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



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Oracle Cloud Managing Data Using Oracle Visual Builder Add-in for Excel, Version 2.7

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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
- Diversity and Inclusion
- 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

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.



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.							



1 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 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. See Software Dependencies and Supported Platforms in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel* 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:



Fi	le Ho	ome Insert Drav	v Page Layout Formul	as Data I	Review Viev	/ Help C)racle Visual Builder) Tell me	ß P
Do	wnload Ta	able Row Upload Cl hanges + Changes	Status Viewer Status Viewer Status Viewer Log Console	네 Logout (i) About 약 Advanc					
		Data	Show	Misc					
B1	5	• : × •	f _x						
	А	В	с	D	E	F	G	н	1
1	Change	Status	Email*	First Name	Last Name*	Hire Date	Job Title	Salary	Manager Id
2		Update Succeeded	sphren@example.com	Sophie	Ren	2012-02-09	Manager	65,435.00	101 F
3		Update Succeeded	davbro@example.com	Dave	Brown	2017-07-04	Manager	28,000.00	102 A
4		Create Succeeded	jmcgahern@example.com	John	McGahern	2018-01-30	Accountant	19,000.00	A
5	Update		jnayer@example.com	Julie	Nayer	2005-07-16	Member Technical Staff	3,200.00	120 A
6			sking@example.com	Steven	King	2003-06-17	Member Technical Staff	24,000.00	100 A
7			nkochhar@example.com	Neena	Kochhar	2005-09-21	Member Technical Staff	17,000.00	100 A

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.

2 Install Oracle Visual Builder Add-in for Excel

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

If any required software is missing, the installation terminates without installing the add-in. Refer to Software Dependencies in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel* for details including information on how to check for and install required components. You can also refer to this topic for information on installing the Microsoft Edge WebView2 embedded browser. WebView2 is an optional Microsoft component and must be installed separately.

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. See Install Using the All Users Installer in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel*.

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

Note:

Running both installers on the same machine is not recommended. If you do install the add-in using both installers, Excel loads the add-in installed in the Program Files folder ("All Users") and not the version in the current user's Windows profile ("Current User"). If you decide to switch the installation type, the best practice is to uninstall the previous add-in installation type first to avoid confusion.

- **1**. Quit Excel before you begin installation.
- 2. Double-click the vbafe-installer-current-user.msi file that you downloaded previously to launch the installation wizard.
- 3. 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** to install the add-in.

When the installation is complete, click **Close**.

5. 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.



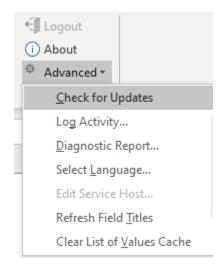
File	Home	Insert	Draw	Page Layout	Formulas	Data	Review	View	Help	Oracle Visual Builder
	Table Row Changes *	Upload	Clear	 Status Viewer Network Monitor Log Console 	(j) Logou (i) About 학 Advan					
	Data			Show	Misc					

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.

1. 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.

For recommendations on when you should upgrade, check the Upgrade Policy in *Developing Integrated Spreadsheets Using Oracle Visual Builder Add-in for Excel.*

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.
 - b. 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:
 - a. 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.



3 Manage Data in Table Layouts

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

Do	wnload	Home Table Row Changes * Data	Changes	Draw Clear	✓ Stati	e Layout F us Viewer vork Monitor Console Show	Formulas fl Logout i About k Advance Misc		view View Help	Oracle V	/isual Builder	, ∕∕ Tell me w	/hat
N	15	-	×	√ _ fs	r								
	А	A B		С		D	E	F	G	н	I.	J	
1	Change	e Status		Email*		First Name	Last Name*	Hire Date	Job Title	Salary	Manager Id	Department*	K
2			sphren@	example.	com	Sophia	Ren	2012-02-09	Manager	65,435.00	101	Research	
3			davbro@	example.	com	Dave	Brown	2017-07-04	Member Technical Staff	28,000.00	102	Accounting	
4	isieve@evample		xample.co	om	John	Sieve	2012-05-11	Member Technical Staff	76,543.00	102	Accounting		
5			jnayer@example.		om	Julia	Nayer	2005-07-16	Member Technical Staff	3,200.00	120	Accounting	
6 sking@example.c		xample.co	m	Steven	King	2003-06-17	Member Technical Staff	24,000.00	100	Accounting			

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.

Note:

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.



