# Oracle® Cloud Managing Data Using Oracle Visual Builder Add-in for Excel





Oracle Cloud Managing Data Using Oracle Visual Builder Add-in for Excel,

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# Contents

Audience	
Documentation Accessibility	
Related Resources	
Conventions	`
Introduction to Oracle Visual Builder Add-in for	Excel
Key Concepts and Terms	1-:
Installation	1-
Next Steps	1-
Install Oracle Visual Builder Add-in for Excel	
Check for Updates	2-5
Check for Updates	
Check for Updates Upgrade to the Latest Version	2-: 2-:
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts	3-2
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines	2-;
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook	2-3 3-3 3-2
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook Edit Downloaded Data in the Workbook Understanding Data Validation Understanding Read-Only Behavior	2-3 3-3 3-3
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook Edit Downloaded Data in the Workbook Understanding Data Validation Understanding Read-Only Behavior Create New Rows to Upload to the Web Application	2-3 3-3 3-3 3-3
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook Edit Downloaded Data in the Workbook Understanding Data Validation Understanding Read-Only Behavior Create New Rows to Upload to the Web Application Delete Data from the Web Application	2-3 3-3 3-3 3-3
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook Edit Downloaded Data in the Workbook Understanding Data Validation Understanding Read-Only Behavior Create New Rows to Upload to the Web Application Delete Data from the Web Application Upload Changes to the REST Service	3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-
Check for Updates Upgrade to the Latest Version  Manage Data in Table Layouts  General Guidelines Download Data to the Workbook Edit Downloaded Data in the Workbook Understanding Data Validation Understanding Read-Only Behavior Create New Rows to Upload to the Web Application Delete Data from the Web Application	3-: 3-: 3-: 3-: 3-: 3-:



View and Edit Data in a Form-over-Table Layout

4-1

Create a Parent Row in a Form-ov	ver-Table Layout	4-1
Delete a Parent Row in a Form-ov	ver-Table Layout	4-2
Perform Actions in a Tab	ole or Form-over-Table Layou	ut
Manage Data for Layout	ts in a Dependent Hierarchy	
Troubleshoot Excel World	kbooks	
Check Your Environment		7-1
Apply Microsoft Updates		7-2
Re-Enable Oracle Visual Builder A	Add-in for Excel	7-3
Logging		7-3
Internationalization		
Change the Add-in's Language		8-1
Refresh All Field Titles		8-2



#### **Preface**

Managing Data Using the Oracle Visual Builder Add-in for Excel describes how to work with Excel workbooks to retrieve and modify a web application's business data and send modified data back to the application.

#### **Topics:**

- Audience
- Documentation Accessibility
- Related Resources
- Conventions

#### **Audience**

This document is intended for business users who work with data in Excel workbooks that integrate with enterprise applications using the Oracle Visual Builder Add-in for Excel.

#### **Documentation Accessibility**

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#### Related Resources

For more information, see these Oracle resources:

- Oracle Public Cloud
  - http://cloud.oracle.com
- About Oracle Visual Builder in Developing Applications with Oracle Visual Builder
- Create Layouts in an Excel Workbook in Developing Integrated Spreadsheets
   Using Oracle Visual Builder Add-in for Excel (for workbook developers)



# Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



# Introduction to Oracle Visual Builder Add-in for Excel

Oracle Visual Builder Add-in for Excel integrates Excel spreadsheets with your web application to retrieve, analyze, and edit business data from the application. You download your data to an Excel spreadsheet, work with it, and upload your changes back to the service.

### **Key Concepts and Terms**

Before you use this Excel add-in, it helps to become familiar with these key concepts, components, and terms.

Term	Description
Integrated workbook	An Excel workbook configured to work with one or more business objects.
Business object	A resource - like a purchase order or invoice - that has fields to hold your application's data. A business object includes a collection path, an item path, a set of fields, and other properties.
REST service	A REST-based web service that is associated with an Excel workbook.
Layout	A way to display a business object in an Excel worksheet. Each worksheet supports one of two layouts: Table or Form-over-Table. Layouts are created by workbook developers and are visible to data entry users in their workbooks.

#### Installation

Install the latest version of Oracle Visual Builder Add-in for Excel available from the Downloads page on Oracle.com.

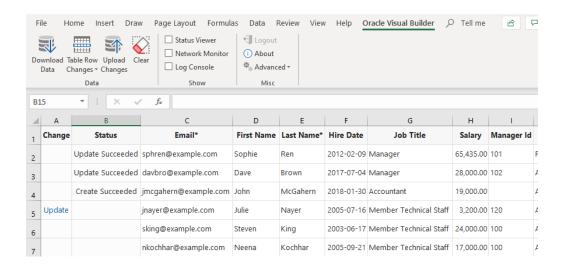
Before you begin, ensure that your environment meets the requirements for installation. The add-in is supported on Windows 10 with a desktop installation of Microsoft Excel. See Software Dependencies for more details.

When you are ready, install the add-in, as described in Install Oracle Visual Builder Add-in for Excel.

