



Deltek

# Deltek Cobra® 8.4

Release Notes

**February 24, 2021**

Revised: February 5, 2024



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This edition published February 2021.

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## Overview

Welcome to Deltek Cobra 8.4 Release Notes. These release notes contain a summary of the following:

- New Features and Enhancements
- Software Issues Resolved
- Database Changes

## Viewing the Online Help

If you use Internet Explorer and the online help does not display correctly, you need to turn off Compatibility View for the browser. Click **Tools » Compatibility View settings**, and clear the **Display intranet sites in Compatibility View** check box. Then refresh the browser. Make sure you remove deltek.com (if listed) from the **Websites you have added to Compatibility View** list. You could also elect to use hosted help or the FQDN of your server in the URL (for example, server.domain) to bypass this issue. The Cobra 8.4 Help System URL is <https://help.deltek.com/Product/Cobra/8.4/GA>.

Depending on your Internet Explorer security settings, you may be prompted to “**Allow blocked content**” when viewing the Cobra Online Help locally. This only affects Internet Explorer.

You may also access the online help using Edge, Chrome, and Firefox.

## Integration with PM Compass

If you have upgraded from one version of Cobra to another and are using PM Compass, ensure that you install the most recent version of the Cobra Integration for PM Compass file that was released prior to or at the same time as the PM Compass Cumulative Update that you are using on your PM Compass server.

To further explain this scenario, refer to the following table, which summarizes the Cobra 8.5 Integration for PM Compass files released for PM Compass 8.4 Cumulative Updates.

PM Compass 8.4 Cumulative Update (CU)	Cobra 8.5 for PM Compass 8.4 Integration File
PM Compass 8.4 CU 05	No new integration file
PM Compass 8.4 CU 04	No new integration file
PM Compass 8.4 CU 03	Deltek Cobra 8.5 Integration for PM Compass 8.4_8.5.0704.3469
PM Compass 8.4 CU 02	Deltek Cobra 8.5 Integration for PM Compass 8.4_8.5.0703.3448
PM Compass 8.4 CU 01	Deltek Cobra 8.5 Integration for PM Compass 8.4_8.5.0702.3430

If you have upgraded from Cobra 8.4 to 8.5 and are using PM Compass 8.4 CU 04, you should note that no new integration file was released at the same time as PM Compass 8.4 CU 04. However, there was an integration file released prior to it, which is Deltek Cobra 8.5 Integration for PM Compass 8.4\_8.5.0704.3469. To ensure that PM Compass integration with Cobra works correctly, you must install this version on your PM Compass Process server.

**Attention:** For more information on the PM Compass Cumulative Updates and Integration Releases, download the related document from the [Deltek Support Center](#) site. If you have any questions, contact a Deltek Customer Success analyst.

# New Features and Enhancements

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

## Extend the Number of Codes Defined in a Project

To provide more flexibility in using codes for reporting, Cobra now allows you to define a maximum of 20 control account codes and 20 work package codes (from previously 9 codes).

Project Properties - Demo

Project: Demo

General Contract Information Budget Fields Files Classes Cost Sets Code Assignments Sub-Projects Preferences Access Control Open Status

Prompt: Code File: Demo WBS

Control Account Field 1: WBS Code File: Demo OBS

Control Account Field 2: OBS

Control Account Field 3: I

Work Package Field: WP

CAM: Code Field Type: Manager

Change Number: <none>

Number	Prompt	Code Field Type	Code File
1		<none>	
2		<none>	
3		<none>	
4		<none>	
5		<none>	
6		<none>	
7		<none>	
8		<none>	
9		<none>	
10		<none>	
11		<none>	
12		<none>	
13		<none>	
14		<none>	
15		<none>	
16		<none>	
17		<none>	
18		<none>	
19		<none>	
20		<none>	

Help OK Cancel Apply

*Fields Tab of the Project Properties Dialog Box*

This feature is implemented in the following areas of Cobra:

### Fields Tab of the Project Properties Dialog Box

- You can define a maximum of 20 codes on the Control Account Codes tab.
- You can define a maximum of 20 codes on the Work Package Codes tab.

### Fields Page of the New Project Wizard

- You can define a maximum of 20 codes on the Control Account Codes tab.
- You can define a maximum of 20 codes on the Work Package Codes tab.

## Project View

- You can insert a maximum of 20 control account code columns in the Spreadsheet pane and on the Codes tab.
- You can insert a maximum of 20 work package code columns in the Spreadsheet pane and on the Codes tab.
- The same implementation and validation for Control Account (CA) and Work Package (WP) Codes 1 to 20 apply when:
  - Sorting and filtering the Spreadsheet pane
  - Editing the Spreadsheet pane or the Codes tab
  - Loading and saving a view
  - Using the Find function in the Spreadsheet pane

## Add Control Account Dialog Box

- The Control Account code assignments grid displays a maximum of 20 control account codes that you define on the Fields tab of the Project Properties dialog box.

## Add Work Package Dialog Box

- The Work Package code assignments grid displays a maximum of 20 work package codes that you define on the Fields tab of the Project Properties dialog box.

## Copy, Move, and Rename Control Account or Work Package

Cobra now supports control account and work package codes 1 to 20 when moving, copying, or renaming control accounts or work packages.

## Saving a Project

The Save As dialog box now supports saving a new project that contained a maximum of 20 control account codes and 20 work package codes. The same implementation applies when you select the **Copy Project Data** option on the dialog box.

## Process Wizards

The Criteria page or the Criteria Selection page of the following process wizards now supports control account and work package codes 1 to 20 in the **Criteria** field:

- Reclass
- Respread
- Recalc
- Replan
- Top Down Planning
- Update Codes



**Note:** Control account codes and work package codes 1 to 20 are also supported when you run the Recalc, Respread, Reclass, or Replan process through the API and the Cobra Web Service.

## wInsight Wizard

The following pages of the wInsight wizard have been updated to support control account codes and work package codes 1 to 20:

- Export Structures page
- Link Structures page
- Control Account Codes page
- Work Package Codes page

### Changes to the XML Output File

During the wInsight Export process, the control account (CA) and work package (WP) codes in Cobra are exported to the Elements table in the wInsight database.

In Cobra 8.3, CA Codes 1 to 9 are exported to the C1 to C9 columns in the Elements table of the wInsight database, while WP Codes 1 to 9 are exported to the C10 to C18 columns after the wInsight Export process.

With Cobra now supporting up to 20 control account codes and 20 work package codes in 8.4, the same WP Codes 1 to 9 are also exported to the C1 to C9 columns in the Elements table of the wInsight database.

In the XML output file, the columns information is exported to the <Columns> section. CA Code 1 and WP Code 1 are now placed in C1, CA Code 2 and WP Code 2 are now stored in C2, and so on.

```
<Columns>
<Column id="col1">
<TableID>4</TableID>
<ColName>C1</ColName>
<DataType>5</DataType>
<Length>59</Length>
<SQL>Element.C1</SQL>
<Alias>C1</Alias>
</Column>
</Columns>
```

**Attention:** See the [“Columns Section of the XML File”](#) topic in the Cobra Help System.

### Example

#### Project: Demo Advanced

- Control Account Code Field 1 is a code validated field assigned with the Location code file.
- Work Package Code Field 1 is a code validated field assigned with the Charge Number code file.

```
- <Element id="ce19" st_id="st1" cc_id="cc1">
  <WbsNum>1.1.2.1</WbsNum>
  <ElemDesc>Ergonomics</ElemDesc>
  <LongDesc>Ergonomics</LongDesc>
  <ParentID ce_id="ce5"/>
  <ElemLevel>4</ElemLevel>
  <ElemSeq>1</ElemSeq>
  <SortVal>000018</SortVal>
  <ElemType>CA</ElemType>
  <ProjOff>SPENCER</ProjOff>
  <UserDefValue col_id="col1">ATLANTA</UserDefValue>
  <UserDefValue col_id="col2">1.1.2.1</UserDefValue>
  <UserDefValue col_id="col3">TEXT A</UserDefValue>
  <UserDefValue col_id="col4">GRANGER</UserDefValue>
  <UserDefValue col_id="col5">ORANGE</UserDefValue>
  <UserDefValue col_id="col9">C</UserDefValue>
  <UserDefValue col_id="col10">TEXT A</UserDefValue>
  <UserDefValue col_id="col11">ORANGE</UserDefValue>
  <UserDefValue col_id="col15">GRANGER</UserDefValue>
  <UserDefValue col_id="col18">ODIN</UserDefValue>
  <UserDefValue col_id="col19">C</UserDefValue>
  <UserDefValue col_id="col20">1.1.2.1</UserDefValue>
</Element>
```

```
- <Element id="ce20" st_id="st1" cc_id="cc1">
  <WbsNum>1.1.2.1.01</WbsNum>
  <ElemDesc>Experiment Room</ElemDesc>
  <LongDesc>Experiment Room</LongDesc>
  <ParentID ce_id="ce19"/>
  <ElemLevel>5</ElemLevel>
  <ElemSeq>1</ElemSeq>
  <SortVal>000019</SortVal>
  <ElemType>WP</ElemType>
  <EVM>C</EVM>
  <UserDefValue col_id="col1">456822</UserDefValue>
  <UserDefValue col_id="col2">1N</UserDefValue>
  <UserDefValue col_id="col3">PHOENIX</UserDefValue>
  <UserDefValue col_id="col4">WEASLEY</UserDefValue>
  <UserDefValue col_id="col5">WP D</UserDefValue>
  <UserDefValue col_id="col6">ETHIOPIA</UserDefValue>
  <UserDefValue col_id="col7">OPP2</UserDefValue>
  <UserDefValue col_id="col10">WP D</UserDefValue>
  <UserDefValue col_id="col11">PHOENIX</UserDefValue>
  <UserDefValue col_id="col15">1N</UserDefValue>
  <UserDefValue col_id="col18">WINSIGHT</UserDefValue>
  <UserDefValue col_id="col19">ETHIOPIA</UserDefValue>
  <UserDefValue col_id="col20">WEASLEY</UserDefValue>
</Element>
```

## Cost Data Wizard

The following pages of the Cost Data wizard have been updated to support control account codes and work package codes 1 to 20 when generating the Deltek Common Data Exchange (DCDE) file or the Integrated Program Management Data Analysis Report (IPMDAR) file:

- Export Structures page
- Codes and Structures page

**Note:** To support IPMDAR's ability to have 10 custom codes on the control account and work package respectively, you can map any of the 20 Cobra codes to the IPMDAR file.

