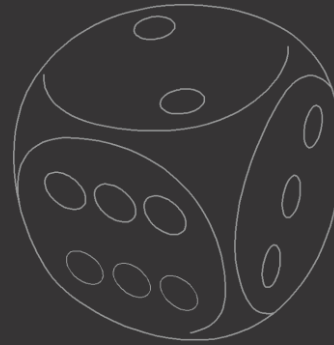
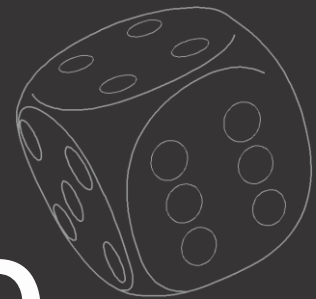


Full Monte™ — The better approach



to Schedule Risk Analysis



Full Monte™

for Microsoft Project - Installation Guide



BARBECANA

Table of Contents

Chapter 1: Installation	3
1.1 Overview	3
1.2 Prerequisites	3
1.3 User Account Requirements	3
1.4 Obtain the software	4
1.5 Install the software	4
1.6 Verify Correct Installation	4
Chapter 2: Registration	6
2.1 Trial / Academic Mode	6
2.2 Purchasing a License	7
2.3 Registering the Software	8
Chapter 3: Field Mapping, Data Import/Export, and Data Conversion	13
3.1 Introduction	13
3.2 System vs User vs Project Mappings	13
3.3 Using Full Monte on a project for the first time	14
3.4 Managing Field Mappings	17
3.5 Mapping Additional Data	19
3.6 Data Import	21
3.7 Data Export	23
3.8 Conversion from Full Monte 2.1	24
Appendix A: Installation Trouble-Shooting	25
A.1 Microsoft Project 2007	25
A.2 Microsoft Project 2010, 2013, 2016	27
A.3 Missing Pre-Requisites	28
Appendix B: Full Monte 2.1 vs Full Monte 2016 Custom Field Utilization	30
Appendix C: Conversion from Full Monte 2.1	32
Appendix D: Full Monte 2016 and Project Server	33
D.1 Creating Project Server Enterprise Fields	33
D.2 Using Enterprise Fields in Full Monte	35
D.3 Saving projects with Enterprise fields to files	36

Chapter 1: Installation

1.1 Overview

Full Monte 2016 for Microsoft Project is an add-in that integrates directly into Microsoft Project. The advantages of installing directly into Microsoft Project include:

- Avoiding the necessity of exporting project data to an external application with all the attendant issues surrounding export/import.
- Being immediately accessible as part of the normal Microsoft Project experience
- Faster access to all required data
- Avoiding data versioning and ownership issues

1.2 Prerequisites

Full Monte 2016 for Microsoft Project is supported with the following environments:

Microsoft Project (Standard or Professional x86 or x64 editions)

Microsoft Project 2007

Microsoft Project 2010

Microsoft Project 2013

Microsoft Project 2016

Operating Systems

Microsoft Windows XP SP3 (x86)

Microsoft Windows 7 SP1 (x86 or x64)

Microsoft Windows 8.1 (x64)

Microsoft Windows 10 (x64)

Additional Requirements

Microsoft .Net Framework 4.0 Client (Windows 7 or earlier)

Microsoft Visual Studio Tools for Office (VSTO) 2010 Runtime

Microsoft Office 2007 PIA (Microsoft Project 2007 only)

1.3 User Account Requirements

Full Monte for Microsoft Project must be installed using an account with **Administrator rights** to the local computer for two reasons:

1. By default the application will be installed to C:\Program Files (x86)\Barbecana\Full Monte MSP so that it may be used by any account on the computer.
2. It may be necessary to install addition pre-requisite system components (for example Microsoft .Net 4.0) that can only be installed by Administrators.

*NOTE: It is **not** sufficient to use **Run as Administrator** to execute the installation program.*

Once installed, the application may be used by any user account that is able to run Microsoft Project.

1.4 Obtain the software

Download the software from the Barbecana website by using the link provided when you purchased the software or by requesting a 30 day trial (which will send an automated email with a link to download the software).

NOTE: The 'trial' software downloaded from the Barbecana website is a fully functional version of the software that will switch to an 'academic' mode (restricted to 100 tasks with no external project links) after 30 days from initial use unless a purchased license key is entered.

1.5 Install the software

While not essential, we recommend closing Microsoft Project and other applications prior to installing Full Monte. Doing so may avoid the need to restart Windows following the install.

Using an account with Administrator rights, install Full Monte by running the setup program FullMonteMSP.exe on the client machine where Microsoft Project is installed.

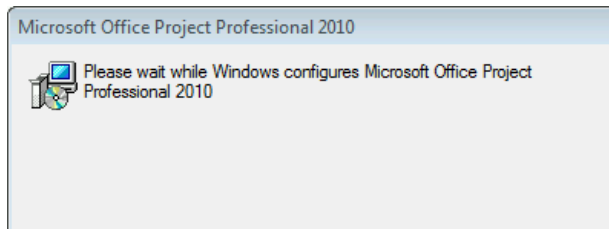
If prompted, please restart Windows.

NOTE: If the Full Monte menu items do not appear as described below when Microsoft Project is first opened after installing Full Monte, please reboot the computer and re-try Microsoft Project before proceeding to the trouble shooting steps outlined in appendix A.

1.6 Verify Correct Installation

After installing Full Monte, launch Microsoft Project.

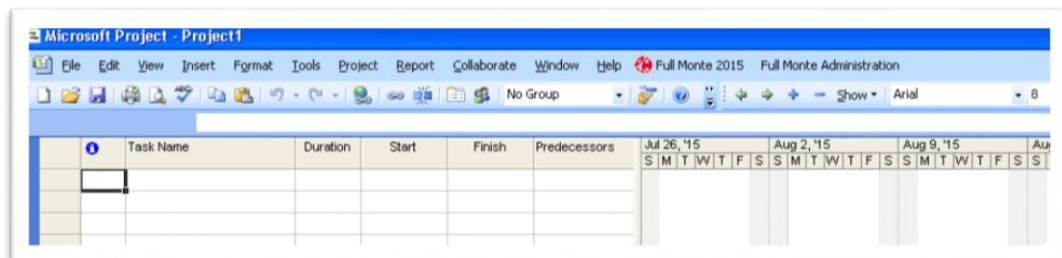
If messages similar to the following are displayed, please allow Microsoft Project to complete any additional configuration before attempting to access Full Monte.



The appearance of the menu items, as shown in the following screenshots, is confirmation that Full Monte had been correctly installed and is functional.

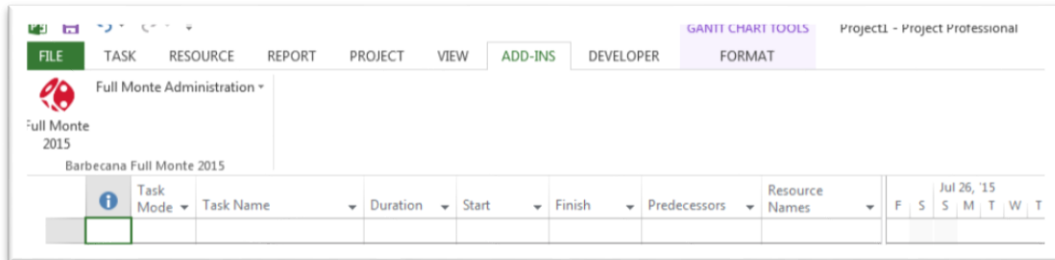
Microsoft Project 2007

In Microsoft Project 2007, Full Monte will appear as two additional items on the menu bar.



Microsoft Project 2010, 2013, 2016

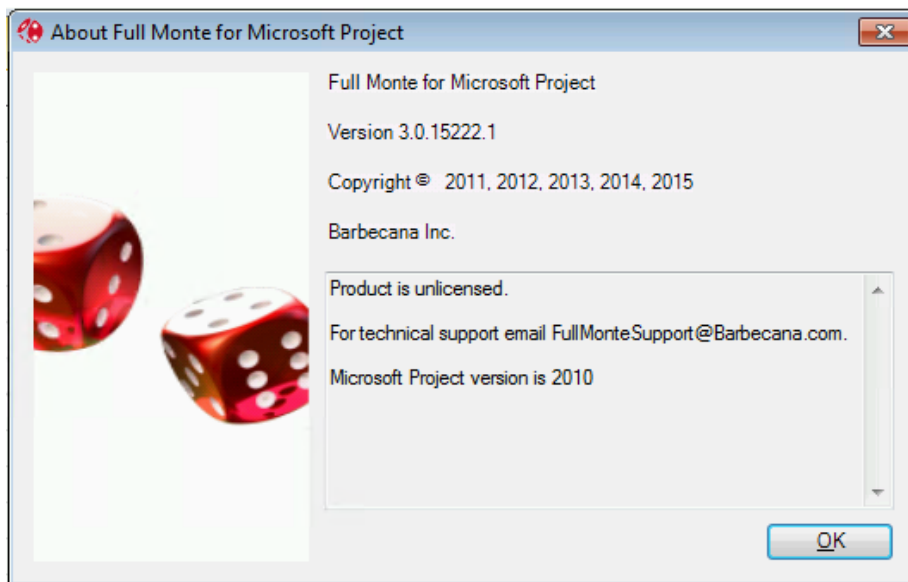
In versions of Microsoft Project later than 2007, Full Monte will appear as items on the Add-Ins menu tab.



If the Full Monte menu items do not appear within a few seconds of launching Microsoft Project, or are displayed but are unresponsive, please review the trouble shooting steps described in Appendix A of this manual.

About Full Monte

Selecting **Full Monte Administration, About Full Monte** will display information similar to the following:



NOTE: In this example the product is shown as 'unlicensed'. This will be the case until you begin your trial period (by first using the product) or register a purchased license.

Chapter 2: Registration

2.1 Trial / Academic Mode

When Full Monte is first used after installation, it will initialize a 30-day trial license.

NOTE: If the same major version of Full Monte has previously been installed on the same computer, Full Monte will use any previously installed license. If the previous license is an expired trial license (first used more than 30 days prior), Full Monte will immediately switch to 'academic' mode.

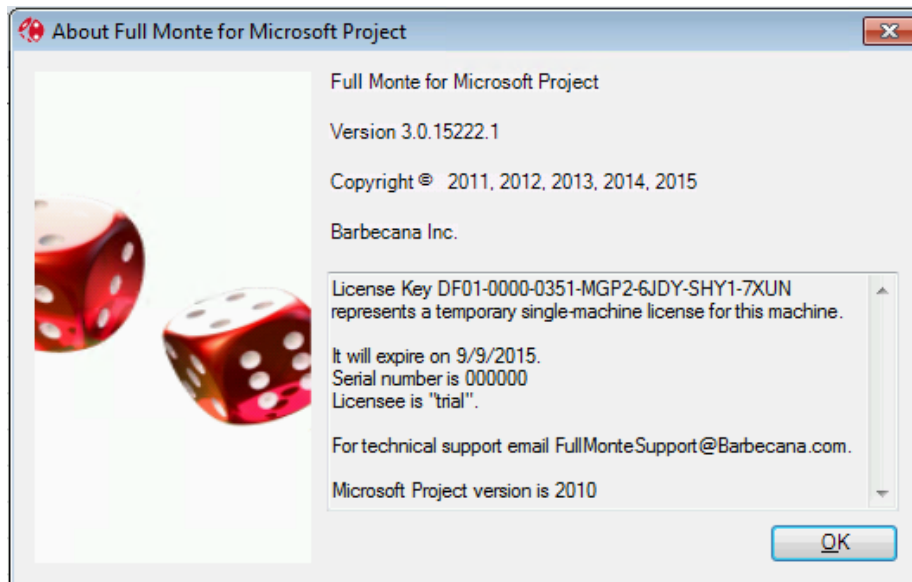
The 30-day trial license enables the full functionality of the product, with no restrictions, for 30 days.