#### **Next Steps**

After you install the Excel add-in, a new **Oracle Visual Builder** ribbon tab appears in Microsoft Excel. As a business user who performs data entry, you use the options in this ribbon tab to download and work with a web application's data exposed in a workbook. You can review, modify, and create data in the workbook, then upload your changes to the web application.

This image shows a worksheet that manages employees:



The user has updated two rows and created a new row with employee data. These changes have been successfully uploaded to the web application, as indicated by messages in the Status column. The user has also updated data in another row that has yet to be uploaded, as indicated by the Update message in the Change column.



# Install Oracle Visual Builder Add-in for Excel

To install Oracle Visual Builder Add-in for Excel, download the Current User installer (vbafe-installer.exe) from the Oracle Downloads page and run the installer.

You don't need elevated privileges to install the add-in. However, if your system is missing required software, the installer launches the required Microsoft Installers to install the missing components. These installers require elevated privileges. Contact your network administrator for assistance if required.

If you want the add-in to use Microsoft Edge WebView2 as its embedded browser, you'll need to download and install the WebView2 software separately. See Software Dependencies in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel*.

Make sure that the proxy settings for Internet Explorer are configured to allow access to "\*.microsoft.com". The required Microsoft installers may need access to Microsoft's website to download missing components.

This installation is specific to the current Windows user profile. If multiple users on a Windows machine need the add-in, consider using the All Users installer instead.



Refer to the Installation section in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel* for more information.

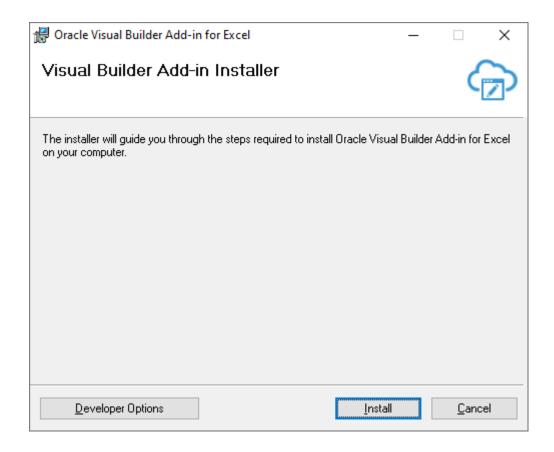
- 1. Quit Excel before you begin installation.
- 2. Double-click the <code>vbafe-installer.exe</code> file that you downloaded previously to launch the installation wizard.
- To install the add-in without the available developer tools, click **Developer** Options and select **Disabled**.



#### Tip:

If you need these tools after initial installation, re-run the installer, choose the option to repair your installation, and select **Enabled**.

4. Click Install.



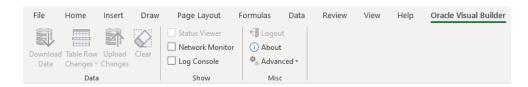
5. The add-in requires the Microsoft .NET Framework and Visual Studio Tools for Office Runtime on your computer. If these components are missing, you are prompted to install them.



You must have elevated privileges to install Microsoft .NET Framework and Visual Studio Tools for Office Runtime.

- 6. Once installation is complete, click **Close**.
- 7. Start Excel and open a new workbook.

A new Oracle Visual Builder ribbon tab appears, with commands that help you download and manage data from a web application.

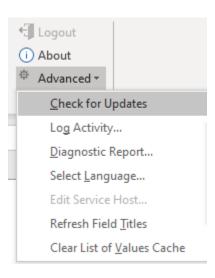


When you first run Excel after the current-user installation, you may be prompted to confirm the installation of the "Office customization". This prompt generally appears the first time for each profile and whenever the digital certificate (used to sign the add-in) is changed.

## **Check for Updates**

It's a good idea to periodically check whether a newer version of the add-in is available for you to install. The latest version of the add-in is posted to the Downloads page.

 From the Advanced drop-down in your existing installation, select Check for Updates.



- 2. If a newer version is available, when prompted to open the downloads page in your browser, click **Yes**.
- 3. Download the installer for the latest version, then install the update. Before you update, be sure to review best practices as described in the next section.

#### Upgrade to the Latest Version

To take advantage of all the latest Oracle Visual Builder Add-in for Excel features, make sure you are running an up-to-date version of the add-in. To upgrade to a new version, simply download and run the installer.

You do not need to uninstall the previous version unless the installer instructs you to do so.

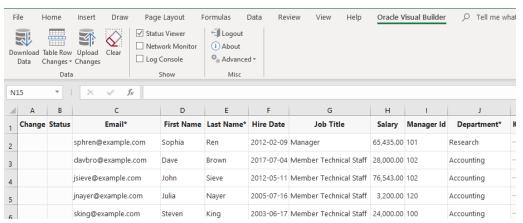
To ensure a clean upgrade, follow these instructions when upgrading your installation.

- 1. Before you upgrade the add-in:
  - a. Upload any pending changes using the current add-in version.
  - Save changes in open workbooks, then close Excel.
- 2. Run the installer for the new version and follow the instructions in the wizard. The installer automatically replaces the previous version with the new version.
- **3.** After you upgrade:
  - Launch Excel to complete any final installation steps.
  - **b.** Open your integrated workbook.
  - c. Clear any layouts of old data and download data again as required.