**Attention:** See the [“Codes and Structures Page of the Cost Data Wizard”](#) topic in the Cobra Help System.

## Integration Wizard

Cobra now supports importing of control account codes and work package codes 1 to 20 when loading data from an import file, Open Plan, Microsoft Project, and Primavera.

## Analyze Utility

Cobra now supports control account codes and work package codes 1 to 20 for project analysis.

## SQL Command Utility

The SQL Command Utility now supports control account codes and work package codes 1 to 20 when using the %c parameter.

## Backup and Restore

Cobra now supports backup and restore of the following files which contain control account codes and work package codes 1 to 20:

- Projects
- Reports and Templates
- Sorts and Filters
- Configurations

## Reports

Cobra now supports control account codes and work package codes 1 to 20 as report criteria in the following areas:

- Sub-Totals page of the Report wizard
- New Filter Expression dialog box of the Report wizard
- The {CriteriaN.CodeAsg[N]} report tag

## Cobra Web Service

Cobra now supports control account codes and work package codes 1 to 20 through the Cobra Web Service.

## Support for a New Forecast Method

You can now create a single forecast class that uses different forecast methods based on codes or progress techniques using the Coded Ranges method.

The new Coded Ranges Forecast method allows users to create a single forecast class that uses multiple methods. This is done by allowing the user to select control account codes, work package codes, or project technique, and assigning a method to each value. When Cobra calculates a forecast using the

Coded Ranges method, it will apply the selected method based on the coding. The end result is that users are able to reduce processing time and data size by using one class.

The new forecast method is added to the **Forecast Method** field on the Forecast Class page of the New Class wizard. Selecting **Coded Ranges** displays the Coded Ranges pane, where you can select a code from the list of saved control account codes, work package codes, or progress techniques using the **Code Field** drop-down list. Populate the Coded Ranges grid by assigning up to three values from the selected code or three progress techniques. And then, map each assigned code value to an existing forecast method (except for Frozen Forecast, Percent Complete Ranges, PF=User Input, and None.) Also, assign an existing forecast method to the **Other** row. Control accounts and work packages that are not assigned one of the values on the first three rows will use the technique assigned to **Other**.

**New Class**

**Forecast Class**  
Select the forecast method, the forecast dates, and other settings (if applicable) for the forecast class.

Forecast Method: Coded Ranges

Forecast Dates: Forecast

Performance factor level: Level01

Code File: Demo OBS

Coded Ranges

Code Field: Control Account.Location

Code Value	Forecast Method
ATLANTA	Manual Forecast (Retain EAC)
HOUSTON	Manual Forecast (Retain ETC)
ORLANDO	PF=1/CPI for last 6 periods
Other	Manual Forecast (Retain ETC)

Help <Back Next> Finish Cancel

*Forecast Class Page the New Class Wizard*

**Attention:** See the [“Forecast Class Page of the New Class Wizard”](#) topic in the Cobra Help System.

When you select the forecast class that uses the Coded Ranges forecast method on the Classes tab of the Project Properties dialog box, the Coded Ranges pane is displayed on the General tab pane below, where you can update the **Code Field**, **Code Value**, and the forecast method for each code.

## New Features and Enhancements

Project Properties - Demo

Project: Demo

General Contract Information Budget Fields Files **Classes** Cost Sets Code Assignments Sub-Projects Preferences Access Control Open Status

Class	Description	Class Type	Level
Actual	Actuals (ACWP)	Actual	Work Package
Budget	Current Budget (BCWS)	Budget	Work Package
Earned	Performed (BCWP)	Progress	Work Package
Stat Frst	1/CPI Cum to date	Forecast	Work Package
Forecast	Performance Factor = 1	Forecast	Work Package
OTB	Over target baseline	Budget	Work Package
Replanned	Replanned Budget	Budget	Work Package
<b>New Class 1</b>	<b>Coded Ranges</b>	<b>Forecast</b>	<b>Work Package</b>

Copy Classes... Delete New...

General Included Progress Classes Included Budget Classes Included Actual Classes

Description: Coded Ranges

Type: Forecast

Level: Work Package

Calendar Set: 00

Rate File: Project Rate File: Demo Rates

Forecast Dates: Forecast

Forecast Method: Coded Ranges

Performance factor level: Level01

Code File: Demo OBS

Code Field: Control Account Location

Code Value Forecast Method

- ATLANTA Manual Forecast (Retain EA)
- HOUSTON Manual Forecast (Retain ETC)
- ORLANDO PF=1/CPI for last 6 periods
- Other Manual Forecast (Retain ETC)

Prevent editing Time Phased Grid

Include in EAC

Suppress calculation of source results

Help OK Cancel Apply

General Tab of the Classes Tab of the Project Properties Dialog Box

**Attention:** See the [“General Tab of the Classes Tab”](#) topic in the Cobra Help System.

When using the Copy Classes function on forecast classes that use Coded Ranges forecast method, the control account and/or work package code fields must be configured similarly on the target project.

**Attention:** See the [“Copy Classes”](#), [“Coded Ranges”](#), and [“Forecast Details Pane”](#) topics in the Cobra Help System.

The same implementation applies when you run the Calculate Forecast process through the application, the API, and the Cobra Web Service, or when you perform save, backup, or restore on projects with forecast classes that use the Coded Ranges forecast method.

## Cobra Web Service Enhancements

The Cobra Web Service now supports the following processes:

- [Deletion of a project, including its calendar](#)

**Note:** When you delete or rename a project, Cobra does not delete or rename the process logs associated with it.

## New Features and Enhancements

- [Deletion of a single or multiple resource assignments](#)
- [Deletion of work packages or multiple work packages](#)

In addition, the deletion of work package process has a setting that allows you to run the update totals process on the control account to which the work package belongs after its deletion. By default, the update totals process is not ran after a work package deletion.

- [Replan](#) (which is also supported through the [API](#))

**Attention:** See the [“Supported Processes and Data”](#) and [“Replan Process”](#) topics in the Cobra Help System.

**Attention:** To display the Web Service Client API Help, click the following link: [Web Services Client API](#). You can also navigate to the `\Help\API` subfolder of your Cobra installation folder.

## Ability to Secure the Delete Milestones No Longer in the Schedule Option

The Change Control page of the Integration wizard’s **Delete milestones no longer in the schedule** option is added to the Integration Wizard Preferences tab of the Project Properties dialog box to allow you to secure this option at the project level.

The screenshot shows the 'Integration Wizard' dialog box, specifically the 'Change Control' tab. The title bar says 'Integration Wizard' with a close button. Below the title bar, it says 'Change Control' and 'Select the options for Cobra to use when loading data.' There is a dropdown menu labeled 'Get the Control Account descriptions from:' with 'Schedule Activities then Key Field 1 Structure' selected. Below this are several checkboxes:
 