After the 30-day trial period expires, the software will change to a limited 'academic' mode that allows continued use of the software with two restrictions.

1. Full Monte can only be used with projects of 100 tasks or less
2. Full Monte cannot be used with projects that contain external links

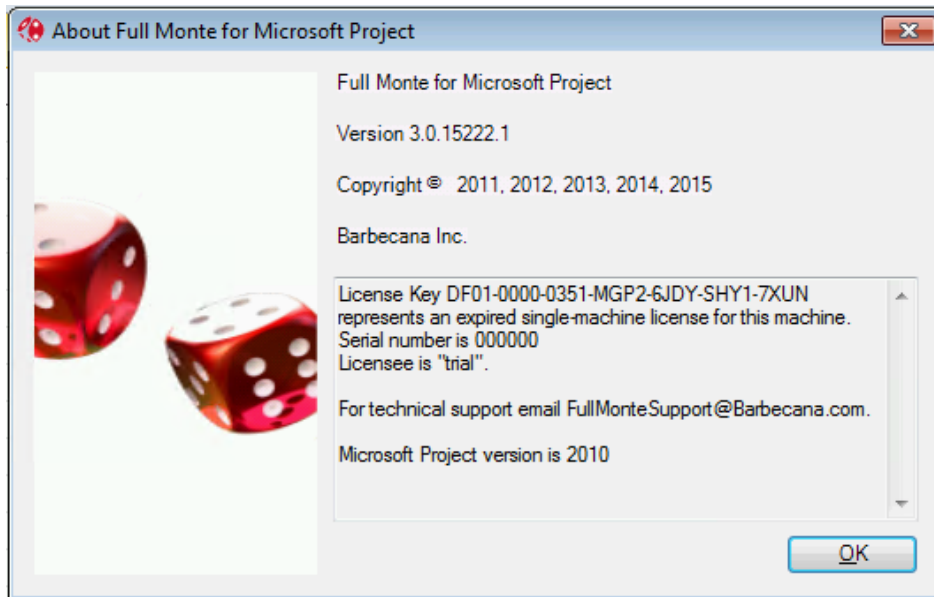
At any time, the software can be fully activated by entering a license key that can be purchased from Barbecana Inc.

The current status of the software can be viewed by selecting **Full Monte Administration, About Full Monte**.



The About Full Monte dialog includes version information (that may be requested for support purposes) and details of the License Key and Serial Number (if a purchased license has been installed). If the software is in 'trial mode', the license will state it is 'temporary single-machine license', the serial number will be all zeros, and the Licensee will be 'trial'.

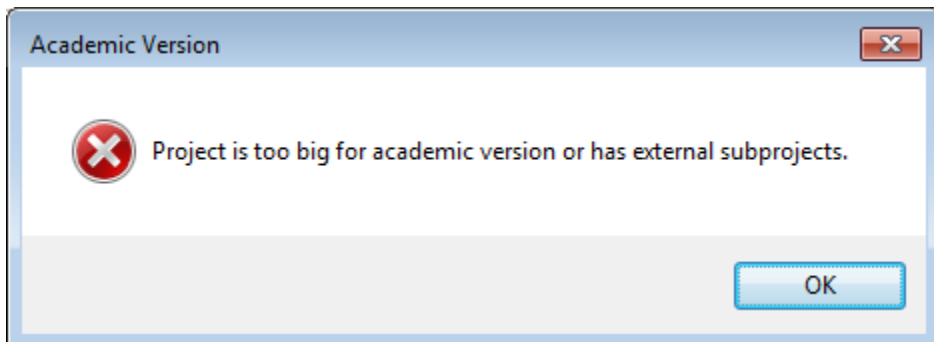
Once the 30-day trial period has elapsed, the About Full Monte dialog will show the license as 'an expired single machine license'.



The software will now be in 'academic' mode with the limitations set as follows:

1. Full Monte can only be used with projects of 100 tasks or less
2. Full Monte cannot be used with projects that contain external links

If you attempt to use Full Monte on a project that does not meet these 'academic' mode criteria, the following message is displayed:



2.2 Purchasing a License

Individual perpetual licenses for Full Monte can be purchased through our web site at www.barbecana.com.

For larger quantities and for details of any applicable corporate/volume discounts, please contact Barbecana sales at sales@barbecana.com or call the number on our web site.

For each license purchased, **you will be allocated a unique 5 digit numeric serial number**. This serial number is used to track each licensed copy of the software for maintenance and support purposes.

*NOTE: Customers who purchased Full Monte before the introduction of the unique 5 digit serial number (typically those with current license keys in the **IPRL-XXXXXX-XXXXXXXX-XXXXXXXX-***

XXXXXXXX-XX-XXXX format), will need to contact Barbecana (sales@barbecana.com) providing their old license key/purchase order number to determine their allocated serial number.

2.3 Registering the Software

While the 5 digit numeric serial number uniquely identifies your right to use a licensed copy of the software, the actual license is installed into the software using a two part license key comprising:

1. A **License Key** in the form of **DF01-XXXX-XXXX-XXXX-XXXX-XXXX-XXXX** (where X can be any alphanumeric character)

*NOTE: If you already have a license key from an older version of Full Monte in the format of **IPRL-XXXXXX-XXXXXXXX-XXXXXXXX-XXXX-XXXX** or **AF01-XXXX-XXXX-XXXX-XXXX** (where X can be any alphanumeric character) you will need to obtain a new key for the new version. Customers with a current maintenance agreement can obtain the new license key free of charge.*

2. A **Licensee** name in the form of a string of characters, for example “**Barbecana Inc**”.

The **License Key** contains coded information including the Serial Number, Licensee, and Trial Expiration Date (if applicable). The **License Key** and **Licensee** name must be used together exactly as provided.

The **License Key/Licensee** name may be provided to you either by Barbecana or your company Full Monte license administrator.

NOTE: To obtain a License Key from Barbecana, you will require the unique 5 digit serial number provided to you when you purchased the software.

To obtain a License Key from Barbecana, please choose the **Full Monte Administration, Register Full Monte** option from the Microsoft Project Add-Ins menu.



Click the 'Get a License Key' button.

Getting a Single-Machine License Key

If you have not yet purchased a license, you need to do that first. Either email us a purchase order at sales@barbecana.com, or use a credit card or PayPal by clicking "Buy Now." If you do not have Internet access, go to barbecana.com on another machine.

[Buy Now](#)

If you have already purchased a license, complete the form below and email it to us by clicking Email or (if you do not have Internet access) by saving it to a file and emailing it to us at sales@barbecana.com from another machine. Or you can just write down the information or capture the screen and email it.

* **Name**

Company

* **Email address**

* **Serial number**

(* = Required)

[Help](#) [Cancel](#) [Email](#) [Save](#)

Entries with an asterisk (*) are mandatory.

Name – Please enter the name of the end user to whom the license will be allocated

Company – This is an optional entry and will typically be the Company/Organization name that purchased the license.

Note: If the Company name is provided then this will be used as the Licensee name for the license. If no company is specified then the Name entered will be used for the Licensee name.

Email Address – This is the email address where the license information will be sent.

Serial Number – This is the unique 5 digit numeric serial number issued when the license was purchased.

After the information is entered, click **Email** to generate an email to Barbecana.

The following confirmation will be displayed:

Email Sent

Email has been placed in your outbox, with a copy to myname@company.com. Look for a response within one business day. (It is not automated because we need to verify your purchase.)

[OK](#)

The email will contain information similar to the following (and can be viewed before sending).

To: sales@barbecana.com

::My Name::My Company::myname@company.com::Serial Number::NNNNN::FM_2016_MSP
[Version 3.0.15212.2]::3C970E08740F::

The encoded information in the email is as follows:

- Name
- Company
- Email
- Serial Number (5 numeric digits)
- Barbecana Product being registered (Product Version)
- MAC address of the registered computer (may be removed)

If you prefer, you may enter the Name, Company, Email Address, and Serial number into a manually generated email, or call our office to provide the information over the phone.

After Barbecana has validated the supplied information, the License Key and Licensee information will be returned by email (or can be provided by phone):

The body of the email from Barbecana will contain information similar to the following.

Your Full Monte 2016 (MSP) license key is [DF01-XXXX-XXXX-XXXX-XXXX-XXXX]

Your serial number is NNNNN. Please refer to this number in requests for support or new license keys.

The registered Licensee is [My Company]

Please enter the license key and registered licensee name (excluding the square brackets) into the fields provided in the registration dialog, taking care to differentiate between 0/O and 1/I when entering the license key. The Licensee name must be entered exactly as shown.

Please do not hesitate to email Barbecana Full Monte Support (fullmontesupport@barbecana.com) for questions regarding the software.

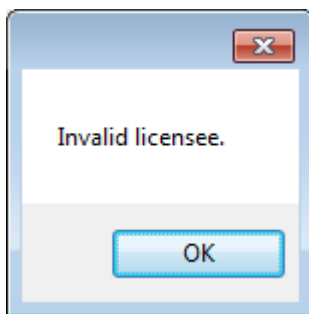
On the **Full Monte Administration** menu choose **Register Full Monte**. The Register License dialog will be displayed.



Enter the license key exactly as provided by Barbecana. Once a valid license key has been entered you may then enter the Licensee name, again exactly as provided by Barbecana.



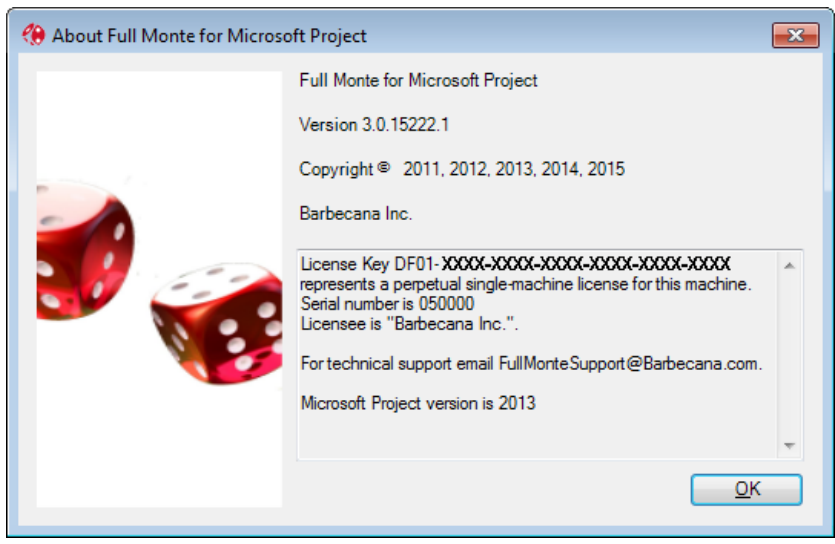
If the Licensee information does not match the encoded information in the License Key the following dialog will be displayed:



After clicking OK to dismiss the Invalid Licensee dialog, you must again choose Register Full Monte from the Full Monte Administration menu.