# Manage Data in Table Layouts

In Microsoft Excel, select the **Oracle Visual Builder** tab to perform operations and work with data in a workbook.



For any given layout, you can:

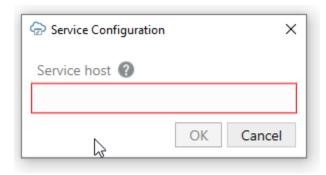
- View existing rows
- Edit existing rows
- Create new rows
- Delete existing rows
- Perform actions on existing rows, for example, an "Approve" or "Reject" action
  for an Invoice business object. These kind of special actions can be performed
  on certain business objects depending on the context. For more information, see
  Perform Actions in a Table or Form-over-Table Layout.



Capabilities described in this guide may not be available for all integrated workbooks. A workbook's functionality depends on how it was configured and the capabilities that the web application provides.

If your action requires access to the web application, a Service Configuration window prompts you to enter the service host value. Ask your IT administrator for the correct value to provide here. Actions that require access to the web application include the Download Data and Upload Changes commands.







You can also access the Service Configuration window using **Edit Service Host** from the Advanced drop-down list.

#### **General Guidelines**

When working with data in the Excel workbook, remember the following guidelines:

- Never edit the Key column, the last column in the table.
- Avoid using the following Excel features with the add-in. The following is a sample
  list of Excel features that do not work well with the add-in. Other Excel features not
  listed may also not work well with the add-in.
  - Do not use the Protect Sheet or Protect Workbook features of Excel.
  - Do not attempt to re-arrange the layout of the integrated worksheet.
  - Do not use the Mark as Final command to make the Excel workbook readonly.
  - Do not delete anything from the integrated worksheet using Excel's delete features, including the Delete key.

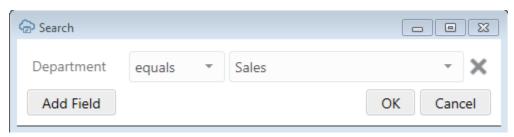
You can remove all data from the workbook, including any pending changes that have not yet been uploaded to the REST service by clicking the **Clear** button.

#### Download Data to the Workbook

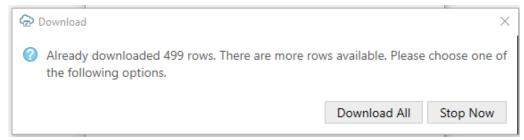
Download data to the workbook using the **Download Data** button in the Oracle Visual Builder tab. The workbook prompts you for a user name and password the first time you connect to the web application.

If search options were configured for download, specify the value(s) to search on, as shown in the following example where data for the Sales department will be downloaded:





If the search returns lots of rows, confirm if you want to continue downloading more rows:



When download is complete, the add-in updates the table in the worksheet with data retrieved from the web application.



#### Edit Downloaded Data in the Workbook

Edit data downloaded to a workbook by modifying editable cells that contain the downloaded data.

The following image shows three examples where a user has edited data in the table. The Change column for the first row displays an <code>Update</code> message that indicates the user has updated this row with required and valid values. The Change column for the second row also displays an <code>Update</code> message, but its Status column displays an <code>Invalid</code> message and a red border appears around the Hire Date\* column's cell to indicate that a value is required in that cell's field. Finally, in the third row, the user attempted to input <code>Software</code> in the field for Department. As <code>Software</code> is not a valid choice for this cell's list of values, a red border appears around this cell.



If a cell has a date format, you can enter a date by selecting the cell and choosing a date from the date picker pop-up window.

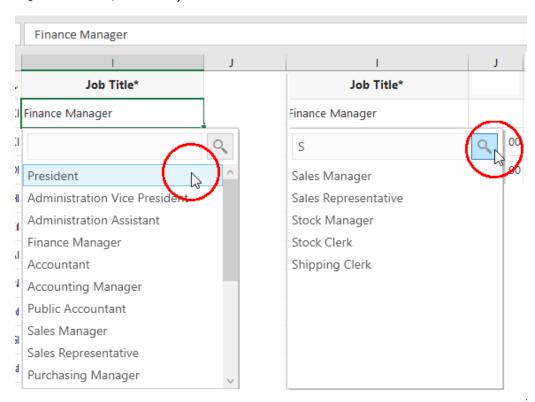






The date picker only sets the date in a date-time field. The time value is not changed.

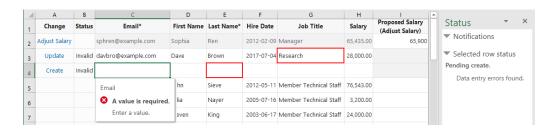
If columns have an associated list of values, you can select a value in a search-and-select window. In this case, the Change column displays  $\mathtt{Update}$ . Alternatively, enter one or more of the starting characters for other values, then click the Search icon to filter the values based on your input. The following composite image illustrates both these scenarios. For the latter scenario, the user entered  $\mathtt{S}$  in the search box next to the Search icon to find all display values that start with  $\mathtt{S}$  (Sales Manager, Sales Representative, and so on).





