

**Altova Solvency II XBRL add-in for Excel, ver.
2021r2 Enterprise Edition**

User & Reference Manual

Altova Solvency II XBRL add-in for Excel, ver. 2021r2 Enterprise Edition User & Reference Manual

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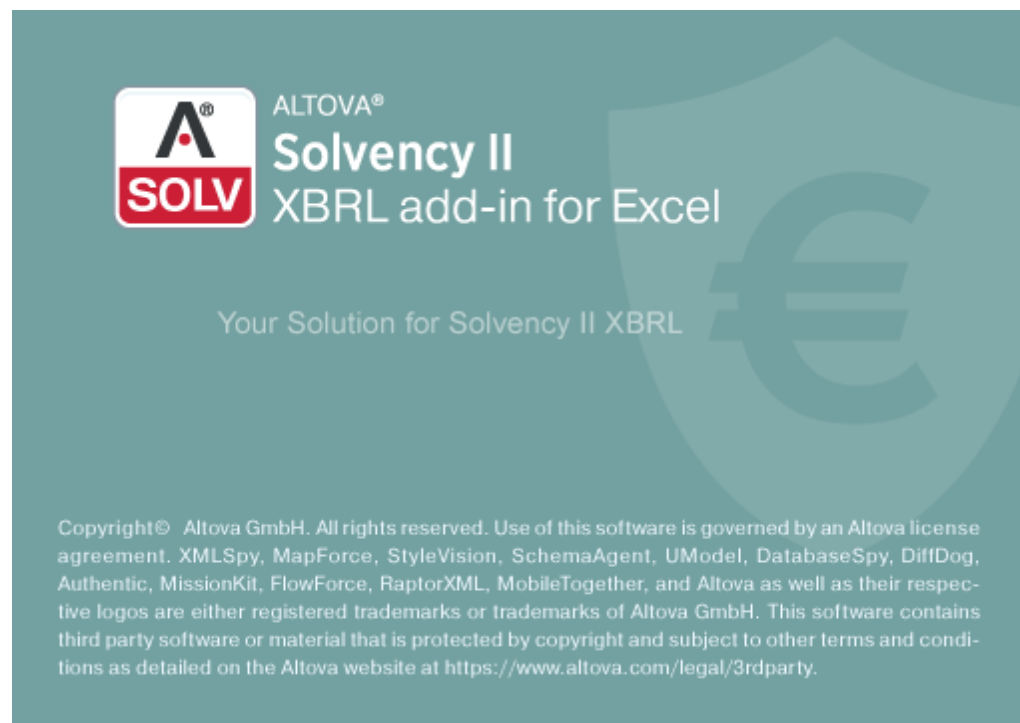
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1 Introduction

The **Altova Solvency II XBRL add-in for Excel** is targeted towards businesses and organizations that submit Solvency II data in XBRL format, as part of Solvency II regulatory framework for insurance companies.



The **Altova Solvency II XBRL add-in for Excel** enables stakeholders in the Solvency II process to do the following:

- Enter Solvency II data in Microsoft Excel, using a predefined template spreadsheet which maps to the Solvency II XBRL taxonomy.
- Validate report data directly from Excel, to ensure it conforms to the Solvency II XBRL taxonomy.
- Export Solvency II reports from Excel to XBRL format.
- Import data from existing Solvency II XBRL reports into Excel.
- Batch convert XBRL files to Excel (.xlsx) format.

The add-in supports the following Solvency II taxonomies:

- EIOPA - Supervisory Solvency II reporting (version 2.0.1 up to the most recent version)
- EIOPA - Supervisory reporting for Pension Funds (version 2.30 up to the most recent version)

In addition, the following country-specific taxonomies are supported:

- Bank of England (BOE) Insurance Taxonomy
- Central Bank of Ireland (CBI) SolvencyII NST
- De Nederlandsche Bank Financieel Toetsingskader (DNB FTK)
- National Bank of Belgium (NBB) IRI

Notes:

- The list of supported XBRL taxonomies is periodically updated to include newer versions, independently of Altova add-in releases. To view or install the latest XBRL taxonomy versions, use the [XBRL Taxonomy Manager](#)³⁶ tool included with the add-in.
- The country-specific XBRL taxonomies, as well as the older Solvency II taxonomy versions, are not installed by default when you install the add-in. You can view, install, upgrade, or uninstall such taxonomies on demand, from the [XBRL Taxonomy Manager](#)³⁶.

Last updated: 25 February 2021

1.1 System Requirements

To install and run the add-in, the following system requirements apply:

- Windows 7 SP1 with Platform Update, Windows 8, Windows 10, Windows Server 2008 R2 SP1 with Platform Update or newer
- Microsoft Excel 2019, 2016, 2013, 2010
- .NET Framework 4.0 or later
- If you use Excel 2010, Visual Studio 2010 Tools for Office Runtime (<https://www.microsoft.com/en-us/download/details.aspx?id=48217>) must be installed.

Also, note the following important points:

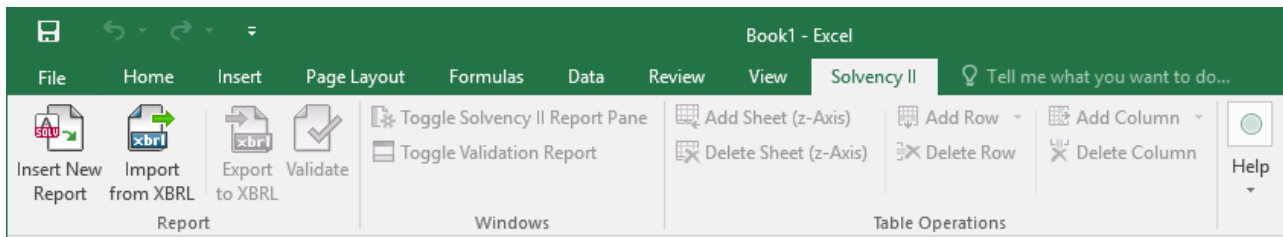
- The add-in is available for both Microsoft Excel 32-bit and 64-bit. Because of memory requirements, some entry points cannot be loaded in the 32-bit version of the add-in, in which case they are disabled. To load such entry points, use Excel 64-bit and install the 64-bit version of the add-in.
- The add-in requires full access to the Excel document in order to create, validate, and export XBRL reports. If your organization enforces Information Rights Management (IRM) using the Azure Information Protection or a similar technology, the latter may restrict access to the Excel document, and thus prevent the add-in from working. For information about how to permit code to run behind documents with restricted permissions, see <https://docs.microsoft.com/en-us/visualstudio/vsto/how-to-permit-code-to-run-behind-documents-with-restricted-permissions?view=vs-2019>.

1.2 Installation and Licensing

To install the **Altova Solvency II XBRL add-in for Excel**, download the executable from the Altova Download Center (<https://www.altova.com/download>) and run it. Follow the wizard steps to complete the installation. You will need to accept the license agreement and privacy policy in order to proceed with the installation.

Make sure to download the executable corresponding to your operating system's and Excel platform (32-bit or 64-bit) The 32-bit executable can be installed on both 32-bit and 64-bit Windows; however, it supports only Excel 32-bit. Note that If you have Excel 32-bit and install the 64-bit version of the add-in, you will still be running the 32-bit version.

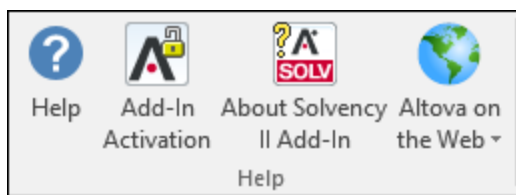
After installation, a new tab called **Solvency II** becomes available in the Excel ribbon.



Licensing

To use **Altova Solvency II XBRL add-in for Excel**, you need a valid license key code. To purchase a new key code, or request a free evaluation from the Altova website, take the following steps:

1. In the Excel ribbon, click the **Solvency II** tab.
2. Click **Add-In Activation**.



A dialog box appears with instructions for getting a new license from Altova, or managing an existing license.

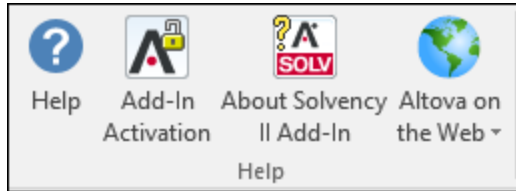
After you purchase a license from Altova, follow the same steps as above to open the activation dialog box and upload the license file.

Alternatively, you can upload purchased licenses to an Altova LicenseServer running on your organization's network. Altova LicenseServer is a free product that helps organizations manage all Altova licenses in a centralized place. For more information about LicenseServer, see <https://www.altova.com/licenseserver>.

