

# Deltek Acumen 6.0

## Historical Release Notes

**December 8, 2014**

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## Overview

Welcome to the Deltek Acumen Historical Release Notes. This guide includes Release Notes from Acumen Fuse 1.0.5 (12/18/2009) through Deltek Acumen 5.1 (6/30/2014).

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The older Release Notes use the Fuse product name. This changed to Deltek Acumen when the company was acquired by Deltek.

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# Deltek Acumen 5.1

**Released — 06/30/2014**

## New Features and Enhancements

This section includes summaries of the new features and enhancements included for this release.

### RiskBook Online Risk Register

When you create risk events in Acumen, you may want others to review them and to provide input about the risk levels and impacts. You now have the option to publish your risk register and risk scoring matrix to RiskBook; an Acumen Add-on that uses Kona's cloud-based social collaboration and productivity features.

When you publish a risk register to RiskBook, Kona creates a space for that risk register. A new space is created for each risk register that you publish to RiskBook. All the risks that were in the risk register are published to the Kona space and can be viewed on the Risks tab. You can click on a risk and see a complete risk breakdown, including the values that the risk register owner entered for probability, as well as schedule and cost impacts.

As the owner of the Kona space, you can invite people to the space to add comments and to share their opinions about the risks. For example, you may have listed a very high risk probability whereas others may feel the probability is a medium risk. In addition, you can use the other Kona tabs, such as the Conversations and Tasks tabs, to discuss the risks and to add tasks for others to complete. For example, you may add a task requiring each person in the space to add their own scores to the risk items.

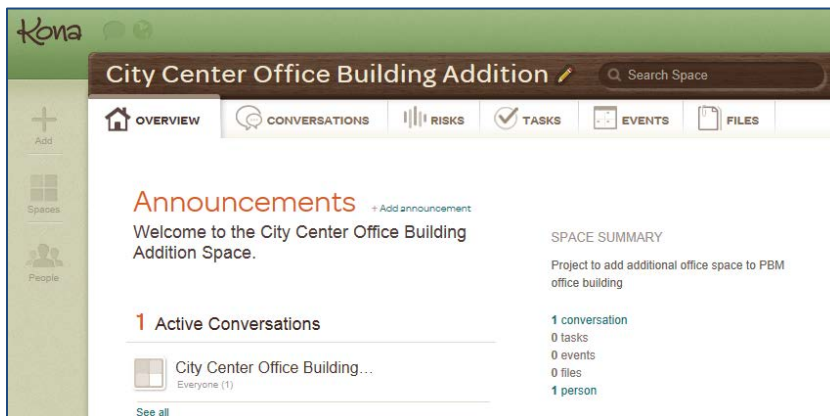
As with other Kona spaces, you have the option to set up space templates. For example, you may want to create a template that includes standard tasks relating to risk register. When you publish to RiskBook, you can select the template which Kona then uses when creating the space.

After everyone has provided feedback, you can export the risk register to an XML file format which can then be imported back into Acumen. You can compare your original risk register with the collaborative version and make any needed adjustments.



The Acumen RiskBook licence includes a Kona Business Account.

### Example of a RiskBook Kona Space





For more information, see *Using RiskBook for Risk Register Collaboration* in the Acumen User Guide.

## Using Absolute Mapping with Risks

Previously, when you mapped a risk event to multiple activities, the risk impact was spread across those activities. Now you have the option to use absolute mapping to allocate the total risk to each activity.

For example, you have the following activities:

Activity	Remaining Duration
Activity A	17d
Activity B	65d

You map a high probability risk with a very high schedule impact to Activity A. **Very High Impact** is set to 120-150 days in the Risk Matrix Template. The risk impact is as follows:

Activity	Remaining Duration	Minimum Duration	Maximum Duration
Activity A	17d	120d	150d

If you map that same risk to Activity B, the risk impact is spread over the two activities as follows:

Activity	Remaining Duration	Minimum Duration	Maximum Duration
Activity A	17d	25d	31d
Activity B	65d	95d	119d

If you map the risk to multiple activities and click **Absolute Mapping**, instead of spreading the risk across both activities, the entire risk impact is allocated to each activity.

Risk							Current		
Enabled	Absolute Mapping	Mapped	ID	Type	Name	Probability	Schedule	Cost	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	R1		Hurricane	Very High	Very High	Very H	

Activity	Remaining Duration	Minimum Duration	Maximum Duration
Activity A	17d	120d	150d
Activity B	65d	120d	150d

## Risk Matrix Template

### Add, Edit, and Delete Custom Impact Types

You can now add, edit, and delete custom event impacts and include a custom prefix and/or suffix.



You cannot edit the default cost and schedule impact types.

Name	% Based	Prefix	Suffix	Very Low	Low	Medium	High	Very High
Schedule	<input type="checkbox"/>		d	<10d	<20d	<30d	<40d	<50d
Cost	<input type="checkbox"/>	\$		<\$5,000,000	<\$10,000,000	<\$15,000,000	<\$20,000,000	<\$25,000,000
Hurricane	<input type="checkbox"/>	*	d	<*50d	<*100d	<*150d	<*200d	<*250d

### Additional Color Threshold Options

You can now use the Color Thresholds slider to increase or decrease the number of color thresholds between 2 and 5. In addition, you can use the color palette to select each threshold color.

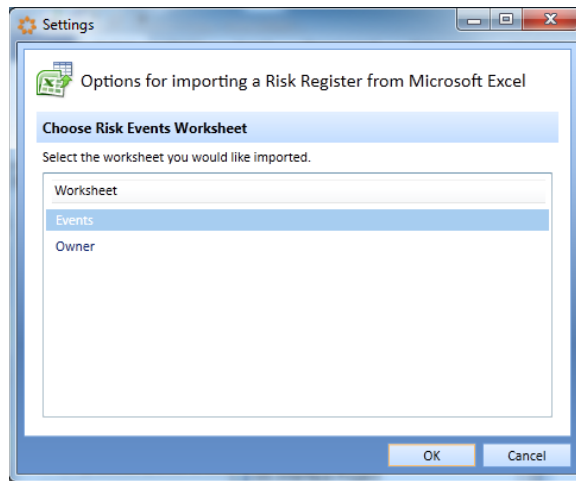
Color	Threshold
Green	<=6
Yellow	<=12
Orange	<=18
Red	>18

Name	Is Enabled
Custom	<input checked="" type="checkbox"/>
Custom Field 1	<input type="checkbox"/>
Custom Field 2	<input type="checkbox"/>
Custom Field 3	<input type="checkbox"/>

## Select Worksheet When Importing an Excel Risk Register

When you import a risk register from Excel, if the workbook that you select to import contains more than one risk register worksheet, a Settings dialog box displays, allowing you to select the worksheet you want to import.



## Activity Browser Maintains Column Customization

In the activity browser, on the S2 // Diagnostics tab, when you change a column width, or use the Field Chooser to select columns and display them in a particular order, Acumen now remembers your column settings and will display them the same way when you next access the workbook.

## Import MS Project External Activities and Additional Fields

### Import External Activities

In Microsoft Project, you can link an activity in another project as a predecessor or successor to an activity in your current project. These external activities display in gray in your current Microsoft project.

You can now import these external activities as part of an MS Project import by setting the **Import external activities** option on the Platforms tab in the Deltek Acumen Options dialog box. The external activities display in gray in the Activities view. If you select one, you can see the predecessor/successor information on the Activity Relationships tab.