If the correct License Key and Licensee information is entered then the Registration process is completed by clicking OK on the dialog.

The installed license can be verified by selecting the Full Monte Administration, About Full Monte menu option.



Chapter 3: Field Mapping, Data Import/Export, and Data Conversion

3.1 Introduction

Full Monte uses Microsoft Project's custom fields to store its data. Since other applications may also use these fields, it is important to specify which ones should be used by Full Monte in order not to create conflicts.

The term "Field mappings" refers to the process of choosing which custom fields are used.

NOTE: As different projects may use different fields for other purposes, Full Monte allows each project to have its own mappings. There is also a default mapping used by projects new to Full Monte. (When a new project is opened for the first time Full Monte checks for any potential conflicts.)

By default, Full Monte 2016 uses far fewer custom fields than previous versions of Full Monte, making it easier to avoid conflicts (See Appendix B for a comparison of custom field utilization). On the other hand it allows you to add additional mappings for data that was not available to map in previous versions, so that you can:

- Share more results with other Microsoft Project users who do not have Full Monte
- More easily migrate data between third party applications and Full Monte
- Set up bi-directional sharing of input data between Microsoft Project and Full Monte

Most of these user fields are on the task table, but unlike previous versions, Full Monte 2016 also supports two user fields on the resource table as well (for Resource Rate uncertainty information), though by default they are not mapped.

3.2 System vs User vs Project Mappings

Full Monte remembers up to three different sets of field mappings. In the simplest case, all three sets of mappings will be identical but in practice each user may specify their own default custom mappings for new projects. It is also possible that each project may have its own unique mappings if the available custom fields are not consistent across projects.

System Mappings

These are built into the product and are the initial set of default mappings applied when Full Monte is first used.

The default System field mappings are shown in figure 3.1

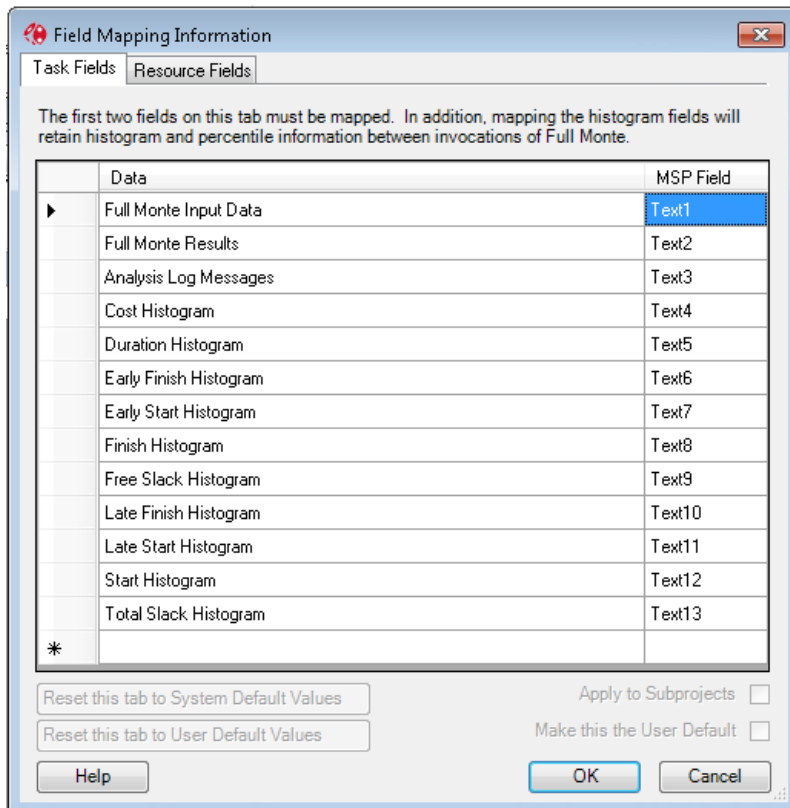


Figure 3.1

User Mappings

These are an optional set of field mappings (stored for each Full Monte user) that, if defined, are used for new projects in place of the default System mappings. This allows the user to remove any standard mappings that are not required (with the exception of the two mandatory fields Full Monte Input Data and Full Monte Results) and also add their own user specific mappings.

Project Mappings

The field mappings in use for each project are stored with the project and may be different from both the default System mappings and the current User mappings. While not an ideal scenario, primarily because it can be confusing, this may be necessary if projects are from different sources that have reserved different custom fields for other purposes.

NOTE: The standard Full Monte fields shown above contain data which is encoded to save space and are intelligible only by Full Monte. Additional 'human readable' data can also be mapped and this is explained in section 3.5.

3.3 Using Full Monte on a project for the first time

When Full Monte is first used with a project that has not been used with Full Monte before, it will employ either the User default mappings if defined, or the System default mappings if no User mapping has been specified.

Full Monte will verify if the mapping can be used on the opened project by scanning each mapped custom field for existing data.

NOTE: On a large project this may take some time. Please be patient.

If Full Monte finds no conflicts (no pre-existing data in the mapped custom fields), then the mappings will be saved into the project and the user can begin to use Full Monte.

However, if existing data is found in the required mapped fields, Full Monte will display a warning message describing the conflicts encountered as shown in figure 3.2.

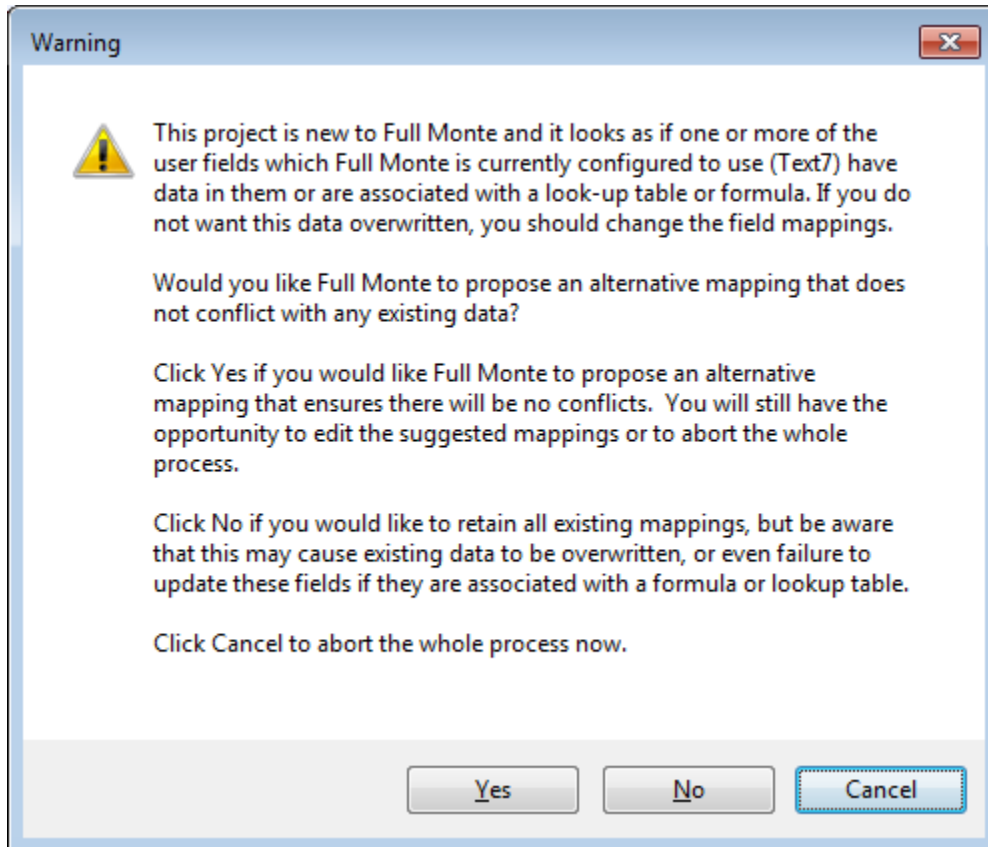


Figure 3.2

If you choose Yes, Full Monte will scan other custom fields looking for columns that currently contain no data. Again, this may take some time. As available custom fields are found they will be mapped to Full Monte fields. At the completion of the process the Field Mapping Information dialog will be displayed to allow the user to verify that required information has been successfully mapped. An example is shown in figure 3.3.

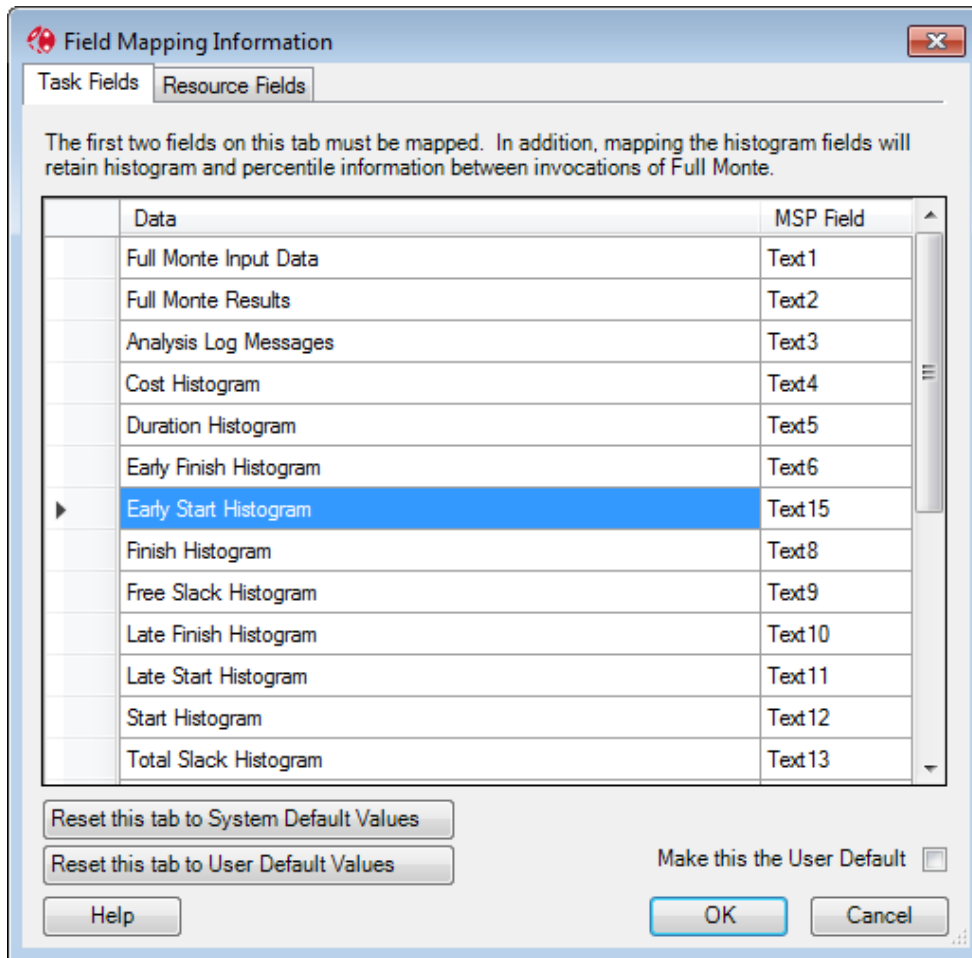


Figure 3.3

In this example, the 'Early Start Histogram' mapping has been changed from the default of custom field Text7 to Text15.

If the user clicks OK, this project specific mapping will be saved for future use with this project.