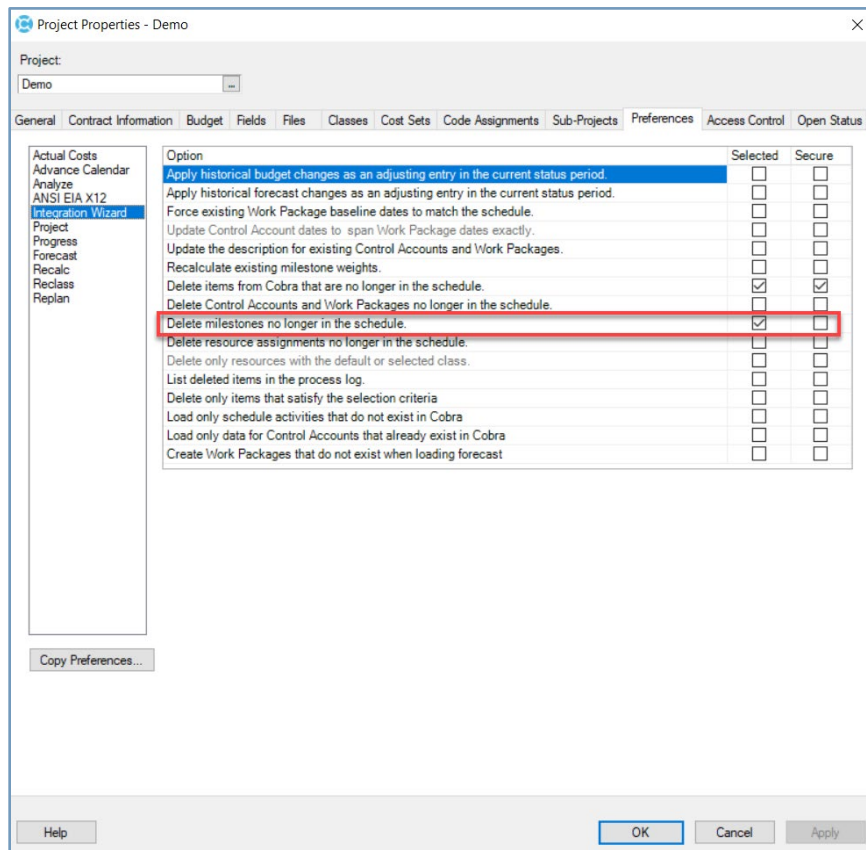
- ☐ Apply historical budget changes as an adjusting entry in the current status period.
- ☐ Apply historical forecast changes as an adjusting entry in the current status period.
- ☐ Force existing Work Package baseline dates to match the schedule.
  - ☐ Update Control Account dates to span Work Package dates exactly.
- ☐ Update the description for existing Control Accounts and Work Packages.
- ☐ Recalculate existing milestone weights.
- ☒ Delete items from Cobra that are no longer in the schedule.
 

☐ Delete Control Accounts and Work Packages no longer in the schedule.  
☒ Delete milestones no longer in the schedule. (This option is highlighted with a red rectangle in the image)  
☐ Delete resource assignments no longer in the schedule.
 
  - ☐ Delete only resources with the default or selected class.☐ Delete only items that match the following criteria:
- ☐ List deleted items in the process log.
- ☐ Create Work Packages that do not exist when loading forecast

 At the bottom, there are buttons for 'Help', '<Back', 'Next>', 'Finish', and 'Cancel'.

*Change Control Page of the Integration Wizard*

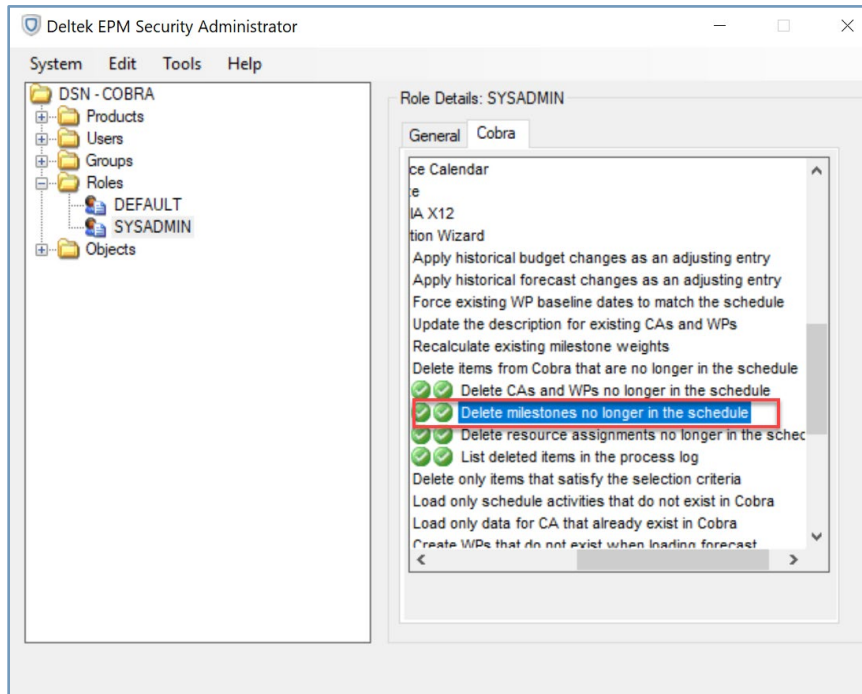
## New Features and Enhancements



### Integration Wizard Preferences Tab of the Project Properties Dialog Box

In EPM Security Administrator, the option is added a child node of **Delete items from Cobra that are no longer in the schedule** in **Projects » Project Properties » Preferences tab » Integration Wizard**. By default, this option is set to **Enabled/Visible**.

## New Features and Enhancements



### EPM Security Administrator

The following table describes the behavior of this option.

Integration Wizard Preferences Tab		Change Control Page of the Integration Wizard	
Selected	Secure	New Configuration	Existing Configuration
✓	X	✓  Enabled	Follows the selection in the configuration file
✓	✓	✓  Disabled	Follows the selection on Integration Wizard Preferences tab
X	X	X  Enabled	Follows the selection on Integration Wizard Preferences tab
X	✓	X  Disabled	Follows the selection in the configuration file

- [✓] indicates that the check box is selected.
- [X] indicates that the check box is cleared.
- Enabled means you can still select or clear the check box.
- Disabled means you can no longer select or clear the check box.



**Attention:** See the [“Change Control Page of the Integration Wizard,”](#) [“Integration Wizard Preferences Tab of the Project Properties Dialog Box,”](#) and [“Behavior of the Options”](#) topics in the Cobra Help System.

## Ability to Load Forecasts in the Current Status Period During Integration

Previously, Cobra did not allow you to load forecasts into the current status period during integration. To help the Cost Account Managers to plan out the entire estimate to complete (ETC) prior to loading actuals and calculating forecast, the **Allow loading forecast in the current status period** option is added to the Project Properties dialog box and the Resource Assignments page of the Integration Wizard. With both the **Allow loading forecast in the current status period** and the **Apply historical forecast changes as an adjusting entry in the current status period** options on the Integration Wizard Preferences tab of Project Properties dialog box selected, Cobra will now adjust the entries in the current period rather than in the period after the status period.

The screenshot shows the 'Integration Wizard' window with the 'Resource Assignments' tab selected. The window title is 'Integration Wizard' and it has a close button (X) in the top right corner. Below the title bar, the text 'Resource Assignments' is displayed, followed by the instruction: 'Select whether you want to load all assignments into a single class, or load them based on classes assigned in the schedule.'

The main content area is divided into two sections: 'Budget' and 'Forecast'.

**Budget Section:**

- 'Default budget class:' is set to 'Budget'.
- Radio buttons: 'Load all budget into default class' (selected) and 'Load budget class from file:'.
- 'Load only these budget classes:' is an empty text box.

**Forecast Section:**

- 'Default forecast class:' is set to 'Forecast'.
- Radio buttons: 'Load all forecast into default class' and 'Load forecast class from file:' (selected).
- Radio buttons: 'Replace existing forecast' (selected) and 'Add to existing forecast'.
- 'Load only these forecast classes:' is an empty text box.
- A checkbox 'Allow loading forecast in the current status period' is checked and highlighted with a red box.

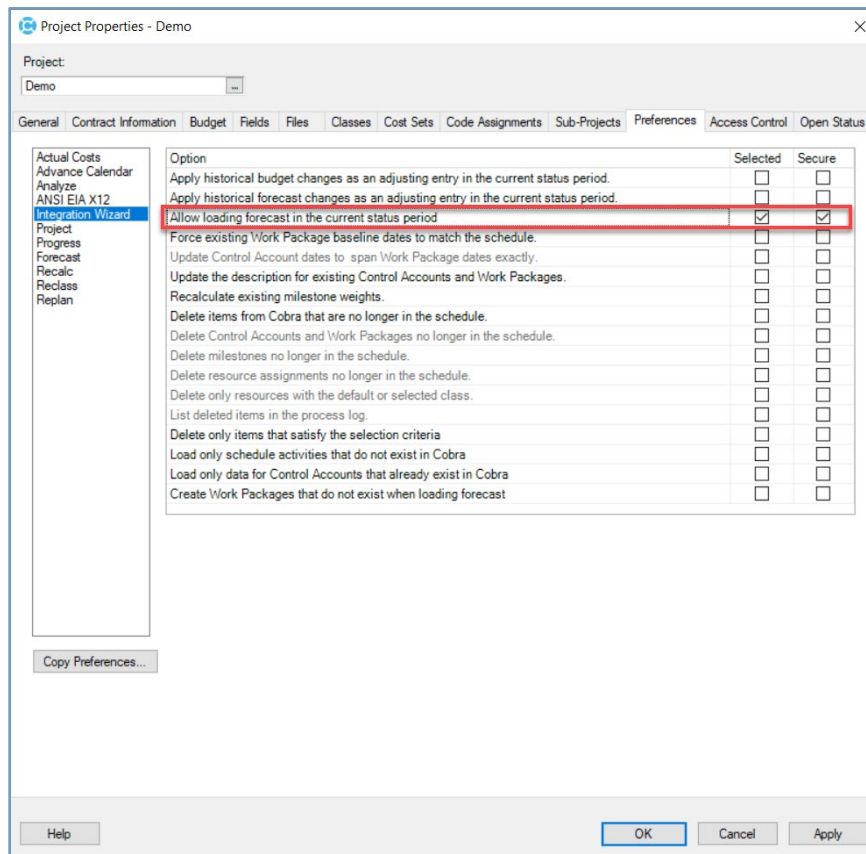
Below the Forecast section, there are three unchecked checkboxes:

- 'Calculate apportionment' with a 'Define Calculation...' button.
- 'Spread resource across activity dates'.
- 'Use curves for resource spreads'.