See also [License Information](#) ⁹⁶.

How to view the current version of the add-in

1. In the Excel ribbon, click the **Solvency II** tab.
2. Click **About Solvency II Add-In**.



1.3 Installing XBRL Taxonomies

When you install the add-in for the first time on your computer, only the most recent version of the Solvency II XBRL taxonomies are installed by default.

If you need support for other XBRL Taxonomy versions, or country-specific XBRL taxonomies, these have to be installed separately. Specifically, you can install, upgrade, or uninstall XBRL taxonomies on demand, using the [XBRL Taxonomy Manager](#)³⁶ tool included with the add-in.

To run the XBRL Taxonomy Manager, do one of the following:

- In the **Solvency II** ribbon, click **Manage Taxonomies**.
- Run (double-click) a file with .altova_taxonomies extension downloaded from the Altova website. To open the XBRL Taxonomy Download Center in your browser, select the **Solvency II** ribbon, and then click **Altova on the Web > Taxonomy Download**.
- From the Windows Control Panel, right-click the **Altova Taxonomy Manager** entry and select **Change** or **Uninstall** from the context menu.

In addition, the check box **Invoke Altova Taxonomy Manager** is available on the last page of the installation wizard, after you complete the installation of Altova Solvency II XBRL add-in for Excel.

Note the following:

- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect for all users accounts on the same computer.
- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect in all Altova XBRL-enabled applications installed on the same computer.
- If the current taxonomy has dependencies on other taxonomies, the dependent taxonomies are also installed (or uninstalled, as applicable).

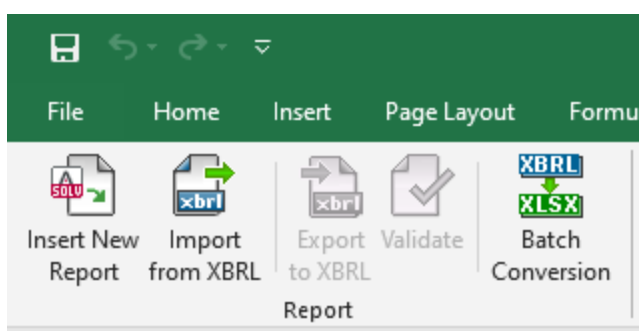
For further information, see [Managing XBRL Taxonomies](#)³⁶.

2 Creating a New Report

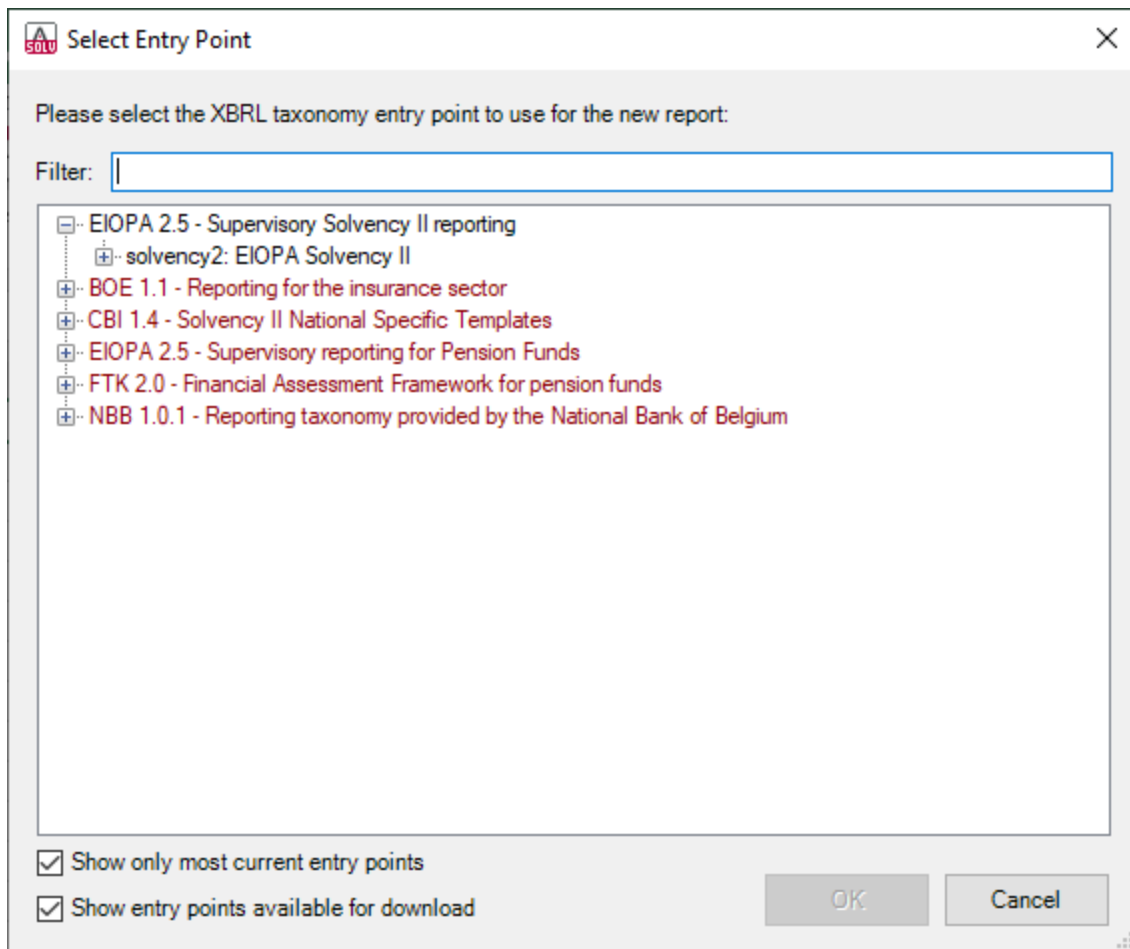
The instructions below show you how to prepare a new XBRL report based on the Solvency II XBRL taxonomy available in **Altova Solvency II XBRL add-in for Excel**. This XBRL taxonomy is installed by default on your computer when you install the add-in. Additional taxonomies can be installed separately, see [Installing XBRL Taxonomies](#) ¹⁰.

To create a new report:

1. In the Excel ribbon, click the **Solvency II** tab.
2. Click **Insert New Report**.



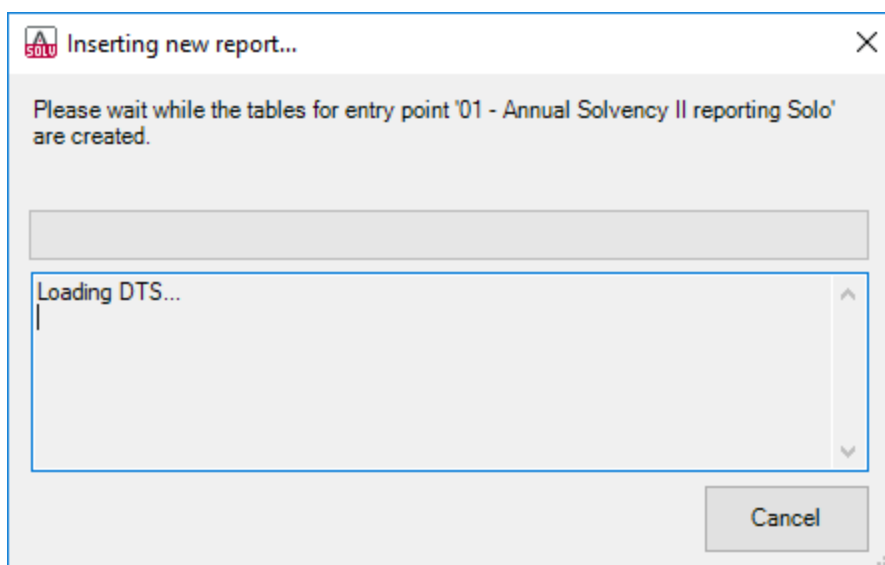
3. Select the taxonomy entry point corresponding to the report that you wish to create. Use the filter at the top of the dialog box to filter entry points by keywords. Note that, by default, only the most current entry points for the current version of the add-in are shown. To show all the XBRL taxonomies available for download, select the **Show entry points available for download** check box. To show all versions, clear the **Show only most current entry points** check box.