If the proposed mapping is not acceptable, perhaps because it failed to successfully map sufficient fields or the proposed fields are known to be required for other purposes, then the user has three choices:

- Manually modify the proposed mapping until it meets their requirements
- Reset the mapping to the User's default values
- Reset the mapping to the System default mapping.

If these choices result in mappings that use custom fields with pre-existing data then the user will be offered one final warning that data may be lost as shown in figure 3.4.

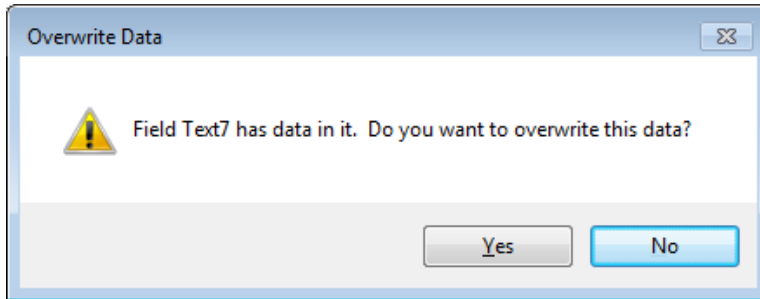


Figure 3.4.

If the user chooses to proceed, the custom mappings will be saved for the project.

3.4 Managing Field Mappings

To change mappings for the current project, select **Edit** and then **Manage Field Mappings**. You will see the dialog shown in figure 3.5.

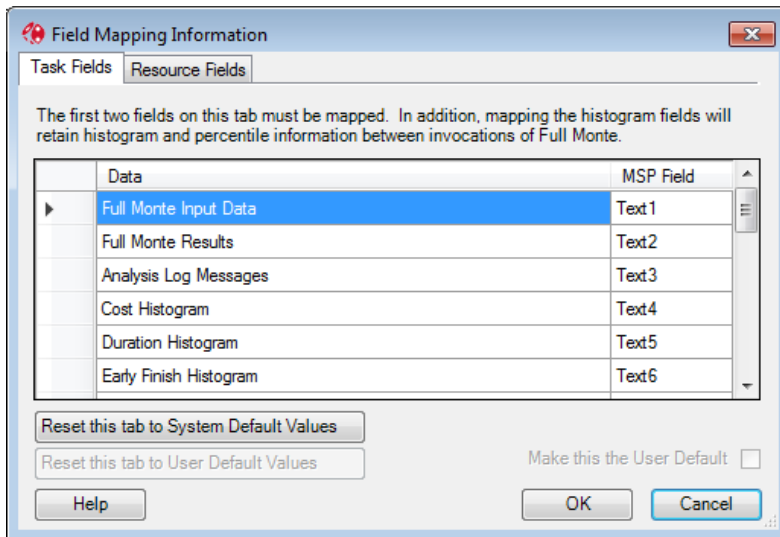


Figure 3.5

*NOTE: It is not possible to modify field mappings once project data has been changed in a Full Monte session. If the **Manage Field Mappings** option is disabled then you will need to close Full Monte (saving or discarding your data changes as appropriate) and then restart Full Monte.*

The dialog has two tabs, and always comes up with the task tab selected. The first column is a description of the Full Monte Data. In the second column, you see the names of the user fields to which they are mapped. To change a mapping, click on the field in column 2 that you wish to change and select a new mapping from the drop-down list that appears (see figure 3.6).

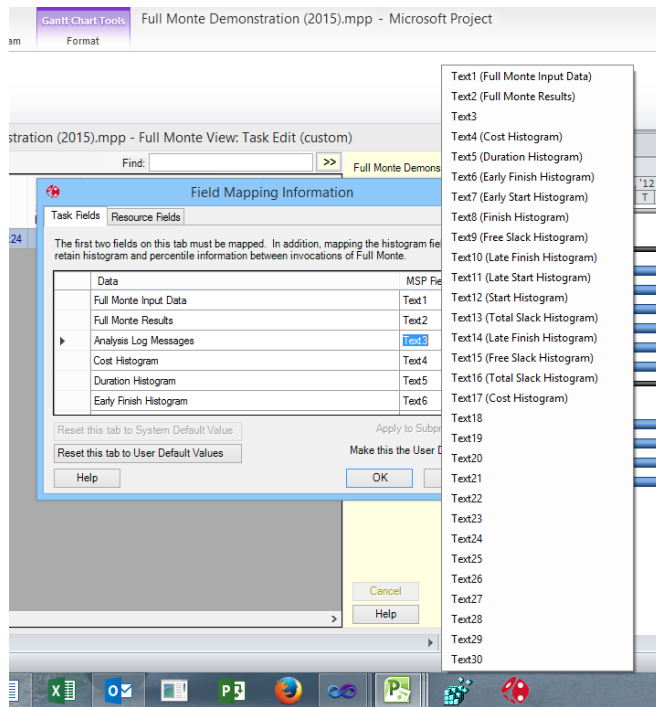


Figure 3.6

Select a new mapping by clicking on it.

NOTE: The list reminds you of any current data mapped to each field, but it does not stop you selecting one that is. If you do so the user field will temporarily be mapped to two different items of Full Monte data. This conflict must be resolved before you press OK.

If you are not interested in storing certain information (for example, the 'histogram of free slack' may be of no interest) you can delete it altogether by selecting the row (click on the left hand cell, and hit the Delete key.

NOTE: The only mandatory fields are "Full Monte Input Data" and "Full Monte Results". Removing unnecessary mapped fields reduces the time taken to open and save project data but may reduce functionality. For example if the mapping for Early Finish Histogram is removed, then the histogram will not be available for reports in a new Full Monte session until a risk analysis has been performed.

When you click OK, Full Monte will check that there is no data in any user field which is now mapped but which was not mapped when the dialog was opened. If there is you will be given the chance either to overwrite that data or to change the mapping.

Select the 'Make this the user default' check box to save the revised mappings as the current users default settings to be used when future projects are opened for the first time in Full Monte.

NOTE: Any changes to the users default mappings will not be applied to other projects with existing Full Monte data unless the user opens the Field Mapping dialog and clicks 'Reset this tab to User Default Values' as each existing project is opened..

The Resource tab works in a similar way but is simpler. You cannot add or removed rows. Instead of deleting the row, unmapped rows show “NONE” in the “MSP Field” column.

3.5 Mapping Additional Data

Beyond the standard fields shown in figure 3.1, the user can map additional fields for two purposes.

- Saving additional ‘human-readable’ data for use in standard Microsoft Project views
- Defining read/write fields that allow Full Monte data to be updated in Microsoft Project

To do this, scroll to the bottom of the mapped field list and click on the empty cell at the bottom of the “Data” column. You will get a cascading menu similar to that used to add columns to a view. When you select a data item, Full Monte will map it to the first available MSP user field of the appropriate type. You can of course change it as described above.

NOTE: By “available” is meant that it does not conflict with any existing Full Monte mapping. It may still conflict with other uses of the field, but this is checked later when you click OK.

See figure 3.7 for an example of mapping additional Full Monte data into Microsoft project custom fields for reporting purposes in Microsoft Project

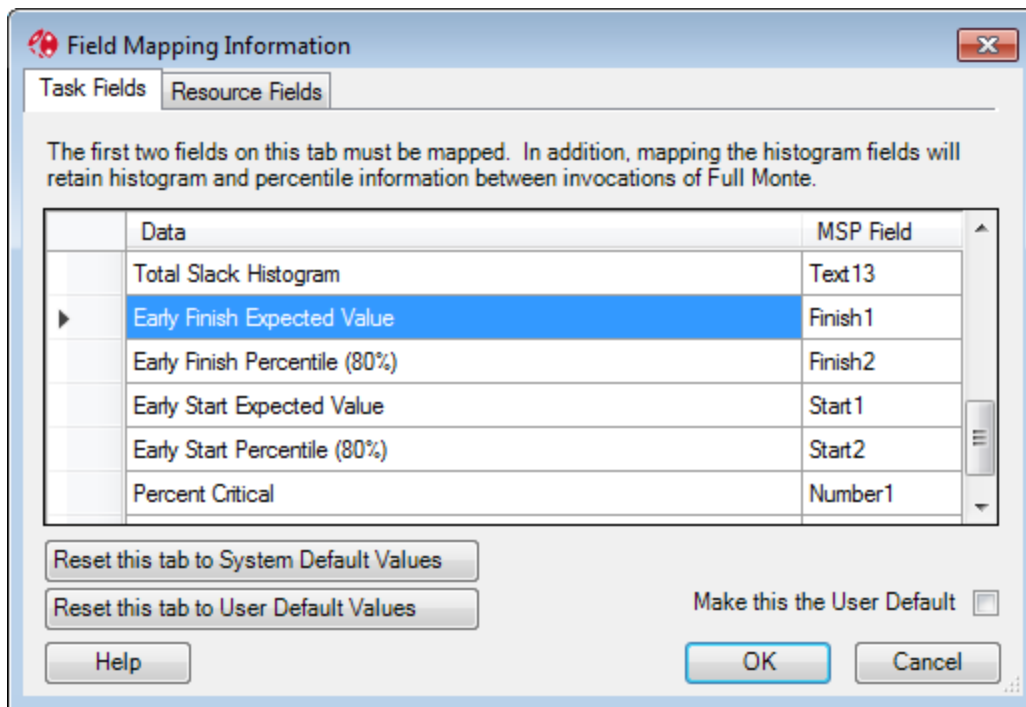


Figure 3.7

The Early Start/Finish Expected (Mean) values have been mapped to custom fields Start1/Finish1 and the Early Start/Finish P80 percentile dates have been mapped to Start2/Finish2. The activity Percent Critical data is being saved to custom field Number1.

When the user clicks OK, and assuming no conflict is detected, the custom field names in Microsoft project will be updated as shown in figure 3.8

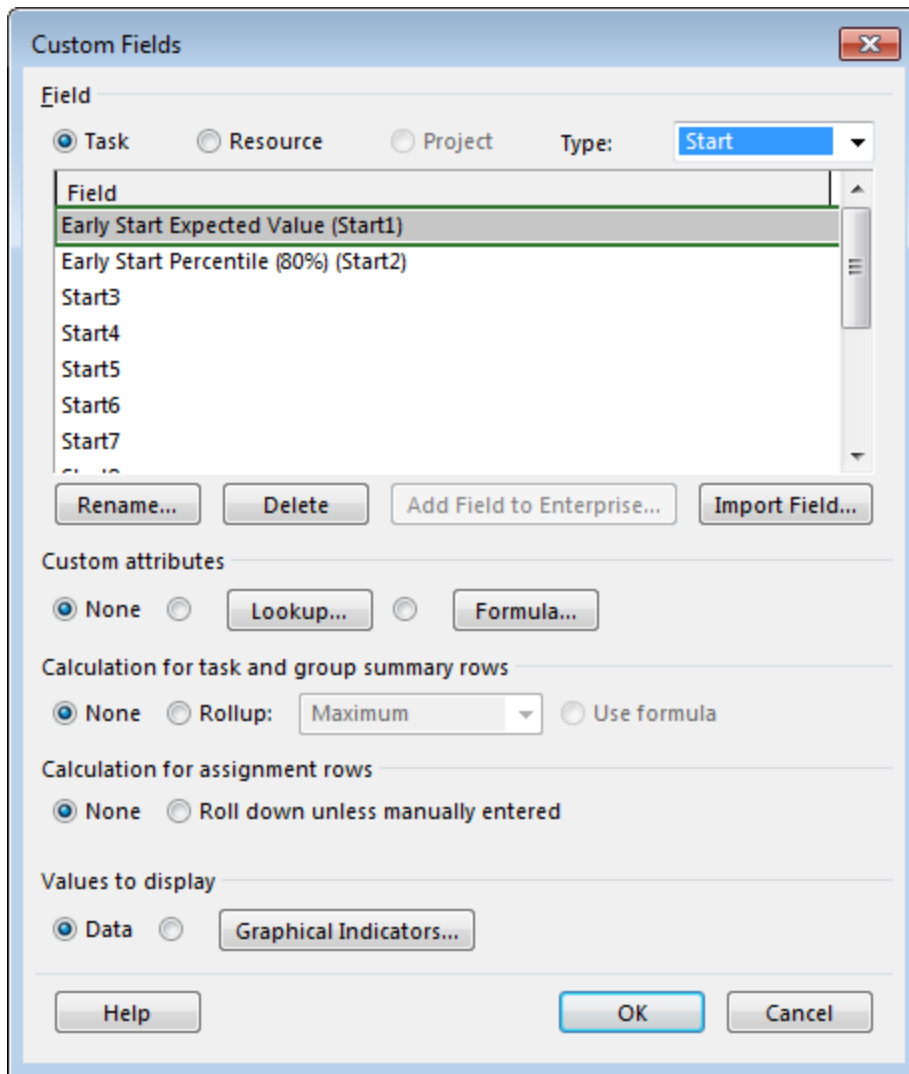


Figure 3.8

The data can then be included in standard Microsoft Project views as shown in figure 3.9