These external activities are excluded from Fuse analysis by default; however, you can include them by deselecting the option in the Excluded column next to the activity in the Activity view.

### Import Estimated and Manual Fields

When you import a project from Microsoft Project, Acumen now imports the **Estimated** and **Manual** fields.

## Import Start and Finish Milestones

If your scheduling tool differentiates between start and finish milestones, then, when you import a project, Acumen now maintains that differentiation for metric analysis.

On the S1 // Projects tab, you can use the Field Chooser to add the Activity Type Ex column to see whether a milestone is a **Start Milestone** or a **Finish Milestone**.



## Export Acumen Projects to XER and XML File Format

### Export to Primavera P6 XER File Format

You can now export an Acumen project to a P6 XER file format using the Publish menu. You can export the following entities:

- WBS structure
- Calendars
- Relationships
- Resources, resource assignments, and resource rates
- Activities
- Activity code and user-defined fields

### Export to Microsoft Project XML File Format

You can now export an Acumen project to a Microsoft Project XML file format using the Publish menu. You can export the following entities:

- WBS structure
- Calendars
- Relationships
- Resources and resource assignments
- Activities
- Activity code and user-defined fields

## New Metrics Added to Metrics Library

NASA metrics have been added to the metrics library in the Industry Standards folder on the Metrics tab.

### NASA Health Check Metrics

<ul style="list-style-type: none"> <li>📁 Schedule Status               <ul style="list-style-type: none"> <li>🔗 Current Start</li> <li>🔗 Current Finish</li> <li>🔗 Approx Rem Work Days</li> <li>🔗 External Links</li> <li>🔗 Status Date</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>📁 Task and Milestone Count               <ul style="list-style-type: none"> <li>🔗 Total Tasks and Milestones</li> <li>🔗 Completed Tasks and Milestones</li> <li>🔗 To Go Tasks and Milestones</li> </ul> </li> <li>📁 Additional Schedule Information               <ul style="list-style-type: none"> <li>🔗 Recurring</li> <li>🔗 Schedule Baseline Tasks</li> <li>🔗 Resources</li> <li>🔗 Float &lt;= 10</li> <li>🔗 High Float</li> <li>🔗 Total Tasks</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>📁 Integrity Indicators               <ul style="list-style-type: none"> <li>🔗 Missing Predecessors</li> <li>🔗 Missing Successors</li> <li>🔗 To Go Open Start</li> <li>🔗 To Go Open Finish</li> <li>🔗 Summary Links</li> <li>🔗 Planned Start in the Past</li> <li>🔗 Planned Finish in the Past</li> <li>🔗 Actual Start after Status Date</li> <li>🔗 Actual Finish after Status Date</li> <li>🔗 Milestones with Duration</li> <li>🔗 Estimated Duration</li> <li>🔗 Manual Tasks</li> </ul> </li> </ul>
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- 📁 Constraints
  - 🔗 Total Constraints
  - 🔗 Start No Earlier Than
  - 🔗 Start No Later Than
  - 🔗 Finish No Earlier Than
  - 🔗 Finish No Later Than
  - 🔗 Must Start On
  - 🔗 Must Finish On
  - 🔗 As Late As Possible
  - 🔗 Deadlines
  - 🔗 Mandatory Start
  - 🔗 Mandatory Finish

### Acumen Software Shortcuts in Start Menu Deltek Folder

The Acumen software shortcuts now display within a sub-menu under the Deltek folder in the Start menu.

## Software Issues Resolved (43)

### Oracle Primavera

Deltek Defect Tracking No.	Description
1142	Resources and resource assignments were not imported correctly when importing a P6 XML project.
1183	Labor units and labor costs were not imported when a P6 XML file was imported.
1215	The P6 Web resource assignment was not importing planned and remaining units.
1327	The project Baseline Start/Finish Dates were not being processed when a P6 XML file was imported.
1328	Resume and Suspend dates were not being populated when a P6 XML file was imported.
1332	P6 Web Import was not processing the scheduling mode.
1336	P6 Web Import was not processing project Baseline Start/Finish and Must Finish By dates.
1338	Project Start, Finish, and Baseline dates were not being populated when a P3 file was imported.
1354	P6 XML Import was not processing the scheduling mode.
1394	Resource costs were not imported when a P6 XML file was imported.

- 1395 The default project calendar for both project and summaries was not being imported correctly when a P6 XML file was imported.
- 1539 The Baseline Start/Finish Dates displayed 1/1/0001 when creating a new P6 XER Schedule or Microsoft Project MPP Schedule.
- 1890 The Primavera import was not processing the Planned Units correctly when the regional settings were set to German.

## UN/CEFACT

Deltek Defect Tracking No.	Description
1549	Fixed resource assignments.
1684	During import, some summary activities were placed in the wrong WBS.
1733	Import created a resource for each resource assignment.
1900	Import had issues reading resource assignments.

## Microsoft Project

Deltek Defect Tracking No.	Description
1124	When linking the wrong type of file and selecting the Fields tab, a "File Format is not supported" exception error displayed and the application crashed.
1213	Budgeted units were not imported when importing a Microsoft Project MPP file via native import.
1459	A framework exception error was issued and the application crashed while attempting to import a native MSP project.
1542	The project Baseline Start/Finish Dates displayed 1/1/0001 when importing an MSP project (native or interop).
1750	An exception error displayed when importing an MSP (interop) project containing an external subproject.
1855	The Import Wizard dialog displayed three times when importing the MSP XML file using interop import.
1975	Microsoft Project native import did not process activity baseline start/finish correctly.

## Phoenix Project Manager

Deltek Defect Tracking No.	Description
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- 1334 Project Baseline dates were not populated when importing a Primavera project from Phoenix Project Manager.
- 1339 Resources were not imported when importing a project from Phoenix Project Manager.

## Microsoft Excel

Deltek Defect Tracking No.	Description
1734	Activities were not imported correctly if the column headers contained an apostrophe when importing a Microsoft Excel file.

## Open Plan

Deltek Defect Tracking No.	Description
1719	The Open Plan import was not processing dates correctly when the computer locale was set to German.

## Security

Deltek Defect Tracking No.	Description
1527	Improper neutralization of special elements was used in an OS command.
1602	A SecureString was not used when handling passwords in memory during a connection to P6 web services.
1603	A SecureString was not used when handling passwords in memory during an Open Plan connection.
1635	There was an uncontrolled search path element during offline license activation.

## General

Deltek Defect Tracking No.	Description
525	Expand/Collapse slider stopped working when running risk analysis with risk register on the left panel.
930	An error displayed when opening a workbook after deleting a scenario with child scenarios.
1185	“Map to All Projects” did not work for projects that came from different files or platforms.
1458	There were intermittent issues when loading the Risk view.

- 1717 The Trace Path window had no title.
- 1730 The Schedule Acceleration screen was not displaying the button when the language was set to Portuguese.
- 1735 The wrong activities were displayed in the Tornado Chart.
- 1839 The risk histogram did not display distribution when you manually entered the probabilities and impacts.
- 1870 The Tornado legend didn't display only those impacts that appeared in the chart.
- 1884 Users were unable to run Risk Analysis if the activities had a negative cost.
- 1921 The performance was adversely affected when a scenario was created in the risk view and the workbook was selected in the projects view.