Service Configuration		×
Service host ဈ		
	ОК	Cancel

Note:

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

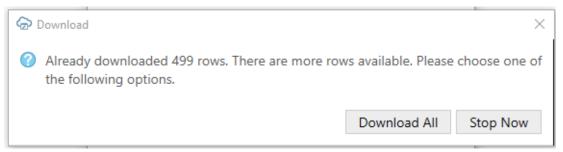
Download data to the workbook using the **Download Data** button in the Oracle Visual Builder tab. The workbook prompts you for a user name and password the first time you connect to the web application.

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:

Search				-		×
Department	equals	*	Sales			٠
Add Field	Clear Val	ues		OK	Can	cel



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.

1	А	В	С	D	E	F	G	Н	I.	J	K	L	*	Status -	×
1	Change	Status	ld*	First Name	Last Name*	Email*	Phone #	Hire Date	Job Title	Salary	Manager Id	Department* I	•	▼ Notifications	
2			147	John	McGahern	jmcgahern@example.com	+1 519 555 0113	1/30/2018	Accountant	19,000.00		Accounting	μ	Table download completed	
3			7	Steven	King	sking@example.com	+1 519 555 0136	6/17/2003	Member Technical Staff	24,000.00	100	Accounting		successfully.	
4			8	Neena	Kochhar	nkochhar@example.com	+1 519 555 0138	9/21/2005	Member Technical Staff	17,000.00	100	Accounting		Downloaded 16 table rows.	
5			9	Lex	De Haan	ldehaan@example.com	+1 519 555 0142	1/13/2001	Member Technical Staff	17,000.00	102	Accounting		Elapsed time: 00:00:02	
6			3	Dave	Brown	davbro@example.com	+1 519 555 0132	7/4/2017	Manager	28,000.00	102	Accounting			
7			50	Nancy	Greenberg	ngreenbe@example.com	+1 519 555 0133	8/17/2002	Member Technical Staff	12,008.00	108	Research			

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 Update message that indicates the user has updated this row with required and valid values. The Change column for the second row also displays an Update message, but its Status column displays an Invalid 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 Software in the field for Department. As Software is not a valid choice for this cell's list of values, a red border appears around this cell.

1	Α	В	С	D	E	F	G	Н	I	J	К	L	M	1
1	Change	Status	ld*	First Name	Last Name*	Email*	Phone #	Hire Date*	Job Title*	Salary	Commission %	Manager Id	Department	K
2	Update		100	John	King	SKING	515.123.4567	6/17/2003 12:00 AM	Finance Manager	24,000.00			Executive	-, n. en
3	Update	Invalid	101	Neena	Kochhar	NKOCHHAR	515.123.4568		Administration Vice President	17,000.00		100	Human Resources	ъ.н.н
4	Update	Invalid	102	Lex	De Haan	LDEHAAN	515.123.4569	1/13/2001 12:00 AM	Finance Manager	17,000.00		100	Software	

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.

1/2	2/20	21				
4	J	anu	ary	202	1	►
Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21		23
24	25	26	27	28	29	30
31	1	2	3	4	5	6



Note:

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-andselect window. In this case, the Change column displays 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 S in the search box next to the Search icon to find all display values that start with S (Sales Manager, Sales Representative, and so on).

Finance Manager			
I	J	I	J
Job Title*		Job Title*	
Finance Manager		Finance Manager	~
	0	S	
President	^	Sales Manager	hi a
Administration Vice President		Sales Representative	
Administration Assistant		Stock Manager	
Finance Manager		Stock Clerk	
Accountant		Shipping Clerk	
Accounting Manager			
Public Accountant			
Sales Manager			
Sales Representative			
Purchasing Manager	\sim		

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.

	Α	В	С	D	E	F	G	Н	1		
1	Change	Status	Email*	First Name	Last Name*	Hire Date	Job Title	Salary	Proposed Salary (Adjust Salary)	Status 🔹	×
2	Adjust Salary		sphren@example.com	Sophia	Ren	2012-02-09	Manager	65,435.00	65,900	 Notifications 	
з	Update	Invalid	davbro@example.com	Dave	Brown	2017-07-04	Research	28,000.00		 Selected row status 	
4	Create	Invalid								Pending create.	
5			Email	hn	Sieve	2012-05-11	Member Technical Staff	76,543.00		Data entry errors found	1.
6			8 A value is required.	lia	Nayer	2005-07-16	Member Technical Staff	3,200.00			
7			Enter a value.	even	King	2003-06-17	Member Technical Staff	24,000.00			



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:

Microsof	ft Excel	\times
	The cell or chart you're trying to change is on a protected sheet. To make a change, unprotect the sheet. You might be requested to enter a passwo	ırd.