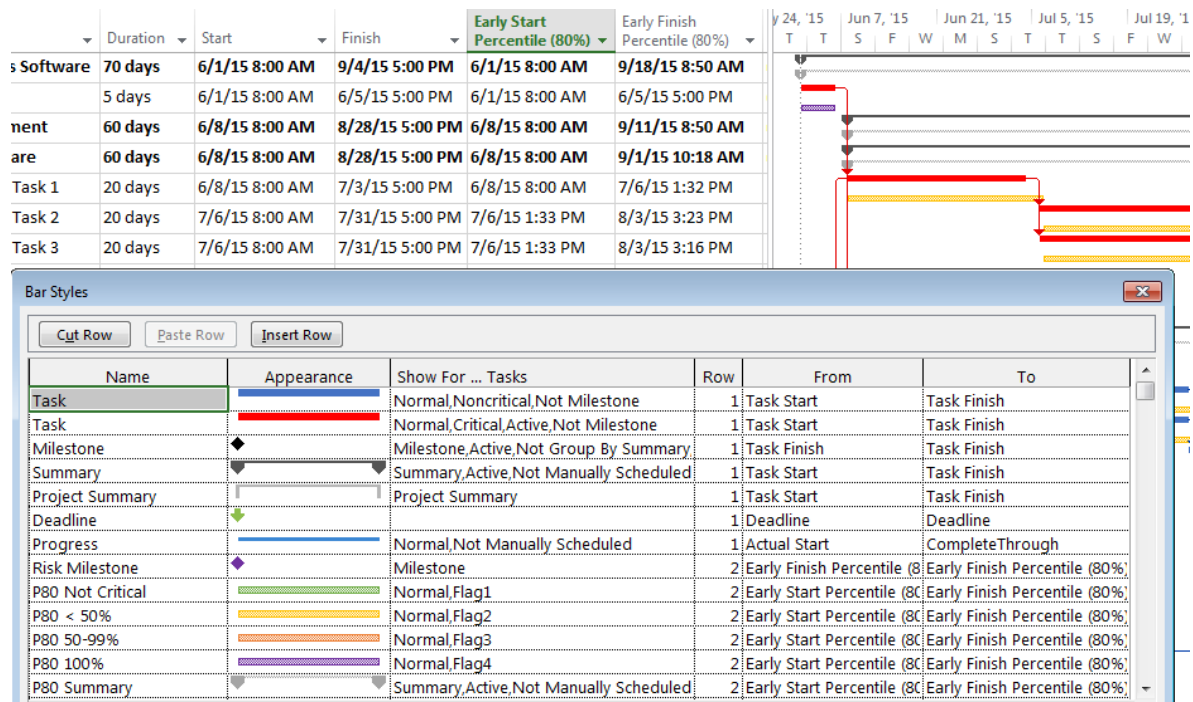


Figure 3.9

Defining Read/Write Fields

Certain data fields may be mapped so that information can be updated in both Microsoft Project and Full Monte. These fields are:

- Duration Distribution Type
- Duration Optimistic
- Duration Most Likely
- Duration Pessimistic

This allows users without access to Full Monte to update basic duration uncertainty information outside of Full Monte. When Full Monte loads data from a project with these fields mapped, it will attempt to read any existing data in these fields. If the data is missing or invalid, then any existing Full Monte data read from the Full Monte Input Data will take precedence. When the user finishes their Full Monte session and chooses to save Full Monte input data, the session data will be saved to both Full Monte Input Data and the mapped custom fields.

NOTE: Since the data saved to Microsoft Project custom fields may not be viewed in the same hierarchy as seen in Full Monte, all inherited values are converted to explicit values when saved and will subsequently be loaded into Full Monte as explicit (not inherited) values.

3.6 Data Import

Earlier versions of Full Monte featured the ability to migrate Deltek Risk+ uncertainty data into Full Monte. This feature has been replaced by an Import option on the File menu which allows basic task uncertainty data to be loaded from Microsoft Project custom fields.

Note: The Import facility is designed for infrequent/one-off loading of data from external systems. For recurring data transfer we suggest permanently mapping input fields as shown in section 3.5

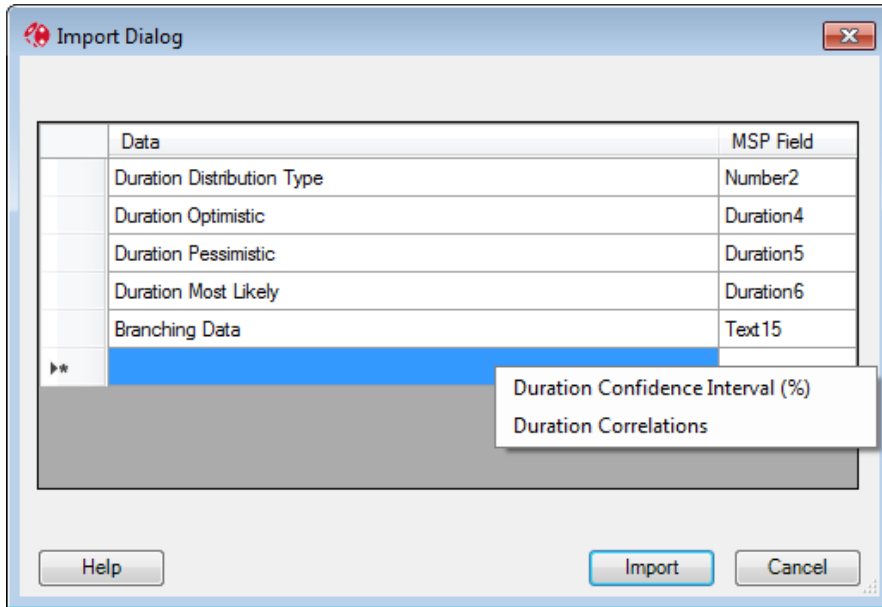


Figure 3.10

Figure 3.10 shows an example of the Import Dialog configured to load basic Risk+ uncertainty data.

The Duration Distribution Type field can be imported from either Numeric or Text custom fields. Only valid data will be loaded as defined in the following table:

Distribution Type	Numeric Field	Text Field
None	0	(None) or <blank>
Beta	4	Beta
LogNormal	5	LogNormal
Normal	3	Normal
Triangular	2	Triangular
Uniform	1	Uniform

3.7 Data Export

Full Monte data and results can be saved to Microsoft Project custom fields on a one-off basis using the File; Export... menu option.

*Note: Full Monte does not check for any existing data in the custom fields specified for the export. Any existing data in those fields will be **overwritten without warning** by the export.*

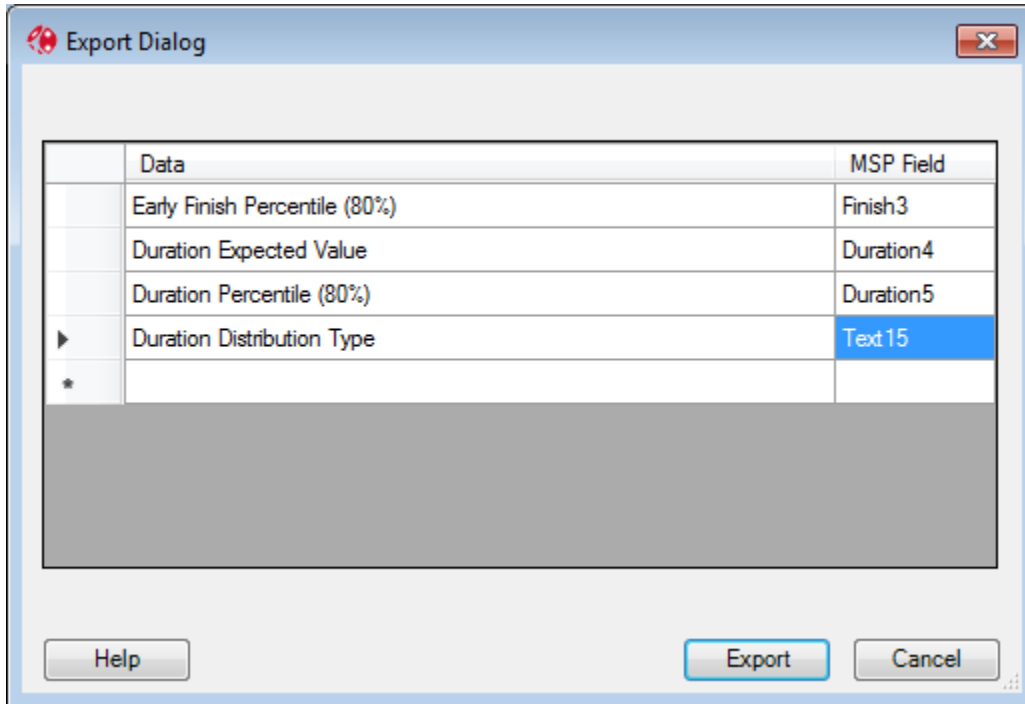


Figure 3.11

While most Full Monte fields can only be exported to Microsoft Project custom fields of the same data type, some fields can be exported to multiple data types.

Duration Distribution Type – This can be exported to either a Numeric or Text custom field.

Export values will be:

Distribution Type	Numeric Field	Text Field
None	0	(None)
Beta	4	Beta
LogNormal	5	LogNormal

Normal	3	Normal
Triangular	2	Triangular
Uniform	1	Uniform

Duration Optimistic/Most Likely/Pessimistic – These fields can be exported to either Duration or Numeric custom fields. When exported to custom fields of type Duration, the values will be exported as durations. When exported to numeric custom fields, the values will be exported as Percentages.

