 1 sort different from the top 20 with the other sort.

Non-Workday Category for Non-Work Days/Hours on the Risk Drivers Chart

Acumen now displays a new category of impact called Non-Workdays on the Risk Drivers chart to represent the work calendar effect of where the activity moved to during risk analysis plus any increase or decrease in workdays caused by an increase or decrease of duration due to uncertainty, threats and opportunities. It is calculated by summing the non-work days during the activity after risk analysis and subtracting the total non-workdays during the activity as it was before risk analysis. In the previous release, it combined both non-work days/hours and logic, and displayed them as **Logic**.

Option to Turn Non-Workdays On or Off in Event Mode

Acumen now provides an option to turn the display of Non-Workdays on or off in the Configuration menu under S3 // Risk. This allows you to control what you see when displaying Risk Drivers in Event Mode. In addition, the existing menu option Display Logic / Uncertainty Bars now controls only those two values.
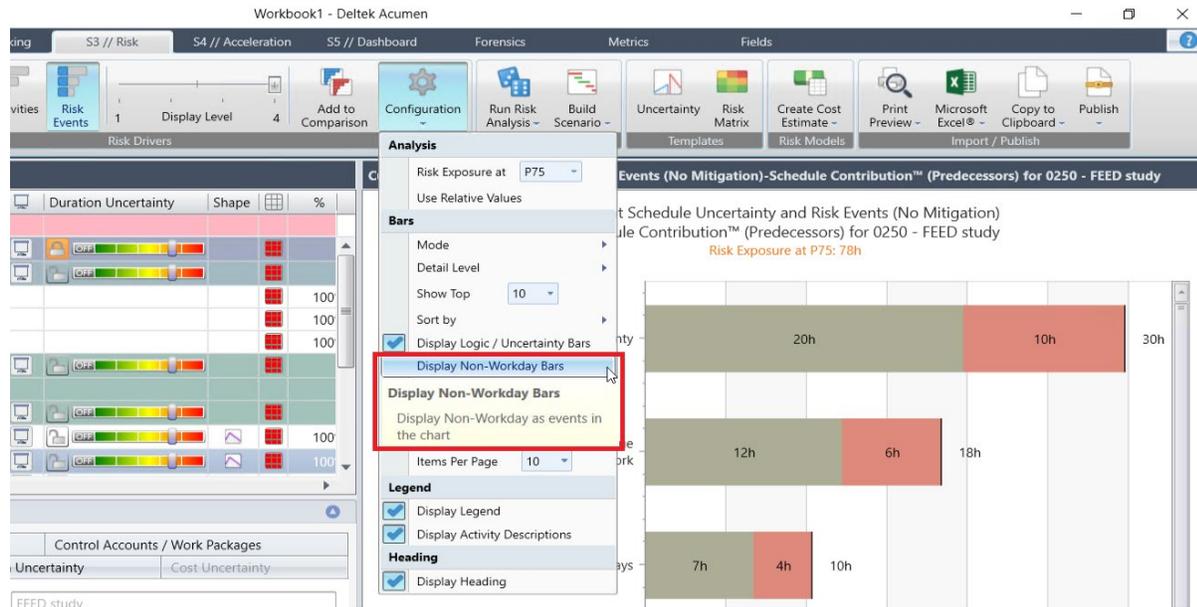
Ability to Name Data for Risk Comparison

When you click the **Add to Comparison** or **Add to Risk Comparison** button on the S3 // Risk tab, a dialog box called Add to comparison now displays to name the data you are adding to the Risk Comparison or Risk Exposure Comparison. In the previous release, Acumen would give the data a default name, which you could change once you were viewing the comparison chart. Sometimes this made it harder to remember which data was from which scenario.
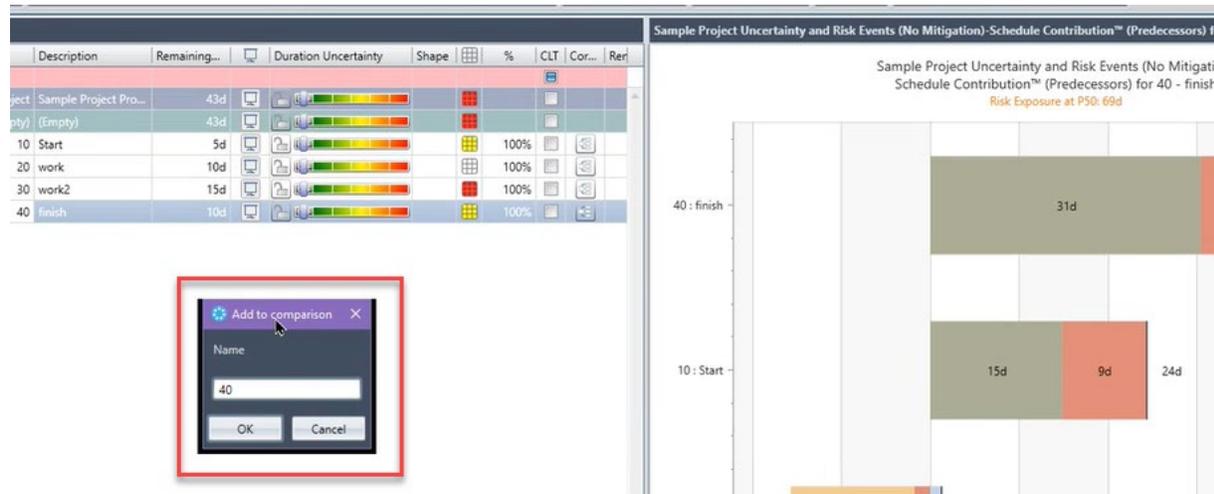
> **Additional Note:** The default name is the name that you are creating when adding to the comparison. For more information, see the Risk Exposure Group on the S3 // Risk Tab and Risk Drivers Group on the S3 // Risk Tab section of the Deltek Acumen Online Help.

Risk Matrix Supports up to 10 Range Factors

You can now select up to 10 Risk Matrix **Probability Ranges** and **Impact Ranges** on the Risk Matrix dialog box. You can access this dialog box on the S3 // Risk tab by clicking **Risk Matrix** in the Templates menu.
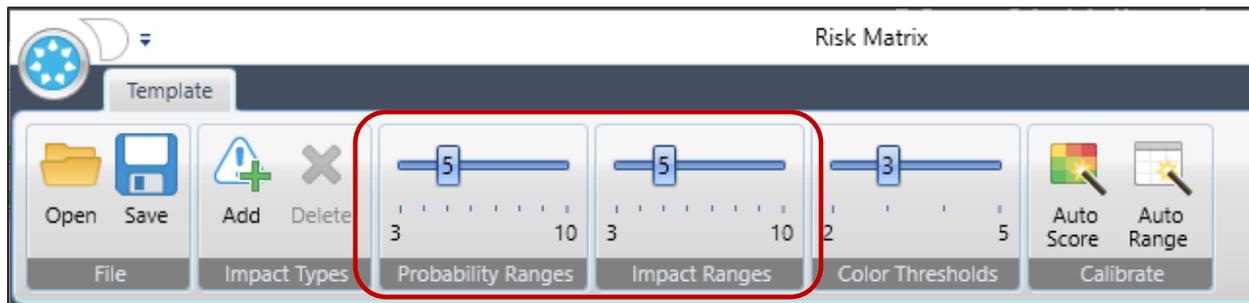
Cancel Button on the Risk Matrix Dialog Box

The Risk Matrix dialog box now includes a **Cancel** button, allowing you to view the contents of the dialog box without updating any mappings. In the previous release, you could only close the dialog box by clicking **OK**, which would update all of the risk mappings, potentially changing values if you had modified the default risk values mapping manually or imported the risk register from Excel.