At the bottom of the dialog box, there are four buttons: 'Help', '<Back', 'Next>', and 'Finish'. A 'Cancel' button is also present at the bottom right.

*Resource Assignments Page of the Integration Wizard*

## New Features and Enhancements



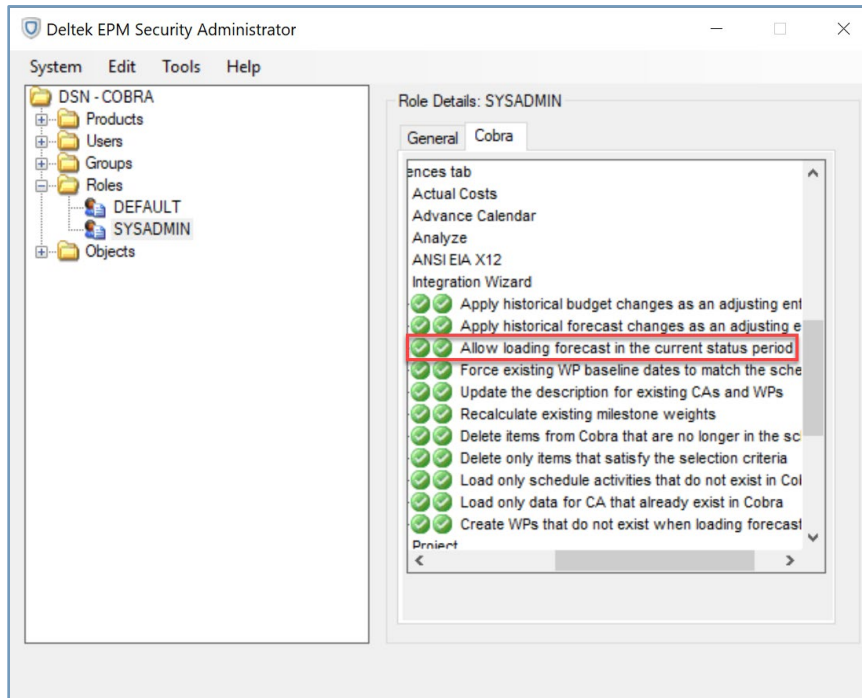
*Integration Wizard Preferences Tab of the Project Properties Dialog Box*

The following example shows how entries are adjusted with different combinations of the **Apply historical forecast changes as an adjusting entry in the current status** and the **Allow loading forecast in the current status period** options.

Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Option	Status
100	100	100	100	100	100	100			Apply historical forecast changes as an adjusting entry in the current status	Selected
		300	100	100	100	100	100		Allow loading forecast in the current status period	Cleared
100	100	100	100	100	100	100	100		Apply historical forecast changes as an adjusting entry in the current status	Selected
	200	100	100	100	100	100	100		Allow loading forecast in the current status period	Selected
100	100	100	100	100	100	100	100		Apply historical forecast changes as an adjusting entry in the current status	Cleared
	100	100	100	100	100	100	100		Allow loading forecast in the current status period	Selected
100	100	100	100	100	100	100	100		Apply historical forecast changes as an adjusting entry in the current status	Cleared
		100	100	100	100	100	100		Allow loading forecast in the current status period	Cleared

In EPM Security Administrator, the **Allow loading forecast in the current status period** option is added to **Projects » Project Properties » Preferences tab » Integration Wizard**. By default, this option is set to **Enabled/Visible**.

## New Features and Enhancements



*EPM Security Administrator*

The following table describes the behavior of this option.

Integration Wizard Preferences Tab		Resource Assignments Page of the Integration Wizard	
Selected	Secure	New Configuration	Existing Configuration
✓	X	✓  Enabled	Follows the selection in the configuration file
✓	✓	✓  Disabled	Follows the selection on Integration Wizard Preferences tab
X	X	X  Enabled	Follows the selection on Integration Wizard Preferences tab
X	✓	X  Disabled	Follows the selection in the configuration file
<ul style="list-style-type: none"> <li>▪ [✓] indicates that the check box is selected.</li> <li>▪ [X] indicates that the check box is cleared.</li> <li>▪ Enabled means you can still select or clear the check box.</li> <li>▪ Disabled means you can no longer select or clear the check box.</li> </ul>			

**Attention:** See the [“Resource Assignments Page of the Integration Wizard,”](#) [“Integration Wizard Preferences Tab of the Project Properties Dialog Box,”](#) and [“Behavior of the Options”](#) topics in the Cobra Help System.

## Ability to Include Multiple Projects on a Single Report

You can now run the Report wizard against multiple projects (without first setting up a master project) to include on a single report.

The **Include multiple projects on report** check box is added to the Report page.

The screenshot shows the 'Report Wizard' dialog box, specifically the 'Report' page. The title bar says 'Report Wizard' with a close button. Below the title bar, it says 'Report' and 'Please select a report and file to run the report against.' There is a 'Show Reports' section with radio buttons for 'All' (selected), 'Personal', and 'Shared', and a 'Category' dropdown set to 'Time-phased'. Below this is a list of reports with columns 'Report' and 'Description'. The 'Time-phased' report is selected. Below the list, there is a text box with information about the time-phased report. At the bottom, there is a 'File:' section with a dropdown set to 'Demo' and a checkbox labeled 'Include multiple projects on report' which is checked and highlighted with a red box. At the very bottom are buttons for 'Help', '<Back', 'Next>', 'Finish', and 'Cancel'.

*Report Page of the Report Wizard*

**Attention:** See the [“Report Page of the Report Wizard”](#) and [“Report Types”](#) topics in the Cobra Help System.

Selecting the **Include multiple projects on report** check box and then clicking **Next** on the Report page displays the Projects Selection page, where you can select additional projects to include on the report.

## New Features and Enhancements

**Report Wizard**

**Projects Selection**  
Please select all projects to include on the report

Default Project: Demo

Project	Description	Status Date
▶ Demo Advanced	Space Shuttle	11/30/2015
Essential Cobra	Created as part of t	01/31/2016

Add Remove

Help <Back Next> Finish Cancel

*Projects Selection Page of the Report Wizard*

**Attention:** See the “[Projects Selection Page of the Report Wizard](#)” topic in the Cobra Help System.

On the Sub-Totals page, **Project** is added as an additional criteria under **Project Structure**. Selecting **Project** includes the project-level totals for each of the selected projects on the generated report.

**Report Wizard**

**Sub-Totals**  
Please select the sub-totals to show on the report.

Available Sub-Totals

Criteria

- ▶ Project Structure
  - Project
  - Control Account
  - Work Package
  - Resource Assignment
  - Results
- Key Fields
  - WBS
  - OBS
  - WP
  - Resource
- Codes
  - Resource.Element of Cost
  - Control Account.Location
  - CAM

Selected Sub-Totals (Maximum of 4)

Criteria	Level	Show Total	New Page
▶ Control Account	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Work Package	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Up Down

Include empty code assignments  
Include Control Accounts/Work Packages with no data

Help <Back Next> Finish Cancel

*Sub-Totals Page of the Report Wizard*

**Attention:** See the “[Sub-Totals Page of the Report Wizard](#)” topic in the Cobra Help System.

## New Features and Enhancements

On the Cost Sets page, all cost sets from the selected projects are displayed. Select which cost sets to include on the generated report.

*Cost Sets Page of the Report Wizard*

**Attention:** See the “[Cost Sets Page of the Report Wizard](#)” topic in the Cobra Help System.

**Note:** The Rates worksheet of the generated report will only contain rate sets from the rate files used with the default project. See the “[Report Content Parameters](#)” topic in the Cobra Help System.

The following example is a Time-phased report which shows project-level totals for each of the selected projects.