3.8 Conversion from Full Monte 2.1

When a project that contains data from Full Monte 2.1 is first opened the dialog show in figure 3.12 is displayed

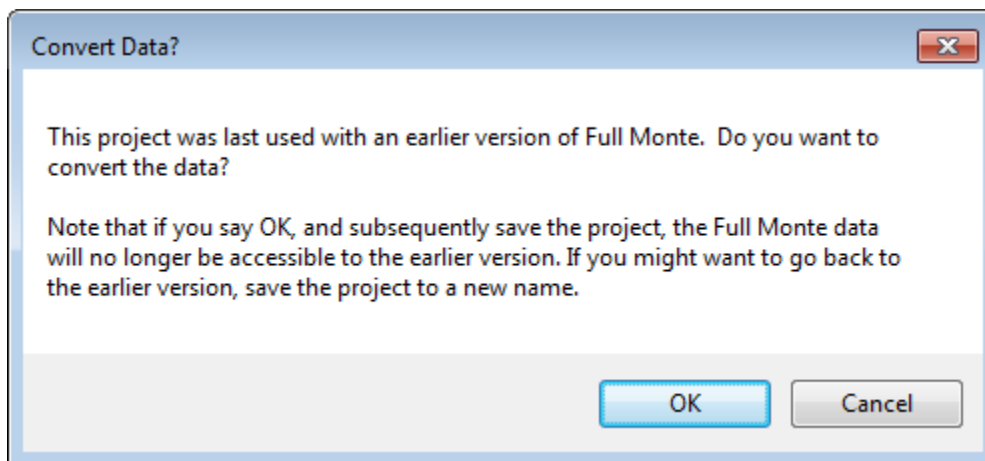


Figure 3.12

Clicking OK will convert the existing input data into the correct format for Full Monte 2016 and apply the current mappings. The process will then continue as per section 3.3.

Note: Where you have linked projects, each project must be opened and converted individually.

Note: Unlike Full Monte 2.1 (that required all linked projects to have the same mappings), Full Monte 2016 allows linked projects to have different Full Monte field mappings. This greatly simplified the process of performing a Schedule Risk Analysis on linked projects from multiple sources.

Appendix A: Installation Trouble-Shooting

In the event that Full Monte does not appear on the Microsoft Project menu after installation please review the following trouble shooting suggestions.

A.1 Microsoft Project 2007

Add the **COM Add-Ins** menu item to the Microsoft Project 2007 menu as follows.

From the Microsoft Project 2007 **Tools** menu, choose **Customize; Toolbars**.

On the **Commands** tab, select **Tools** and locate the **COM Add-Ins** command as shown in figure A.1.

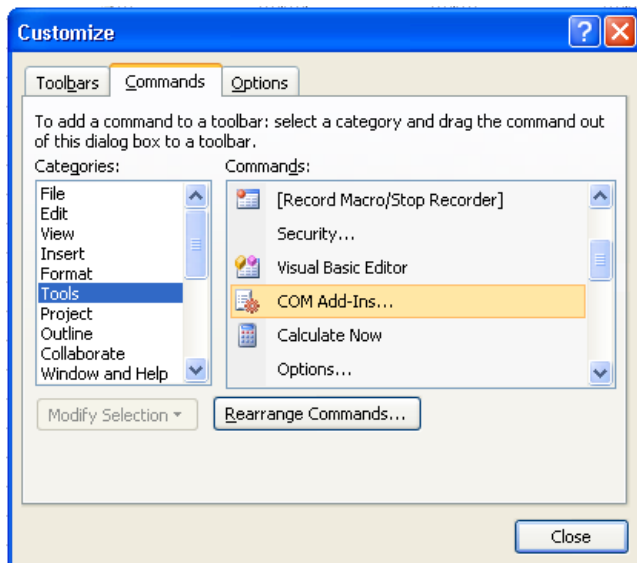


Figure A.1

Click and Drag the **COM Add-Ins** command from the dialog up onto the Microsoft Project **Tools** menu. The menu will expand automatically. Drop the **COM Add-Ins** command on the **Tools** menu. Figure A.2.

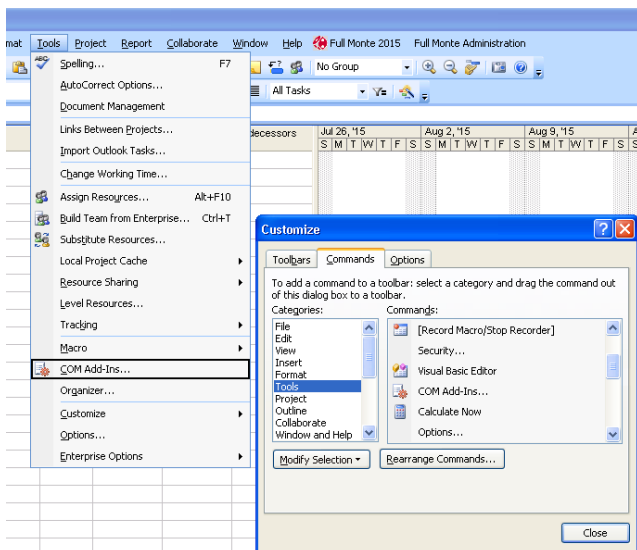


Figure A.2

*NOTE: To subsequently remove the **COM Add-Ins** command from the tools menu, display the **Tools; Customize** dialog, open the **Tools menu** and drag the **COM Add-Ins** command from the menu onto the **Customize** dialog.*

Click on the **COM Add-Ins** item on the **Tools** menu. A dialog similar to the following will be displayed.

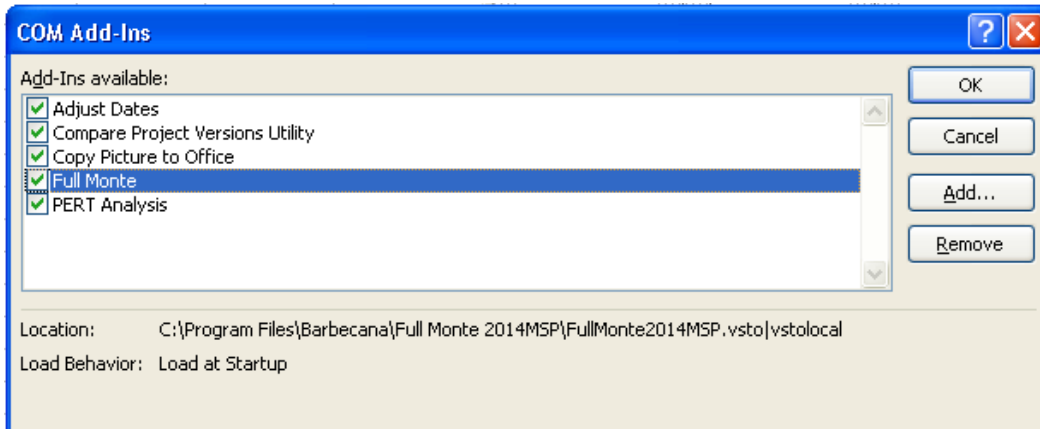


Figure A.3

In this example Full Monte is listed and shown as enabled. If Full Monte is not listed then please retry the installation (verifying you are using an account with Administrator rights).

If Full Monte is listed but not enabled, please select the box to enable Full Monte. Click OK to close the COM Add-Ins dialog. If the Full Monte menu items do not appear or are unresponsive when clicked, please again open the COM Add-ins dialog. Select the Full Monte row as shown in figure A.4.

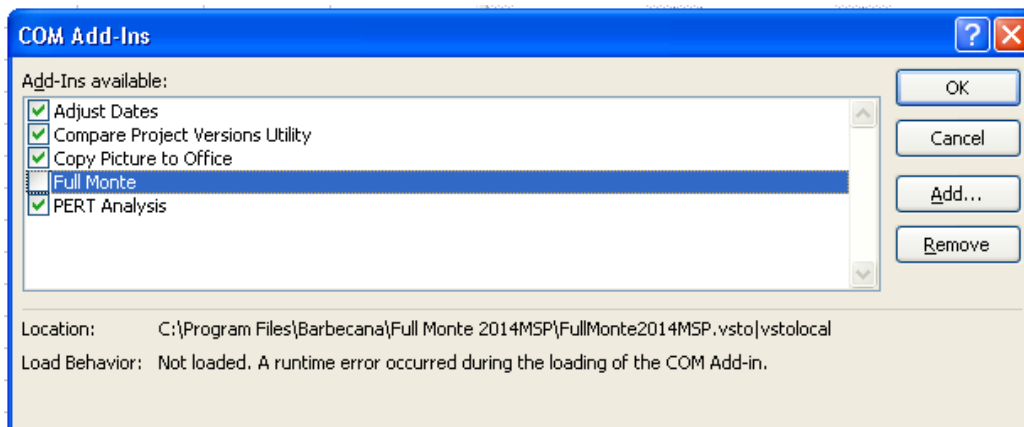


Figure A.4

After selecting the Full Monte row, observe any message against 'Load Behavior' at the bottom of the dialog. If the message 'Not loaded. A runtime error occurred during the loading of the COM Add-In.' is displayed, then the most likely cause is a missing pre-requisite. Please review the **Missing Pre-requisite** section A.3.

After installing any missing pre-requisites you will again need to re-enable Full Monte in the **COM Add-Ins** dialog.

A.2 Microsoft Project 2010, 2013, 2016

Open the **Project Options** dialog.

From the **File** menu, choose **Options** and select the **Add-Ins** tab as shown in figure A.5.

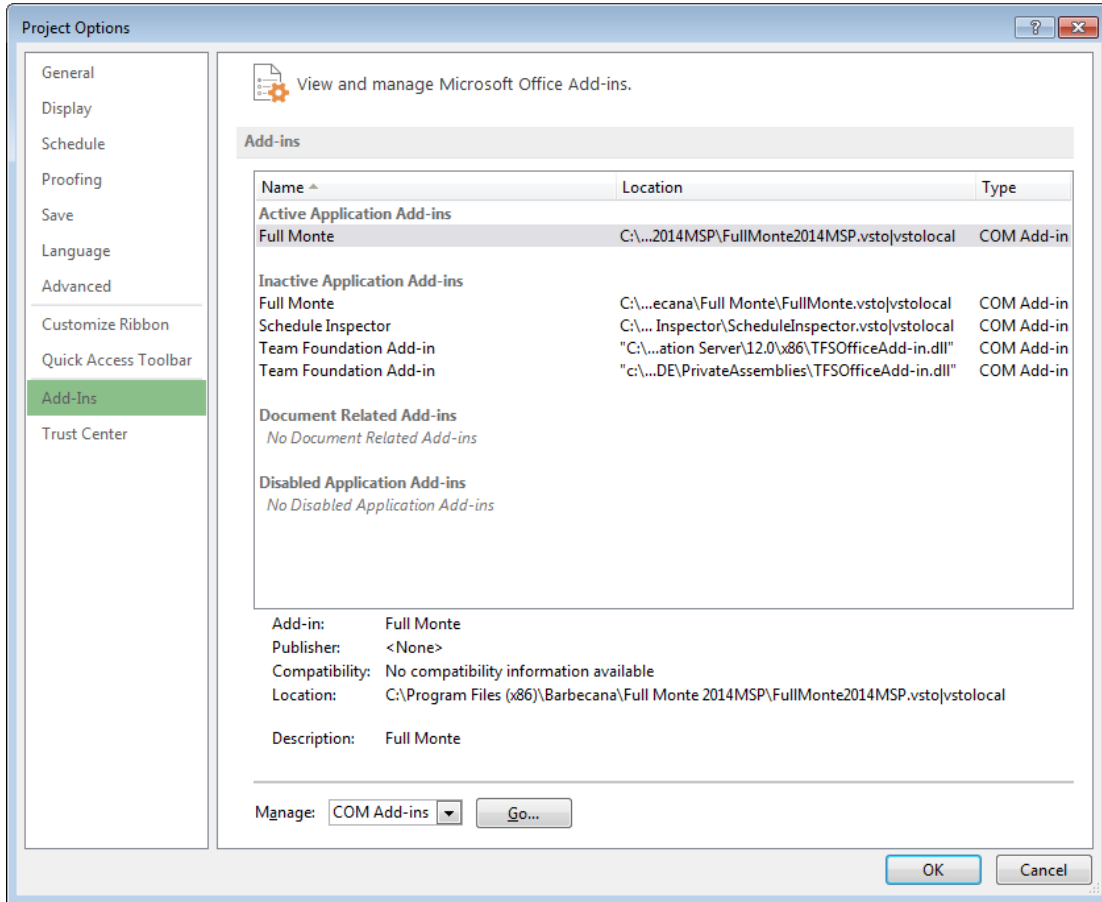


Figure A.5

Choose **Manage 'COM Add-Ins'** and click **Go...** A dialog similar to the example in figure A.6 should be displayed.