Risk Executive Briefing Report using Hierarchy Nodes

When you create a selection set to specify the data that you want included in the Risk Executive Briefing Report, you can now select hierarchy nodes in addition to activities. This allows you to report on risks to, for example, the WBS or OBS.
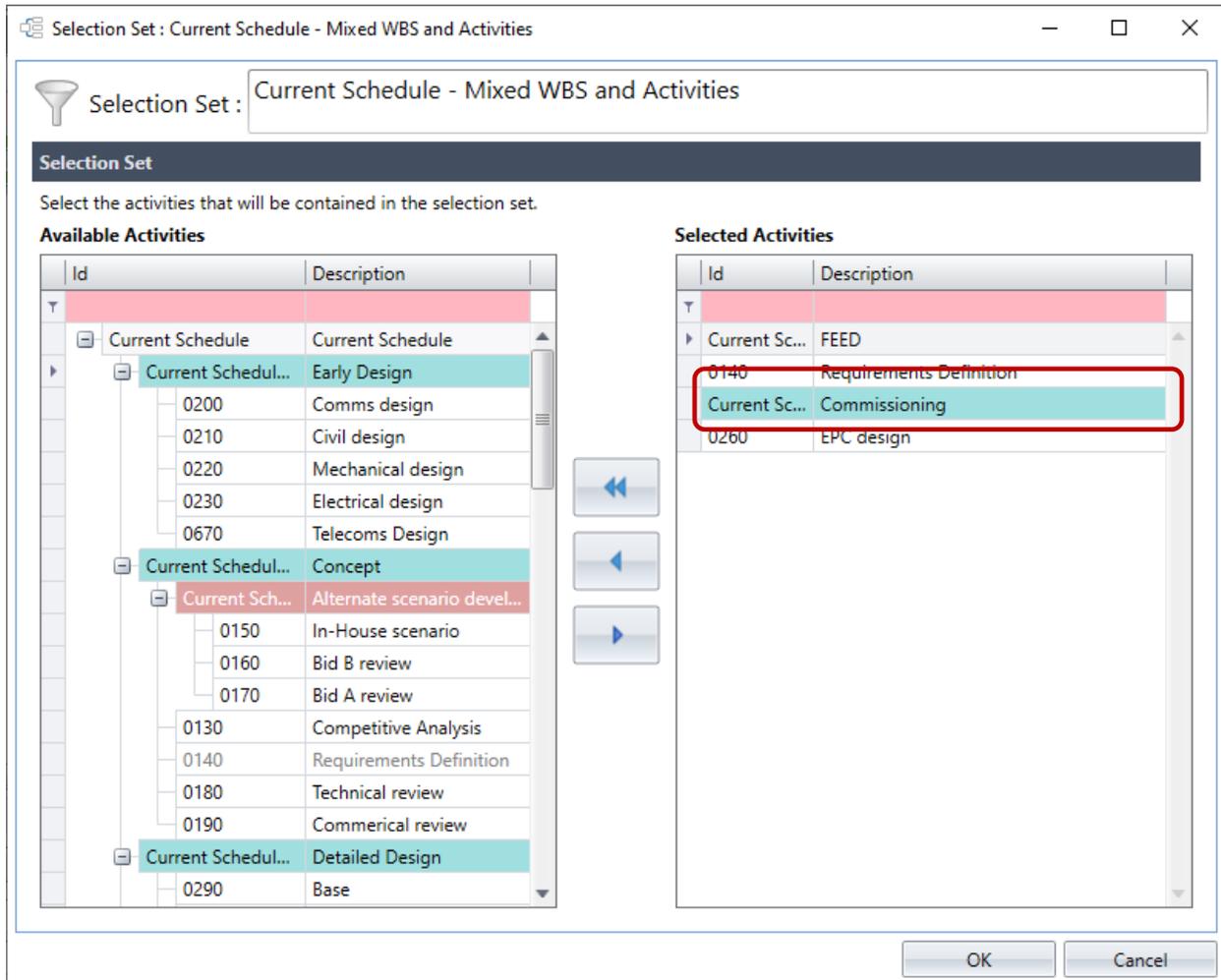
Right Panel Risk Drivers Remains Open when Risk Completes

Acumen now keeps the Risk Drivers open in the right panel when Risk is done running. This makes it easier for you to view the Risk Drivers chart while changing risk options. When Risk Analysis is done running, the following scenarios can take place:

- If there is no Right Panel view open, the Risk Exposure chart will be displayed.

- If any of the following views are open on the right side, Risk Exposure will be displayed:

  o Risk Sensitivity

  o Critical Schedule Drivers

  o Risk Exposure Comparison

  o Risk Drivers Comparison

  o Uncertainty Inputs

  o Risk Register

- If either Risk Exposure or Risk Drivers is open, they will stay on the screen.

- When the Left Panel is in Risk Register view, the left panel will switch to Activities after running Risk Analysis and Risk Exposure will oepn on the right panel.

Change Display Settings on the S3 // Risk Tab

You can now change the display settings on the S3 // Risk tab. The Activity View menu now includes the same **Display Settings** options that are available on the S1 // Projects tab.
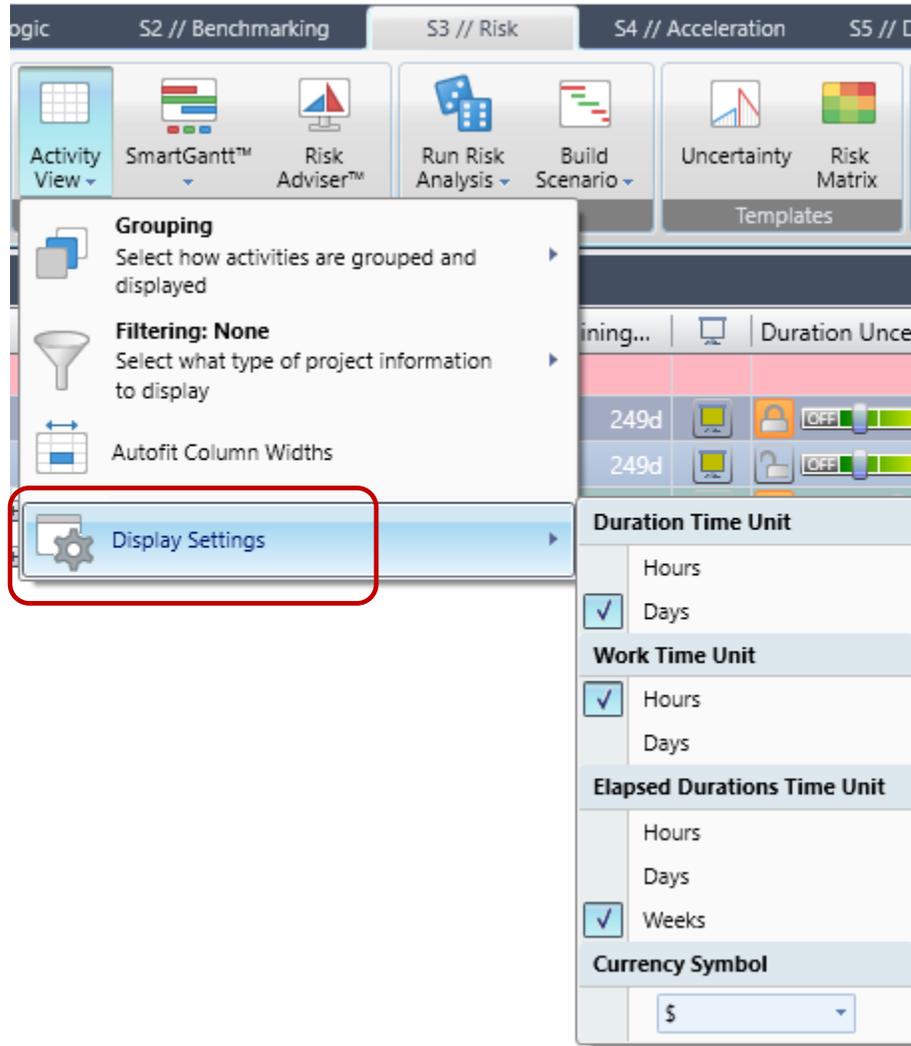
Pxx Activity Columns Updated When Running Risk

Acumen now updates any existing Pxx activity fields each time you run Risk so that these fields reflect the latest results. This includes the Start, Finish, Cost, Duration and Float fields for a given P-Value.

Stored Fuse Results for Better Performance

Acumen now stores Fuse results in the workbook, allowing you to save time when working in the same workbook over multiple sessions.

The **Fuse** drop-down menu on the S2 // Diagnostics tab includes the new section called **Caching**. When you open a workbook containing results that Acumen has already calculated, it simply loads the results from the cache. You have the option to clear all cached Fuse results by clicking **Clear Cache**.
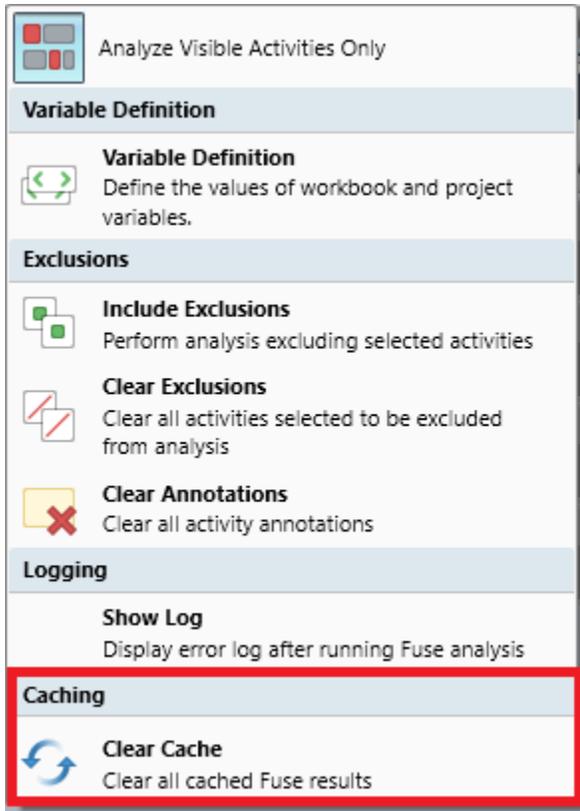
When you click **Fuse** with cached results, Acumen determines if it needs to recalculate anything. Recalculation will occur when there are new metrics, you reimported a project, or you reimported, added or remove any project or snapshot (which requires you to refresh all metrics that use the Snap function). Acumen recalculates the results and adds them to the cache.

New Fields

Previous Period Fields

When loading DECM cost data from DCDE, CSV, or IPMDAR CPD, Acumen now populates the following two new fields from the previous snapshot (if there is one):

- PreviousBacHours
- PreviousBcwpCumHours

You can use these at the control account and work package level anywhere previous cost data is available.

Project Fields on the Metrics Tab

Some project level fields get automatically imported during a project import. These fields are automatically exposed and can be used within metric formulas.

Acumen now populates the project level **Project Target Finish** field. This field is available for metrics and anywhere else existing project special fields can be used.