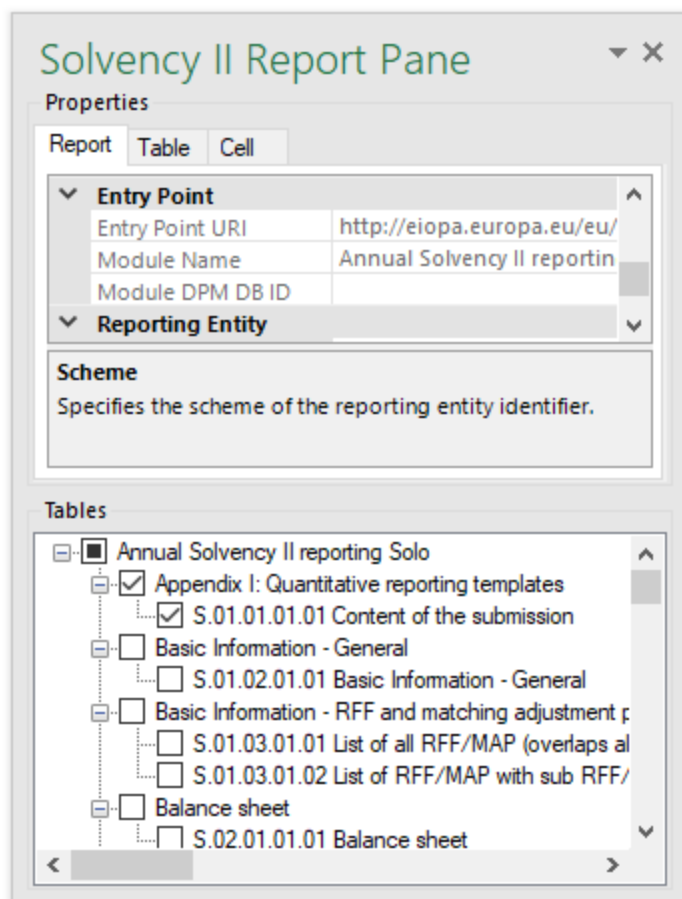
Entry points that are shown in brick red color are not installed. To install the respective XBRL taxonomies, select the entry point, and then click **OK**. This opens the XBRL Taxonomy Manager, where you can complete the installation, see [Managing XBRL Taxonomies](#)³⁶.

Because of memory requirements, some entry points cannot be loaded in the 32-bit version of the add-in, in which case they appear as grayed out on the dialog box above. To make loading of such entry points possible, use Excel 64-bit and install the 64-bit version of the add-in.

4. Be patient while the report tables are loaded into Excel. During this operation, a dialog box informs you of the progress, for example:



Once the report tables have finished loading, notice the **Tables** section in the **Solvency II Report Pane**.



5. Select the check boxes next to tables that you want to include in the report. Notice that each included table appears on a new sheet in the Excel book.

You can now start entering data in tables, validate it, and export it to XBRL format. See the following topics for more information:

- [Entering Data](#) ¹⁶
- [Controlling Accuracy of Cells](#) ²⁵
- [Validating Data](#) ²⁸
- [Exporting Data to XBRL](#) ³¹

Solvency II Report Pane

Solvency II Report Pane is the area where you can include or exclude tables from the report, view information about each cell, and view or set various report properties. By default, this pane is visible; you can show or hide it by clicking **Toggle Solvency II Report Pane** command in the ribbon. As illustrated above, the **Solvency II Report Pane** consists of two main sections: **Properties** and **Tables**.

Properties

The properties displayed in the **Solvency II Report Pane** directly affect the content of the XBRL instance file that will be created when you export the XBRL instance. To view what each property does, click it and observe the description displayed in the gray box under the grid. Properties that are grayed out are read-only; otherwise, you can edit a property by typing text or selecting a value as applicable.

The **Scheme** and **Identifier** properties under "Reporting Entity" are typically provided by the relevant competent authorities.

Also note that, even though some property values begin with "http" (for example, **Entry Point URI, Scheme**), they do not necessarily point to live web resources and thus should not be considered dead links. To resolve entry point URIs, the add-in uses a catalog mechanism that maps URIs to files on the local system. This is in large part due to the size of the taxonomies and the fact that they contain thousands of files. Accessing the taxonomy files over the Internet would result in extremely slow performance, even if their issuing organizations served them that way.

Properties are grouped into the following three tabs:

- **Report** - This tab displays properties applicable to the entire report (one report corresponds to one Excel workbook).
- **Table** - This tab displays only properties of the currently selected table. A table normally corresponds to a single Excel worksheet. Therefore, whenever you click inside a new Excel sheet, the properties are re-drawn to reflect the new worksheet.
- **Cell** - This tab displays only properties of the currently selected cell. Whenever you click a new cell, the cell properties are re-drawn accordingly.

You can set the accuracy-related properties at report, table, or cell level. For more information, see [Controlling Accuracy of Cells](#) ²⁵.

Tables

To include a table in the report at any time, select its corresponding check box in the **Solvency II Report Pane**. Each included table appears on a new sheet in the Excel book. To go to a specific sheet, either navigate to it using the standard Excel way, or click the corresponding table in the **Solvency II Report Pane**.

To remove a particular table from the report, clear the check box next to it. Tables that are not selected will not be included in the report.

Some tables support a Z-Axis (a third dimension). For information about adding a Z-Axis to a table, see [Entering Data into Three-Dimensional Tables \(Z-Axis\)](#)²¹.

Each report table displayed in the **Solvency II Report Pane** is XBRL-bound, meaning that data you enter directly in the table cells will be reflected in the XBRL instance file when the report is ready, see [Exporting Data to XBRL](#)³¹. While the report data is work in progress, you can save the Excel workbook and reopen it at any time later, just like a standard Excel workbook.

Any sheets that contain tables are bound to the XBRL taxonomy, so they must not be deleted. It is also not recommended to rename such sheets. If necessary, you can add new sheets to the workbook; however, such sheets would not be bound to the XBRL taxonomy and consequently be ignored when you generate the XBRL instance file.

2.1 Entering Data

You can populate a report with data either by entering data into cells manually or by pasting values. With some cells, you can select a value from a predefined list (such as countries or currencies). Also, in some report tables, you may need to add new rows or columns. The following is a list of tips and best practices for entering data.

Editable versus non-editable cells

As a general rule, gray cells must not be edited. Only cells that are included in the XBRL-bound area (delimited by the table boundaries) are to be edited. For guidance with respect to the purpose of the cell, and data expected to be entered, consult the cell information (properties) displayed in the **Solvency II Report Pane**, in the **Cell** tab.

Pasting data

If you paste data from multiple columns, the number of pasted columns should correspond to the number of columns in the predefined sheet. If you accidentally paste a larger number of columns, or if you type text outside the default table, unwanted columns may appear outside the XBRL-bound area. To delete unwanted columns, right-click the cell and select **Delete > Table Columns**. To prevent Excel from adding new columns and rows automatically, go to **File > Options > Proofing > AutoCorrect Options > AutoFormat As You Type > Apply as you work**, and click to clear the **Include new rows and columns in table** check box.

When pasting data, it is recommended to keep only the values (and not the formatting). Namely, select the **Paste Values** option when pasting cells or rows.

Actual versus displayed cell value

While generating the XBRL instance file, the add-in ignores any cell formatting information and exports the *actual* value of the Excel cell. However, bear in mind that, as part of Excel functionality, the *actual* value may be different from the value displayed in the cell, because of the cell formatting information. You can view at any time the actual value (the one that will be written to the XBRL instance) in the formula bar of Excel. Consider this example:

	A	B	C	D
1	S.05.02.01.01 Home Country - non-life obligations			
2				
3				Home country
4				C0080
5	Gross - Direct Business	R0110		12.345,00

In the example above, the value that will be written to the XBRL instance is 12345. Note that the number accuracy reported in the XBRL instance file also depends on the value you selected for the "Accuracy" properties (see [Controlling Accuracy of Cells](#)²⁵).

Enumeration values

Some cells expect a fixed predetermined value (for example, cells that represent currencies or countries). In this case, the add-in displays a small tooltip when you click the cell. You can pick up the required value from the drop-down list:

	A	B	C	D	E
8	Country of authorisation	R0050	<input type="text"/>		
9	Language of reporting	R0070			
10	Reporting submission date	R0080			

Select Metric: Country of aut...
Please select a value from the list.

To view the full list of all possible values, click the cell and observe the cell properties in the **Cell** tab of the **Solvency II Report Pane**.

Conditional cells

In some tables, you must first fill out a cell value in order to make other cells of the table editable. For example, in the table below, the cells A5 and B5 must first be filled out before all the other cells in the same row become editable.