# Deltak Acumen 5.0.4

**Released — 04/24/2014**

## Software Issues Resolved

- UN/CEFACT Export:
  - CreationDateTime and SubmissionDateTime included time zone notation.
  - <ScheduleTypeCode> displayed the incorrect value.
  - UnitCode for AssociatedProjectWorkShift/EffectiveProjectPeriod/DurationMeasure displayed the incorrect value.
  - Dates in task constraints had a non-zero time-component.
  - WBS codes were reported for summary tasks but not activities.
  - Contractor name was blank.
  - Resources assigned on summary rows were not exported.
  - Resources were not declared prior to assignments.
  - Actual Project End date was being populated.
  - Total Duration did not match Actual Dates for completed tasks.
  - Hour Amount column displayed zeroes for all labor resources.
  - A framework exception error displayed when importing the UN/CEFACT project.
  - UN/CEFACT export repeated resource assignment IDs when a resource was assigned to the same activity more than once.
- Primavera 6:
  - P6 XER baseline dates were not imported correctly when the planned values option was selected.
  - P6 web import timeout failed (Costain).
  - Oracle P6 XER projects were not imported when the Import link was selected, both in the Russian and English operating system.
  - The project name displayed question marks and the activity description displayed unreadable characters when using the "Oracle Primavera » All Projects From a P6 XER File as a Single Project" import option.
  - CPM was not calculating ALAP constraints correctly for P6 web and P6 xml files.
- Deltak Open Plan:
  - Finish target dates were not imported from Open Plan when the Start target dates were defined.
  - Open Plan Remaining Work value was not imported into Acumen correctly.
  - Open Plan Labor Budget Unit was not linked by default to Acumen's Baseline Work.
  - Open Plan import did not process the scheduling mode correctly.
  - When an Open Plan project that contained a resource without a description was imported, the Resource Name was not populated in Acumen.
  - Open Plan import performance was three times slower than usual.

- Negative Total Float was not calculated correctly when importing an Open Plan schedule.
- A "Value does not fall within Expected Range" error displayed when importing an Open Plan activity with negative duration.
- Deltek Cobra:
  - BCWS, BCWP, and ACWP were not imported on newer Cobra cap files.
- Microsoft Project:
  - "Is Recurring" values were not displayed correctly when importing from Microsoft Project using native mode.
  - An error displayed when you imported an MSP project with the text that Microsoft Project displays next to morning hours in the 12-hour time format set to nothing.
- General:
  - Trace Path displayed projects that had been deleted.
  - The Project column displayed twice in the Compare dialog.
  - Tornado for project or summaries did not display in projects without a "last activity."
  - An old version of a workbook that contained scenarios would not open.
  - The Export Scenario option was available from the context menu when selecting the project node.
  - "The workbook is corrupted" error message displayed when opening a workbook that had a grid grouped by fields using ID, WBS Name, or WBS Code.
  - An error displayed when running risk analysis on a schedule that needed to be rescheduled and was not in WBS mode.
  - The Critical Activity Definition label was incorrect.
  - Activity schedule contribution was incorrectly calculated for activities with ALAP constraints.
  - Predecessors of ALAP activities that were not driving due to constraint were still marked as driving relationships.
- Documentation:
  - A note was added to the User Guide Phoenix Project Manager topic: You cannot run risk analysis on files imported from Primavera Risk Analysis.

## Deltak Acumen 5.0.3

**Released** — 02/07/2014

### New Features

- Activity browser persisting column width, position and visibility and share it at the workbook level.
- Ability to have a field that differentiates start and finish milestones to use it for metric analysis.
- New NEC3 metrics.
- IsEstimated and IsManual fields from MSP mapped automatically into the workbooks.

### Software Issues Resolved

- KeyNotFoundException thrown while exporting Risk Register.
- The UN/CEFACT Import fails for cost estimates.
- The Baseline duration is incorrect when importing project using the MSP “native” import.
- There is no way to select file encoding for XER files before/during the single project import dialog is displayed.
- Risk drivers in "relative" mode displays values flipped when the total exposure is negative.
- Risk driver algorithm using target calendar to calculate uncertainty contribution all the time.
- Erroneous duration contribution assignment on SS and SF links that do not have a constraint in the predecessor.
- Non-fatal exception thrown when MSP XML files with activities missing GUID are imported.
- Unable to move Activity/Gantt Chart divider to the right.
- New Finish Date in Accelerate Schedule dialog displays 01/01/0001.
- Corrupted TableViewSettings in particular workbook.
- Fully detailed event-based risk drivers view does not work while in relative values mode.
- Framework exception is issued and application closes when selecting "Russian" text encoding and the project name is duplicate.
- Framework exception error "Illegal Sheet Index" is issued when importing the snapshot.
- Framework exception "The method or operation is not implemented" is issued and application is crashing when publishing to UN/CEFACT Microsoft Excel project.
- Unable to link Open Plan project to a workbook.
- Error message "The project contains activities with duplicate IDs" is issued when selecting the checkbox for a newly added activity.
- Framework exception "There is at least a cycle in the schedule..." is issued and application crashes when adding a New Activity.
- Risk driver chart rounding error on duration contribution assignments segments to threats and opportunities when the impact less than a day.



- Risk driver chart using wrong calendar to calculate impact for calendar events and calendar windows.
- Wrong duration contribution attributed to FF driving predecessors which Finish is not driven by duration.
- Extra projects are imported into Acumen when importing from Oracle P6 XER file.
- "Application exception importing CLEAN" error message is issued when importing project from OP3.1.
- P3 Import is reading actual/early/late finish dates incorrectly.
- Fuse analysis is failing when there is a field named "R."
- All relationships imported as SF and no lags when OP 3.1 is installed.
- Fatal exception thrown when trying to add Px values to the histogram when activities are grouped by field.
- Open Plan dates with an hour component of 24:00 are not imported into Acumen.

## Delttek Acumen 5.0.2

**Released** — 12/16/2013

### Enhancements

- Correlation column to be present by default in the Risk view for cost estimates.
- Ability to type in a percentage as whole number (not as a decimal) in the event template editor.
- Option to display the project Id as a column in activity list in both the project and risk view.

### Software Issues Resolved

- Application hangs while creating a scenario on an Open Plan project without time now.
- Expand/Collapse slider stops working when running risk analysis with risk register on the left panel.
- Cannot go to Risk view, Diagnostics, Logic, Benchmarking, Dashboard if there are only cost estimates in the workbook.
- Event template editor not working correctly on culture with comma as decimal separator.
- Risk analysis fails if the combination of workbook and project name is longer than 255 characters.
- Expand/Collapse slider stops working when running risk analysis with risk register on the left panel and activities on the right panel.
- Non-fatal exception thrown when an activity is correlated but it does not have uncertainty
- The Gantt chart is displayed by default for cost estimates.
- Crash when editing the ID or Description of a WBS.
- Wrong Px finish values for project during risk analysis.
- Primavera P6 web import does not work when the database contains a large amount of codes and/or calendars.
- Wrong Start/Finish Dates on the newly created scenario when Scheduling Mode based on Actual Dates.
- Unable to modify Primary/Secondary Date values or Copy/Paste.
- Error message "Specified method is not supported" when renaming Activity ID.
- When assigning a baseline to a project, if an activity is present in the project but not in the baseline, it still gets assigned a Baseline Start and Baseline Finish.
- When importing P6 Resource Assignments, if any budgeted units values are not there, the import fails.
- Fuse analysis fails when there is a field named "C."
- Phase analyzer is adding down the values for scenarios.
- Null reference exception thrown by "CanCopyActivityBrowserToClipboard."
- IOException non-fatal exception thrown during excel export if the file is being used by a different process.