The data comes from:

- **Open Plan** — The Project Target Finish field
- **Primavera P6 —** The Project Must Finish By field
- **Microsoft Project —** N/A (does not have such a field)
- **IPMDAR SPD —** N/A (does not have such a field)
- **Safran Project —** N/A (does not have such a field)
- **Powerproject —** N/A (does not have such a field)
- **Phoenix —** N/A (does not have such a field)
- **UN/CEFACT —** N/A (does not have such a field)

> **Attention:** For more information about the Project Fields, see the following topic in the Acumen online help:
>
> - Project Fields on the Metrics Tab (Metrics Tab » Learn More About » Types of Acumen Fields and Variables

Special Fields

The following special fields are now available to use in metrics and filters:

Name	Definition
Number Of FS Predecessor Lags	Returns the count of Predecessors that are Finish to Start (FS) and have a Lag >0
Number Of FF Predecessor Lags	Returns the count of Predecessors that are Finish to Finish (FF) and have a Lag >0
Number Of SS Predecessor Lags	Returns the count of Predecessors that are Start to Start (SS) and have a Lag >0
Number Of SF Predecessor Lags	Returns the count of Predecessors that are Start to Finish (SF) and have a Lag >0
Maximum FS Lag	Max Lag of all Predecessors where link type is Finish To Start (FS)
Maximum FF Lag	Max Lag of all Predecessors where link type is Finish To Finish (FF)
Maximum SS Lag	Max Lag of all Predecessors where link type is Start To Start (SS)
Maximum SF Lag	Max Lag of all Predecessors where link type is Start To Finish (SF)

> **Note:** You can see the full list of special fields in the Acumen online help by navigating to **Metrics Tab » Special Metrics Fields**.

New Fuse Metric Compare Option to Export Metric Results to Excel

Acumen added a new option to the Compare dialog box which allows you to export metric comparison results to Microsoft Excel. This makes it easier to compare results and print them out if needed. The exported file contains all the columns displayed in the dialog box, with the top row identifying what is being compared in the table. The default file name is **<workbookname> - FUSE Compare.xlsx.**
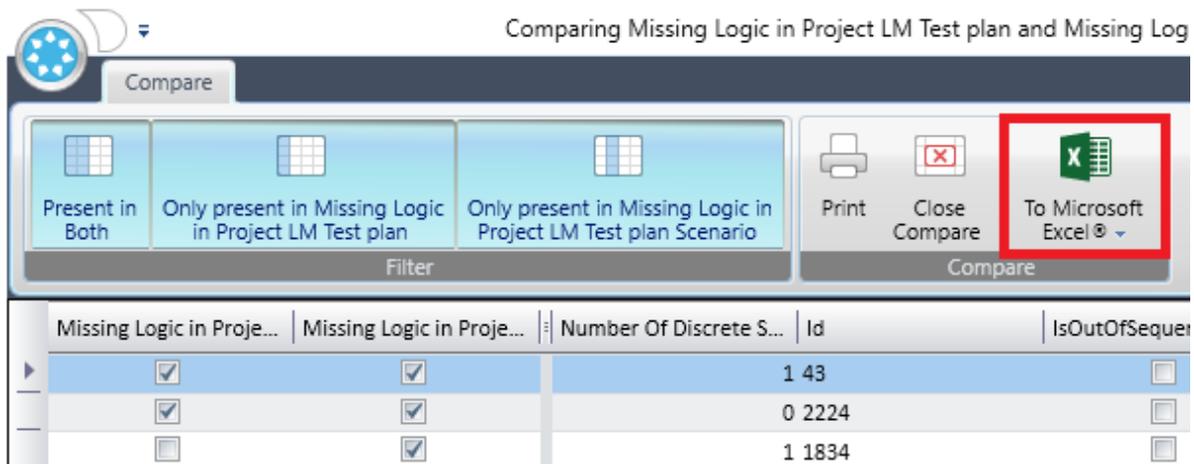
Different Colors as Default in Timeline View

The **Different Colors** option in the **Timeline View** command on the S1 // Projects tab is now selected by default for new workbooks. When you add activities to the Timeline view, Open Plan automatically displays each activity with a different color. In the previous release, newly added activities used only one color.
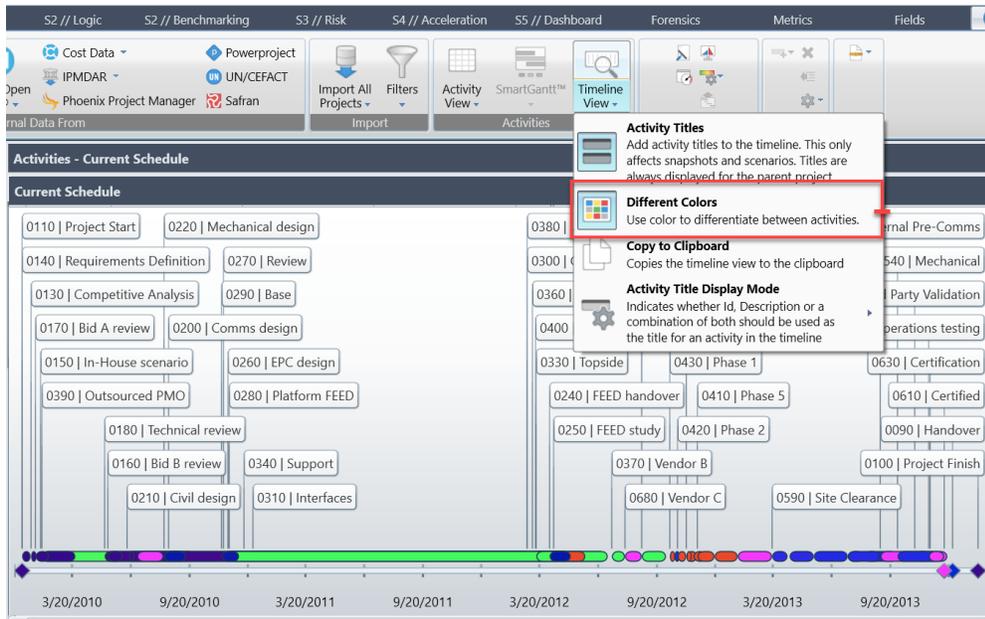
Autofit Column Grids on the S2 // Logic Tab

The grids on the S2 // Logic tab have been updated to automatically fit the data in each column. In the previous release, when you click an option (for example, **Open Ends**), you needed to adjust the column widths manually to view the contents.

Acceleration Results for <Schedule> Dialog Box Improvements

The Acceleration Results dialog box has been updated to help you read and understand the displayed information more easily.
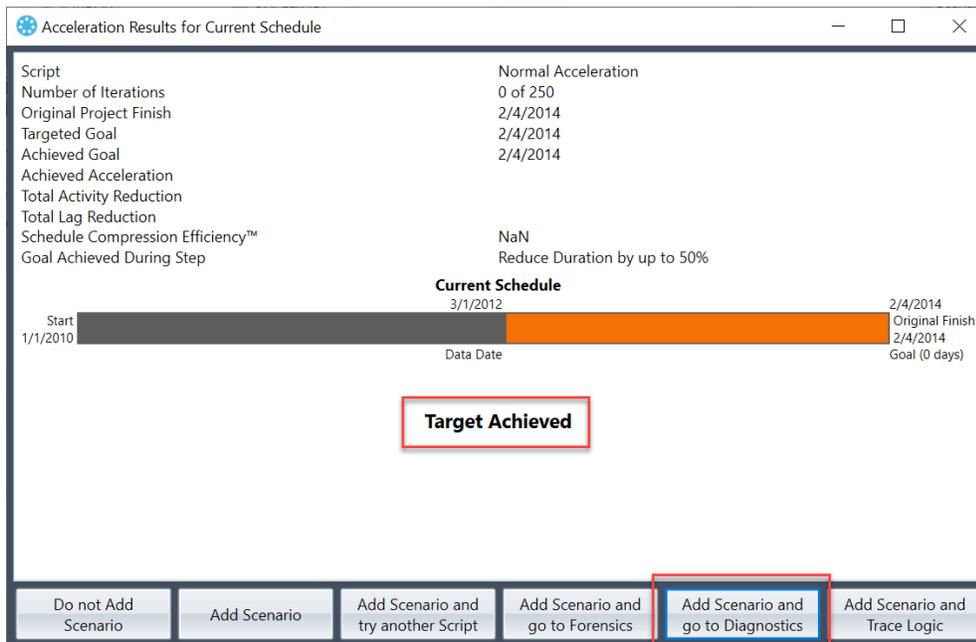
- The **Add Scenario and go to Diagnostics** button is now selected by default.
- The **Target Achieved** or **Target Partially Achieved** text now uses a larger font size to make it easier to see.

S1 // Projects Tab Exports Filtered List of Activities to Excel

Previously when you exported the S1 // Projects tab current list of activities to Excel, Acumen exported all of the activities regardless of any applied filter. Now when you filter the list and click **Publish » Microsoft Excel**, Acumen exports the filtered list of current activities to Excel.
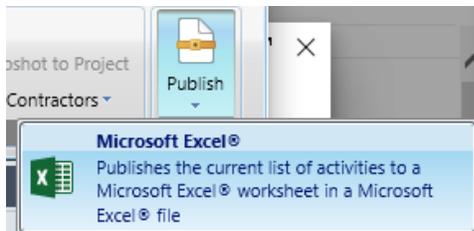
Cobra Project Name from a DCDE File as the Contract Name

When importing cost data and publishing metric results to a data source, Acumen now uses the value of the new **CostProjectName** property from a DCDE file and saves it in the **ContrName** field of the Contract table in the database.