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.



Tip:

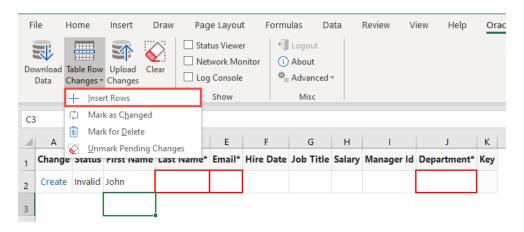
To insert multiple rows, select cells from multiple rows, then select **Table Row Changes** > **Insert Rows**. The add-in will create multiple pending Create rows for you to fill out as needed, as shown here:

	Α	В	С	D	E	F	G	Н	I		
1	Change	Status	Id*	First Name	Last Name*	Email*	Phone #	Hire Date*	Job Title*		Sa
2			100	Steven	King	SKING	515.123.4567	6/17/2003 12:00 AM	President		24,
3	Create		209	John	Jones	JJONES		6/6/2019 12:00 AM	Accountant		12,
4	Create	Invalid									
5	Create	Invalid							÷	I	-
6			101	Neena	Kochhar	NKOCHHAR	515.123.4568	9/21/2005 12:00 AM	Job Title*	lent	17,
7			102	Lex	De Haan	LDEHAAN	515.123.4569	1/13/2001 12:00 AM	😣 A value is required.	lent	17,
8			103	Alexander	Hunold	AHUNOLD	590.423.4567	1/3/2006 12:00 AM	Enter a value.		9,

 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:

	А	В	С	D	Е	F	G	н	I.	J	к
1	Change	Status	First Name	Last Name*	Email*	Hire Date	Job Title	Salary	Manager Id	Department*	Key
2											
3											

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:

1. 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:

1	Α	В	С	D	E	F	G	н	I	J	к	L	м	N
1	Change	Status	Id*	First Name	Last Name*	Email*	Phone #	Hire Date*	Job Title*	Salary	Commission %	Manager Id	Department	Key
107			205	Shelley	Higgins	SHIGGINS	515.123.8080	6/7/2002 12:00 AM	Accounting Manager	12,008.00		101	Accounting	1,0.00.00
108			206	William	Gietz	WGIETZ	515.123.8181	6/7/2002 12:00 AM	Public Accountant	8,300.00		205	Accounting	1,0-00-ps
109	Delete		209	Bobby	Dooley	BDOOLEY		6/6/2019 12:00 AM	Accountant	12,000.00				1,0-00-pa
110	Delete		210	James	Jones	JJONES		6/6/2019 12:00 AM	Accounting Manager	14,000.00				.,
111	Delete		211	John	Evans	JEVANS		6/6/2019 12:00 AM	Public Accountant	12,000.00				.,

3. 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.

1	А	В	с	D	E	F	G	н	I	J	к	L	м	N
1	Change	Status	Id*	First Name	Last Name*	Email*	Phone #	Hire Date*	Job Title*	Salary	Commission %	Manager Id	Department	Key
107			205	Shelley	Higgins	SHIGGINS	515.123.8080	6/7/2002 12:00 AM	Accounting Manager	12,008.00		101	Accounting	
108			206	William	Gietz	WGIETZ	515.123.8181	6/7/2002 12:00 AM	Public Accountant	8,300.00		205	Accounting	-,
109														
110														
111														

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.

	Α	В	с	D	E	F	G	н		
1	Change	Status	Id*	First Name	Last Name*	Email*	Phone #	Hire Date*	Job	Status
104			202	Pat	Fay	PFAY	603.123.6666	8/17/2005 12:00 AM	Marketing Repre	 Notifications Upload completed.
105			203	Susan	Mavris	SMAVRIS	515.123.7777	6/7/2002 12:00 AM	Human Resource	
106			204	Hermann	Baer	HBAER	515.123.8888	6/7/2002 12:00 AM	Public Relations	Elapsed time: less than one second
107			205	Shelley	Higgins	SHIGGINS	515.123.8080	6/7/2002 12:00 AM	Accounting Man	 Selected row status
108		Create Succeeded	207	John	Jones	JJONES		6/6/2019 12:00 AM	Administration V	Create Failed
109	Create	Create Failed	208	Jenny	Jones	JEJONES			Sales Manager	A value is required for column: Hire Date*
110			206	William	Gietz	WGIETZ	515.123.8181	6/7/2002 12:00 AM	Public Accountar	

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.