- Logic sensitivity is not disabled when there are no projects in the list.
- Wrong min, max and most likely values for OP import.
- Schedule Cleanser is not converting lags correctly when the lags are in progress.
- UN/CEFACT export bugs:
  - Dates have non-zero time component.
  - Task relationship ID's have incorrect format: REL\_[n].
  - Project ID referenced from tasks ("0") does not match ID declared for project ("1").
  - Task names must be unique.
  - Invalid BaselineScheduledBasePeriod/Description value: "baseline."
  - listID, listVersionID, & listAgencyID attributes are fixed (and thus optional) but should be reported as a group.
  - Submission date is 1/1/0001.
  - Some activities are missing predecessors or successors, but are not labeled as start/finish activities.
- Exception thrown by MPP native import while importing an enterprise field with a null value.
- Crash when opening certain workbooks with snapshots.
- Open Plan import uses OP user defined "project start" as the Acumen project start.
- Exception thrown the second time the scatter chart is displayed.
- The exception error "The given key was not present in the dictionary" is issued and application crashes when exporting as UN/CEFACT.
- Correlation window not showing children/parent when using cost correlation.
- Slow performance while running risk analysis.
- "Object reference not set to an instance of an object" is issued and application is crashing when deleting "Cost Estimate" project.
- Error Message "Cycle" is displayed when moving the correlated activity to the Correlated Activities pane.
- Wrong CPM dates when running risk analysis with weather events/calendars on activities that span on a working day that is an calendar exception.
- User is currently allowed to use "Excluded" checkboxes for non-activity rows in S1.
- Duplicate WBS names will break ribbon and intersection diagnostics.

# Delttek Acumen 5.0.1

**Released — 11/15/2013**

## Additions

- Ability to drag the expansion level slider and apply its value during release.
- Ability to paste uncertainty values from Excel into the risk view in flat mode.

## Software Issues Resolved

- Discrepancy between costs in OPP and Acumen when resource is assigned to the summary (parent) activity.
- Circular logic check is not ignoring relationships from/to LOEs.
- Please wait message displayed when the search row is selected in the Redundancy Index module.
- Exceptions thrown:
  - During CPM operations with a certain MPP file imported using the native import.
  - While trying to run installer for MSP toolbar when user permissions do not allow it.
  - When importing project from a P6 XML file and the file is truncated.
  - When selecting the timeline checkbox in the Activity view.
  - When attempted to “Export as UN/CEFACT” Primavera Risk Analysis projects.
  - Running risk analysis grouping by field.
  - When SmartGantt color scheme is field, and no field is selected in the dropdown.
- Non-fatal exception “Value cannot be null” is issued when importing Standard Excel File.
- Non-fatal exception thrown when trying to create a folder that is not available (network folder) during initial setup for sample files.
- Non-fatal exception thrown when importing a Microsoft Project file thru Interop and Microsoft Project takes a long time to load and load codes and UDFs is enabled by default.
- Different GUI adjustments.
- The ID and Description fields are not refreshing properly when modifying the Description in Project Information.
- Cannot open workbooks created from Acumen 5.0 in a computer with a different platform (x86 vs x64).
- SmartGantt colors not working properly when selecting Field/Metric from the menu, then selecting a different color scheme in the dialog window.
- Predecessors incorrectly marked as driving during CPM when activity dates are not driven by predecessors or constraints.
- User has to perform multiple clicks on checkbox to map activities to risk event.
- Primavera P6 XER import failing with Russian-encoded files that contain Cyrillic characters in the Project ID.

- "System.Exception" is displayed in Ribbon Analyzer for all metrics that contains "N/A" when publishing to excel.
- Activity Table in Projects/Risk view reverts back to fit to 1 page after the user changes the settings.

# Deltek Acumen 5.0.0

**Released — 10/21/2013**

## Additions

- Ability to:
  - Display the activity details as tabs.
  - Hide empty summaries in the activity treeviews.
  - Edit min, max, most likely and mean % for duration and cost uncertainty.
  - Create a new cost estimate within Deltek Acumen:
    - Add/remove activities within the cost estimate.
    - Modify ID, Description, WBS, Remaining Cost and Actual Cost for activities.
    - Create, delete and modify WBSs.
  - Map actual and remaining cost during cobra import.
  - Create new Microsoft Project (MPP) and Primavera P6 (XER) schedules or edit them through scenarios:
    - Create new normal activities.
    - Create new milestone activities.
    - Delete activities.
    - Create, delete and modify WBSs.
    - Create, delete and modify relationships.
    - Modify the scheduling mode.
    - Modify the project time now and auto-progress activities.
    - Set to modify activities:
      - Actual Start / Finish
      - ID
      - Description
      - Remaining Duration
      - Primary / Secondary Constraint Type
      - Primary / Secondary Constraint Date
      - WBS
      - Calendar
- Checks are run on distributions before running risk analysis.
- Cost risk analysis on Cobra and Prism G2 files.
- Cobra import builds structure based on CAP report.
- Added Schedule Realism Advisor.
- Added option to convert summary links to normal activity links.

- IntelliGantt — Ability to:
  - Display Gantt chart bars using different attributes as color.
  - Display Gantt chart bars using different attributes as start / finish dates.
  - Display one or two independent bars in the Gantt chart.
  - Display a float bar per bar.
  - Display a progress bar per bar.
  - Print the Gantt chart.
  - Create IntelliGantt filters from the forensics view.
  - Create IntelliGantt filters from the diagnostics view.

## Changes

- Updated EULA.

## Enhancements

- Improved native Microsoft Project MPP file support.
- Open plan import defaults project start to minimum activity start if not present.
- Ability to create a scenario for users without 360 licenses.
- Improved phase analyzer charts.
- Ability to update the original path of a project for re-importing.
- Improved performance while validating XER files before import.
- Uncertainty and logic bars are displayed using a different color than the rest when the risk drivers are set in “risk event” mode.
- Improved support for summary links during CPM analysis.
- Risk matrix icon now displays a list of mapped risks.
- Improved display of modified relationships in the forensics view.
- Added tooltips to the risk driver bars.

## Software Issues Resolved

- Compatibility issues with Open Plan versions older than v3.2.
- Activity grouping maximum level of expansion not being displayed in risk view.
- Wrong error displayed trying to re-import a file that is no longer available.
- Wrong ES/EF/LS/LF when processing P6 mandatory start and mandatory finish constraints in the past.
- Diagnostics publish to excel not formatting analyzer cell results correctly when they contain dates.
- Default calendar not being set by Microsoft Project import.
- Incorrect start/finish for activities with ALAP constraints after importing from MSP.
- Different UI bugs in the print preview for the activity grids.
- Crash while copying diagnostics view charts to the clipboard.