- When importing cost data, the cost project list on the Import Cost Data dialog box displays the cost project name if it exists. Otherwise, it displays the contract name.
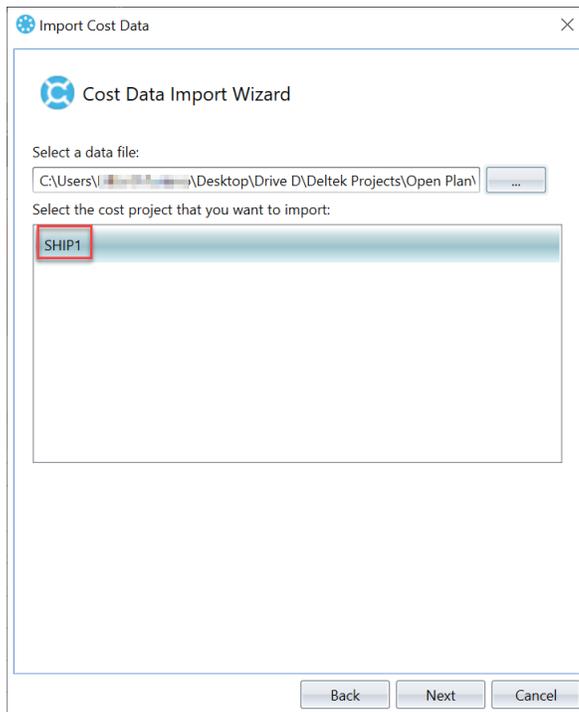
- When importing cost data from DCDE only (no schedule), the cost project name (if it exists) displays in the Projects pane.
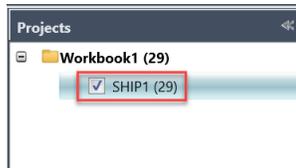
- When publishing metric results to a Deltek data source, the new Export Settings dialog box displays after you select a project.
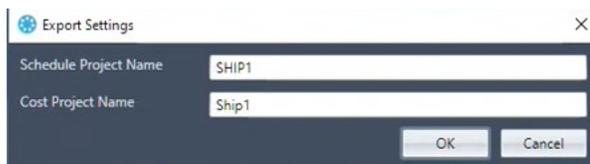
The **Schedule Project Name** field displays the Acumen project name, which you can view in the Projects pane and is stored in the Project table in the database. The **Cost Project Name** field displays the cost project name (if it exists) from the DCDE or the name of the contract associated with the project.

> **Attention:** For more information, see the Publish Metric Analysis Results to a Specific Data Source section in the Deltek Acumen Online Help.

> **Note:** You will need Cobra 8.4 CU12 (or later) to have the Cobra enhancement to write the Cobra project name to the DCDE file.

Manage Published Data Dialog Box

This dialog box displays a tree of published contracts and their periods. By default, it displays a collapsed list. You can select one or more contracts and/or periods to delete.
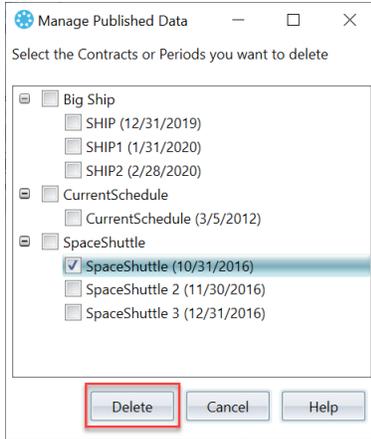
> **Note:** The **Delete** button is only enabled when you select at least one contract or period in the list.

> **Attention:** For more information, see the Analyze Group on the S2 // Diagnostics Tab topic in the Deltek Acumen Online Help.

Relationships that Impact the Critical Path

You can now verify whether relationship changes will impact the critical path. Use the new **Predecessor Critical** and **Successor Critical** columns in Forensics Relationships to see if a relationship is on the critical path. **True** means that it is and **False** means that it is not.

Relationships - 2 (5%)						
Predecessor ID	Predecessor	Predecessor Critical	Successor ID	Successor	Successor Critical	SHIP
1.1.1.0	NTP Recieved	False	1.1.1.4	PM Activities (LOE)	False	StartToStart (0)
1.1.1.3	Develop Mission Systems	False	1.1.1.4	PM Activities (LOE)	False	FinishToFinish (0)

Ability to Save the Configurations for the Integrated Program Management Data Analysis Report (IPMDAR) Exports and Imports

Acumen now gives you an option to save the configurations when exporting schedule or cost data to an IPMDAR file. In addition, the interface of both the IPMDAR Schedule Export Options and IPMDAR Cost Performance Export Options dialog boxes has been updated to feature a three-step wizard approach instead of only one dialog box, which Acumen displayed in the previous version.

- Clicking **Publish » IPMDAR Schedule** or **IPMDAR Contract Performance** presents you with the option to use existing settings stored in the workbook or import settings from a configuration file. Selecting the **Use Current Field Settings** option allows Acumen to function like the old export.
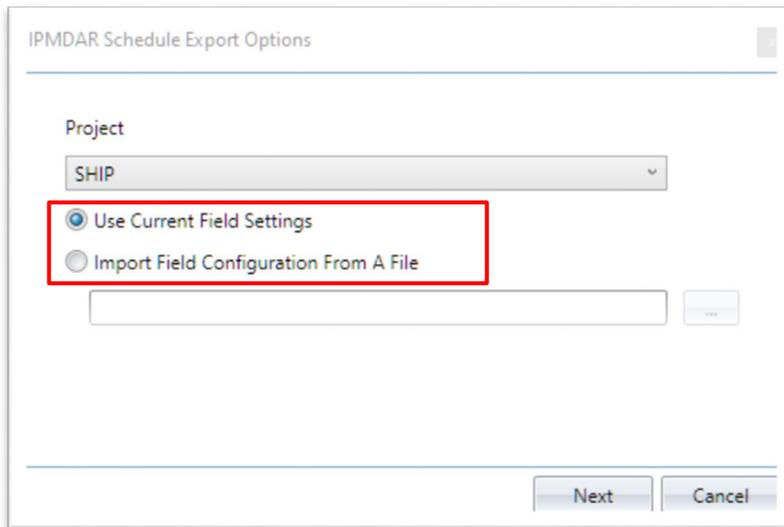
- Clicking **Next** on the first screen displays the bulk of the actual export settings, which the old IPMDAR export dialog boxes had. The only difference is that the **Project** field is now read-only.
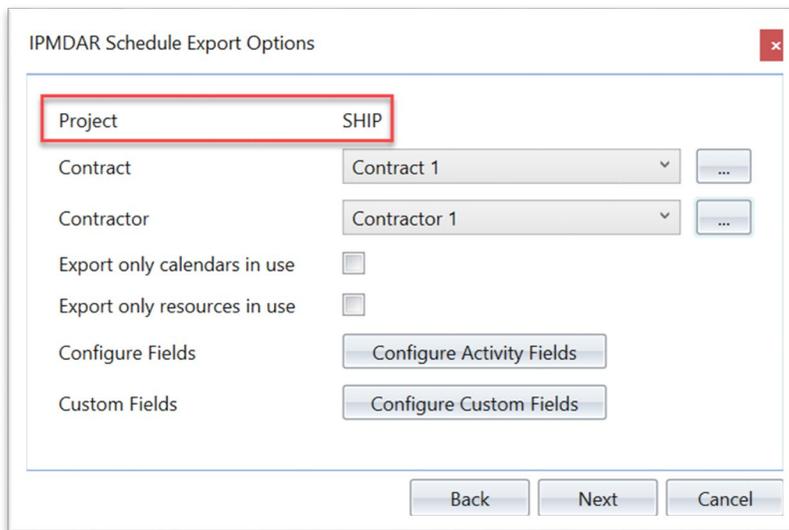
- The final screen allows you to save the field configurations to a file. Acumen, however, does not save the selected **Contract** and **Contractor** values as these are typically unique to a project.
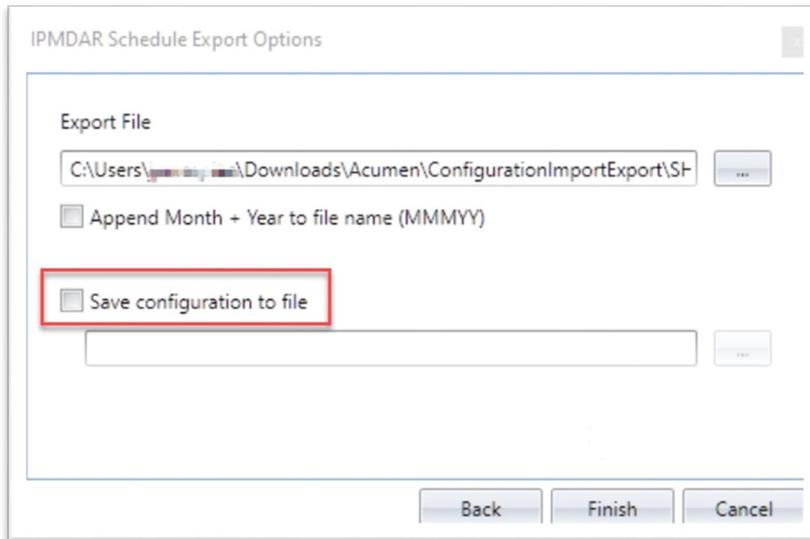
> **Note:** The options to select the export file name and append the month and year to the file name already existed in the previous version.