	A	B	C	D	E	F
1	E.01.01.16.01 Deposits to cedants - line-by-line reporting					
2						
3	Line identification code	Issuer country	Currency	Total Solvency II amount	Accrued interest	Par amount
4	EC0010	EC0020	EC0030	EC0040	EC0050	EC0060
5	<input type="text"/>					
6						
7						
8						
9						
10						

Enter Line identification code:
Please enter the Line identification code for this row.

Conditional cells can unlock cells not only from the same row, but also from the same column. For example, in the table below, cell C7 must first be filled out in order to make cells C9-C11 editable:

	A	B	C	D	E
1	S.04.01.01.03 By EEA member (localization of activity)				
2					
3	Sheet per Sheets				
4					
5			By EEA member		
6			Business underwritten in the considered country through FPS, by the undertaking or any EEA branch		
7					
8			C0100		
9	Premiums written	R0020	<div style="border: 1px solid black; background-color: #ffffcc; padding: 5px;"> Select EEA member Please select a value from the list. </div>		
10	Claims incurred	R0030			
11	Commissions	R0040			

Cells with multiple values

Depending on the XBRL taxonomy, some reports might have facts that represent an arbitrary list of comma-separated multiple values. Consequently, in Excel, the corresponding cell also requires multiple values to be entered in the same cell. For example, the table "S.25.0.1.21.0.3" available through the entry point **21 - Annual Solvency II public disclosure Solo** contains cells that take multiple values.

To enter data for such cells, first expand the drop-down list, and then click all items that qualify.

	A	B	C
1	S.25.01.21.03 Basic Solvency Capital Requirement (U		
2			
3			USP
4			C0090
5	Life underwriting risk	R0030	
6	Health underwriting risk	R0040	
7	Non-life underwriting risk	R0050	1 - Increase in the amt 2 - Standard deviation 3 - Standard deviation 4 - Adjustment factor f 5 - Standard deviation 9 - None
8			
9			
10			
11			

Alternatively, you can type all the numeric values, separated by a comma, as shown below. Remember that you can view all possible values of a cell in the **Cell** tab of the **Solvency II ReportPane**.

	A	B	C
1	S.25.01.21.03 Basic Solvency Capital Requirement (U		
2			
3			USP
4			C0090
5	Life underwriting risk	R0030	
6	Health underwriting risk	R0040	2,3
7	Non-life underwriting risk	R0050	

After you exit a multi-valued cell, it is automatically re-drawn to display all selected values in a readable form (even though you may have entered only numbers).

Adding new rows

With some tables, you may need to create new rows. For example, this is the case for table "S 01.03.01.01" available through the entry point **Solvency II 2.3 - Annual Solvency II Reporting Solo**. You can add new rows either using the standard Excel commands or shortcuts, or by clicking the **Add Row** button in the ribbon. For example, to add a new row to the table "C 10.02" of the entry point mentioned above, do one of the following:

- In the Excel ribbon, click the **Solvency II** tab, and then click **Add Row | Insert Row Below**. Note that the commands to insert or delete rows are enabled only if the table supports adding new rows.
- Click the rightmost cell of the last row in the table, and press **Tab**.
- Right-click a cell in the empty row, and select **Insert | Table Row Below** from the context menu.

Note: Any newly added rows must be within the XBRL-bound area of the table, clearly delimited by black lines.

Adding new columns

Some tables may need extra columns to be added. In other words, they can grow horizontally. For example, this is the case for table "S.04.01.01.03" available through the entry point **Solvency II 2.3 - Annual Solvency II Reporting Solo**. You can add new columns to such tables in one of the following ways:

- In the Excel ribbon, click the **Solvency II** tab, and then click **Add Column**. Note that this command is enabled only if the table supports adding new columns according to the XBRL taxonomy.
- Click the **Add** button that appears next to the rightmost column of a table.

	A	B	C	D
1	S.04.01.01.03 By EEA member (localization of activity)			
2				
3	Sheet per Sheets			
4				
5			By EEA member	
6			Business underwritten in the considered country through FPS, by the undertaking or any EEA branch	
7				
8			C0100	Add
9	Premiums written	R0020		
10	Claims incurred	R0030		
11	Commissions	R0040		

- Right-click a table cell, and then select **Insert | Table Columns to the Right** from the context menu.

2.2 Entering Data into Three-Dimensional Tables (Z-Axis)

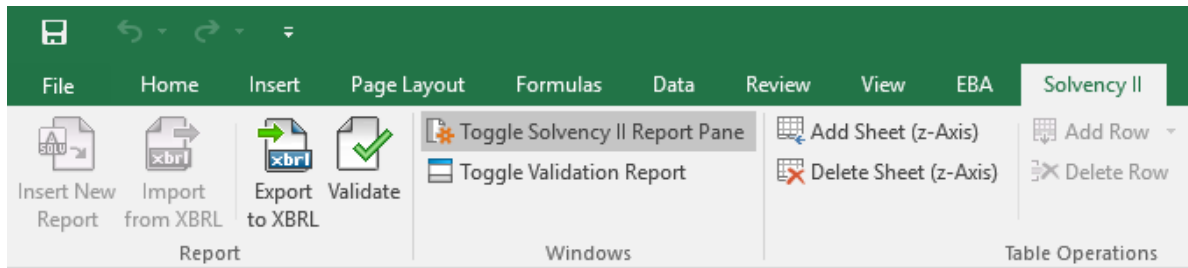
Most of the report tables have only two dimensions: the x-Axis (columns) and the y-Axis (rows). However, there are some tables where you may need to enter data into a third dimension (the z-Axis). An example of such a table is the "S.16.01.01.01" table available through the entry point **Solvency II 2.3 - Annual Solvency II Reporting Solo**.

	A	B	C	D
1	S.16.01.01.01 Information on year N:			
2				
3	Sheet per Sheets			
4	Sheet per The related non-life			
5	Sheet per Accident year /			
6				
7			Information on year N	
8			C0010	

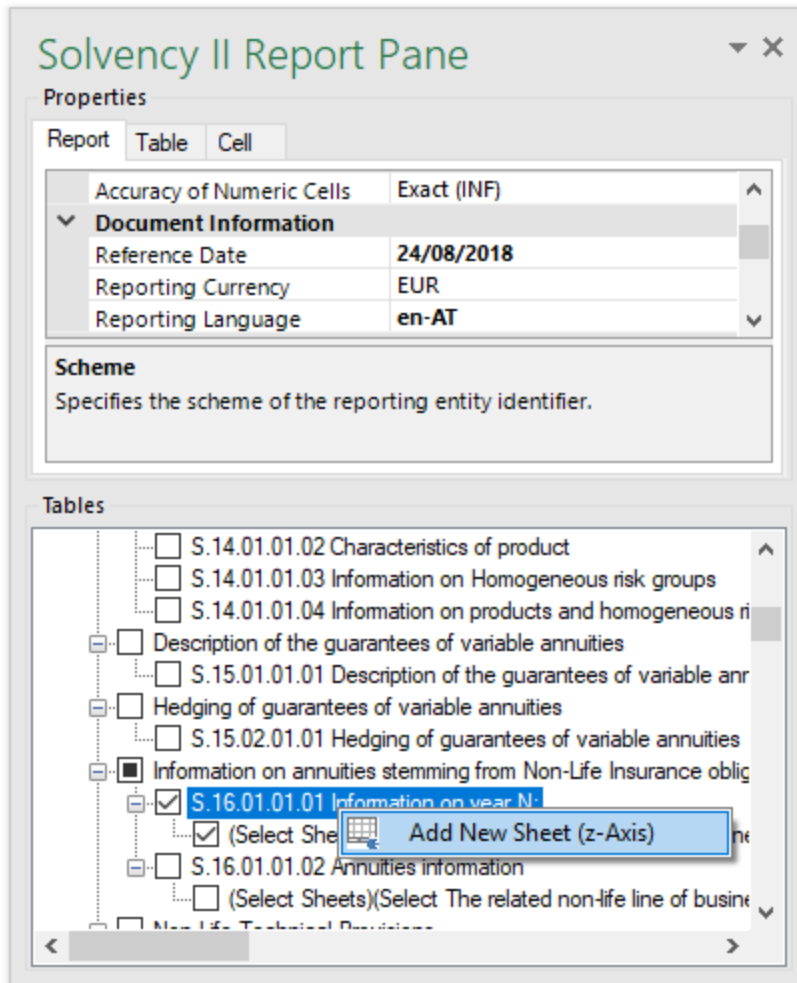
Select Sheets
Please select a value from the list.

In cases such as the one above, you can add a new sheet along the z-Axis (third dimension) of the table, as follows:

1. In the Excel ribbon, click the **Solvency II** tab.
2. Click the **Add Sheet (z-Axis)** button. Note that the commands to insert or delete new z-Axis sheets are enabled only if the table supports adding a z-Axis.