Project	Control Account	12/31/2015	01/31/2016	02/28/2016	03/31/2016	04/30/2016	05/31/2016	06/30/2016	07/31/2016	08/31/2016	09/30/2016	10/31/2016	11/30/2016	Cumulative
Demo	Budget	0.00	0.00	69,877.83	76,308.42	43,892.77	48,425.56	16,378.95	11,571.03	11,571.95	11,571.97	11,571.95	11,571.97	312,742.42
Demo2	Budget	0.00	0.00	69,877.83	76,308.42	43,892.77	48,425.56	16,378.95	11,571.03	11,571.95	11,571.97	11,571.95	11,571.97	312,742.42
Demo3	Budget	0.00	0.00	69,877.83	76,308.42	43,892.77	48,425.56	16,378.95	11,571.03	11,571.95	11,571.97	11,571.95	11,571.97	312,742.42
	1.01.01 / 1.4.1 Airframe Design.													
	Budget	0.00	0.00	36,052.50	12,017.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48,070.00
	1.01.02 / 1.3.2 Propulsion Unit Design.													
	Budget	0.00	0.00	4,807.00	12,818.59	12,818.59	12,818.59	4,807.00	0.00	0.00	0.00	0.00	0.00	48,070.00
	1.01.04 / 1.1.2 Communications.													
	Budget	0.00	0.00	0.00	0.00	3,004.38	27,039.38	3,004.38	3,004.38	3,004.38	3,004.38	3,004.38	3,004.38	48,070.00
	1.02.01 / 1.5.1 Equipment Design.													
	Budget	0.00	0.00	2,185.02	2,185.03	2,185.02	2,185.03	2,185.02	2,184.79	2,185.02	2,185.03	2,185.02	2,185.03	21,849.98
	1.02.02 / 1.2.2 Programming Services.													
	Budget	0.00	0.00	2,127.52	2,127.52	2,127.52	2,127.52	2,127.52	2,127.29	2,127.52	2,127.52	2,127.52	2,127.52	21,274.98
	1.04.02 / 1.2.3 System Test.													
	Budget	0.00	0.00	2,127.52	2,127.52	2,127.52	2,127.52	2,127.52	2,127.29	2,127.52	2,127.52	2,127.52	2,127.52	21,274.98
	1.04.05 / 1.5.1 Test Site.													
	Budget	0.00	0.00	20,450.76	7,800.99	7,800.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,052.50
	1.05.02 / 1.5.3 Program Management													
	Budget	0.00	0.00	2,127.52	2,127.52	2,127.52	2,127.52	2,127.29	2,127.52	2,127.52	2,127.52	2,127.52	2,127.52	21,274.98
	1.06.04 / 1.2.1 System Data.													
	Budget	0.00	0.00	0.00	23,402.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23,402.50
	1.07.02 / 1.5.1 Site Development.													
	Budget	0.00	0.00	0.00	11,701.25	11,701.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23,402.50
Grand Total	Budget	0.00	0.00	209,633.50	228,925.27	131,678.32	145,276.68	49,136.86	34,713.09	34,715.86	34,715.90	34,715.86	34,715.90	938,227.26

This feature is also supported in the [Cobra Web Service](#).

## Ability to Include Control Accounts and Work Packages with No Time-Phased Data on Reports

The **Include Control Accounts/Work Packages with no data** check box is added to the Sub-Totals page of the Report wizard. By selecting this check box, you can now include control accounts and work packages that do not contain time-phased data for the selected cost sets on the generated report.

Report Wizard

**Sub-Totals**  
Please select the sub-totals to show on the report.

Available Sub-Totals

Criteria

- Project Structure
  - Control Account
  - Work Package
  - Resource Assignment
  - Results
- Key Fields
  - WBS
  - OBS
  - WP
  - Resource
- Codes
  - Resource Element of Cost
  - Control Account Location
  - CAM
  - Work Package Manager

Selected Sub-Totals (Maximum of 4)

Criteria	Level	Show Total	New Page
WBS	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Control Account	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Work Package	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>

☐ Include empty code assignments  
☒ Include Control Accounts/Work Packages with no data

Help <Back Next> Finish Cancel

### Sub-Totals Page of the Report Wizards

This check box is enabled if:

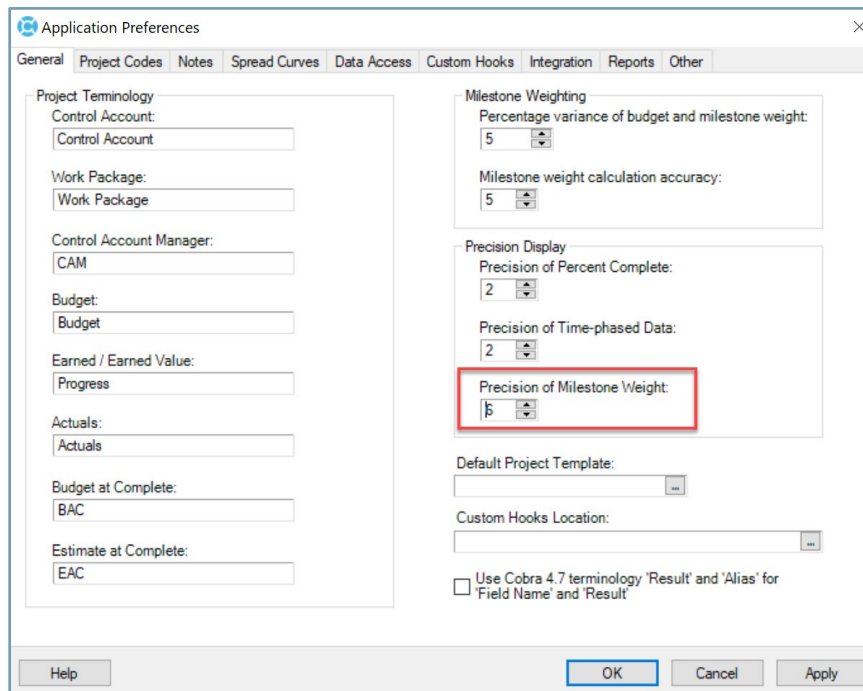
- The selected report on the Report page is a CrossTab report.
- Control Account** or **Work Package** is selected as **Criteria**.

**Attention:** See the [“Sub-Totals Page of the Report Wizard”](#) topic in the Cobra Help System.

## Ability to Store Decimals on Milestone Weight

Cobra now stores milestone weight values with six decimal places. The **Precision of Milestone Weight** field is added to the General tab of the Application Preferences dialog box. Using this field, you can display the milestone weight value on Milestones/Steps tab of the Project view with up to six decimal places.





*General Tab of the Application Preferences Dialog Box*

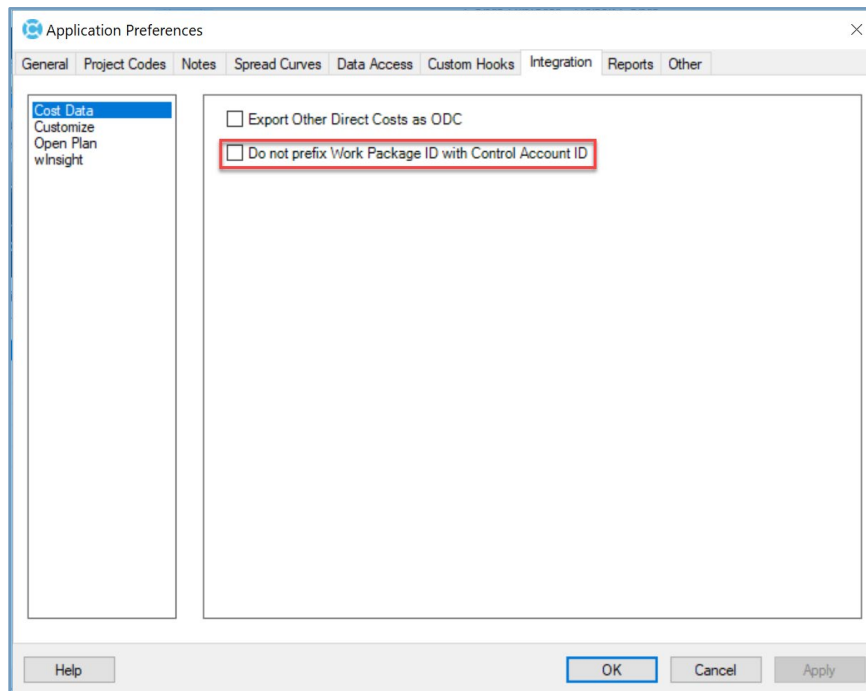
When integrating data from an import file or any scheduling tools (Primavera, Open, Plan, and Microsoft Project), Cobra now imports milestone weight value with six decimal places regardless of the value specified in the **Precision of Milestone Weight** field.

**Attention:** See the [“General Tab of the Application Preferences Dialog Box”](#) and [“Milestones/Steps Tab of the Project View”](#) topics in the Cobra Help System.

## Ability to Not Concatenate the Control Account ID to the Work Package ID When Exporting the IPMDAR File

The **Do not prefix Work Package ID with Control Account ID** option is added in the Cost Data pane of the Integration tab of the Application Preferences dialog box. This option allows you to enable or disable concatenation of Control Account (CA) key fields and the Work Package (WP) ID when creating the Integrated Program Management Data Analysis Report (IPMDAR) file during the Cost Data Export process.





*Integration Tab of the Application Preferences Dialog Box*

If this option is cleared, which is the default value, Cobra performs concatenation of the Control Account key field value and the Work Package ID value to obtain the new Work Package ID value. After completing the Cost Data Export process, the Work Package ID value in the generated IPMDAR file is displayed as Control Account ID + Work Package ID.

If this option is selected, Cobra does not perform concatenation of the Control Account and Work Package IDs during the Cost Data Export process.