Acumen stores the following information in the configuration file:

- All fields on the Configure Activity Fields dialog box (*for Schedule export only*)
- All fields on the Configure Custom Fields dialog box (for Schedule export only)
- All options on the Configure Structures dialog box (*for Contract Performance export only*)
- All options on the Data Options dialog box (*for Contract Performance export only*)
- Export File name
- Append month + year selection

Option to Export Only Resources in Use

When performing an Integrated Program Management Data Analysis Report (IPMDAR) Schedule Performance Dataset (SPD) export, Acumen now gives you an option to include only the resources that are in use by the project you are exporting. You can do this by selecting the new option called **Export only resources in use** on the IPMDAR Schedule Export Options dialog box. By default, this option is not selected.
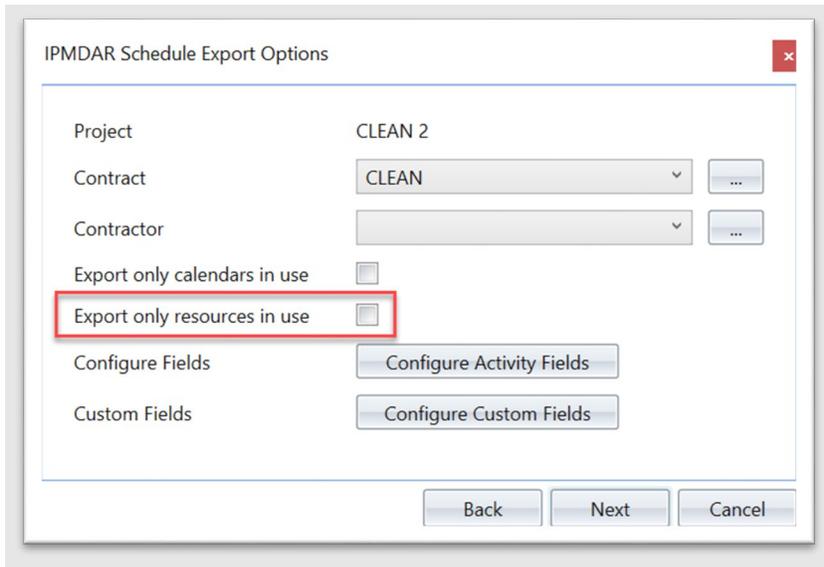
Acumen saves the exported resources in the Resources.json file, which is included in the generated .zip file.

Ability to Map to the FUSE Exclusion Field

You can now use the new **Excluded** field on the Fields tab to map to an exclusion field in your scheduling software.

You can map it to the following fields:

- A Primavera P6 text field that includes the values **Yes**, **Y**, or **y**. All other values are ignored. The default mapping is blank.

- A Microsoft Project flag field type with the value **Yes**. By default, the Microsoft Project **IsActive** field is mapped.

- An Open Plan text field that includes the values **Yes**, **Y**, or **y**. All other values are ignored. The default mapping is blank.

- For any other schedule, a text field that includes the values **Yes**, **Y**, or **y**. All other values are ignored. The default mapping is blank.

Ability to Map a Resource Element of Cost (EOC) Field

To support the Integrated Program Management Data Analysis Report (IPMDAR) Schedule Performance Dataset (SPD) export from Microsoft Project, two new fields are available in the Field Mapping section on the Platforms Microsoft tab of the Deltek Acumen Options dialog box, allowing you to identify a resource field that includes EOC values for the resource.
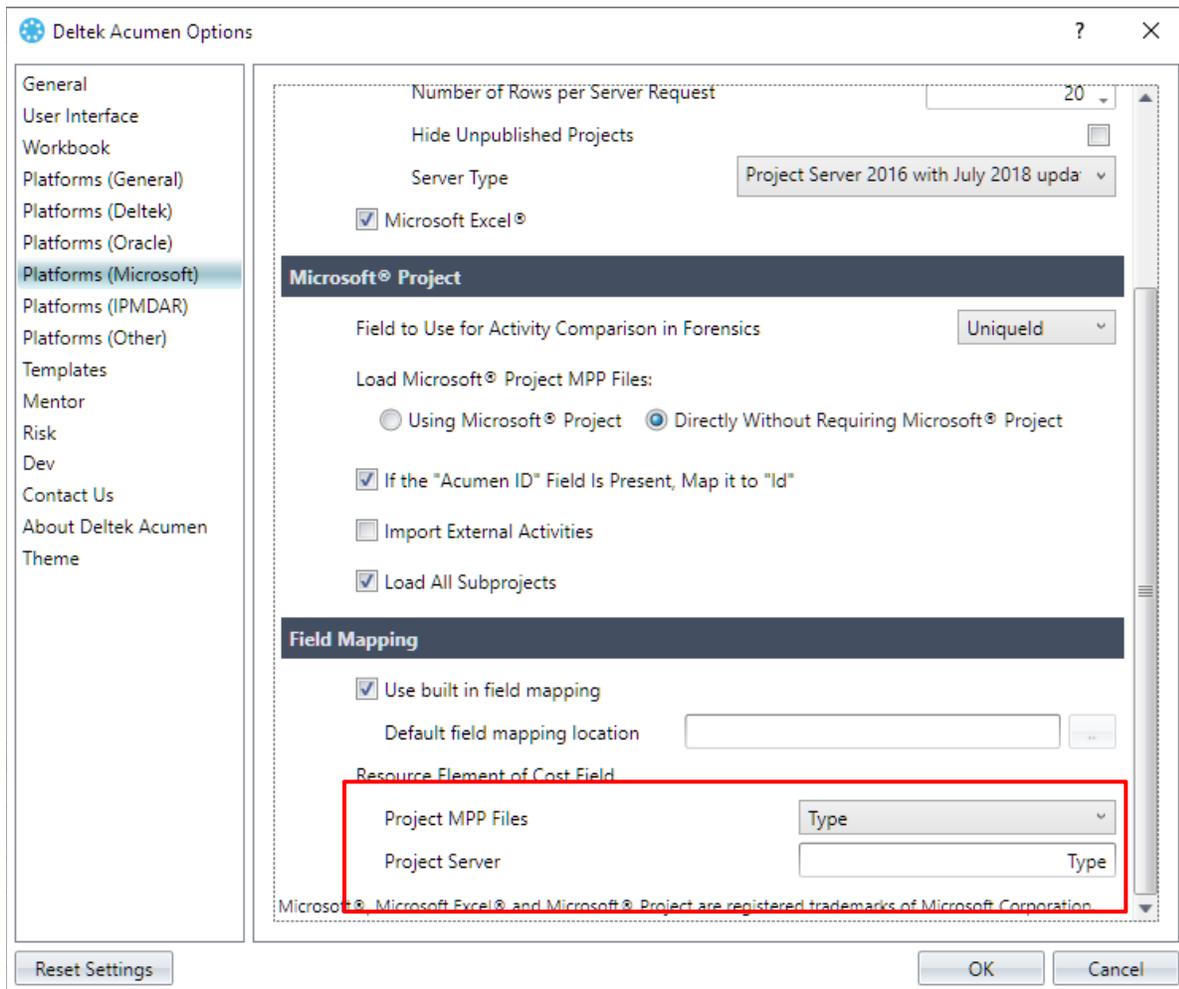
- The **Project MPP Files** drop-down list contains resource **Type** and resource **Text1-Text30** options.

- The **Project Server** field supports the resource **Type** as well as Enterprise fields, which you need to enter manually.

- By default, both fields are set to **Type** allowing you to import using the resource type from MSP or Project Server, which is Acumen's existing behavior.

- If you use a custom resource field, the selected field should have only the following values:
    - **Labor** or **L**
    - **Material** or **M**
    - **Cost** or **C**
    - **Subcontractor** or **S**
    - **Equipment** or **E**
    - Any other values are treated as **Labor**

Importing of External Activities

In the past, you could not specify whether or not you wanted to import external activities when you imported an Oracle Primavera P6 project or an Open Plan project. You could only specify this for an MSP project import.

You can now use the new **Import External Activities** field to specify whether or not you want to import external activities for Open Plan and Primavera P6.

- When you select this option (default setting), Acumen imports the external activities into the project and they display in gray in the Activities view on the S1 // Projects tab. If you select one, you can see the predecessor / successor information on the Activity Relationships sub-tab. The external activities count towards the total activity count, they display in the activity grid, and they are included in metric calculations.

- When you clear this option, Acumen still imports the external activities but only uses them to resolve relationships. The external activities do not count towards the total activity count, you cannot see them in the activity grid, and they are not included in metric calculations. The only place you can see them is on the Activity Details Relationships tab.