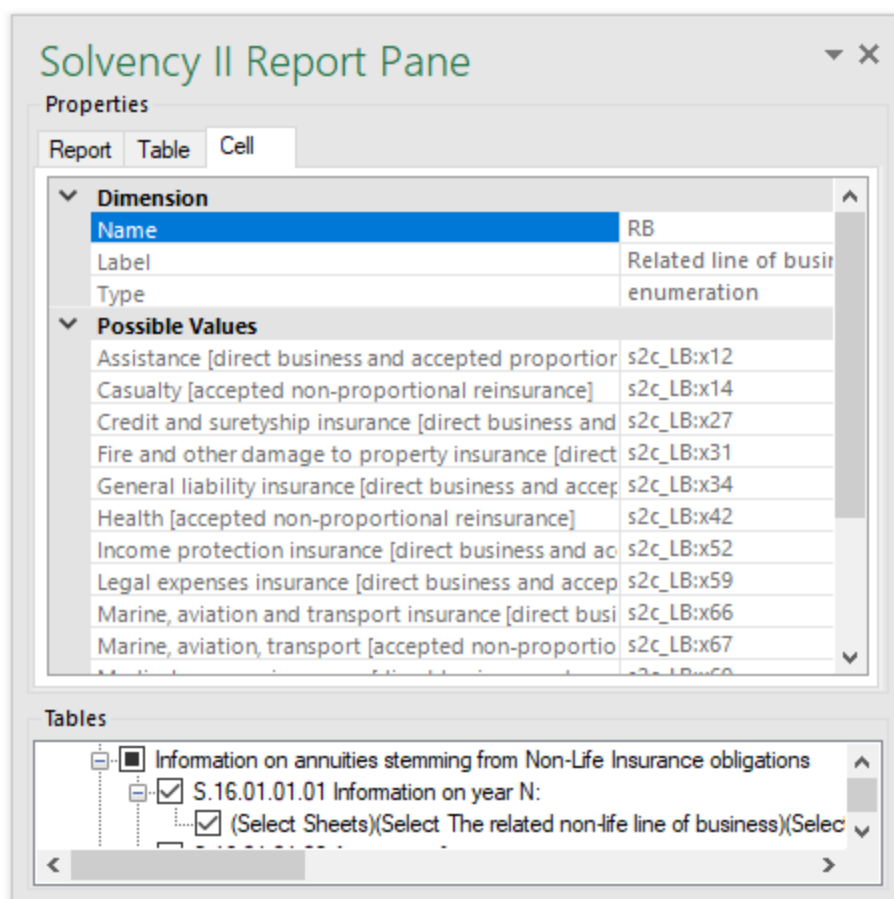
Alternatively, right-click the table in the **Solvency II Report Pane** and select **Add New Sheet (z-Axis)** from the context menu, for example:



This creates a new sheet that displays the third dimension of the table (z-Axis). The sheet representing the z-Axis always has an indicative name that resembles the original table. In this example, if you select "Euro" as currency, the new sheet is called "F 34.00c (EUR)".

Data from the third dimension (z-Axis) of a table are displayed as new sheets in Excel. Therefore, three-dimensional tables span across more than one sheet. This is an exception to the rule that one Excel sheet corresponds to one table in the XBRL report. In the XBRL instance, data that belongs to the z-Axis will be, however, correctly reported as part of the same table.

When you click a cell that represents z-Axis, all the possible values for the drop-down list are displayed in the **Cell** tab of the **Solvency II Report Pane**, for example:



Deleting z-Axis sheets

You can delete sheets that contain data from the third dimension (z-Axis) in more than one way.

1. Select the required sheet (or click the corresponding entry in the "Tables" section of **Solvency II Report Pane**).
2. Do one of the following:
 - In the **Solvency II** tab, click **Remove Sheet (z-Axis)**, or
 - Right-click the table in the **Solvency II Report Pane** and select **Remove Sheet (z-Axis)** from the context menu.

Solvency II Report Pane

Properties

Report Table Cell

Dimension	
Name	RB
Label	Related line of business
Type	enumeration

Possible Values	
Assistance [direct business and accepted proportional reinsurance]	s2c_LB:x12
Casualty [accepted non-proportional reinsurance]	s2c_LB:x14
Credit and suretyship insurance [direct business and accepted proportional reinsurance]	s2c_LB:x27
Fire and other damage to property insurance [direct business and accepted proportional reinsurance]	s2c_LB:x31

Tables

- Information on annuities stemming from Non-Life Insurance obligations
 - S.16.01.01.01 Information on year N:
 - Assistance [direct business and accepted proportional reinsurance]
 - Casualty [accepted non-proportional reinsurance] (x14) (Select The related non-life line of business)
 - S.16.01.01.02 Annuities
 - (Select Sheets)(Select The related non-life line of business)(Select The related non-life line of business)
- Non-Life Technical Provisions
 - S.17.01.01.01 Non-Life Technical Provisions
- Non-Life Technical Provisions - By country
 - S.17.02.01.01 Gross TP calculated as a whole and Gross RF for different lines of business

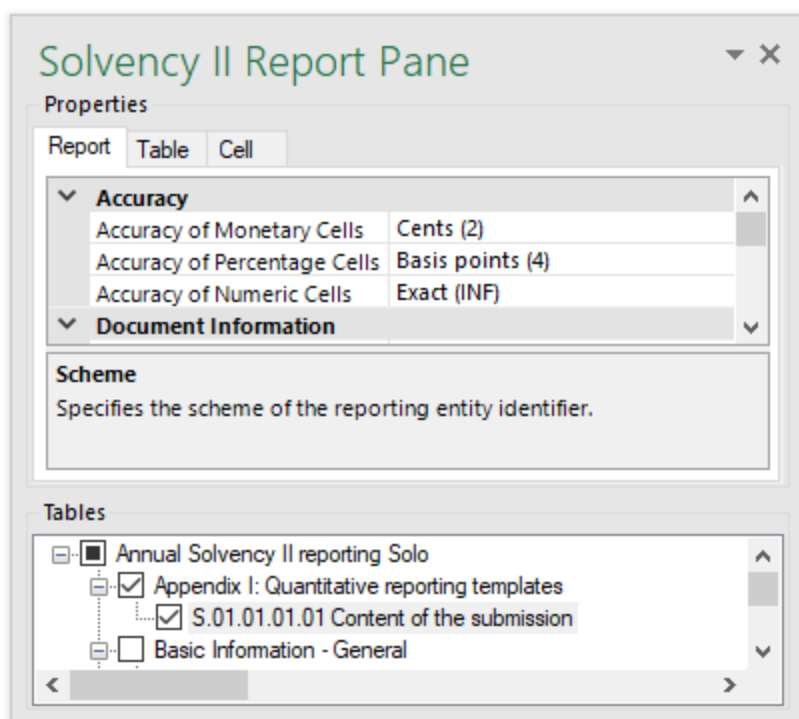
Remove Sheet (z-Axis)

2.3 Controlling Accuracy of Cells

The accuracy of monetary and other numeric values in the XBRL report can be controlled by setting the following report properties:

1. Accuracy of monetary cells
2. Accuracy of numeric cells
3. Accuracy of percentage cells

These properties are available in the **Solvency II Report Pane**, in the **Properties** group.

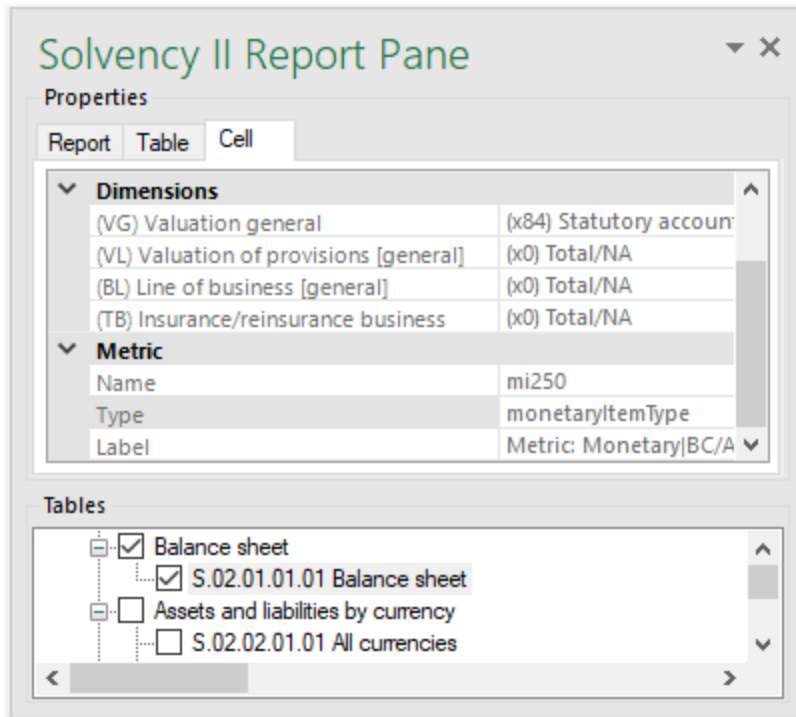


The property **Accuracy of Monetary Cells** applies to numeric cells in the report that represent a monetary value.