#### **Understanding Data Validation**

As you enter values in cells associated with layouts, the add-in validates the cell's content based on the business object field definition.



Validation occurs when you complete data entry in a cell; in other words, as soon as you enter or edit a value in a cell and move on to another cell or area. Validation also occurs at other key points:

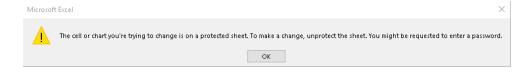
- When a new row is added to the data table
- When the Create Form Row option is selected from the Form Changes menu
- At the beginning of an upload.

Typically, the add-in determines whether a cell's value is consistent with the expected data type. For example, you can't enter a word, say, book, in a field that expects a number like 2,000. It also checks whether a required cell is missing a value and whether the value in a cell associated with a list of values is valid for that list. Required fields are designated by the workbook developer and must include a value for your changes to be uploaded successfully.

#### **Understanding Read-Only Behavior**

If a particular field is considered read-only, the add-in behaves as follows:

- It applies a "read-only" style to the corresponding cells to indicate that the value cannot be changed
- The cell's value is excluded from any subsequent upload to the web application
- The data entered by the user is not validated
- If the worksheet is enabled for worksheet protection (as specified by the workbook developer), any attempt to edit the cell results in a warning from Excel:



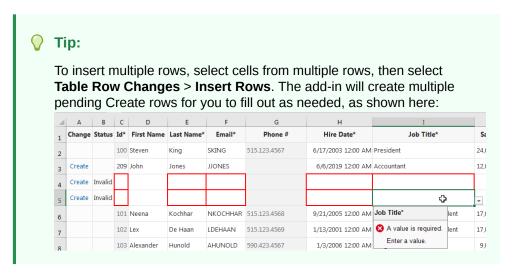
#### Create New Rows to Upload to the Web Application

Create new rows in the table using the **Insert Rows** option in the add-in's **Table Row Changes** menu or by using Excel options to insert a full row.

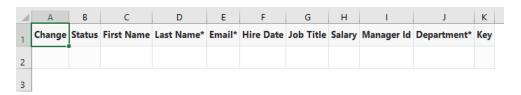


You can create new rows before or after downloading data to your workbook:

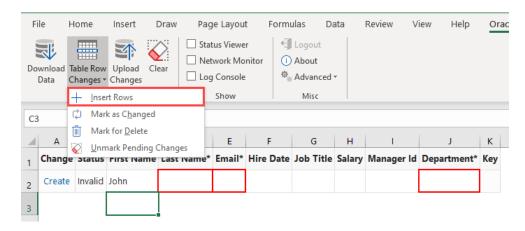
To create new rows in a table with downloaded data, click Table Row Changes
and select Insert Rows, or right-click and choose Insert from the Excel context
menu (you can choose any Excel option to insert a row). You can create new rows
either at the end of the data table or in the middle.



 To create several new rows without downloading data, if create is enabled for the Table, add values in the empty row that appears below the column headers. This empty row is known as the placeholder row:



Once you enter data in the placeholder row (for example, in the cell for First Name), the add-in automatically recognizes the row as a pending Create row. To insert more rows, select a cell in the first row after the table and select **Table Row Changes** > **Insert Rows**.



Any time a new row is created, it is validated for data entry. An Invalid message appears in the Status column if the row contains a cell where you are required to enter



a value and are yet to do so, or you have entered an incorrect value (such as an unexpected data type). A red border also appears around the cell where a value is required or invalid. See Understanding Data Validation.

#### Delete Data from the Web Application

Mark rows for deletion from the web application using the **Mark for Delete** option in the **Table Row Changes** menu.

To mark a row for deletion from the service:

- Select a cell in the table row that you want to delete from the web application.
   If you want to select a range of table rows to mark for deletion, hold down your keyboard's Shift key and select the first and last row in the range of table rows that you want to delete.
- 2. Click the Table Row Changes menu, then Mark for Delete. A Delete message appears in the Change column and the add-in changes the style applied to the data in the table rows, as shown in the following image where three rows in the table are marked for deletion:



- Click Upload Changes.
- 4. When prompted to confirm pending deletions, click Yes. The add-in sends delete requests for each row that you marked for deletion. For each successful deletion, the corresponding Excel row is removed. If the deletion fails, the Excel row remains with an error message.





#### Tip:

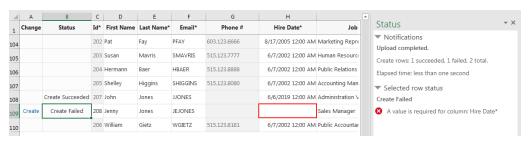
If you change your mind about deleting one or more rows that you have marked for deletion, select the rows and select **Unmark Pending Changes** from the **Table Row Changes** menu. Use **Unmark Pending Changes** before you upload changes from the Excel workbook; the option does not work after the changes are uploaded.

## Upload Changes to the REST Service

Once you complete the changes that you want to make, click the **Upload Changes** button to upload all the changes to the REST service.