You can view the field on the Deltek Acumen Options dialog box Platforms (Microsoft), Platforms (Deltek), and Platforms (Oracle) pages.
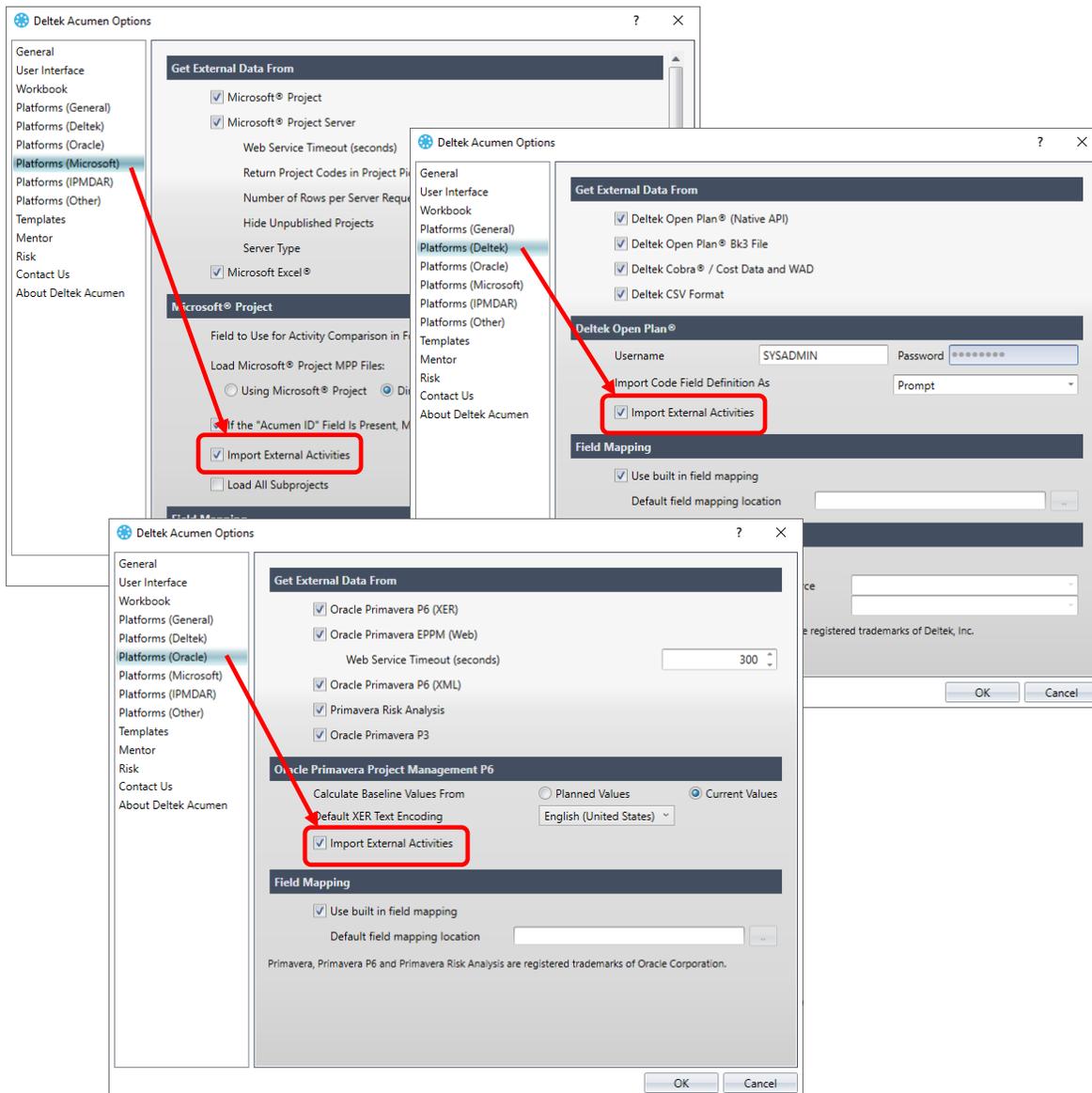
Note: External activities are excluded from the random selection of activities used for the ProjectCriticalPathTest and Logic Sensitivity. You can manually select external activities if needed for Logic Sensitivity.

Primavera P6 XML Import Support for Loading Project Baselines

When you import an XML file that contains projects and baselines using the **Project from a P6 XML file** command, Acumen now displays the list of all the projects and baselines included in the XML file. In the previous release, the list would only contain projects.
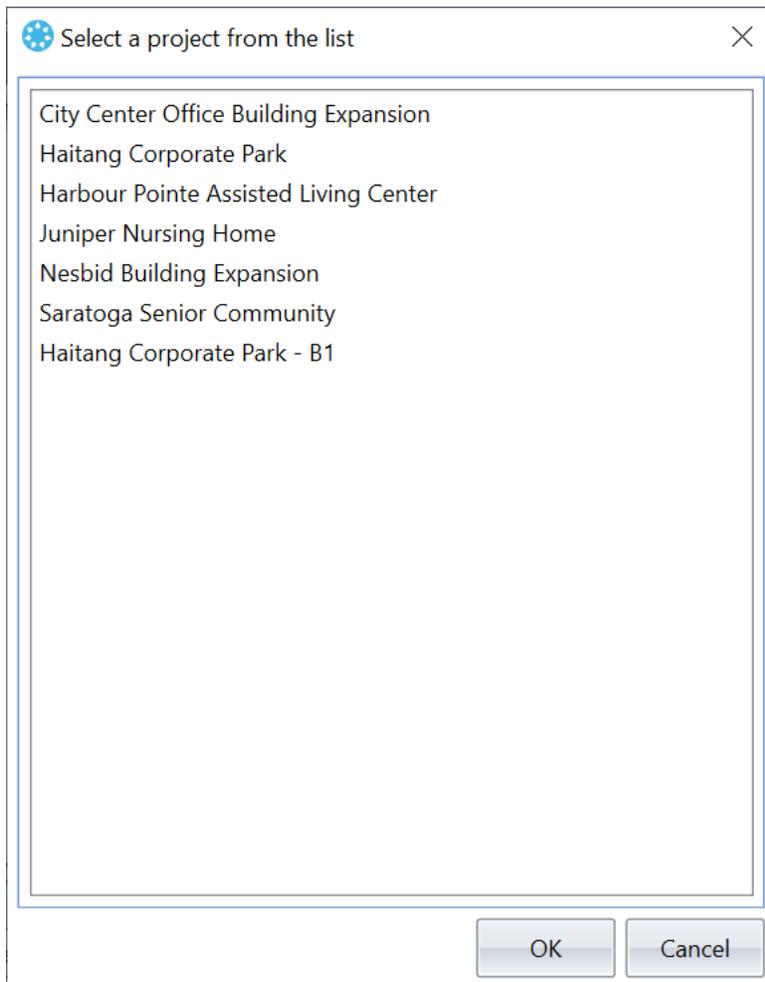
In addition, the same list of projects and baselines is available when you use the **Assign Baseline** or **Change Baseline** command. In the past version, an error message would display when you tried to assign or change the baseline using the same commands.
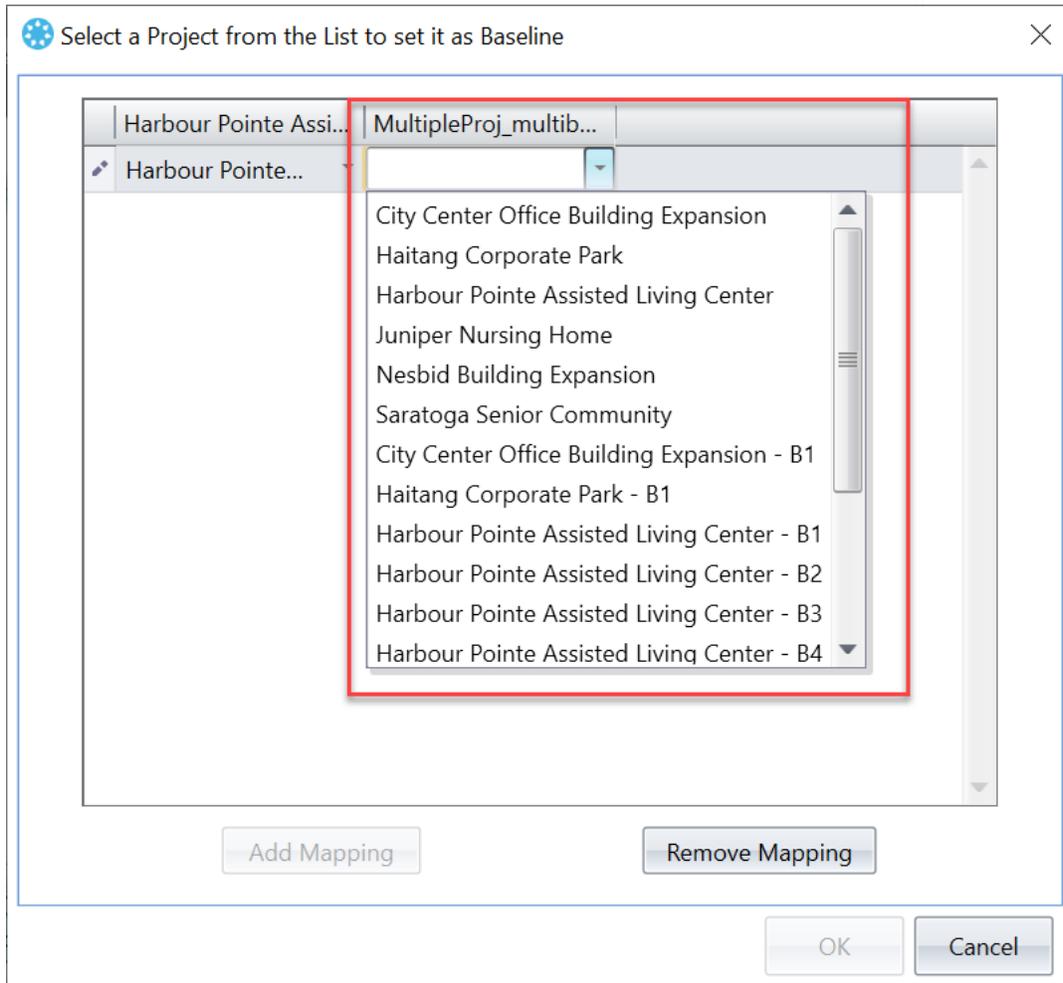
> **Attention:** For more information, see the Oracle Primavera Command on the S1//Projects Tab section of the Deltek Acumen Online Help.

Option to Re-Import a Project after Assigning, Changing, or Clearing a Baseline

Assigning, changing, or deleting a baseline requires you to import the P6 XML project again. Acumen provides you with two options:

- You can select the **Automatic import schedule** option on the Platforms – General section of the Deltek Acumen Options dialog box to import the project automatically.

- If you do not select **Automatic import schedule**, after you assign/change/delete the baseline, Acumen displays a message prompting you to import the project.

> **Attention:** For more information, see the Deltek Acumen Options (Platforms – General) and Oracle Primavera Command on the S1 // Projects Tab sections of the Deltek Acumen Online Help.

Support for Time-Phased Records in a .CSV Data File Import

Acumen now supports the import of time-phased resource and budget values in the Cost .csv format. The .csv data file contains an optional section called TimePhasePeriods, allowing the application to determine the values of the following time-phased date fields:

- TimePhaseAcwpFinish
- TimePhaseAcwpStart
- TimePhaseBcwpFinish
- TimePhaseBcwpStart
- TimePhaseBcwsFinish
- TimePhaseBcwsStart
- TimePhaseEtcFinish
- TimePhaseEtcStart

In the previous version, Acumen only supported time-phased data from .dcde file.