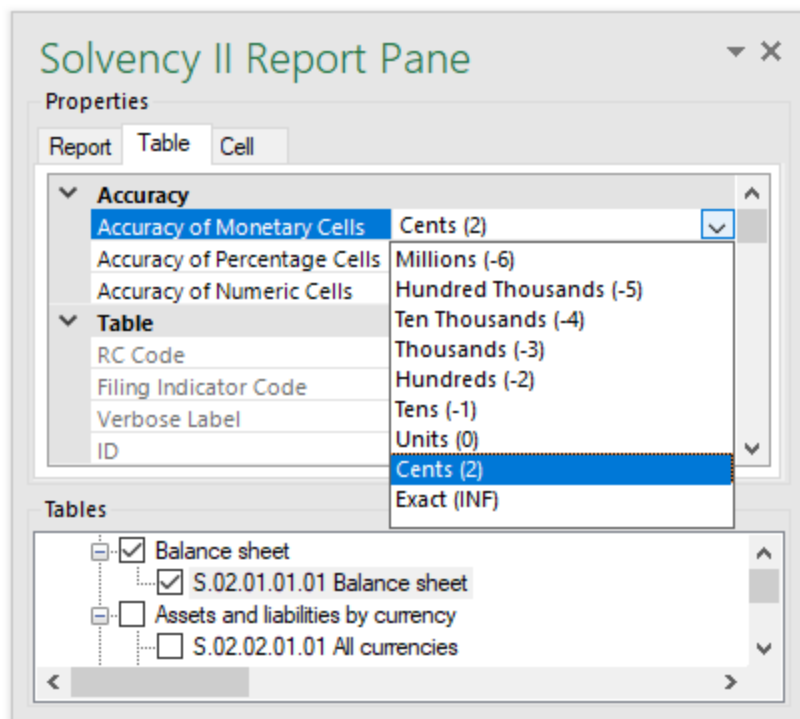
The property **Accuracy of Numeric Cells** applies to numeric values that have no unit (excluding percentage values, which have their own data type).

The property **Accuracy of Percentage Cells** applies to values that represent a percentage.

To view the type of a cell, first select a cell, and then click the **Cell** tab in the **Solvency II Report Pane** and observe the **Type** property, for example:



The accuracy you select from the **Solvency II Report Pane** controls the accuracy that will be written for this fact in the XBRL instance file. More specifically, the "Accuracy" properties are bound to the **decimals** attribute in the XBRL instance file. For example, in the image below, the accuracy value indicated in the brackets corresponds to the value of the **decimals** attribute in the XBRL instance file.



By default, accuracy is set as follows:

- The **Accuracy of Monetary Cells** is set to **Cents (2)**, which sets the value of the **decimals** attribute in the XBRL instance to "2"
- The **Accuracy of Percentage Cells** is set to **Basis Points (4)**, which sets the value of the **decimals** attribute in the XBRL instance to "4".
- The **Accuracy of Numeric Cells** is set to **Exact (INF)**, which sets the value of the **decimals** attribute in the XBRL instance to "INF".

You can set the accuracy-related properties at report, table, or cell level (see the corresponding tabs in the image above). If you set accuracy at multiple levels, keep in mind that the more specific property always overrides the more generic one. For example, the accuracy set at cell level takes priority over the one set at table level. Likewise, the accuracy set at table level takes priority over the one set at report level.

For monetary and numeric cells, the accuracy value can be either positive or negative.

A positive value N specifies the accuracy of up to N digits to the right of the decimal place. For example, the value 2 specifies the accuracy to be in cents, while the value 3 specifies the accuracy to be up to mills.

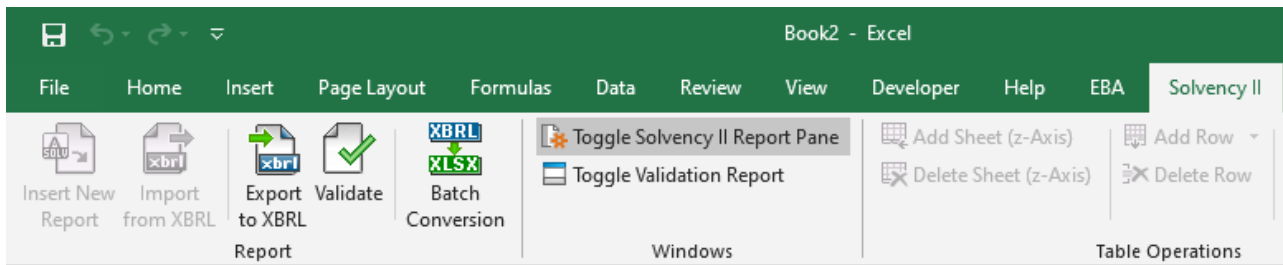
A negative value N specifies the accuracy of up to N digits to the left of the decimal place. For example, the value -3 specifies the accuracy to be up to thousands, while the value -6 specifies the accuracy to be up to millions.

3 Common Tasks

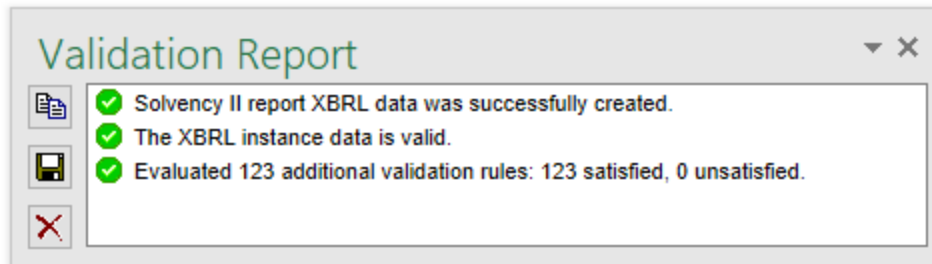
3.1 Validating Data

Validation ensures that the XBRL data you are filing conforms to the XBRL specification. The report data should be validated before you export it to XBRL. You might also want to validate data progressively, after each action that could potentially render it invalid (for example, after pasting new rows into the spreadsheet).

To validate data, click the **Validate** button in the **Solvency II** tab of the Excel ribbon.






Be patient while **Altova Solvency II XBRL add-in for Excel** performs the validation process. To validate XBRL data, the add-in creates a temporary in-memory XBRL instance. When validation of the in-memory instance completes, a validation report similar to the one below is displayed.



The validation result can be any of the following:

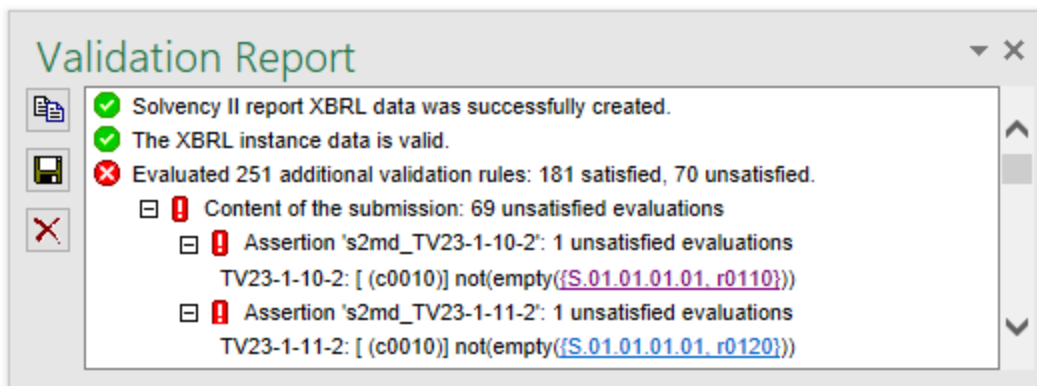
Message type	Meaning
✓	The instance data is valid.
⚠	The instance data is valid, but has inconsistencies or warnings.
✗	The instance data is not valid.