The add-in performs all the requested operations, as seen in the Change column. Review the Status column to see which rows succeeded and failed. The Status column displays a Create Failed message or an Update Failed message in the cell of a row that the add-in failed to upload and the Table Row Status appears in Excel's task pane to provide additional information on the failure, as in the following example where a required value for Hire Date was not entered. In the following example, you need to enter a hire date and click **Upload Changes** to try and upload the modified data again. Successfully deleted rows are removed from the Excel worksheet while failed attempts to delete a row result in the row remaining in the Excel worksheet. You can inspect the reason for the failure to delete in the status in Excel's task pane.





#### Tip:

If you change your mind about uploading changes for a particular row, select the row, then from the **Table Row Changes** menu, select **Unmark Pending Changes**. The add-in won't include the row when it sends other rows back to the service for update, creation, or deletion.

#### Clear Cache for a List of Values

Some fields may have associated choice lists, called **lists of values**. The choices for each list of values are fetched from the web application and stored locally (cached) in the workbook.

In some cases, the cached choices for a list of values may become stale or out of date. To start fresh with the latest values from the web application, select **Clear List of Values Cache** from the **Advanced** menu.

#### **Data Consistency**

The add-in helps prevent multiple users from overwriting each other's changes.

Consider this scenario:

- User A downloads information from a business object into a table in their integrated workbook.
- User B downloads the same information into a table in their integrated workbook, edits it, and uploads changes.
- 3. User A then edits the same information (downloaded in Step 1) and uploads the changes.
- 4. The add-in provides the service with the necessary information to prevent User A's changes from overwriting those changes made by User B. Instead, when the

server detects such a change, its response allows the add-in to display an error message similar to the following for any such rows in the table:

This row has been modified by another user. Please download before editing.

If you see this message, you'll have to discard your changes by downloading the latest data and then redoing your changes as needed.



# Manage Data in Form-over-Table Layouts

In addition to Table layouts, an Excel workbook can use a Form-over-Table layout, when a parent-child relationship exists in the business objects used by your web application. In this case, you can manage the parent object's data as part of a form and the child object's data in a table, both of which are available in a single worksheet.

#### View and Edit Data in a Form-over-Table Layout

Viewing and editing data in a Form-over-Table layout is similar in many ways to viewing and editing data in a Table layout.

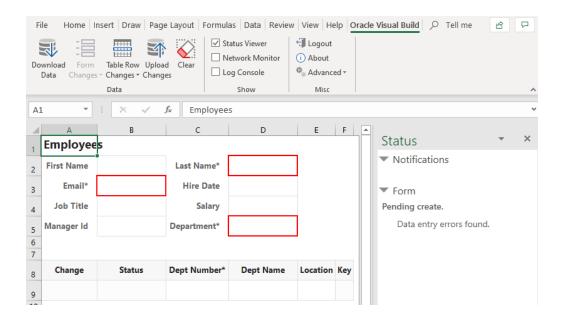
For example, you use the **Download Data** button to download data from the Formover-Table layout's business objects. Much like Table layouts, you may be prompted to do a search at the beginning of a download. Unlike a Table layout, however, the Form-over-Table displays the first row found from the search, plus all the children of that first parent row.

In some cases, you may be able to update the form fields in a Form-over-Table. The add-in performs data entry validation before it attempts to upload your updates. Ensure that you fix any data entry failures before you attempt to upload your changes. For a form field configured to use a list of values, the behavior is the same as described for the Table layout. That is, a search-and-select window appears when you select the form field. Read-only form fields cannot be edited (see Understanding Read-Only Behavior).

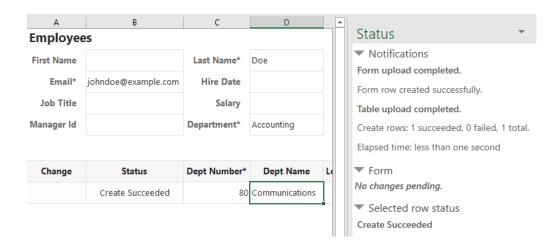
#### Create a Parent Row in a Form-over-Table Layout

If create is enabled for the form, you can select **Create Form Row** in the **Form Changes** menu to place the Form-over-Table layout in create mode. When you first click **Create Form Row**, all the form fields are blank and the child table has no rows, as shown here:





You can then enter form field values, even create new child table rows. All changes are marked as a pending create, until you click **Upload Changes**. The add-in validates the data before it attempts to upload updates; you must fix any data entry failures before the changes can be uploaded. If the upload of the form fails (applies to both Create and Update changes), the upload of the child table is skipped.

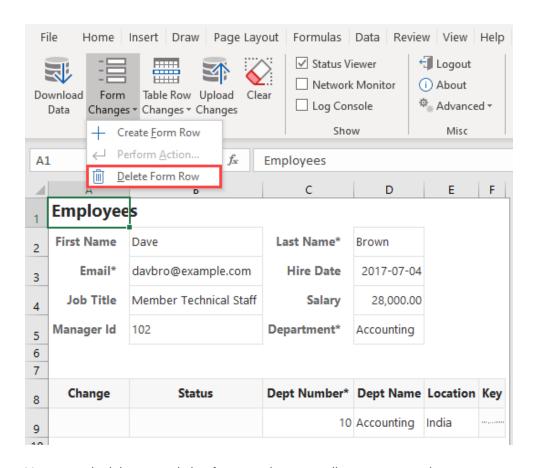


#### Delete a Parent Row in a Form-over-Table Layout

If delete is enabled for the form, you can use the **Delete Form Row** option in the **Form Changes** menu to delete the parent row in a Form-over-Table layout.