Note:

Some REST services may issue warning messages for successfully uploaded rows. These messages appear in Excel's task pane when the row is selected.

🖓 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:

- 1. User A downloads information from a business object into a table in their integrated workbook.
- 2. 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.

4

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 Form-over-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:



F	ile Home li	nsert Draw Pag	e Layout Formul	as Data Revie	w View He	elp O	racle	Visual Build		ß	₽
Do	wnload Form Data Changes	Table Row Uploa Changes - Chang Data	d Clear	tatus Viewer letwork Monitor og Console Show	Logout i About Advance Misc	ed *					~
A	L *	: × ~	<i>f</i> _≪ Employee	5							~
	А	В	с	D	E	F		_			
1	Employee	s						Status		*	×
2	First Name		Last Name*					 Notifica 	ations		
3	Email*		Hire Date					▼ Form			
4	Job Title		Salary					Pending cr	eate.		
5	Manager Id		Department*					Data er	ntry errors found		
6					_						
7	Change	Status	Dept Number*	Dept Name	Location	Key					
-				-							
9											

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.

А	В	С	D		*	
Employe	es					Status
First Name Email* Job Title Manager Id	johndoe@example.com	Last Name* Hire Date Salary Department*	Doe Accounting			 Notifications Form upload completed. Form row created successfully. Table upload completed. Create rows: 1 succeeded, 0 failed, 1 total. Elapsed time: less than one second
Change	Status	Dept Number*	Dept Name	Le		▼ Form
	Create Succeeded	80	Communications			No changes pending.
						 Selected row status Create Succeeded

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.

Fi	File Home Insert Draw Page Layout Formulas Data Review View Help								
Do	Download Form Table Row Upload Clear Image: Table Row Upload Clear Image: Table Row Upload <								
_	+ Cr	eate <u>F</u> orm Row	Sho	Show Misc					
A	A1 ← Perform Action f _x Employees								
	A De	elete Form Row	с	D	Е	F			
1	Employee	s		·					
2	First Name	Dave	Last Name*	Brown					
3	Email*	davbro@example.com	Hire Date	2017-07-04					
4	Job Title	Member Technical Staff	Salary	28,000.00					
5	Manager Id	102	Department*	Accounting					
6 7									
-	Change	Status	Dept Number*	Dept Name	Location	Kev			
8	unange					_			
9			10	Accounting	India				

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.



5

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.

	Α	В	С	D	E	F	G	Н	1
1	Change	Status	Expense Report Id*	Reporter*	Justification	Approver Id	Reason* (Reject)	Notes (Reject)	Rpt Status
2	Reject		15,001	Steven King	Conference		Other: contact approver	Details with manager	Pending
3	Reject		15,006	David Austin	Conference		Missing receipt		Pending
4	Reject		15,011	John Chen	Site visit		Exceeds budget guideline		Pending
5			15,016	Alexander Khoo	Oracle Open World				Pending
6			15,021	Matthew Weiss	Oracle Open World				Pending

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 Update 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 Understanding Read-Only Behavior.

	Α	В	С	D	E	F	G	Н	I
1	Change	Status	Expense Report Id*	Reporter*	Justification	Approver Id	Reason* (Reject)	Notes (Reject)	Rpt Status
2	Reject		15,001	Steven King	Conference		Other: contact approver	Details with manager	Pending
3	Reject		15,006	David Austin	Conference		Missing receipt		Pending
4	Reject		15,011	John Chen	Site visit		Exceeds budget guideline		Pending
5	Update		15,016	Alexander Khoo	Site visit				Pending
6			15,021	Matthew Weiss	Oracle Open World				Pending

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:



Do	wnload 1 Data	Change	Upload s v Changes lark as Chang	Clear	Page Layout Status Viewer Network Monitor Log Console Show	Formulas Data	Review Viev	v Help Oracle Visu:	al Builder 🔎 Tell r	ne
		ÎÎ N	lark for <u>D</u> elet	e	D	E	F	G	Н	
	A Chang	·	lark for <u>A</u> ctio		Reporter*	Justification	Approver Id	_	Notes (Reject)	Rpt Status
1	Reject	<u> </u>	nmark Pendi		Steven King	Conference		Other: contact approver	Details with manager	Pending
2	Reject				David Austin	Conference		Missing receipt	Details with manager	Pending
3	-									_
4	Reject				John Chen	Site visit		Exceeds budget guideline		Pending
5	Update			15,016	Alexander Khoo	Site visit				Pending
6				15,021	🕞 Choose an a	ction to perform on the	e selected rows	– 🗆 X		Pending
7				15,026		•				Pending
8				15,031	Filter					Pending
9				15,036	Title D	escription				Pending
10				15,041	Reject re	eject				Pending
				15,046	Approve a	pprove				Pending
11				15,051	-					Pending
12					-					
13				15,056	-			OK Cancel		Pending
14				15,061	Louise Doran	oracie open trona	2010			Pending

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

The actions for these marked rows are performed during the next upload.

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:

F	ile	Home	Insert	Draw	Page Lay	out	Formulas	Data	a Revie	w View	Help	Oracle Visual Build
Do	wnload Data	Changes ▼ C + Create	Changes e <u>F</u> orm Ro	ow	Clear	Netv	us Viewer vork Monitor Console Show	(i) A	ogout bout dvanced - Misc			
BS	5	-	m <u>A</u> ctior Form Ro	Jx	Pendin	g						
		A	POINT		В		с				D	
1	Ехр	enseRep	orts									
2	Expe	ense Report	ld* 15	,001			Reg	gion*	SLC11CFN			
3		Justificati	on Oi	racle Open	World	Fi	nal Approval	Date				
4		Reporter	ld* St	even King	SKING		Approv	ver Id				
5		💮 Choose a	an action	to perform	on the fo	—		< n				
6 7		Filter	🕞 Per	form action	: Reject		-		×			
8		Title	Provi	de a value	for each a	iction	field:				Justificati	on
9		Reject	Reje	ction Reas	on Code							
10		Approve										
11			Note	es								
12												
13			Cle	ar		D	Perform Actio	n	Cancel			
14			Cle	u		F	enorm Actio		cuncer			

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).

After uploading (for table rows) or performing an action (for the form), any result from the custom action returned by your REST service is displayed in the Status Viewer. For example, after invoking the custom action "Reject" on an Expense Report table row, the Status Viewer shows a confirmation code as the result:

Status	*	×
 Notifications 		
Table upload completed.		
Action rows: 1 succeeded, 0 failed.	1 total.	
Elapsed time: less than one second	ł	
 Selected row status 		
Succeeded: Reject		
The result from the action is: Y code is 26281.	our confirma	tion

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.



6

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.

Status	*	×
 Notifications 		
Table download completed succe	essfully.	
Downloaded 2 table rows.		
Elapsed time: 00:00:01		
▼ Parent		
Schedules		

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 Formover-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.

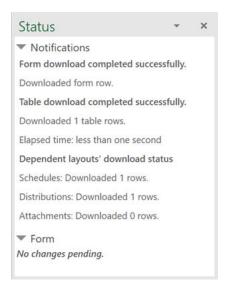
You must enter non-empty values that uniquely specify an item in the parent table. If, during upload, the entered line and schedule values don't match an existing schedule, creation of the item fails.

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.



7 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 examined item.



Item	Result	Comment
Microsoft .NET Framework		Installed
Microsoft Internet Explorer		ОК
Microsoft Edge WebView2 Runtime	A	Not found
Visual Studio 2010 Tools for Office Runtime	Ø	Installed
Microsoft Excel	Ø	Installed
Oracle Visual Builder Add-in for Excel installed status		Installed
		Disabled
Oracle Visual Builder Add-in for Excel is currently disabled. It must be re-enabled in o See https://docs.microsoft.com/en.us/visualstudio/vsto/how-to-re-enable-a-vsto-a	order to use integrated	l workbooks
Oracle Visual Builder Add-in for Excel is currently disabled. It must be re-enabled in o See https://docs.microsoft.com/en.us/visualstudio/vsto/how-to-re-enable-a-vsto-a	order to use integrated	l workbooks
Oracle Visual Builder Add-in for Excel is currently disabled. It must be re-enabled in o See https://docs.microsoft.com/en-us/visualstudio/vsto/how-to-re-enable-a-vsto-a	order to use integrated	l workbooks
Oracle Visual Builder Add-in for Excel is currently disabled. It must be re-enabled in a See https://docs.microsoft.com/en-us/visualstudio/vsto/how-to-re-enable-a-vsto-a Click the "Fix Problems" button to solve this problem.	order to use integrated	I workbooks sabled.
Oracle Visual Builder Add+in for Excel is currently disabled. It must be re-enabled in a See <u>https://docs.microsoft.com/en-us/visualstudio/vsto/how-to-re-enable-a-vsto-a</u> Click the "Fix Problems" button to solve this problem.	order to use integrated idd-in-that-has-been-d Save Report	I workbooks sabled.