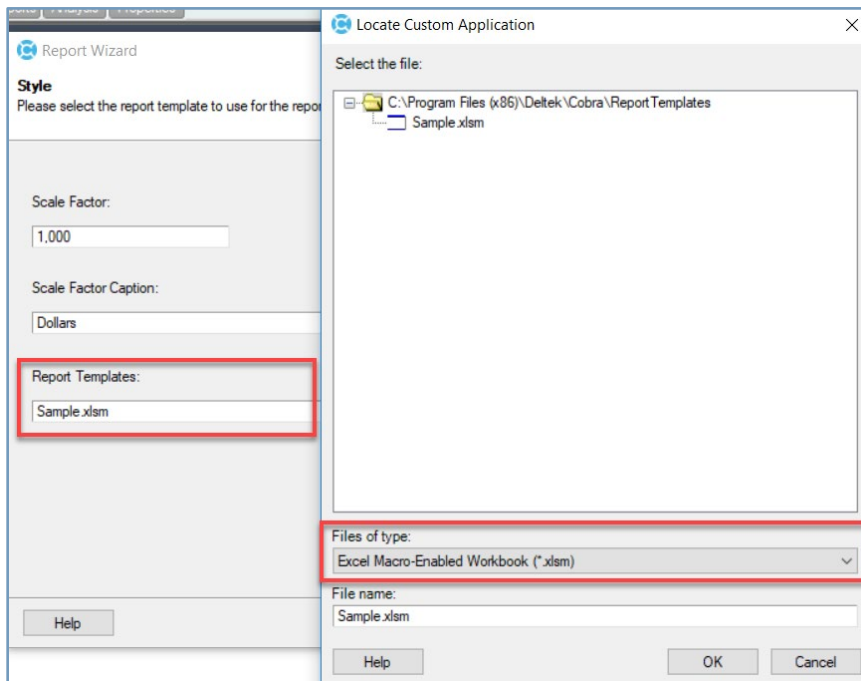
**Attention:** See the [“Integration Tab of the Application Preferences Dialog Box”](#) and [“Cost Data Export”](#) topics in the Cobra Help System.

## Support for XLSM File Extension

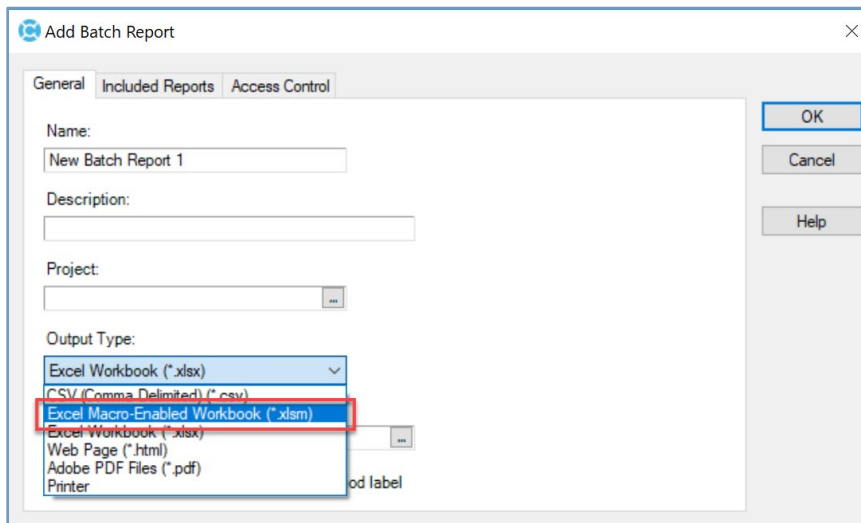
Cobra now supports the **Excel Macro-Enabled Workbook (\*.xlsm)** file extension as an output type when generating reports.

You can select **Excel Macro-Enabled Workbook (\*.xlsm)** as an output type in the following areas of Cobra:

- Locate Custom Application dialog box which displays when you click the **Report Template** field on the Style page of the Report wizard



- General tab of the Add Batch Report or Edit Batch Report dialog box

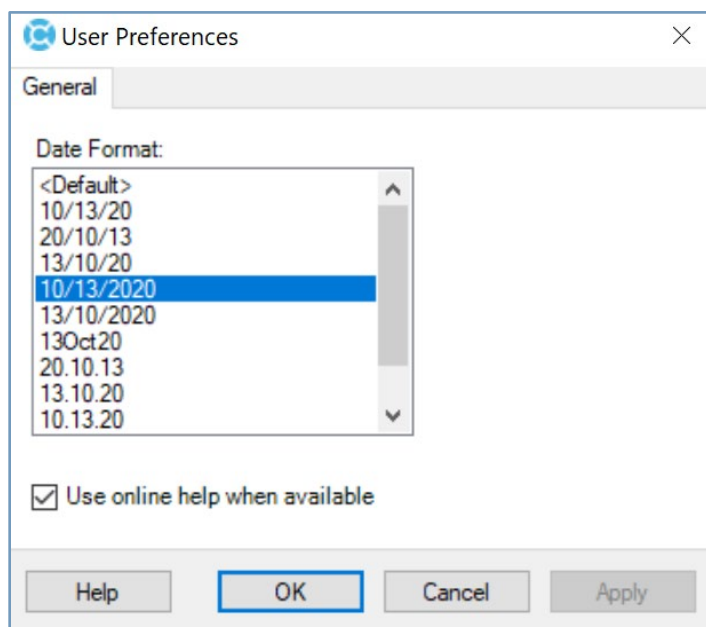


**Attention:** See the [“General Tab of the Add Batch Report Dialog Box”](#) and [“General Tab of the Edit Batch Report Dialog Box”](#) topics in the Cobra Help System.

## De-Support XLS File Extension

Cobra no longer supports the .xls file extension. When you run a report that uses the .xls extension on the report template using the Report wizard, Cobra generates the report in .xlsx format. When you run or restore a batch report that uses the .xls extension, Cobra converts the output to .xlsx format.

In addition, the Reports tab on the User Preferences dialog box has been removed.



*User Preferences Dialog Box*

## Reclass Process Update for Not Included in Budget Classes

Cobra now allows you to select a non-included budget classes as a Source class when you run the Reclass wizard. The not included in budget classes now ignore the Project Preferences' **Allow changes to scope of in-progress Control Account/Work Package** option selection for the selected project.

**Attention:** See the "[Project Preferences](#)" topic in the Cobra Help System.

## Update Totals Run Only Against Impacted Control Accounts and Work Packages

During the integration of data from an import file or any scheduling tool (Primavera, Open, Plan, or Microsoft Project), Cobra now runs the Updates Totals process only for the control accounts/work packages where values are loaded into when **Total Project** is selected in the **Criteria** field on the Filter page of the Integration Wizard.

When the **Delete Control Accounts and Work Packages no longer in the schedule** option on the Change Control page of the Integration Wizard is selected, only the budget totals will be updated for the control accounts whose work packages were deleted.

**Attention:** See the "[Change Control Page of the Integration Wizard](#)" and "[Filter Page of the Integration Wizard](#)" topics in the Cobra Help System.

## Modified Budget Tab of the Project Properties Dialog Box

The Budget tab of the Project Properties dialog box has been modified to display a grid with the Total Budget and Total Estimate at Complete columns.

## New Features and Enhancements

Project Properties - Demo

Project: Demo

General Contract Information Budget Fields Files Classes Cost Sets Code Assignments Sub-Projects Preferences Access Control Open Status

	Total Budget	Total Estimate at Complete
Negotiated Cost	540,000.00	
Authorized Unpriced Work	0.00	
Contract Budget Base	540,000.00	
Management Reserve	40,000.00	0.00
Undistributed Budget	178,689.52	0.00
Fee %	10.0000	
Fee Amount	54,000.00	
Target Price	594,000.00	
Contract Ceiling	540,000.00	0.00
Estimated Price		594,000.00
Original Negotiated Cost	0.00	
Over Target Baseline Cost	0.00	
Cost Best Case		0.00
Cost Worst Case		0.00
Cost Most Likely		540,000.00

Help OK Cancel Apply

*Budget Tab of the Project Properties Dialog Box*

## Support for New Technologies

Cobra 8.4 supports the following technologies and Deltek products.

Supported Deployment Technology	
<b>Database Platform</b>	<ul style="list-style-type: none"> <li>Microsoft SQL Server 2019</li> <li>Microsoft SQL Server Express 2019</li> </ul>
<b>Primavera</b>	<ul style="list-style-type: none"> <li>Primavera 19.12</li> </ul>
<b>Deltek Integrated Products</b>	<ul style="list-style-type: none"> <li>PM Compass 8.2 (When PM Compass 8.2 is released, check the PM Compass 8.2 Compatibility Matrix)</li> <li>Open Plan 8.5</li> <li>Acumen 8.7</li> <li>EPM Security Administrator 8.4</li> </ul>

**Attention:** See the “Software Requirements” section in the *Deltek Cobra 8.4 Installation Guide* for the complete list of supported and compatible technologies.

## Software Issues Resolved

### API

#### Defect 1269641

**Description:** When you ran the Reclass, Respread, or Recalc process through the API, the values you specified in the Criteria and Selection settings were not validated correctly.

**Customers Impacted:** This defect affects customers who run the Reclass, Respread, or Recalc process through the API.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Api.exe
- Cobra.Model.dll
- Cobra.Model.LoginManager.dll

#### Defect 1411475

**Description:** You could generate reports through the API and the Web Service even if you did not have read access to the project or ancillary files.

**Customers Impacted:** This defect affects customers who use the API and the Web Service to generate reports

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.ReportLayoutEngine.dll
- Cobra.WebService.Host.exe
- Cobra.Api.exe

### API » Web Services

#### Defect 1383713

**Description:** The validation error message displayed for pending dates when adding a new control account or a new work package using the Cobra Web Service was not appropriate.