- 1. Click **Download Data** to download data from the layout's business objects.
- 2. If search is configured, search for the desired record.
- 3. In the Form Changes menu, select Delete Form Row.





You can only delete an existing form row (not a pending Create row).

- 4. When prompted to confirm the form row delete, click Yes.
  Once you confirm, the form row is immediately deleted (unlike a Mark for Delete action in a table that takes effect only during an upload).
- 5. Click OK.

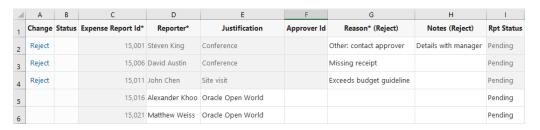
After the form row is deleted, your layout is cleared of data; the Status Viewer also indicates that no form row exists.



# Perform Actions in a Table or Form-over-Table Layout

In addition to data entry operations such as edit, create, and delete described previously, some web applications define special operations, "custom actions", on particular business objects. For example, an expense report might define actions called "Approve" or "Reject" that can be performed on each expense report.

Click **Download Data** to download data to your worksheet, then update an action's cell values much as you would any other field's cell value. In the following Table layout, rows marked as Reject are those where the user has updated cell values corresponding to the Reason (Reject) and Notes (Reject) action columns.

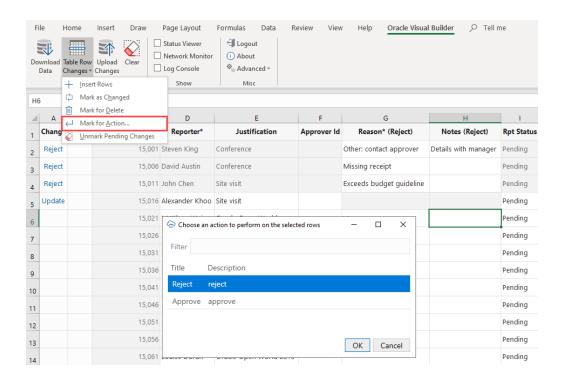


When you add or update a value in an action cell first, the row is marked for that action in the Change column. Other cells in that row that don't involve actions are grayed out and cannot be edited. But if you add or update a value first in a cell that doesn't involve an action, the row is marked as an <code>Update</code> in the Change column and the action cells in that row are grayed out (as shown in the following image). In other words, the first action you perform on a row determines that row's pending action. See also <code>Understanding Read-Only Behavior</code>.



You can also mark rows for an action by selecting **Mark for Action** from the **Table Row Changes** menu. With this option, if only one action is defined, you'll be prompted to confirm. If more than one is defined, you'll be prompted to select from a list of available actions:

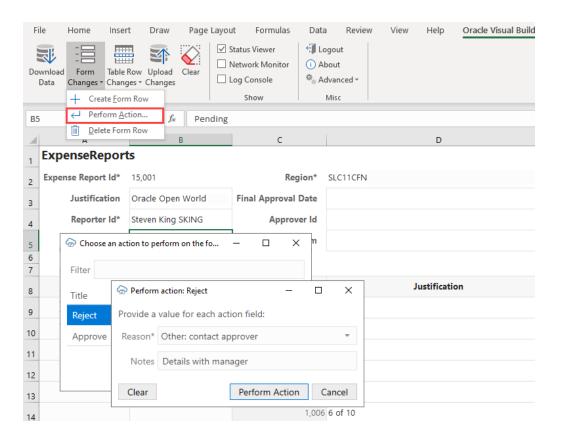




When a row is marked for an action, the action's fields also receive the same validation, as described in Understanding Data Validation.

If you're working with a Form-over-Table layout, click **Download Data**, select **Perform Action** in the Form Changes menu, then follow the prompts to perform actions on a Form row, as shown here where you're prompted to select an action, then provide values for the action's fields:





An action can be performed only on an existing row (not on a pending Create row).

An action on a form takes effect immediately, unlike one in a table (where rows are marked for actions and the actions are performed later during an upload).

Also, form row data is not automatically refreshed after an action is performed, even if the action was successful. Click **Download Data** again to refresh data in the form row.

# Manage Data for Layouts in a Dependent Hierarchy

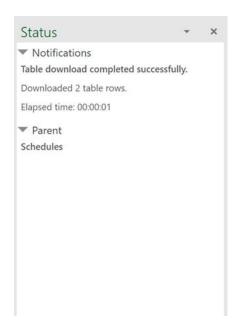
Sometimes business objects exist in a multi-level hierarchy. For example, a purchase order might contain a header and a set of lines. Each of these lines may contain one or more schedules each with one or more distributions. For such multi-level hierarchies, the add-in supports coordinated operations across multiple "dependent" layouts.