- Risk register import not importing probabilities correctly.
- Different fixes for the UN/CEFACT import and export.
- LOEs and complete activities taken into account into duration contribution calculations.
- UI glitch while saving data to XML for the API.
- Duration cell in risk event table can show weird value when switching between absolute and relative modes.
- Scenario project cost is not independent from the original project cost.
- Wrong symbol for cost mappings when using percentage based impact.
- Activity browser excel export doesn't export risk output fields.
- Excel cost estimates not working on the ribbon analyzer.
- Occasional duplicate key exception while importing P6 web files.
- Crash when importing from Active MSP when MSP has active modal dialog.
- DCMA 14 pt fails on 12 Critical Path Test if there is Circular logic.
- Crash when risk mapped to activity that no longer exists in updated schedule.
- Scatter chart not displaying activities in activity list when a project does not contain WBS structure.
- Cost/schedule overlay selection window not displaying activities when the project doesn't have a WBS structure.
- System.ArgumentNullException on Microsoft Project interop Import when a project is missing the currency symbol.
- KeyNotFoundException during excel merge Microsoft Project import when a merged cell contains no values.



# Deltek Acumen 4.3.0

**Released** — 07/25/2013

## Changes

- Updated:
  - EULA.
  - Copyright notice.
  - Product names.
  - Logo and splash screen.

## Enhancements

- Improved native Microsoft Project MPP file support.

## Software Issues Resolved

- Compatibility issues with Open Plan versions different than v3.3.
- Crash while importing multiple native Microsoft Project MPP files that have tasks with the same UniqueID using “Import All.”

## Fuse 4.2.1

**Released — 06/04/2013**

### Enhancements

- Benchmarking filters population based on project characteristics.

### Software Issues Resolved

- Issue trying to generate custom reports.
- Compatibility issues with Open Plan older version (for example, v3.1).

## Fuse 4.2.0

**Released — 05/31/2013**

### Additions

- Ability to:
  - Change the culture independent from the computer settings.
  - Run logic sensitivity on milestone activities.
  - Apply cost/schedule overlay on milestones.
  - Accelerate and cleanse scenarios.
  - Accelerate, cleanse and run risk analysis on Deltek OpenPlan schedules.
- Elapsed duration column for risk and projects view.

### Enhancements

- Support for Microsoft Project elapsed durations.
- Support for Microsoft Project custom activity and project level enterprise fields.
- Support for Phoenix compressed files.
- Deltek Open Plan import improved performance.
- Improved native Microsoft Project import.
- Improved diagnostics charting.
- Additional uncertainty template buckets.

### Changes

- Different tweaks in the risk view columns.

### Software Issues Resolved

- Sporadic Invalid Operation Exception thrown while running risk analysis.
- Null Reference Exception thrown while refreshing event scores.
- Wrong percent complete values for Primavera XER in-progress activities with baseline durations of 0.
- Exclusion of LOE activities in summary cost calculations.
- Sorting activities in table mode in the projects or risk view freezes the application.
- Crash when trying to open or save a workbook when the initial directory uses a relative path.
- Crash when trying to open or save a workbook when the initial directory is no longer available.
- Sporadic Not Supported Exception while creating reports.
- Native Microsoft Project import stopping if a code field value is missing.
- Crash when creating a scenario based on schedule without WBS structure.

- Crash when grouping activities by a field that contains no values.
- Wrong currency in the risk drivers cost chart in events mode.
- Project information tab not following the long date format setting.
- Correlation window crashing when there is no WBS structure.
- Phoenix import crashing when importing a file that defines activity codes with no values.
- Workbook corruption when converting a snapshot to a project.
- PRISM G2 import not mapping ACWP automatically.
- Long date format not working correctly for dates when the hour is 12 AM.
- Crash while calculating a finish date that falls in the same day where the activity is suspended.
- Wrong results when comparing a field to a date using variables, for fields that are not ES, EF, LS, LF, S or F.
- Date properties showing time in dates in details activity browser even when setting is off.
- New windows not inheriting main window culture/language.
- Acceleration window disappearing if user chooses to add result and try a different script.

## Fuse 4.1.5

**Released — 04/16/2013**

### Additions

- Import/Export calendar events and windows through Excel.
- User defined risk uncertainty correlation.
- Added Excel cost estimate file creation from Fuse.
- Risk scatter chart.
- Added Start, Cost, Float and Duration Risk Range Factors for Risk Exposure.

### Enhancements

- Improved:
  - Cost/schedule integration
  - Central Limit Theorem correction
  - Cost value formatting for risk charts
- Project and risk activity views now persist the individual node expansion status, current row, current column, filters, sort order and column width.
- Addition of Pvalues through the risk exposure histogram.

### Changes

- Updated GAO metrics.
- Default columns for Risk view.

### Software Issues Resolved

- Logic Sensitivity not running when the nudge duration is less than 100 days.
- Dashboard ribbon view widget displaying always .
- Sporadic wrong project start/finish dates for open plan.
- Cost estimates prompting user for CPM before running a Monte Carlo analysis.
- Risk event matrix allowing multiple probability with the same description.
- Risk event activity assignments not updating automatically when the impacts in the risk event matrix are updated.
- Ribbon analyzer not allowing user to delete recently added metrics.
- Sporadic KeyNotFoundException running the risk advisor.
- Sporadic InvalidOperationException running the risk advisor.
- Risk advisor results not persisted in the workbook.
- Risk advisor settings not persisted in the workbook.
- Apply uncertainty template changes applies changes to all projects in the workbook.

## Fuse 4.1.0

**Released — 03/15/2013**

### Additions

- Risk adviser.
- Calendar risk event analysis.
- Calendar risk window analysis.
- Single ribbon mode in diagnostics view.
- Option exchange panels in the risk view.
- Option to disable risk events.
- Trend Analysis.
- Option to create a Pvalue scenario based on a risk analysis.
- Logic sensitivity analysis.
- DCMA #12 metric.
- Option to copy risk tornado to clipboard.
- Minimum and maximum probability of impact for risk events.
- Minimum and maximum impact for risk events.
- Option to assign risk events to milestones.
- Phoenix Project Manager XML files import support.
- Risk event impact and probability sampled during risk analysis.

### Enhancements

- Option to merge Excel files using fields different than ID.
- Activity-Risk Event mapping detail always displayed in the left risk view panel.
- Performance improvements when closing big workbooks after a risk analysis.
- Risk register grid persists sorting, grouping, column width and current selected item.
- Improved performance for Schedule Cleanser.
- Support for *Actual Dates* and *Retained Logic* Primavera P6 CPM mode.
- Support for *Split In-Progress Task* Microsoft Project CPM mode.
- SPI(t) formula.
- Additional fields available for UN/CEFACT cost schedule schema.
- Option to automatically load subprojects for Deltek Open Plan import.
- Improved Open Plan import performance (4 to 5 times faster than Fuse 4.0).

### Changes

- Updated GAO metrics.

## Software Issues Resolved

- Microsoft Project native import not processing suspend/resume dates correctly.
- Finish milestones not being displayed in the gantt chart.
- Microsoft Project native and interop import not processing monthly exceptions by position correctly.
- Single phase interval in diagnostics view excludes the last activity.
- Creating reports after re-importing files does not refresh the diagnostics view.
- Crash when accelerating schedule after a risk analysis.
- Primavera P6 XER import not processing PV correctly when there is a baseline present.
- Primavera P6 XER import does not take into account filters when importing a multi-project XER as a single project.
- CPM crashes when suspend and resume dates are the same.
- Metric library tree locks up when using the mouse wheel on certain computers.
- Crash on Deltek Cobra 5.1 import when importing a file with a column name change in the data worksheet.
- Cost/Schedule impact overlays get erased when the cost file is re-imported.