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll

- Cobra.WebService.dll
- Cobra.WebService.Host.exe

## Defect 1384218

**Description:** When you added a new control account or a work package using the Cobra Web Service and the control account key fields were blank, an unhandled exception error was displayed instead of an error message.

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WebService.dll
- Cobra.WebService.Host.exe

## Defect 1345469

**Description:** When you deleted a work package through the Cobra application, the control account level totals and project level totals were not updated.

**Customers Impacted:** This defect affects customers who use the delete work package function.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

## Defect 1333426

**Description:** When you ran the Recalculate or Respread process through the Cobra Web Service and defined the **Criteria** and **Selection** settings to set the portion of the project to recalculate or respread, the Cobra Web Service ran the process on the entire project.

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WebService.dll
- Cobra.WebService.Host.exe
- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.Model.WebService.dll

## Defect 1344022

**Description:** When you ran the Reclass process through the Cobra Web Service, the **CopyResourceAssignmentCode** setting always defaulted to **Source** even if you set it to **Target**.

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WebService.ClientAPI.dll

## Defect 1344036

**Description:** When you ran the Reclass process through the Cobra Web Service, codes with User Field and Text code field types were not correctly reclassified because the **IncludeChildren** setting for these types defaulted to **True**.

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.WebService.dll
- Cobra.WebService.Host.exe

## Defect 1409588

**Description:** The project's batch number did not increment when you performed the following actions through the Cobra Web Service:

- Create a control account
- Create a work package

**Customers Impacted:** This defect affects customers who use the Cobra Web Service.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WebService.Host.exe

## File » Integration Cost Data Export

### Defect 1251883

**Description:** When you ran the Cost Data wizard, opened a read-only configuration file, and then selected a different configuration file to which you have read-write permission, the fields and options on each wizard page were still disabled.

**Customers Impacted:** This defect affects customers who use the Cost Data wizard.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

### Defect 1338925

**Description:** When you ran the Cost Data Export wizard to generate the Integrated Program Management Data Analysis Report (IPMDAR) file and there were unassigned control accounts codes or work package codes, the Control Account/Work Package Custom Field Values files of the generated JavaScript Object Notation (JSON) files still contained entries for the unassigned codes.

**Customers Impacted:** This defect affects customers who use the Cost Data wizard.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- PPM.CommonData

## File » Integration wInsight

### Defect 1372051

**Description:** When you exported data to wInsight XML format and any of the exported control account or work package code assignments contained a NULL value, Cobra displayed an error message.

**Customers Impacted:** This defect affects customers who export data to wInsight.

**Workaround Before Fix:** Replace the NULL values in the C1 - C9 fields in the CAWP database table with ''.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Process.dll



## File » Integration Wizard – Project Data

### Defect 1377531

**Description:** When you ran the Integration Wizard to load forecast data, Cobra did not include the actuals in the EAC total calculation when the update totals process was ran during integration.

**Customers Impacted:** This defect affects customers who use the Integration Wizard.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Process.dll
- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

### Defect 1348488

**Description:** When you ran the Integration Wizard to load code assignments and user fields, Cobra encountered the "Error filling cursor for BDNDCTL: There is not enough memory to complete this operation" error if the project's CAM field has a code file specified and there were no code files assigned to any of the control account or work package level codes.

**Customers Impacted:** This defect affects customers who use the Integration Wizard.

**Workaround Before Fix:** Assign a code file to the control account or work package codes.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Process.dll

### Defect 1378201

**Description:** When you ran the Integration Wizard to load resource assignment percent complete values and assigned a file in the **Status File** field, you encountered the "Error LINKSTSR" message if the status file contained no records.

**Customers Impacted:** This defect affects customers who perform a single-project integration using the Integration Wizard.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Process.dll
- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

### Defect 1368427

**Description:** When you used the multi-project concurrency feature, you encountered the "Invalid Status File" error if the account you used to run the Cobra Web Service did not have access to the files specified

on the Project Selection page of the Integration Wizard and the project that existed in the activity file was not included in the status file.

**Customers Impacted:** This defect affects customers who use the multi-project concurrency feature.

**Workaround Before Fix:** Update the status file and make sure that all projects included in the activity file exist.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Model.dll
- Cobra.Model.LoginManager.dll

## Defect 1378710

**Description:** When you ran the Integration Wizard, the control account code field was updated with work package codes if the control account codes and the work package codes shared the same column in the scheduling tool.

**Customers Impacted:** This defect affects customers who use the Integration Wizard.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Process.dll
- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

## Framework

### Defect 1390274

**Description:** When you clicked **Finish** on a Cobra wizard and a validation error was encountered on another wizard page, Cobra redirected you to the wizard page with the validation error but the wizard page displayed an incorrect title bar and description.

**Customers Impacted:** This defect affects all customers who use the following wizards:

- Calculate Forecast Wizard
- Calculate Progress Wizard
- New Code File Wizard
- New Rate File Wizard
- Recalc Wizard
- Report Wizard
- Zero-Out Data Wizard

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Defect 1246362

**Description:** When you added the CAM column on the Resource Assignment Lookup dialog box and then expanded a control account, the resource assignment rows under the control account displayed a CAM value.

**Customers Impacted:** This defect affects customers who use the Resource Assignment Lookup dialog box.

**Workaround Before Fix:** Expand the control account before adding the CAM column.

### Files Updated:

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Help

## Defect 1263086

**Description:** When you selected or cleared the **Automatically send usage statistics to Deltek** option on the About Deltek dialog box and you had insufficient access to update the IdeaBlade.IbConfig file, Cobra displayed an error message with no recommendations on how to resolve the issue.

**Customers Impacted:** This defect affects all customers who access the About Deltek dialog box with insufficient access to update the IdeaBlade.IbConfig file.

**Workaround Before Fix:** None.

**Additional Notes:** This issue is also encountered on the Change Password dialog box of the Data Tool.

### Files Updated:

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- ConfigManager.dll
- DataTool.exe

## Project Processes » Analyze

## Defect 1355621

**Description:** When you ran the Analyze process on Control Account Field 9, Cobra encountered the "Error in processing analyze data" error message.

**Customers Impacted:** This defect affects customers who use the Analyze process.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.Process.dll
- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

## Projects

### Defect 1335291

**Description:** If you did not have rights to delete calendar files and you deleted a project and its associated calendar, Cobra deleted both the project and the calendar.

**Customers Impacted:** This defect affects customers who use the delete project function.

**Workaround Before Fix:** None.

**Additional Notes:** This issue is also encountered when you delete a project through the API.

**Files Updated:**

- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

### Defect 1336125

**Description:** When you deleted a project which included a calendar shared with two or more projects, Cobra did not delete the project and displayed an error about deleting the shared calendar. Cobra should display a warning message informing you that the calendar is shared with another project and then allow you to delete the project but not the shared calendar.

**Customers Impacted:** This defect affects customers who use the delete project function.

**Workaround Before Fix:** None.

**Additional Notes:** This issue is also encountered when you delete a project through the API.

**Files Updated:**

- Cobra.WinUI.exe
- Cobra.WinUI.\*.dll

## Projects » Project Information

### Defect 1357173

**Description:** When you created a forecast class using the New Class wizard with the **Performance Factor Level** and **Code File** fields populated, and then changed the **Performance Factor Level** to **Project**, **Control Account**, or **Work Package** before saving the forecast class, the **Code File** value was saved with the forecast class.

**Customers Impacted:** This defect affects customers who use the New Class wizard.

**Workaround Before Fix:** On the Forecast Class of the New Class wizard, clear the **Code File** field before changing the **Performance Factor Level** to **Project**, **Control Account**, or **Work Package**.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Defect 1298524

**Description:** When you edited the control account codes or the work package codes grid on the Fields tab of the Project Properties dialog box, opened another project without saving your changes, and then switched back to the project you initially updated, the rows of the codes you previously updated were no longer displayed in the correct order.

**Customers Impacted:** This defect affects customers who use the Project Properties dialog box.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Projects » Project View

### Defect 1366992

**Description:** When you moved an in-progress work package to a planned control account, the status of the control account was not set to in-progress.

**Customers Impacted:** This defect affects customers who use the move work package function.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Process.dll

### Defect 468401

**Description:** Cobra did not prevent you from editing project data while another user was running a Cobra process that has locked the project exclusively.

**Customers Impacted:** This defect affects customers who edit data in the Project view while other users run a process that locks the same project.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe
- Cobra.Model.dll
- Cobra.Model.LoginManager.dll

## Defect 1366999

**Description:** The prompt displayed when moving a work package contained {0} character. The prompt displayed as follows: "Work Package begins before the Control Account. Update the Control Account {0} dates with Work Package {0} dates?"

**Customers Impacted:** This defect affects customers who use the move work package function.

**Workaround Before Fix:** None.

**Files Updated:**

- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Security

### Defect 1286834

**Description:** When you ran Cobra in a Terminal Service or Citrix environment and your Cobra session did not close properly, you might encounter orphaned locks or sessions.