In a hierarchy of dependent layouts, the primary layout may be a Form-over-Table layout or a Table layout. If the workbook uses a Form-over-Table as the primary layout, the form displays the parent business object and the table, the child business object. If the workbook uses a Table as the primary layout, the table displays the parent business object.

In our example, the form displays the details of a purchase order and the table lists the associated lines for this purchase order.

Additional Table layouts, on separate worksheets, are based on descendant business objects, relative to the parent business object. For example, the first Table layout displays the grandchild business object (schedules, in our example), the next one displays the great-grandchild business object (distributions), and so on.

Each of these dependent layouts is linked to its direct parent layout. Check the Status Viewer for a given Table layout's parent.



When you click **Download Data**, **Upload Changes**, or **Clear** for a layout in a dependent hierarchy, the operation takes effect on all layouts in the hierarchy, starting with the primary layout, progressing to the next layout in the hierarchy, and continuing

down until the last level in the hierarchy. When the operation is complete on all layouts in the hierarchy, the worksheet with the primary layout is made active again.

#### **Download Data**

During a download operation, all items for all rows from the parent layout are downloaded at each level. (Any search specifications, if configured, apply only to the primary layout.) For example, when Sheet 1 in your workbook contains Purchase Orders as the parent and Lines as the child (containing, say, 10 Lines) and Sheet 2 contains Schedules as the grandchild, the Schedules table is populated with all Schedule items for all Lines. If each of the 10 Lines had two Schedules, the Schedules table would download 20 Lines. With this download, you can update all Schedules and upload all the changes together.

Following a download, you can edit data much as you would in a Table or a Form-over-Table layout.

#### **Create New Items**

Create new items on the primary layout as you would for any Form-over-Table layout or Table layout. See Create a Parent Row in a Form-over-Table Layout and Create New Rows to Upload to the Web Application.

For Table layouts below the primary layout, you need to associate new items with the appropriate parent when you create them. For example, you'll need to specify the correct line ID for a new schedule and the correct line and schedule IDs for a new distribution. To ensure you can properly associate new items with the correct parent, the layout can include one or more columns from the parent layout. In our example, the distribution layout may contain columns for both Line and Schedule IDs from the schedule layout.

For example, let's say the Distribution table in Sheet 3 includes a Line column and a Schedule column that comes from the Schedules table in Sheet 2. By typing the correct Line and Schedule ID in the Distributions table for a new create row, the new distribution will be properly associated with the correct line and schedule.

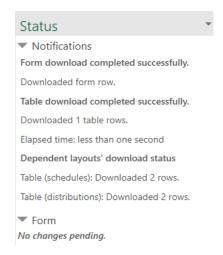
You must enter non-empty values that uniquely specify an item in the parent table. If, during upload, the entered line and schedule values don't match an existing schedule, creation of the item fails.

#### **Upload Data**

When updates are ready to be uploaded, the upload operation submits all pending changes across the hierarchy of layouts. Pending changes may include creation of new items, deletion and updating of existing items, and invocation of actions on items, depending on how the layouts are configured and what capabilities are supported by the business objects.

You can view details of the operation in the primary layout's Status Viewer, which shows results for the primary layout as well as a summary for each layout in the dependent hierarchy, as shown in this example for a download operation:





Click each dependent layout to view additional details of the operation.



#### Troubleshoot Excel Workbooks

If you experience issues with Oracle Visual Builder Add-in for Excel, follow the steps here to identify and resolve issues. If you still can't resolve your issue, contact Oracle Support.

- Review the documentation to make sure the desired operation is supported.
- Download and run the Client Health Check Tool.
- Make sure you're on a supported platform.
- Upgrade to the latest version of the add-in.
- Apply available Microsoft updates.
- Close all workbooks, exit Excel, and try again with simple steps.
- Generate an add-in log for review. See Logging. If you contact Oracle Support, you may be asked to provide this log.



#### **Caution:**

Log files may include personal information from your computer including, but not limited to, the computer's name and your Windows profile name. Be sure to select the appropriate option when uploading files with personal information to a service request so that the file access can be restricted as needed.

#### **Check Your Environment**

Run the Client Health Check Tool to check if the desktop configuration and environment are suitable for Oracle Visual Builder Add-in for Excel and to resolve issues.

Download the latest version of the Client Health Check tool (vbafe-health-check.exe) from the Oracle Downloads page.

1. Run vbafe-health-check.exe and review the result for each checked item.



Select each failed check for more details, including the steps necessary to resolve the issue. If the add-in can resolve the issue, the **Fix Problems** button is enabled.

- 2. Click **Fix Problems** if available or follow the instructions to resolve the issue.
- 3. If Oracle Support requests a copy of the report:
  - a. click Save Report As... and choose a name and location for the report.
  - **b.** Review the report and remove any sensitive information.
  - c. Send the report to Oracle Support.

#### **Apply Microsoft Updates**

When troubleshooting issues with Oracle Visual Builder Add-in for Excel, we recommend first applying all pending Windows, Office, and Internet Explorer updates before reproducing the issue. A Microsoft patch may resolve your problem.