The Validation Report dialog box may additionally display any of the following message types: information messages, warnings, and errors.


Message type	Meaning
	Denotes an information message. Information messages do not make the XBRL instance invalid.
	Denotes a warning message, or an inconsistency. Warnings and inconsistencies do not make the XBRL instance invalid.
	Denotes an error. If there are validation errors, the XBRL instance is not valid, and you will need to edit the report data so as to resolve each error before proceeding with the export to XBRL. Note: During validation, the add-in checks XBRL formula assertions and reports them as errors. If you are using the Altova RaptorXML+XBRL Server for validation (https://www.altova.com/raptorxml), XBRL formula assertions may be optionally configured not to be reported as errors.

Note: By default, the add-in treats invalid cell values as errors. If necessary, you can configure the add-in to treat invalid cell values as warnings instead, see [Settings](#) ⁵⁷.


When a report fails successful validation, the Validation Report window may display links to the cell where the error originates. To quickly find a cell where the error originates, click the underlined text and the cursor will be positioned automatically on the required cell. Note that there are cases where multiple cells are involved in a single validation check; in such cases, clicking on the error link will select just one of the affected cells.




To copy the contents of the validation report to clipboard:

- Click  **Copy**, and then paste into a target file (for example, an email). Alternatively, right-click inside the Validation Report window and select **Copy All Messages** from the context menu.

To save the validation report as text or HTML:

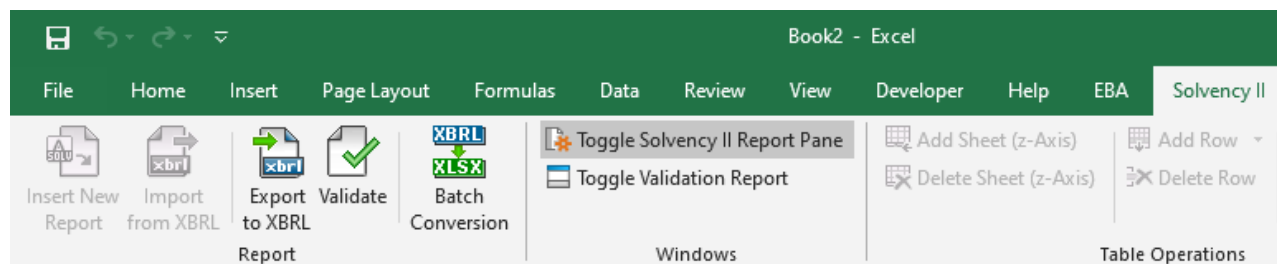
- Click  **Save**. Alternatively, right-click inside the Validation Report window and select **Save Validation Report** from the context menu.

To clear the validation report:

- Click  **Clear**. Alternatively, right-click inside the Validation Report window and select **Clear** from the context menu.

3.2 Exporting Data to XBRL

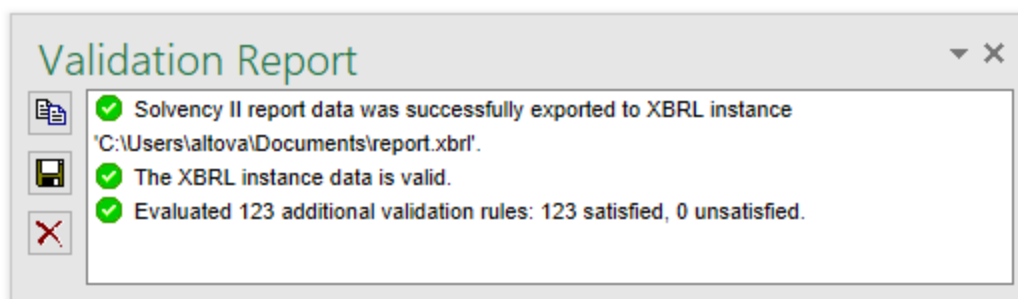
Once your report is ready and valid (see [Validating Data](#)²⁸), you can generate the XBRL instance file. To do this, click the **Solvency II** tab, and then click **Export to XBRL**.



By default, instance files are saved as files with .xbrl extension. If you need the exported file to have another extension (for example, .xml), type the file extension in the Export dialog box.

While the XBRL instance is being created, a dialog box which informs you about the progress may be displayed for a short time.

During the export operation, data is automatically validated. Any errors, inconsistencies and warnings are reported on the screen after the export finishes.



Note: Cell values that are not valid (that is, cells that don't conform to the data type of the underlying XBRL concept) prevent the report from being exported.

For tips on how to avoid data formatting errors, see [Entering Data](#)¹⁶. Note, however, that not all XBRL validation errors might be related to incorrect formatting. Some errors might occur because entered data does not meet the XBRL validation rules applicable to the report you are filing.

3.3 Importing Data

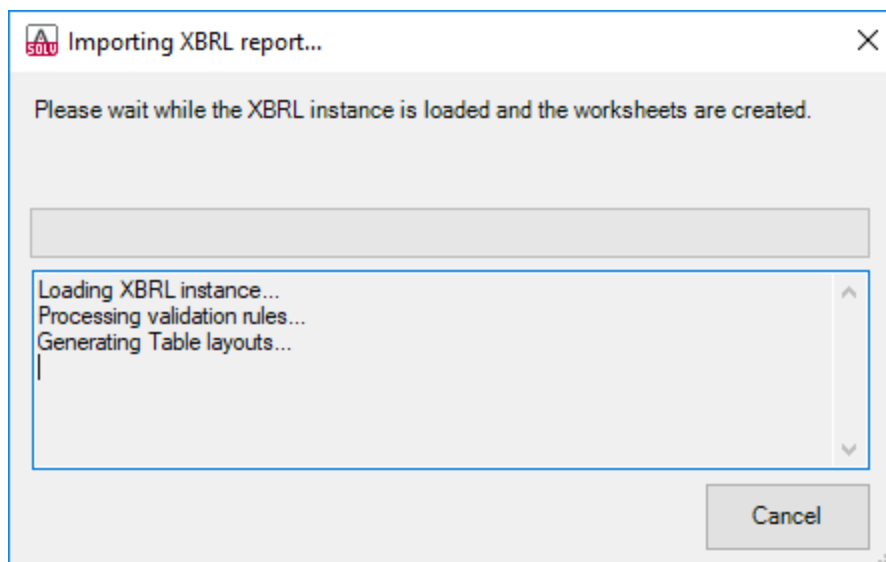
You can import data from existing instances of XBRL reports into Excel (typically, files with .xbrl extension). For the import to be successful, the imported instances must be valid XBRL reports. They may be either reports you have previously generated using the **Altova Solvency II XBRL add-in for Excel**, or reports that you received from other parties.

To import an existing XBRL instance file into Excel:

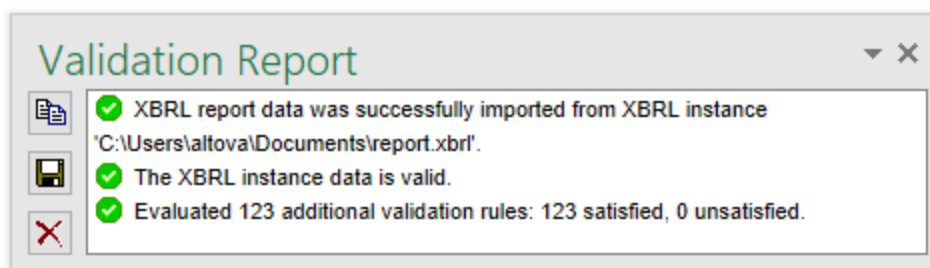
1. In the Excel ribbon, click the **Solvency II** tab.
2. Click **Import from XBRL**, and browse for the XBRL instance file.

Note: If a report is already open in Excel, the **Import from XBRL** button is disabled. To enable the command, save and close the current report (workbook) and create a new workbook.

During the import operation, a dialog box informs you about the progress:



While the report data is loaded into Excel, it is automatically validated. A dialog box notifies you about potential warnings, inconsistencies, or errors (see also [Validating Data](#)²⁸).



Note: During import, the add-in validates XBRL formula assertions. A report will be imported even if it contains

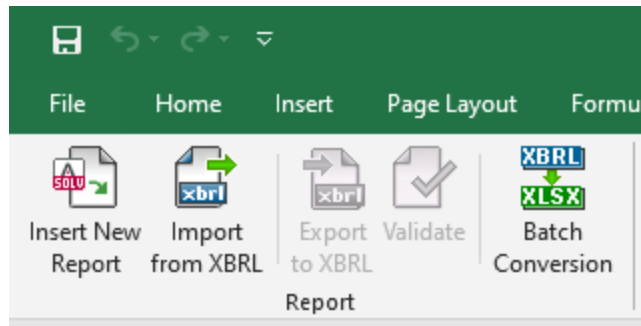
unsatisfied assertions.