## Fuse 4.0.3

**Released — 12/21/2012**

### Additions

- Option to hide/show the histogram legend.
- Range and risk range factor values to histogram.
- Option to align time now when importing a multi-project Primavera XER file as a single project.
- Option to display ID, Description or both for tornado bars.
- Option to add additional risk distribution to the risk distribution templates.
- UN/CEFACT support for Cost-Schedule schema.
- Event based tornado.

### Enhancements

- Cost/Schedule integration assignments can be refreshed.
- Primavera XER external predecessor and successor dates.
- CPM performance improvements.
- Duration contribution performance improvements.
- Risk view column addition performance improvements.
- Uncertainty inputs chart is driven by the current selected activity or group of activities.
- Improve native Microsoft Project MPP support.
- Microsoft Project summaries are imported as the WBS structure.

### Changes

- Risk view right panel gets reset while changing between projects.
- Only the Office 2007 blue theme is supported.
- Search row uses “contains” type of search instead of “starts with.”
- No decimals displayed for with decimals.
- Uncertainty inputs chart takes into account only non-complete activities.

### Software Issues Resolved

- PERT/Normal schedule normalization uses original project values when applied to a scenario.
- Different typos.
- Various metric fixes.
- Primavera XER export corrupts files if activities are converted to lags.
- Primavera XER lags not following the “use assigned calendar” setting.
- Logic view not updating after a change in the “use assigned calendar” setting.



- Forensic dashboard widget showing wrong percentages.
- Tornado labels not wrapping.
- Crash on histogram when a row does have a finish date.
- Diagnostics view spreading certain baseline metrics incorrectly.
- P3 not importing code fields for certain files.
- Project baseline start, baseline finish, baseline duration, remaining duration and actual duration values are incorrect sometimes.
- Crash when in histogram mode and the filter row is selected.
- Crash when closing calibration template window using the application menu.
- During a project rename the new project name does not get updated across the tool.
- Cost values are not being copied over when a scenario is created.
- Activities created by converting lags not persisting with the workbook.
- Load default mapping crashes when a scenario is present in the workbook.
- Forensic crashing after a risk analysis if the risk view is in gantt mode.
- Primavera XER import throws an exception when a XER file contains invalid calendar data.
- Risk outputs for big projects not being saved correctly with the workbook.
- Microsoft Project MPP interop import not importing 24 hour shifts correctly.
- Primavera XER import not processing double quotes correctly.

## Fuse 4.0.1

**Released — 10/29/2012**

### Additions

- Display ID, description or both in the timeline view.
- Select all, deselect all and clear project filters.
- Exclude/include activities in the Fuse and Cloud analysis.
- Display the risk ID in the tornado.
- Primavera XER Variance BL Start and Variance BL Finish fields.
- Duration and Cost contribution based on Pvalues.

### Enhancements

- Improved:
  - P6 web import performance while importing external relationships.
  - CPM performance.
  - Risk register performance.
- Extended color palette for risk tornado.

### Changes

- Activities in the timeline are now ordered by remaining duration.
- Titles are enabled by default in the timeline view.
- The gantt chart is hidden by default when activities and in the right panel of the risk view.
- Risk cannot be assigned to complete or level of effort activities.

### Software Issues Resolved

- Crash during P6 web import when the EPS structure is empty.
- Sporadic crash when trying to add column to the risk/projects view.
- P6 web and XER import not importing inherited calendar exceptions from base calendars.
- Crash after creating cost scenario from risk view.
- Sporadic crash when running comparisons in the diagnostics view.
- Crash during Pertmaster interop import when Pertmaster has a dialog window open.
- P6 XER import not importing BCWS correctly.
- Crash during histogram analysis if the selected summary is empty.
- Risk matrix not being saved with the workbook.
- Crash when running scheduler cleanser when another project in the same workbook has risk outputs.
- Timeline checkbox does not adhere to project filters.

- Contingency value positive/negative value and rounding errors.
- Tornado slider getting overridden occasionally by a previous operation.
- Histogram and Tornado displaying wrong titles and not wrapping.
- Risk outputs and risk register not being copied when a scenario is created.
- Tornado total values not showing currency symbol.
- Date format broken after opening a workbook with a currency format different than the computer locale.
- P6 XER import rounding down lags to the hour.
- First Monte Carlo iteration ignored for duration contribution.
- Risk Register matrix auto-range does not calculate based on currently selected project.
- Project hours/day not being copied over when a scenario is created from another scenario or a snapshot.
- Risk Register import crashes when importing an impact that does not have a risk associated with it.
- Excel import imports a blank activity and a blank WBS when there is an empty row.

# Fuse 4.0.0

**Released — 09/30/2012**

## New Features

- Acumen Risk, new product.

## Enhancements

- General:
  - Adds language support for Spanish, Italian, Portuguese and Chinese.
  - New activity view that allows summary grouping by WBS or any field.
  - New Gantt chart column on the activity view.
  - New workbook preference to specify currency.
  - Improved CPM performance.
- Projects:
  - Add multiple files to the workbook at once.
  - Multi-project XER files can be now flattened as a single project during import.
  - Allows importing WBS structure from Excel files.
  - Allows importing Primavera P6 projects from Primavera P6 web services through the EPS structure.
  - Allows collapsing of the Explore Fuse panel.
  - Imports sub-project field for Microsoft Project files.
- Acumen 360:
  - New interactive acceleration mode allows on-the-fly hierarchical calibration of activities based on templates.
- Analysis:
  - Allows the ribbon analyzer to optionally evaluate only the activities visible within the ribbon view.
  - Allows the exclusion of activities from the analysis.
  - Allows the annotation of activities based on metrics.
  - Allows the user to manually enter annotations for the activities.
- Metrics:
  - Adds new Expected Finish and Unsatisfied Constraints metrics
  - Tweaks and adds new metrics for risk inputs and outputs.
  - Adds GAO metrics in the default template.
  - Updates DCMA 14 point assessment metrics.

## Software Issues Resolved

- CurrentDomainUnhandledException and ApplicationDispatcherUnhandledException not being logged correctly in the Event Viewer.
- Crash while going from calendar comparison to activity variance in the forensics view.
- Crash while importing XER files with fields that contain a “tab” character.
- Crash while importing XER files that contain activity type constants in all uppercase.
- Cobra activities not being displayed in the analysis view.
- P3 activity status wrongly imported when a baseline is set.
- Improved XER import BCWS calculations.
- Baseline values not being spread accordingly across phases.
- XER import secondary constraint type.
- Improved native Microsoft Project import.
- Sporadic NullReferenceException due to weak references not being properly processed.
- Sporadic ArgumentOutOfRangeException on datagrids.
- Sporadic crash while rendering the ribbon analyzer chart in cumulative mode.
- Ribbons not updating after a project name change.
- XER import crash while importing a file with multiple WBS items with the same database ID.
- Microsoft Project Interop import bug while importing a calendar with a shift that ends at 12:00am.
- Sporadic IOException in multi-user server environments.
- Metrics — Corrects:
  - Work Underrun metric.
  - BAC metric.
  - EAC metric for Cobra.
  - Earned Schedule SV metric.
  - description for Insufficient Detail metric.