Select each failed item (²⁰) 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.

Note:

The Client Health Check also shows a warning (\triangle) for any optional software that is missing. You don't have to install this software to use the add-in.

- 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.

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



Note:

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.

3. 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.

Re-Enable Oracle Visual Builder Add-in for Excel

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

- 1. 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



cel Options			?
General	View and manage Microsoft O	ffine Andri inc	
Formulas	View and manage Microsoft O	nice Add-ins.	
Proofing	Add-ins		
Save	Name 🔺	Location	Type
	Active Application Add-ins	Location	Туре
Language	Oracle Content Add-In for Office	C:\ation\office\x86\OfficeAddin.dll	COM Add-in
Advanced	Oracle Visual Builder Add-in for Excel	C:\vbcs-excel-addin.vsto vstolocal	COM Add-in
Customize Ribbon	Inactive Application Add-ins		
Ouick Access Toolbar	Analysis ToolPak	C:\Library\Analysis\ANALYS32.XLL	Excel Add-in
QUICK ACCESS TOOIDAR	Analysis ToolPak - VBA	C:\rary\Analysis\ATPVBAEN.XLAM	Excel Add-in
Add-ins	Euro Currency Tools	C:\ce16\Library\EUROTOOL.XLAM	Excel Add-in
Trust Center	Microsoft Actions Pane 3		XML Expansion Pack
Trust Center	Microsoft Power Map for Excel Oracle ADF Desktop Integration 12c Add	COM Add-ins	
	Oracle Beebive Add-In for Office	Add-ins available:	
	Send to Bluetooth Solver Add-in Document Related Add-ins No Document Related Add-ins	Oracle ADF Desktop Integration 12c Add-In for I Oracle ADF Desktop Integration 12c Add-In for I Oracle Beehive Add-In for Office Oracle Content Add-In for Office Oracle Visual Builder Add-In for Excel Add-In for Excel Add-In for Excel	Excel
	Add-in: Oracle Content Add-	<u> </u>	
	Publisher: Oracle America. Inc.	Location: C:\Users\AppData\Roamin	g\Oracle\Oracle Visual Bui
	Compatibility: No compatibility info	Load Behavior: Load at Startup	
	Location: C:\Program Files (x86	/	
	Description: Oracle Content Add	HTOLOHICE	
	Manage: Excel Add-ins	<u>G</u> o	
	Excel Add-ins		
	COM Add-ins		OK Cancel
	Actions		
	XML Expansion Packs		
	Disabled Items		

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.

Caution:

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

- 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.



Note:

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.



8 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.

Fi	File Home Insert Draw Page Layout Formulas Data Review View Help Oracle Visual Builder $ ho$ Tell me										
Ŵ	金 設計工具 重新產生 ① ① ● ① ① ● ① ① ● ① ① ● ① ① ● ① ① ● ① ① ● ① ① ● ① ● ③ ① ● ③ ② ⑤ ③ ① ● ③ ③ ●										
	設計 资料 顕示 其他 Business object field titles										
A2											
	А	В	с	D	E	F	G	н		J	к
1	夓蹼	狀態	First Name	Last Name*	Email*	Hire Date	Job Title	Salary	Manager Id	Department*	索引鍵
2			Sophia	Ren	sphren@example.com	2012-02-09	Manager	65,435.00	101	Research	
3			Dave	Brown	davbro@example.com	2017-07-04	Member Technical Staff	28,000.00	102	Accounting	ацпотр
4			John	Sieve	jsieve@example.com	2012-05-11	Member Technical Staff	76,543.00	102	Accounting	

Note:

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.

- 1. 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.
- 4. 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.

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English - Er	nglish - en	

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.
- 2. Choose **Refresh Field Titles** from the Advanced drop-down.
- 3. In the Field Titles window, click **Yes**.

Note:

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