> **Note:** If there are time phased dates on the control account and work packages as well as a TimePhasedPeriods section, the dates from the TimePhasedPeriods section will be used in Acumen.

The new Time Phased sub-folder is available in the C:\Program Files (x86)\Deltek\Acumen 8.8\DECM Samples and C:\Users\<user name>\Document\DECM Samples folder. It contains a .csv template file and three .csv files for the Ship project with time-phased data. These .csv files include the TimePhasePeriods section, which displays the time-phased date fields.

> **Note:** You can verify the imported time-phased records in the Control Account / Work Package grid on the Control Accounts / Work Packages tab of the Activity Details pane and in the Activity Browser grid on the S2 // Diagnostics tab.

Support for PERT as Earned Value Technique (EVT) for Work Packages

When the cost data from a Cost .csv file contains EVT values for the Program Evaluation and Review Technique (PERT) for work packages, Acumen displays these values in the Performance Method column of the Control Account / Work Package grid. You can find this grid on the Control Accounts / Work Packages tab of the Activity Details pane.

The short performance method value for PERT is **R** and the long value is **PERT**. For blank EVT values, Acumen imports them as **None**.

> **Attention:** For more information, see the Control Accounts / Work Packages Tab of the Activity Details Pane topic of the Deltek Acumen Online Help.

Support for Powerproject 16.0.1

Acumen has been updated to support the Powerproject platform version 16.0.1.

Exporting a Scenario back to Open Plan Using Existing Ancillary Files

When you import an Open Plan project into Acumen, Acumen also loads the ancillary data.

When you create a scenario and export that scenario back to Open Plan, the system creates a new Open Plan project. Previously it also created new ancillary files. Acumen does not change the ancillary data so there was no need to create new files. Some Open Plan users may not have had rights to create this type of data.

Now, when you export a scenario to Open Plan, the system will look to see if the required ancillary files already exist. If they are not found, Acumen will create them. If there are existing ancillary files, it will use those files when it creates the new Open Plan project.

New Location of Acumen Samples and Templates

You can now find the following folders in the Acumen installation folder, which is C:\Program Files (x86)\Deltek\Acumen *<version>*\ by default:

- DECM Samples
- Documentation
- Samples
- Templates

In the previous release, these were located in the C:\Users\Public\Documents\Acumen <version>\ folder. The Documentation folder, however, was only available for download using Deltek Software Manager.

> **Attention:** Acumen now includes a set of metrics that use the new SNAP() function. You can access the SNAP sample metric template from the Templates folder.

Software Issues Resolved

This section includes software issues resolved in this release.

S1 // Projects » New Project

Defect 1473546

Description: When you imported an XER file that was missing expected fields, Acumen issued an error message, "The given key was not present in the dictionary".

Customers Impacted: Acumen users with XER files missing standard fields.

Workaround Before Fix: None.

Defect 1615164

Description: When you tried to import an XER file, the process failed when the default quantity per hour header was not what was expected.

Customers Impacted: Acumen users who imported XER files.

Workaround Before Fix: In the XER file, manually rename the header from **def_qty_per_hour** to **def_qty_per_hr**.

S1 // Projects » Get External Data From » Microsoft Project Import

Defect 1552644

Description: When you imported a file via the MSP **Native** import (directly without requiring Microsoft Project), incorrect values for Start Variance and Finish Variance displayed.

Customers Impacted: Acumen users who use **Native** import for MSP.

Workaround Before Fix: Import MSP via **Active** import.

Defect 1633307

Description: When you imported Microsoft Project via **Active** import, the **Suspend** and **Resume** dates were not populated.

Customers Impacted: Acumen users who import Microsoft Project via the **Active** import.

Workaround Before Fix: Import Microsoft Project via the **Native** import option.

Defect 1419295

Description: When you imported certain MPP project files, Acumen issued an error message, "Index was outside the bounds of the array".

Customers Impacted: Acumen users who import MPP project files.

Workaround Before Fix: None.

Defect 1633312

Description: When you imported Microsoft Project via an **Active** import, the Percent Complete column on Resource Assignments was not populated.

Customers Impacted: Acumen users who import Microsoft Project via an **Active** import.

Workaround Before Fix: Import using the **Native** option that does not require MSP.

S1 // Projects » Get External Data From » Oracle Primavera Import » Single Project from a P6 XER file

Defect 1672887

Description: Acumen failed to import the **duration_type** field from P6 XER files.

Customers Impacted: Acumen users who import from the P6 XER file.

Workaround Before Fix: None.

Defect 1542730

Description: When you imported a P6 XER file, it might not convert Percent Complete Type to the Acumen percent complete type.

Customers Impacted: Acumen users who use P6 XER.

Workaround Before Fix: Change any of the metrics to use the P6 XER values instead of Acumen percent complete types.

Defect 1481089

Description: When you imported a P6 XER file containing commas (,) instead of periods (.) as the decimal symbol, Acumen would issue an error message, "ERROR (System.ArgumentException): Remaining Duration cannot be negative".

Customers Impacted: Acumen users who use commas as the decimal symbol in their XER files.

Workaround Before Fix: Create the P6 XER file with periods (.) as the decimal symbol.

S1 // Projects » Get External Data From » Oracle Primavera Import » Project from a P6 XML file

Defect 1638802

Description: BCWS values for P6 XML were not populated on the first import.

Customers Impacted: Acumen users who use P6 XML.

Workaround Before Fix: Re-import the project to show the BCWS values.

Defect 1539341

Description: When you imported a P6 XML file, the BCWS (PV) would result in a 0.

Customers Impacted: Acumen users who use P6 XML schedules.

Workaround Before Fix: Click **Map Fields to All Projects** on the Fields tab to reimport the project.

Defect 1612067

Description: When you imported a P6 XML schedule, the Baseline Start values for WBS levels were the same as the Baseline Finish.

Customers Impacted: All acumen users with P6 XML schedules.

Workaround Before Fix: None.

S1 // Projects » Get External Data From » Deltek Open Plan Import

Defect 1028832

Description: When you imported OPP BK3, Master Project did not load inter-project relationships.

Customers Impacted: Acumen users who use BK3 files with Master Project.

Workaround Before Fix: Load the project directly from Open Plan.

S1 // Projects » Get External Data From » Cost Data Import » Cost Data CSV

Defect 1600415

Description: When you imported a Cost Data CSV file and left the **Performance Method** column blank, an error might occur.

Customers Impacted: Acumen users who use Cost Data CSV files.

Workaround Before Fix: Add "None" in the **Performance Method** column.

S1 // Projects » Get External Data From » Cost Data Import » IPMDAR Contract Performance Data

Defect 1673517

Description: When you imported an IPMDAR CPD without a schedule, Acumen did not populate date fields like it would if you imported a DCDE or CSV file with no schedule, so FUSE was disabled. When you imported DCDE and CSV cost formats without a schedule, Acumen populated date fields and FUSE was enabled.

Customers Impacted: Acumen users who need to use FUSE on a CPD without a schedule.

Workaround Before Fix: None.

S1 // Projects » Get External Data From » PowerProject Import

Defect 1696628

Description: When you mapped some fields for PowerProject schedules, an incorrect value was displayed.

Customers Impacted: Acumen users who use PowerProject.

Workaround Before Fix: None.

Additional Notes: This defect is also found in the **Cost Remaining** and **Forecast Cost** fields. Other fields may have similar problems.

Defect 1696630

Description: Acumen issued an error when you imported a PowerProject schedule while the **Resume** field was mapped.

Customers Impacted: Acumen users who use PowerProject.

Workaround Before Fix: None.

S1 // Projects » Import

Defect 1249296

Description: Acumen froze when you had a project with a snapshot and you locked one of the projects and clicked **Import All Projects**.

Customers Impacted: Acumen users who import projects.

Workaround Before Fix: None.

S1 // Projects » Activity Details

Defect 1529340

Description: When you added columns to the S1 // Projects tab and S3 // Risk tab activity views, the column order was not properly saved. If you added columns to one of the views and then switched tabs, the added columns would show up at the end of the view when you went back to the original tab.

Customers Impacted: Acumen users who add columns while in activity view.

Workaround Before Fix: None.

S1 // Projects » Grouping » Group by Fields

Defect 1697372

Description: When you used an Activity Code and then the WBS in the **Group by Field** option in the S1 page (also seen on the S2 and S3 tabs), redundant WBS values were displayed irrespective of the Display level selected.

Customers Impacted: Acumen users who use an Activity Code.

Workaround Before Fix: None.

S1 // Projects » Scenario Generation » Schedule Realism Advisor

Defect 1240853

Description: When you launched the Acumen help from the Schedule Realism Advisor dialog box, Acumen would crash.

Customers Impacted: Acumen users who use help in the Schedule Realism Advisor dialog box.

Workaround Before Fix: Launch help from somewhere else in Acumen and search for the Schedule Realism Advisor.

S1 // Projects » Publish » Export to Microsoft Project XML

Defect 1365699

Description: When you had an activity with a date that spanned more than 50 years, Acumen would crash when you exported an XER schedule to an MSP XML format.

Customers Impacted: Acumen users who have activities that span more than 50 years.

Workaround Before Fix: None.

Defect 1602082

Description: When you had a project with TABs in the names of resources or calendars and selected **Export as Microsoft Project XML**, the XML file created will have TABS in these fields and cannot be opened by MSP.

Customers Impacted: All Acumen users.

Workaround Before Fix: Remove TABs from key fields in the file.