**Customers Impacted:** This defect affects users who run Cobra in a Terminal Services or Citrix environment.

**Workaround Before Fix:** Perform one of the following:

- Delete the lock records manually in the database.
- Clear the crashed connection using the EPM Security Administrator tool.

**Note:** This step will remove the WST\_ULI record and any corresponding WST\_LCK records immediately. If you clear user connections while they are in Cobra, the next time the polling interval happens, it will notice that they do not have a WST\_ULI record and kick the user out.

1. Log into the EPMSA tool.
2. In the Explorer pane on the left, click **Cobra**.
3. Click **Tools » Clear Connections**.
4. On the Clear Connections dialog box, select the crashed connection, and click **Clear User**.

**Additional Notes:** This issue may happen when a user leaves their Terminal Service or Citrix session idle and it times out, or when an active user closes their Terminal Service or Citrix window instead of the Cobra window. In some cases, this issue may also happen when Cobra terminates unexpectedly.

To prevent orphaned locks or sessions when running Cobra in a Terminal Services or Citrix environment, you can add the **ALLOWMULTIPLEINSTANCES** setting in your database, if you are using Cobra 8.3 or lower. Beginning Cobra 8.4, the **ALLOWMULTIPLEINSTANCES** setting is replaced with the **\_CLEAREXISTINGLOCKS** setting. Refer to KB Article 97977 in the Knowledge Center on the Deltek Customer Care Connect site for information on how to configure the **\_CLEAREXISTINGLOCKS** setting.

**Attention:** See the "[Multiple Sessions in Cobra](#)" topic in the Cobra Help System.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- EPM.Security.Authentication.dll

## Tools » Update Codes

### Defect 1335217

**Description:** When you ran the Update Codes wizard to update a work package or a resource assignment code field, and you filtered by **Resource** with the **Include all children** option selected, Cobra encountered the "ORA-00907: missing right parenthesis" error.

**Customers Impacted:** This defect affects customers who use the Update Codes process.

**Workaround Before Fix:** Manually update the work package or the resource assignment code field values in the Spreadsheet pane of the Project view.

**Files Updated:**

- Cobra.Model.dll
- Cobra.Model.LoginManager.dll
- Cobra.WinUI.\*.dll
- Cobra.WinUI.exe

## Security-Related Software Issues Resolved

Additional security fixes are included in this release.

# EPM Security Administrator Updates

This section includes updates to the EPM Security Administrator (EPM SA) tool for this release.

## New Features and Enhancements

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

### Multiple Instances of EPM Security Administrator on a Shared Server

Two or more users who are logged on to a shared server at the same time can each run EPM SA. Each user can only run one instance of the application.

### Software Issues Resolved

Defect 1409483

**Description:** When you tried to import a user with an empty Manager name on the Active Directory user account from Active Directory Services, an unhandled exception error occurred.

**Customers Impacted:** This defect affects users importing users from Active Directory Services in EPM Security Administrator.

**Workaround Before Fix:** Take one of the following actions:

- Select a manager.
- Do not set the property
- Known Issues When Running a Report with Cobra Connected to an Oracle 18c or 19c Database



## Known Issues

This section contains information about existing issues that will be resolved in a future release.

### Issues When Running a Report with Cobra Connected to an Oracle 18c or 19c Database

#### Description

If you are connected to an Oracle 18c or 19c database when running a report, Cobra may generate the report with incomplete data or may fail to generate the report in any of the following scenarios:

- If you run a report against a master project with only a **Project Code** criteria that has **Code Field Type = Text**, Cobra fails to generate the report. This scenario may affect Cobra 8.3 and Cobra 8.4.
- If you run a report against multiple projects with only the **Project** criteria, Cobra generates the report but possibly with incomplete data. The report output is not reliable for this criteria. This scenario may affect Cobra 8.4.
- If you run a report against a master project or multiple projects with the **Control Account** and **Work Package** criteria, Cobra fails to generate the report. This scenario may affect Cobra 8.3 and Cobra 8.4.

#### Cause

This issue is caused by an Oracle bug.

#### Workaround/Solution

Deltek is currently working with Oracle for a workaround and a schedule on when the issue will be fixed.

## Database Changes

This section includes the changes made to the database for this release.

### New Tables

This section includes new tables and their columns.

#### CLASSRANGES

Column Name	Data Type
PROGRAM	NVARCHAR(22)
CLASS	NVARCHAR(20)
FIELDNUM	INT
RANGE_KEY	NVARCHAR(59)
RANGE_VALUE	NVARCHAR(100)

#### TEMP\_DIR

Column Name	Data Type
INSTANCE	NVARCHAR(22)
DIR_ID	NVARCHAR(22)
TIMESTAMP	DATETIME

### Columns

This section includes changes to table columns.

#### New Columns Added

Table Name	Column Name	Data Type
CAWP	C10	NVARCHAR(59)
CAWP	C11	NVARCHAR(59)
CAWP	C12	NVARCHAR(59)
CAWP	C13	NVARCHAR(59)

## Database Changes

Table Name	Column Name	Data Type
CAWP	C14	NVARCHAR(59)
CAWP	C15	NVARCHAR(59)
CAWP	C16	NVARCHAR(59)
CAWP	C17	NVARCHAR(59)
CAWP	C18	NVARCHAR(59)
CAWP	C19	NVARCHAR(59)
CAWP	C20	NVARCHAR(59)
CLASSES	RANGE_FIELDID	NVARCHAR(30)

## Modified Columns

Table Name	Column Name	Data Type	Update
CAWP	C1	NVARCHAR(59)	Removed default value
CAWP	C2	NVARCHAR(59)	Removed default value
CAWP	C3	NVARCHAR(59)	Removed default value
CAWP	C4	NVARCHAR(59)	Removed default value
CAWP	C5	NVARCHAR(59)	Removed default value
CAWP	C6	NVARCHAR(59)	Removed default value
CAWP	C7	NVARCHAR(59)	Removed default value
CAWP	C8	NVARCHAR(59)	Removed default value
CAWP	C9	NVARCHAR(59)	Removed default value
CODEFIELD	FIELDID	NVARCHAR(30)	Updated length from 2 to 30

## Database Changes

Table Name	Column Name	Data Type	Update
CODEFIELD	CODELEVEL	NVARCHAR(1)	Made field non-nullable
MILESTN	WEIGHT	DECIMAL(21, 6)	Changed from Int to Decimal
NARRTEXT	KEY_TYPE	NVARCHAR(20)	Updated length from 5 to 20
PROGRAM	P1	NVARCHAR(59)	Removed default value
PROGRAM	P2	NVARCHAR(59)	Removed default value
PROGRAM	P3	NVARCHAR(59)	Removed default value
PROGRAM	P4	NVARCHAR(59)	Removed default value
PROGRAM	P5	NVARCHAR(59)	Removed default value
PROGRAM	P6	NVARCHAR(59)	Removed default value
PROGRAM	P7	NVARCHAR(59)	Removed default value
PROGRAM	P8	NVARCHAR(59)	Removed default value
PROGRAM	P9	NVARCHAR(59)	Removed default value

## Deleted Columns

Table Name	Column Name
CODEFIELD	FIELDNUM

## Objects

This section includes changes to functions, stored procedures, views, indexes, and objects.

### New Indexes

Index Name	Index Fields	Data Type
IX_UNIQUE_CLASSRANGES	PROGRAM, CLASS, FIELDNUM	Unique
IX_UNIQUE_CLASSRANGES_RANGEKEY	PROGRAM, CLASS, RANGE_KEY	Unique
IX_UNIQUE_TEMP_DIR	INSTANCE, DIR_ID	Unique

### Modified Indexes

Index Name	Index Fields	Data Type	Update
IX_UNIQUE_CODEFIELD	DIR_ID, TABLE_TYPE, CODELEVEL, FIELDID	Unique	Updated indexed fields from FIELDNUM, TABLE_TYPE, DIR_ID

## 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

The following table lists the Deltek documentation available for this release. Except where noted, all the user guides and quick reference guides listed in this table are available for download from the Deltek Support Center.

Document Name	Description
<i>Deltek Cobra 8.4 Installation Guide</i>	The Installation Guide provides step-by-step procedures on how to install the application. It also provides information about the software and hardware requirements of the product.
Deltek Cobra 8.4 Online Help	<p>The Deltek Cobra Help system provides administrators and users with screen/field-level documentation for all applications and functions in the current release.</p> <p>You can access the Online Help from the Cobra application</p>
Deltek EPM Security Administrator Online Help	<p>The help system for the EPM Security Administrator provides administrators with screen/field-level documentation for all of the security features of Cobra.</p> <p>You can access the Help from the EPM Security Administrator application.</p>
<i>Deltek Cobra 8.4 Technical Overview and System Requirements</i>	The Technical Overview and System Requirements document serves as a guideline for hardware and software requirements and provides your firm's IT department with information about the technical deployment architecture of Cobra.
<i>Deltek Cobra Data Structure</i>	This document provides you with the updated version of all WST tables used by several applications, such as Open Plan and Cobra.
<i>Deltek Cobra Essentials</i>	The intent of this guide is to help you become familiar with Cobra's basic capabilities.
<i>Cobra Database Size Estimator</i>	This spreadsheet can be used to estimate the database size required to support your use of Cobra.



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