## Fuse 3.1.0

**Released** — 03/12/2012

### New Features

- Acumen Cloud.
- Calendar forensics.
- Schedule Cleanser:
  - Lag removal
  - Lead removal
  - Convert lag to activity
  - Specific activities and relationships can be selected to perform a cleanse using tables and filters.
- Primavera XML import support for R7, R8.0 EPPM, R8.1 EPPM and R8.2 EPPM.
- Cobra 5.1 support.
- Metrics variables.

### Enhancements

- General — Several memory usage enhancements.
- Forensics — Publish separate tabs to Excel.
- Dashboard — Several performance enhancements.
- Logic:
  - Circular logic is now at least 36x faster than the previous version.
  - Redundant logic now takes advantage of multi-core processors.
- Analysis — Actuals in the past and remaining in the future are allowed for both cost and work.
- Deltek Cobra:
  - Performance: 15x performance improvement.
  - Enhancement: Additional calculated field Total EAC.
- Performance: Microsoft Project native import is now at least 20% faster than the previous version.

### Software Issues Resolved

- Forensics:
  - Crash if a project contains multiple activities with the same ID.
  - Crash during excel publishing a field contains more than 31 characters.
- Dashboard:
  - Gauges rendering incorrectly on windows resize.
  - Gauges crashing when a value of NaN is assigned.

- Font size dropdown enabled when no widget is selected.
- Logic:
  - Incorrect tooltip for out of sequence.
  - Missing circular logic counts.
- Analysis:
  - Incorrect total and free float loading on the phase analyzer.
- Projects:
  - Sporadic crash when click “deselect all” in the timeline view.
  - Context menu not adding projects to workbook.
  - Trace logic by path sporadically not respecting the drilldown filters.
  - Trace logic by path window bigger than minimum required resolution.
- Import/Export
  - Primavera P3:
    - Invalid time now, project start and project finish dates on certain files.
    - Finish dates appearing on in-progress activities on certain files.
    - Incorrect activity status on certain files.
    - Duplicate relationships on certain files.
    - Previously deleted relationships on certain files.
    - Random Invalid dates for leap years.
  - Primavera P6:
    - Crash importing XER files with calendars containing empty shifts.
    - Crash exporting if the original XER file has been moved or renamed.
    - Incorrect project finish date for certain files.
    - Missing units on resource assignments.
  - Microsoft Project native:
    - Crash importing code fields on certain MPP files.
    - IsActive field not being imported.
    - Project reading exception while importing certain MPP files.
  - Deltek Cobra:
    - Time periods not following the calendars.
    - Incorrect BAC for certain files.

## Fuse 3.0.1

**Released — 11/18/2011**

### Enhancements

- File Imports/Exports:
  - Actual Duration added as a default field.
  - Option to use current or planned dates for Primavera P6 baseline calculations.
- Projects:
  - Workbook level hours/day setting.
- Analysis:
  - Activities are now not being redrawn with every selection when all of them are being displayed.

### Software Issues Resolved

- General:
  - File open dialog crashes under certain scenarios (SE).
  - Potential crash during CPM analysis for Primavera P6 projects with empty WBS summaries.
- API:
  - API XML export crashes on workbooks with Scenarios.
- File Imports/Exports:
  - Primavera P3 import mistakenly reading activity records as deleted under certain circumstances.
  - Primavera P6 XER export not saving the correct lag duration values on lags with certain calendars.
  - MSP native import:
    - Throws a *KeyNotFoundException* when trying to import certain code fields with missing values.
    - Does not process relationships within subprojects.
    - Does not process parent/child activities with the exactly the same WBS correctly.
    - Does not process resource assignments within subprojects.
    - Does not process 24 hour calendars correctly.
    - Adds additional external activities when activities have ties to an external project.
    - Does not process relationships between activities in different subprojects.
    - Does not process relationships between activities in different subprojects.
    - Does not process resource assignments if the activity comparison field is set to GUID, Id or Wbs.
- Projects:



- Missing export icon for scenario context menu.
- Lag acceleration working only up to 50% only.
- Analysis:
  - Microsoft Project activities using GUID do not compare properly.
  - Trace Path only shows finishing activity.
  - Ribbon sort is lost after changing the ribbon grouping or filtering.
  - Trace logic compounds filters on activities that are in the path.
  - Trace logic backwards sporadic crash, while trying to bring activity into view on the activity browser.
  - Executive briefing not adhering to the “display empty ribbons” option.
- Dashboard:
  - Crash when an empty chart is clicked.
- Forensics:
  - Percent Complete not being calculated in the forensics tab.
  - Boolean value fields not being calculated in the forensics tab.
- Script Editor:
  - Repeated WBS trees.
- Fields:
  - Map to all fields crashes if there is a snapshot currently present in the workbook.

## Fuse 3.0.0

**Released — 10/18/2011**

### New Features

- Ares Prism G2 project import
- Projects:
  - Schedule Acceleration
  - Schedule Cleanser
  - Time Line
  - Activity Type, Activity Status and Critical filters
  - Export back to Primavera P6 and Microsoft Project
- Analysis:
  - Trace Logic
  - Show relationships
  - Highlight current activity
- Scripts and criteria
- Type-in filters for activity browser, projects view and other tables.

### Enhancements

- File Imports:
  - MSP native import searches for subprojects in the master file folder in addition to the original location.
  - Added New P6 fields such as Actual Duration, CPI – Labor Units, SPI – Labor Units and Schedule % Complete.
- Analysis buttons rearranged.
- Added external links to logic analyzer excel export.
- Improved forensics performance.
- Metrics:
  - Metrics and metric groups can be dragged and dropped around the metric library for rearrangement.
  - Added new metrics across the board including Earned Value Work.

### Software Issues Resolved

- File Imports:
  - P3 import filling up baseline date fields for activities without baseline.
  - P6 crash with XER files with calendar with empty data.
  - P6 crash with XER files with calendar with reversed data.
  - MSP native import filling up user defined duration fields using the wrong format.

- MSP native import truncating user defined outline fields.
- MSP native import crash when a calendar contains yearly exceptions in January.
- Analysis:
  - Activity browser scrollbar drag not working under certain circumstances.
- Metrics
  - Cost, earned value and work metrics not taking into account level of effort activities.
  - Secondary and tripwire formulas not persisting copied filters from primary formula.
- Fields:
  - Crash when clicking on an empty fuse field
- General:
  - Sporadic bug in the phase analyzer when baseline dates are selected as the basis for a metric

## Fuse 2.1.0

**Released — 06/27/2011**

### Additions

- Date basis for metrics can now be set to scheduled (default), baseline or late dates.
- Projects view:
  - Tooltips for projects in the workbook treeview.
  - Option to set a baseline and add it as a snapshot at the same time.
- Analysis view:
  - Different ribbon background between projects, snapshots and scenarios.
  - Thicken the time now line.
- Dashboard view:
  - Added several more layouts to the dashboard view.
  - Added four different views (charts) to the ribbon view widget.
- Forensics view:
  - Option to import code “values” or “descriptions” for XER files.

### Enhancements

- Dashboard view:
  - Improved font size for the schedule quality widget.
  - Clicking ribbon view widget takes the user to the actual ribbon view.
  - Score cell displayed in the ribbon view widget.
- Forensics view:
  - 10x-20x improvement in the forensic analysis performance for large projects.
  - Import external relationships between snapshots for XER files.
  - Project baseline start and finish for Open Plan import.