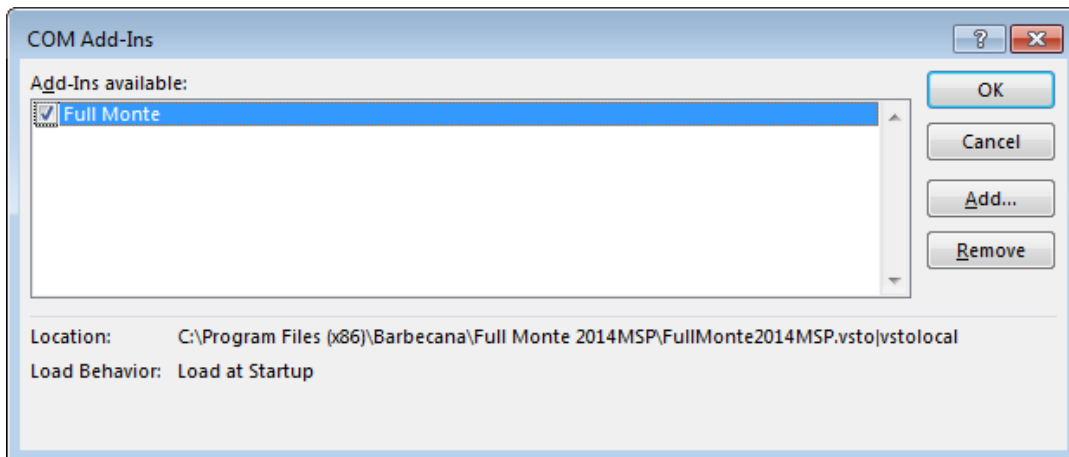


Figure A.6

In this example Full Monte is listed and shown as enabled. If Full Monte is not listed then please retry the installation (verifying you are using an account with Administrator rights).

If Full Monte is listed but not enabled, please select the box to enable Full Monte. Click OK to close the COM Add-Ins dialog. If the Full Monte menu items do not appear or are unresponsive when clicked, please again open the COM Add-ins dialog. Select the Full Monte row as shown in figure A.7.

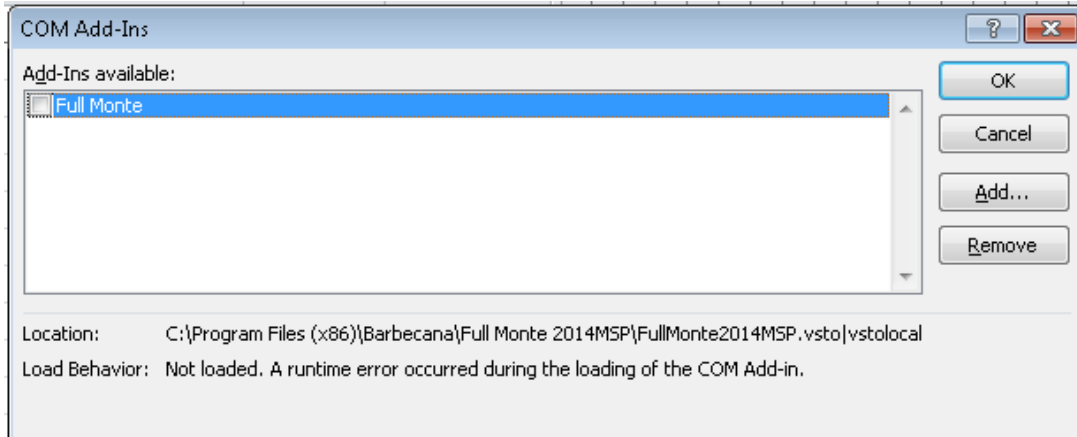


Figure A.7

After selecting the Full Monte row, observe any message against 'Load Behavior' at the bottom of the dialog. If the message 'Not loaded. A runtime error occurred during the loading of the COM Add-In.' is displayed, then the most likely cause is a missing pre-requisite. Please review the **Missing Pre-requisite** section A.3.

After installing any missing pre-requisites you will again need to re-enable Full Monte in the COM Add-Ins dialog.

A.3 Missing Pre-Requisites

The exact pre-requisites required by Full Monte depends on multiple factors that include:

- Version of Windows
- Version of Microsoft Project
- Other programs previously installed/removed.

NOTE: When programs are uninstalled from Windows, they often leave behind components that might be shared with other applications. These 'orphaned' shared components will remain available to other applications but may not appear in the list of installed programs.

While the Full Monte installation program will attempt to install any missing pre-requisites, it may fail for several reasons including:

- No access to the internet
- Conflicts with other installations
- Mistakenly believing a pre-requisite is already installed

The following list describes the components required. The files can be downloaded from the Microsoft download center if they are not successfully installed by the Full Monte installer.

Microsoft .Net Framework 4.0 Client Profile (4.0.30319)
Microsoft Visual Studio Tools for Office (VSTO) 2010 Runtime (10.0.50903)
Microsoft Visual C++ 2010 Redistributable (10.0.40219)
Microsoft Office 2007 PIA (12.0.4518.1014) - Microsoft Project 2007 only

NOTE: The version numbers in parenthesis are for guidance only and may be superseded by later versions from Microsoft.

Appendix B: Full Monte 2.1 vs Full Monte 2016 Custom Field Utilization

The following table presents a comparison of the **default** custom field mappings used by Full Monte 2.1 and Full Monte 2016.

Full Monte Data	Project Custom Field	
	FM 2.1	FM 2016
Cost Expected Value	Cost1	
Cost Standard Deviation	Cost2	
Cost Sensitivity Optimistic	Cost3	
Cost Sensitivity Pessimistic	Cost4	
Merge Point Delay	Duration1	
Total Slack Standard Deviation	Duration10	
Early Start Standard Deviation	Duration3	
Early Finish Standard Deviation	Duration4	
Late Start Standard Deviation	Duration5	
Late Finish Standard Deviation	Duration6	
Free Slack Expected Value	Duration7	
Free Slack Standard Deviation	Duration8	
Total Slack Expected Value	Duration9	
Early Finish Expected Value	Finish1	
Late Finish Expected Value	Finish2	
Optimistic Project Finish (sensitivity)	Finish3	
Pessimistic Project Finish (sensitivity)	Finish4	
Cost Sensitivity Attributable Variance	Number10	
Percent Active (branching)	Number6	
Percent Critical	Number7	
Sensitivity Index	Number8	
Sensitivity Attributable Variance	Number9	
Early Start Expected Value	Start1	
Late Start Expected Value	Start2	
Full Monte Input Data (Mandatory)	Text1	Text1
Early Start Histogram	Text11	
Early Finish Histogram	Text12	Text7
Late Start Histogram	Text13	Text11
Late Finish Histogram	Text14	Text10
Free Slack Histogram	Text15	Text9
Total Slack Histogram	Text16	Text13
Cost Histogram	Text17	Text4
Analysis Log Messages	Text18	Text3
Full Monte Results (Mandatory)		Text2

Duration Histogram		Text5
Finish Histogram		Text8
Start Histogram		Text12

With Full Monte 2016 for Microsoft Project, all data that was previously stored in Cost, Duration, Number, Start and Finish custom fields has now been consolidated into a single Text field (Full Monte Results). This dramatically reduces the total number of custom fields required for Full Monte data.

Furthermore, the user can choose to modify the default mappings to just two mandatory fields (Full Monte Input Data and Full Monte Results).

Note: If histogram data is not mapped to custom fields then histogram and percentile data will not persist between sessions and a Risk Analysis must be performed to re-create the data before histogram and percentile data will be available for viewing/reporting in a new session.

Barbecana recommends that histogram data for important fields like 'Early Finish' is mapped to a custom field so that it persists between sessions.

As well as the mandatory and suggested mapped fields, the user can also add mappings for any other Full Monte data they wish to be available in a Microsoft Project custom field. This includes uncertainty and percentile data. The example in figure B.1 includes the mapping of the Optimistic Duration (Duration Optimistic) and the P80 Early Finish (Early Finish Percentile (80%)).

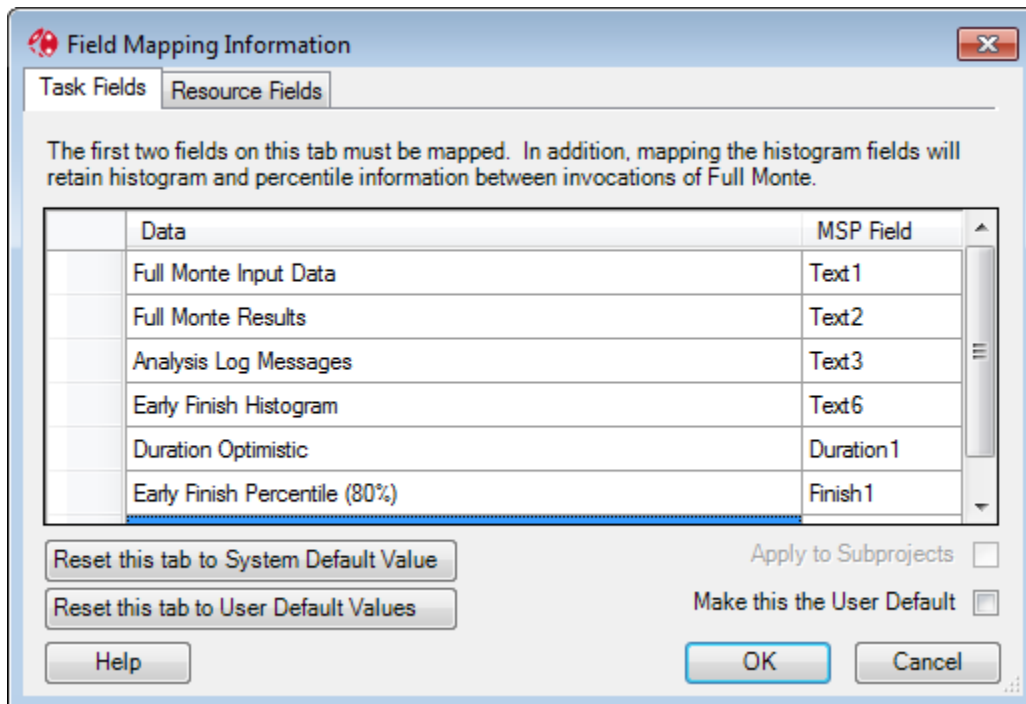


Figure B.1

External subprojects

Full Monte 2016 no longer requires that linked projects share the same field mappings. This greatly simplifies performing a schedule risk analysis on an IMS comprising schedules from different sources.