- From the Windows Start menu, select Settings, Update & Security, and then Windows Update.
- If updates are available on the Windows Update page, review the updates and click Install Now.



The details of applying Windows updates can vary from version to version and also according to your company's IT policy. Check with your system administrator for assistance, if needed.

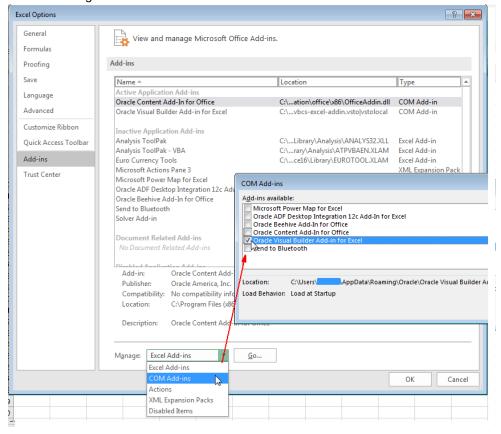
If you are using Internet Explorer (IE) version 10 or earlier, upgrade to version 11 now. The add-in uses Internet Explorer for some of its functionality. Microsoft only supports Internet Explorer version 11 on the platforms that the add-in supports. See Embedded Browser Notes.

Update Microsoft .NET Framework to version 4.7 or later if required.
 Visit the Microsoft Download Center to find the appropriate Microsoft installers for your system.

#### Re-Enable Oracle Visual Builder Add-in for Excel

If your add-in becomes disabled and you are unable to use the client health check tool, you can re-enable Oracle Visual Builder Add-in for Excel through Microsoft Excel.

- In Excel, click File > Options > Add-Ins.
- 2. Select **COM Add-ins** in the Manage drop-down list and click **Go**.
- 3. Clear the Oracle Visual Builder Add-in for Excel check box and click OK.
- 4. Restart Excel.
- Enable the add-in by repeating the steps and instead selecting the Oracle Visual Builder Add-in for Excel check box from the Add-ins available list in the COM Add-ins dialog.



## Logging

When reporting an issue about the add-in, generate a detailed log file that captures the steps that lead to the problem you want to report.



- 1. In Excel, click the Oracle Visual Builder tab.
- 2. Select **Log Activity** from the Advanced drop-down list to specify a directory location and file name for the log file. This starts the logging session.
- **3.** Repeat the steps that lead to the issue.
- **4.** Exit Excel completely to stop the logging session and before you access the log file.



The next time you run Excel logging will no longer be enabled.

The log file that you generate captures information about steps during an Excel session.

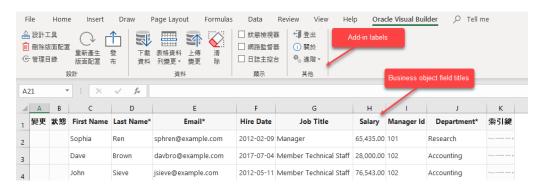


#### Internationalization

Oracle Visual Builder Add-in for Excel is available in various languages. It automatically detects the user's preferred language from Microsoft Excel and uses that language where possible.

When using the add-in, you work with:

- Labels visible on the Oracle Visual Builder ribbon and in various windows displayed by the add-in. These labels, known as the add-in labels, are owned by the add-in and are localized.
- Labels visible as column headers and field labels are known as business object field titles.





Because business object field titles are owned by the service, contact the service owner for any missing translations or languages.

#### Change the Add-in's Language

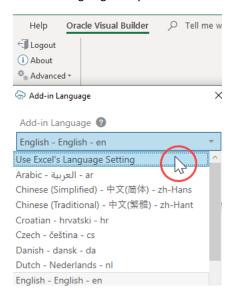
You can change the language that the Excel add-in uses.

- In Excel, click the Oracle Visual Builder tab.
- 2. Choose **Select Language** from the Advanced drop-down.
- 3. In the Add-in Language drop-down list that appears, select the language you want to use. The drop-down list displays the languages that the add-in supports.
- Click OK.
- 5. Restart Excel to make your changes take effect.

The add-in's user interface elements (**Download Data** and so on) now use the language you selected. If the selected language uses a right-to-left writing system, the add-in's user interface elements appear in right-to-left mode. The language that Excel uses remains unchanged, as does the format used for dates, times, and numbers. See

Excel or Windows options to change Excel's language and formats for dates, times, and numbers.

The language that you choose for the add-in language is stored in a local file in the Windows user profile. You can select the **Use Excel's Language Setting** option in the Add-in Language drop-down list to remove this setting for the current user.



#### Refresh All Field Titles

In some cases, you might be able to refresh all field titles.

Here's an example of when to reset field titles: Imagine you've received an invoices workbook with English as the current language, so all field titles are in English. Now, if you are a data entry user based in France who has Windows and Excel configured for French, you can reset the field titles to see field titles in French as well.

- 1. In Excel, click the Oracle Visual Builder tab.
- Choose Refresh Field Titles from the Advanced drop-down.
- 3. In the Field Titles window, click Yes.



A given service may or may not have translations for the requested language. For any missing translations, contact the owner of the service.