### Software Issues Resolved

- DCMA metric descriptions.
- Projects View Save As not working after a workbook file has been opened.
- Analysis View default ribbon sort.
- Dashboard View forensic widget progress bar.
- Forensics View:
  - Filters for Microsoft Project native import not working.
  - Filters for Primavera P6 XER import not working.
  - Improved compatibility for Microsoft project native import and MSP 2010 files.
  - Wrong project finish date for Open Plan import.
  - Critical activities in the past for XER files.

## Fuse 2.0.5

**Released — 04/12/2011**

### Additions

- "External" indicator to relationships in the logic analyzer.
- Copy to clipboard functionality (HTML/Excel and CSV) to all activity tables.
- Dangling activities in the logic analyzer (open starts and open finishes).
- Export to Excel XML format to all activity tables.
- Forensic capabilities to excel files.
- Group, size and color represent descriptions to the heat map.
- Multiple layouts to the dashboard.
- Selectable widgets to the dashboard.
- Sorting capabilities for metrics to the ribbon analyzer.
- Spinning wait indicators to the dashboard.
- The ribbon view widget to the dashboard.
- Taskbar progress for Windows 7.

### Enhancements

- Executive briefing to show:
  - Cost information if there is no cost in the workbook.
  - Scorecard information if it is not being shown in the ribbon view.
- Metrics in the ribbon and phase analyzer are now removed using the right-click menu.
- Map standard field to all projects now works with all the projects from the same platform instead of just all the projects from the same file.

### Software Issues Resolved

- Primavera P6 XER import where files using comma as decimal delimiter were not importing correctly.
- UNCEFACT import problem where relationships were not being imported.

## Fuse 2.0

**Released — 03/04/2010**

### Additions

- Added and updated metrics.
- Dashboard.
- Features to the logic analyzer including: all, FS, SS, SF, FF, open ends, out of sequence, cycles, links on summaries, reverse logic, etc.
- Filters and inclusions to the metric editor.
- New sample files.
- Asta Power Project import.
- Auto-fit to the projects and activity browser activity grids.
- Map code and user fields to all projects from a multi project XER.
- Copy to clipboard to ribbon view.
- Themes.
- Feature to expose fields related to the activities:
  - WBS level
  - Successors/predecessor counts
  - Assignments counts
  - Min/max lags.
- Black box to send exception messages to Acumen.

### Enhancements

- Changed total score for scorecard to represent only activities that did not triggered any negative tripwires.
- Improved:
  - Metric editor user interface.
  - UI for the logic and forensic analyzer.
  - UI for the projects view, now cell formats are consistent with the activity browser.
  - Performance and memory footprint:
    - Processing metrics
    - Displaying activities in the activity browser
    - Displaying activities in the projects tab
    - For the XER import
    - Saving and loading workbook files
    - On the redundant logic analyzer
- Tweaked secondary formulas so that their format defaults to percentage.

## Software Issues Resolved

- User interface bug fixed — time now line not clipping to bounds.

## Fuse 1.6

**Released — 10/6/2010**

### Additions

- Functionality to group activities by resource ribbons.
- Functionality to merge project data from Microsoft Excel.
- Functionality to rename ribbon views.
- Microsoft Project 97/2000/2003/2007/2010 native import (no MSP required).
- Oracle Primavera Pertmaster / Risk Analysis XML import.
- Project Phase field for Primavera XER files.
- Score for ribbons in ribbon view.
- Visual activity filter in the ribbon view.

### Enhancements

- Improved:
  - Ribbon view performance.
  - P6 XER import of multiple projects from a single file.
- Updated:
  - Metrics
  - Sample files

### Software Issues Resolved

- Several minor bugs



## Fuse 1.5

**Released — 7/26/2010**

### Additions

- Support to include/exclude project in ribbon analysis.
- Support to show/hide empty ribbons.
- Logic analyzer functionality to show redundant links.
- Microsoft Project Server 2010 support.
- Support for Primavera P6 XER baselines.
- Proxy authentication support for license activation.

### Enhancements

- Enhanced Primavera P6 XER import performance.
- New file format with enhanced performance, memory use and file size.
- Updated engine to add mandatory start and mandatory finish as activity constraints.

### Software Issues Resolved

- Fixed bug when importing code fields from Primavera P6 XER with certain short names.

## Fuse 1.4

**Released — 6/23/2010**

### Additions

- Microsoft Project Server 2007 support.
- Primavera P3 support.
- Functionality to map all User Defined Fields from all projects.
- Functionality to map all Code Fields from all projects.
- Text wrap and vertical slider for ribbon view column headers.
- Functionality to copy, cut and paste metrics and metric groups.
- Confirmation before deleting metrics from analyzers.
- Configuration option to map all code fields by default.
- Configuration option to map all user defined fields by default.
- Analyst report button to ribbon view toolbar.
- Order and sort feature for path analysis ribbons.
- Functionality to create ribbons by a specific interval size.
- Description to code fields in the Primavera Risk Analysis import.

### Enhancements

- Updated different metric formulas in metric library.

## Fuse 1.3.2

**Released** — 5/21/2010

### Additions

- Windows x64 support
- Project 2010 x64 support

### Software Issues Resolved

- Issue communicating with PERTmaster 8.5 or older.
- Issue importing large amounts of fields from OpenPlan.
- Sorting issue with scorecard.
- Wrong percent complete importing from OpenPlan.

## Fuse 1.3

**Released** — 5/14/2010

### Additions

- Forensic report.
- Time now / data date line to ribbons.

### Enhancements

- Improved:
  - Metric library
  - Deltek OpenPlan® import performance
- Heatmap font readability .
- Support for subprojects in Microsoft® Project import.

## Fuse 1.2

**Released — 4/14/2010**

### Additions

- Detailed View in Activity Browser.
- GAO metrics.
- Heat Maps View in Activity Browser.
- Miscellaneous fields.
- Miscellaneous metrics.
- Ability to export the Ribbon View to Excel.
- Ability to map fields automatically using from Excel workbooks.
- Ability to publish Executive Briefing to Word and PDF.
- Ability to set color thresholds on scores.

### Enhancements

- Improved:
  - Activity Selector for Path Ribbons.
  - Primavera P6 import performance.
  - Primavera Risk Analysis performance.
- Support for:
  - Expanding and collapsing the ribbon and phase analyzer.
  - Floating licenses (for example, Terminal Services).
  - Off line license activation.

## Fuse 1.1

**Released — 3/5/2010**

### Additions

- Scorecards
- Metric library templates
- Synchronized activity browser window
- Microsoft® Project toolbar
- Benchmark comparison

### Enhancements

- Enhanced tooltips in fields view.
- Increased number of empty fuse fields available for mapping.

### Software Issues Resolved

- Minor UI Tweaks.
- Incorrect drawing of summary activities on computer environments with comma as decimal separator.
- Crash when creating a new workbook after running fuse analysis using intersection analyzer metric.
- Crash trying to print when a network printer is not available.
- Minor bug in Primavera Risk Analysis import.

## Fuse 1.0.5

**Released** — 12/18/2009

### Additions


- Support for P6 Earned Value data in default mappings.
- Support for MS Project Earned Value data in default mappings.
- Earned Value metrics and fixes to calculations.
- Support for multi-byte character sets.
- Microsoft® Project support for enumeration fields.

### Enhancements

- Improved P6 XER import performance.

### Software Issues Resolved

- Crash when importing Excel files with no mapped fields.
- Crash when trying to validate license on PCs with certain device drivers.
- Bug when opening a file prompts for saving the previous file twice.



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