Defect 1119399

Description: When you exported to an MSP XML format, "Infinity" was displayed in the duration fields.

Customers Impacted: Acumen users who export to MSP XML formats.

Workaround Before Fix: None.

S1 // Projects » Publish » Export to IPMDAR Schedule

Defect 1728697

Description: When you exported a schedule from an MPP file to IPMDAR, the Percent Complete for Resource Assignment might be incorrect.

Customers Impacted: Acumen users who import MPP files and export to IPMDAR.

Workaround Before Fix: None.

Additional Notes: This also happens on OP BK3 and the MSP Server.

Defect 1542741

Description: When you imported a schedule from MSP Server and then exported it to IPMDAR SPD, the Budget At Completion Dollars on the resource assignment value was incorrect. Cost resources also showed values for Budget At Complete Hours which were incorrect.

Customers Impacted: Acumen users who use the MSP Server.

Workaround Before Fix: None.

S2 // Diagnostics

Defect 1501271

Description: When you read MSP data, the Milestone Activity Type and Summary Activity Type activities were not included when metrics are based on a filter from the activity type field. The **Acumen Activity Type** field was not set on these activities.

Customers Impacted: Acumen MSP users who filter milestones and summary activities.

Workaround Before Fix: Delete filter and select **Milestone** and **Summary** from the checkbox in Inclusion.

S2 // Diagnostics » Analyze » Compare

Defect 1675726

Description: When you used the Comparison Analyzer, the columns to the right of the divider displayed randomly.

Customers Impacted: Acumen users who use the Comparison Analyzer.

Workaround Before Fix: None.

S2 // Diagnostics » Publish » Fuse Metric History Report

Defect 1506411

Description: When you used Gradient Thresholds, the reported Metric History might not show accurate results for the **Failed** column.

Customers Impacted: Acumen users who use Gradient Thresholds.

Workaround Before Fix: Turn off Gradient Thresholds for metrics.

S2 // Diagnostics » Publish » Fuse Summary Metric Report

Defect 1126795

Description: Excel displayed a "reference is not valid" error message on the Fuse Summary Metric Report when you clicked on a hyperlink in the report. This happens when you have copied an existing metric to a new metric group and/or folder.

Customers Impacted: Acumen users who copy and existing metric to a new metric group and/or folder.

Workaround Before Fix: None.

S2 // Diagnostics » Publish » Metric Results to a Deltek Data Source

Defect 1651623

Description: When you published metric results to a database or wInsight and the original imported DCDE could not be found, the contract information in the export was not populated.

Customer Impacted: Acumen users who export to a metric results database whose original cost files might not be accessible.

Workaround Before Fix: Ensure that original cost files are available in the same location they were originally imported.

S3 // Risk

Defect 1718496

Description: When you selected **Mean** as the default P-Value in the Options dialog box on the Risk tab and then ran a risk analysis, Acumen gave an error.

Customers Impacted: Acumen users who use the Mean value as the default P-Value.

Workaround Before Fix: Use another value for the default P-Value in Acumen Options.

S3 // Risk » Risk Driver

Defect 1649828

Description: When you had more than two pages of drivers and the Risk Drivers chart had scrolling enabled, the chart did not display all the data.

Customers Impacted: Acumen users who use the scroll view option.

Workaround Before Fix: Disable scroll view.

Defect 1691214

Description: The Risk Drivers legend failed to display with no messages when there were too many entries to fit in the view.

Customers Impacted: Acumen users with too many drivers to show in a legend.

Workaround Before Fix: None.

Defect 1691215

Description: When you had data with a large number of risk drivers and you selected the **Show All Drivers** option with scrolling enabled, Acumen would allow for two pages of data regardless of the number of drivers. This resulted in unreadable charts.

Customers Impacted: Acumen users with a large number of drivers in the Risk Drivers chart.

Workaround Before Fix: Do not show all drivers.

Defect 1739588

Description: In Risk drivers, when you selected the **Schedule Contribution** option on an activity with a 24-hour per day calendar, an error message was issued.

Customers Impacted: Acumen users who select the **Schedule Contribution** option.

Workaround Before Fix: None.

S3 // Risk » Risk Driver » Criticality

Defect 1737686

Description: The Risk Drivers chart displayed incorrect values for % Criticality.

Customers Impacted: Acumen users who use Criticality.

Workaround Before Fix: None.

S3 // Risk » Risk Register

Defect 875796

Description: The dates on a Risk Window in a Risk Register did not allow dates prior to Time Now. This prevented you from editing a Risk Window on snapshots where Time Now had moved passed the start of the Risk Window.

Customer Impacted: Acumen users with risks of type Risk Window that have dates crossing Time Now.

Workaround Before Fix: None.

Defect 1460299

Description: When you selected or cleared the **Enabled** checkbox in the Risk Register grid, the focus was shifted to the first cell of the selected row rather than on the selected cell.

Customers Impacted: Acumen users who select and/or clear the Enabled checkbox.

Workaround Before Fix: Select or clear the checkbox a second time.

Defect 1465436

Description: When you worked in the Risk Register grid, there were times when you were unable to tab from one cell to another.

Customers Impacted: Acumen users who tab through the Risk Register.

Workaround Before Fix: Click the cell you want to edit.

S3 // Risk » Risk Models

Defect 1254511

Description: When you created a cost estimate from a schedule, Acumen did not copy user defined fields or other activity values which you needed.

Customers Impacted: Acumen users who create cost models from schedules with UDFs.

Workaround Before Fix: None.

S3 // Risk » Activities

Defect 1614441

Description: When you added 12 (or more) categories in **Activity View » Grouping » Group by Fields**, the Activities sections on the S3 // Risk tab would hang.

Customers Impacted: Acumen users who add categories in Group by Fields.

Workaround Before Fix: Choose fewer categories.

S3 // Risk » Activities » Cost Schedule Integration

Defect 1450422

Description: When you overlaid a schedule item to a cost item in S3 // Risk, you needed to click the **Cost/Schedule Integration** button twice to display the "Integrate Cost/Schedule Risk Uncertainty" dialog box.

Customers Impacted: Acumen users who need to overlay a schedule item to a cost item.

Workaround Before Fix: None.

Additional Notes: The first click selects the row in the grid while the second click displays the dialog box.

Defect 1694152

Description: When you changed projects in the overlay dialog box, the Acumen schedule overlay might re-run risk analysis on each project even if it was current for the selected project.

Customers Impacted: Acumen users with multiple projects in their workbook running risk.

Workaround Before Fix: None.

S3 // Risk » Risk Exposure Comparison » Start

Defect 1472279

Description: Although risk analysis did not change the start date for an activity that had an actual start date, the Risk Exposure Comparison chart for the start date still showed values which it should not have.

Customers Impacted: All Acumen users.

Workaround Before Fix: None.

Forensics » Forensic Analysis » Create Analysis

Defect 1437246

Description: When you imported two Powerproject files that were copies of one another, Acumen Fuse would crash when you tried to create a Forensic Analysis.

Customers Impacted: Acumen users who compare two copies of the same Powerproject schedule with the same name.

Workaround Before Fix: Change the name of the other project to make it unique.

Metrics

Defect 1600875

Description: The metric tripwire threshold for work package metric 21A302d was 50% instead of 5%.

Customers Impacted: Acumen users who use the DECM metrics.

Workaround Before Fix: Edit the tripwire threshold.

Defect 1515658

Description: The **Maximum Lag** field had a default value of null whereas all other similar fields had a default of 0. This could mean you needed to create two filters to exclude activities with no lag in the **Maximum Lag** field.

Customers Impacted: Acumen users who use the **Maximum Lag** field.

Workaround Before Fix: Add two filters to metrics using this field.

- Maximum Lag not equal to 0
- Maximum Lag not equal to ""

Metrics » Work Package Metrics

Defect 1364867

Description: When you selected fields on the Define Columns tab of a Work Package, the Control Account ID field was not included in the list of available fields

Customers Impacted: Acumen users who select fields on the Define Columns tab.

Workaround Before Fix: Copy the Control Account ID from another Work Package metric that has it.

Security-Related Software Issues Resolved

This release includes additional security fixes.

> **Note:** If you have a concurrent license and utilize the User Pool Manager, you will need to update your password to the manager the next time you log on.

Deltek

Appendix A: For Additional Information

Deltek Support Center

The Deltek Support Center is a support Web site for Deltek customers who purchase an Ongoing Support Plan (OSP).

The following are some of the many options that the Deltek Support Center provides:

- Search for product documentation, such as release notes, install guides, technical information, online help topics, and white papers
- Ask questions, exchange ideas, and share knowledge with other Deltek customers through the Deltek Support Center Community
- Access Cloud-specific documents and forums
- Download the latest versions of your Deltek products
- Search Deltek's knowledge base
- Submit a support case and check on its progress
- Transfer requested files to a Customer Care analyst
- Subscribe to Deltek communications about your products and services
- Receive alerts of new Deltek releases and hot fixes
- Initiate a Chat to submit a question to a Customer Care analyst online

Attention: For more information regarding Deltek Support Center, refer to the online help available from the Web site.

Access Deltek Support Center

To access the Deltek Support Center:

1. Go to https://deltek.custhelp.com.
2. Enter your Deltek Support Center **Username** and **Password**.
3. Click **Login**.

Note: If you forget your username or password, you can click the **Need Help?** button on the login screen for help.

Available Documentation for this Release

You can download Installation and other guides in the Deltek Support Center.

About Deltek

Better software means better projects. Deltek delivers software and information solutions that enable superior levels of project intelligence, management and collaboration. Our industry-focused expertise makes your projects successful and helps you achieve performance that maximizes productivity and revenue. www.deltek.com

Deltek