Appendix C: Conversion from Full Monte 2.1

When a Microsoft Project file previously used with Full Monte 2.1 is opened in Full Monte 2016, the dialog shown in figure C.1 is displayed.

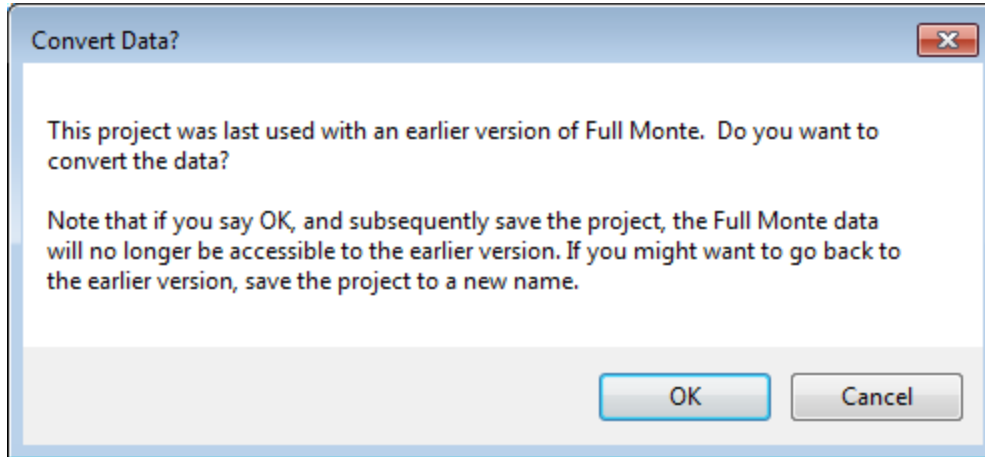


Figure C.1

The data conversion process is one-way which means after conversion Full Monte 2.1 will no longer recognize any Full Monte data in the project. If you anticipate a need to use an earlier version of Full Monte then you must either not save the project or save the project to a new name after conversion.

To abort the conversion simply click Cancel.

If you select OK, the existing Full Monte 2.1 data will be converted into the new format used by Full Monte 2016. This will release any Microsoft Project custom fields that are no longer required by the new Full Monte 2016 mappings. Full Monte will then display the Task Edit view.

When you first close Full Monte 2016 after converting an existing project, one final warning will be issued (figure C.2) to remind you to save the file to a new name if you wish to retain a version containing the original Full Monte 2.1 data.

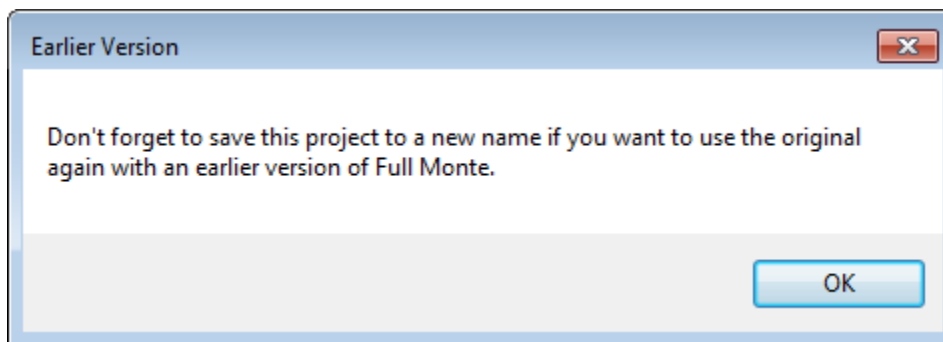


Figure C.2

Appendix D: Full Monte 2016 and Project Server

Full Monte can be used as normal with Microsoft Project projects that are opened from Microsoft Project Server. Since all Full Monte data is stored in regular Microsoft Project custom fields, any data entered into Full Monte will be saved back to the Project Server using those custom fields (Text1-30, Start1-10 etc.) as defined in the Full Monte project field mappings (see chapter 3 for a full discussion regarding field mapping).

In Microsoft Project server it is possible to define Enterprise custom fields in addition to the standard custom fields support by Microsoft Project Standard/Professional.

Full Monte 2016 has been enhanced to add support for Project Server Enterprise Fields when available.

Note: No special Enterprise Fields are required for Full Monte to work with projects opened from Project Server but using Enterprise fields as described below can free up existing regular custom fields for other purposes.

Full Monte supports Enterprise Fields with Microsoft Project Server 2010 and later.

The major difference between the standard pre-defined custom fields in a standalone copy of Microsoft Project and Enterprise fields in project Server is that Enterprise Fields are created/named by the Project Server administrator and are in addition to the regular custom fields (Text1-30 etc.).

Where an Enterprise field has been created with a name recognized by Full Monte, it will be automatically used by Full Monte for all projects created using the Project Server definition.

D.1 Creating Project Server Enterprise Fields

New Enterprise custom fields are created on the Project Server Settings/Enterprise Custom Fields form.

Site Actions | John Owen

Project Web App > Enterprise Custom Fields and Lookup Tables

View a summary of the custom fields and lookup tables defined for Project Web App. From this page, you can also drill in to create a new custom field or lookup table, or modify the definition of an existing custom field or lookup table.

Project Web App | Home

Enterprise Custom Fields

New Field | Copy Field | Delete Field

Field	Department	Entity	Type	Behavior	Formula	Graphical indicators	Lookup Table
Analysis Log messages		Task	Text	Not required	No	No	
Cost Type		Resource	Text	Not required	No	No	Cost Type
Early Finish Histogram		Task	Text	Not required	No	No	
Early Finish Percentile (80%)		Task	Date	Not required	No	No	
Early Start Histogram		Task	Text	Not required	No	No	
Flag Status		Task	Flag	Not required	No	No	
Full Monte Input Data		Task	Text	Not required	No	No	
Full Monte Input Data		Resource	Text	Not required	No	No	
Full Monte Results		Task	Text	Not required	No	No	
Health		Task	Text	Not required	No	No	Health
Project Departments		Project	Text	Not required	No	No	Department
RBS		Resource	Text	Not required	No	No	RBS
Resource Departments		Resource	Text	Not required	No	No	Department
Sample Approved Finish Date		Project	Date	Workflow-controlled	No	No	
Sample Approved Start Date		Project	Date	Workflow-controlled	No	No	
Sample Areas Impacted		Project	Text	Workflow-controlled	No	No	Sample Areas Impacted

Figure D.1

To add an Enterprise Custom Field for use by Full Monte 2016, click New Field.

Site Actions | John Owen

Project Web App > New Custom Field

Add a new custom field, or edit the definition of an existing custom field.

Project Web App | Home

I Like It | Tags & Notes

* Indicates a required field

Save | Cancel

Name
Type a unique name for the custom field.
* Name:

Description
Type a description for the custom field.
Description:

Entity and Type
The entity and type for this custom field.
Entity:
Type:

Custom Attributes
Choose whether the field has a lookup table, a calculated formula, or neither.
 None
 Lookup Table
 Formula

Department
Each Custom Field can belong to a Department. If a
Department: ...

Figure D.2

The unique Name must match exactly the spelling of the Full Monte field, in this example 'Cost Histogram'.

The Entity should be set to 'Task' for any fields displayed on the Task Fields tab of the Field Mapping dialog or 'Resource' for fields displayed on the Resource Fields tab of the dialog.

Remaining fields should be set as follows:

Custom Attributes - None

Department – Leave blank or set to a department code that includes Full Monte users

Calculation for Summary Rows – None

Calculation for Assignment Rows – None

Values to Display – Data

Behavior: Require that this field has information - No

D.2 Using Enterprise Fields in Full Monte

The first time a project is opened in Microsoft Project after Full Monte Enterprise fields have been added to the server, you may see the message shown in figure D.3

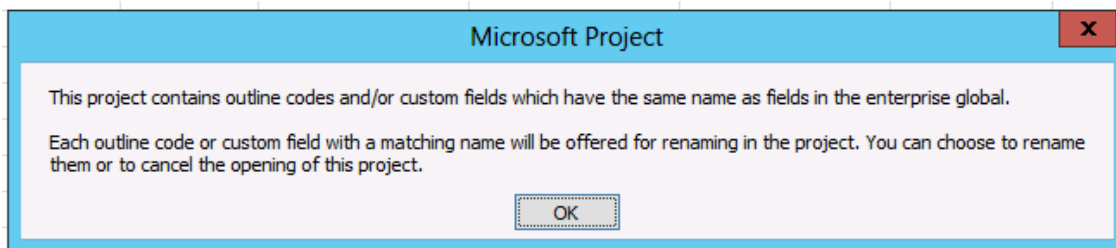


Figure D.3

This indicates that the Enterprise fields recently defined in Project Server have the same name as local custom fields previously being used by Full Monte. Since Microsoft Project does not allow Enterprise and local custom fields of the same name you must rename the local fields before you are allowed to open the project.

Note: This will result in the data being lost to Full Monte. If the field contains input data you may be able to use the Full Monte import function to re-load the data from the renamed local custom field after you start Full Monte.

When Full Monte starts while Microsoft Project is connected to a Project Server, Full Monte will scan for Enterprise fields that match Full Monte field names and automatically adjust the field mappings to include those fields as shown in figure D.4

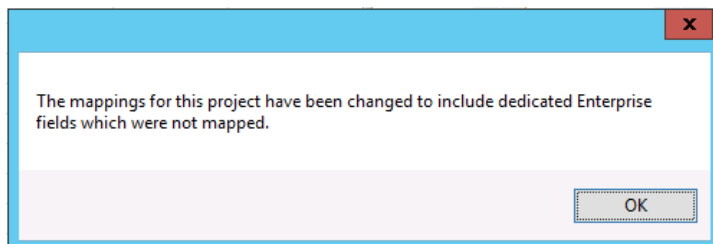


Figure D.4

D.3 Saving projects with Enterprise fields to files

If you save a project from the Project Server to a local file, you should choose the option to save ALL Enterprise Fields to the local file. While this will result in a larger file it will ensure that all Full Monte fields (even those not currently populated) will be available for use in Full Monte while working with the standalone project file.

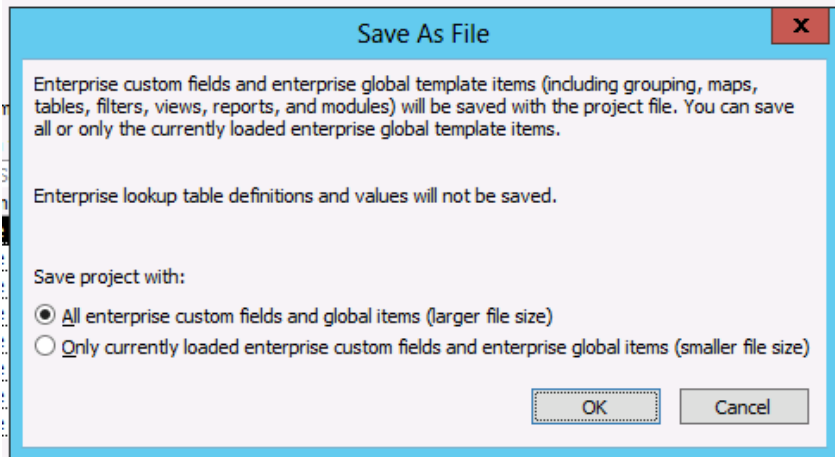


Figure D.5