3.4 Batch Conversion from XBRL to Excel

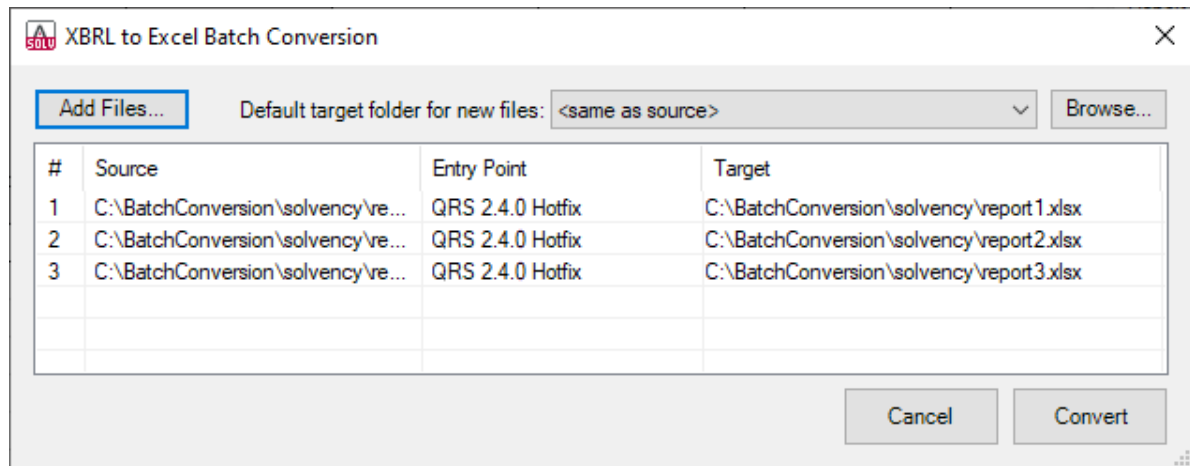
The **Batch Conversion** command in the Excel ribbon enables you to convert multiple XBRL instance files to Excel format. The result is the same as if you [imported](#)³² multiple XBRL instance files and then saved them to Excel format—while having the advantage that conversion takes place in batch.

In order to perform a batch conversion, you must first add all the required files to a batch, as follows:

1. In the Excel ribbon, click the **Solvency II** tab.



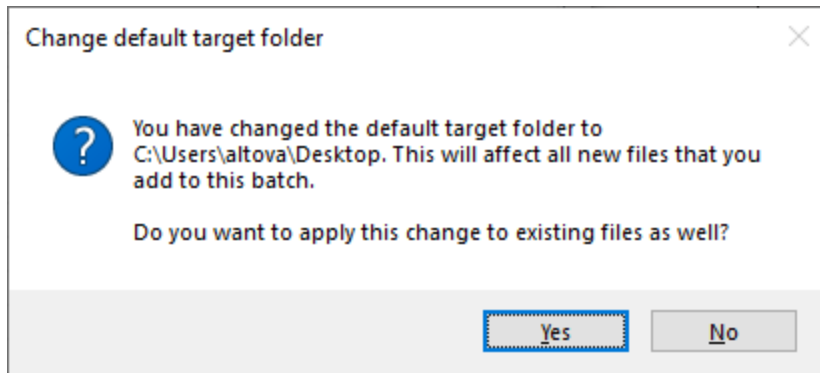
2. Click the **Batch Conversion** button.
3. Click **Add Files**. (Alternatively, right-click the grid, and select **Add Files** from the context menu.)



From the conversion dialog box, you can perform the following additional tasks:

1. To add files from additional source locations to the same batch, click **Add Files**.
2. Whenever you add new files to the batch, their default target folder is the same as the source folder. If you want to assign a specific target folder to all new files by default, select it from the **Default target folder for new files** list. To add new entries to the list, click **Browse** and choose a folder.

Note: By default, the option **Default target folder for new files** affects new files that you add to the batch. However, if you change this option and files already exist in the batch (on the grid), a dialog box like the one below appears. Click **Yes** if the target folder of existing files should be changed as well.



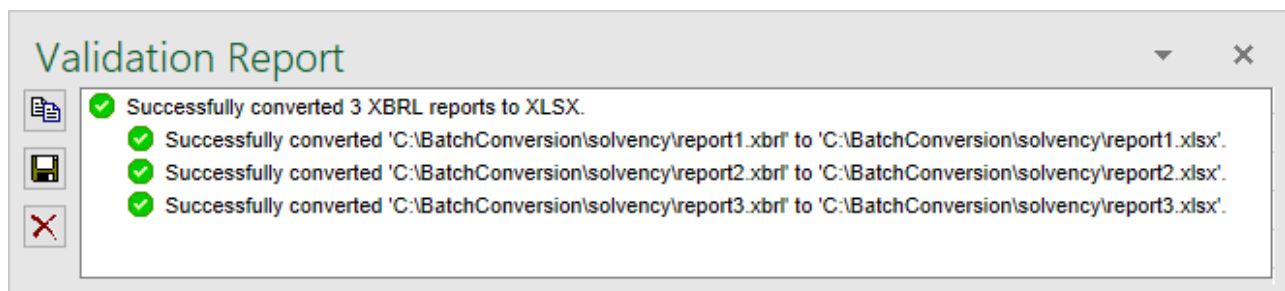
3. You can choose to save all converted files to the same target folder, or set a different target folder for each file. To change the target folder of specific files, first select the files on the grid, and then right-click the grid and select **Set target folder** from the context menu.
4. You can rename the target files. First select the files on the grid, and then right-click the grid and select **Rename** from the context menu (or press **F2**). You can change both the file name and the file path. However, if you change the path, make sure that it exists.
5. To remove files from the batch, first select them, and then right-click the grid and select **Remove** from the context menu (or press the **Del** key).

Tip: To select multiple files from the grid, the standard Windows key combinations apply, for example:

- While holding the **Ctrl** key pressed, click to select the files of interest.
- Click an empty area in the dialog box and then drag the cursor over the files to be selected (rectangular selection)
- Press **Ctrl+A** to select all files in the grid.

Once the batch is ready, click **Convert** to process all files in it. If any files with the same name already exist at the target folder, a message box appears asking your confirmation to overwrite them.

While a batch conversion is running, a dialog box appears that informs you about the progress. The outcome of the conversion operation is reported in the Validation Report window, for example:



When performing batch conversion, the same validation takes place as when importing a single XBRL instance file. If validation is successful, a message similar to "Successfully converted file.xlsx" is reported in the Validation Report for each file. If there are validation errors or warnings, they are reported in the Validation Report as well.

4 Managing XBRL Taxonomies

XBRL Taxonomy Manager is a tool that provides a centralized way to install and manage XBRL taxonomies for use across all Altova XBRL-enabled applications, including Altova Solvency II XBRL add-in for Excel. On Windows, XBRL Taxonomy Manager has a graphical user interface and is also available at the command line. On Linux and Mac*, the tool is available at the command line only.

* The Linux and macOS operating systems are applicable only if you are running XBRL Taxonomy Manager on those operating systems in conjunction with Altova cross-platform server applications such as MapForce Server, StyleVision Server, or RaptorXML+XBRL Server.

XBRL Taxonomy Manager provides the following features:

- View XBRL taxonomies installed on your computer, and check whether new versions are available for download.
- Download newer versions of XBRL taxonomies independently of the Altova product release cycle. All taxonomies are maintained by Altova on an online-based storage accessible to XBRL Taxonomy Manager, and you can download them as soon as they become available.
- Install or uninstall any of the multiple versions of a given taxonomy (or all versions if necessary).
- A single XBRL taxonomy represents a "package" but it may have dependencies on other taxonomies. Whenever you choose to install or uninstall a particular taxonomy, any dependent taxonomies are detected and also installed or removed automatically. The graphical user interface (or the command line if applicable) informs you when dependencies are being added or removed.
- XBRL taxonomies maintained through XBRL Taxonomy Manager benefit from the [XML catalog](#) mechanism that enables URI references in instance or schema documents to be resolved from local files, as opposed to being retrieved from the Internet. This is extremely important in the case of big XBRL taxonomies where schema resolution from remote URIs is not practical or even recommended, mainly for performance reasons.

XBRL Taxonomy Manager provides a way to administer any of the XBRL taxonomies required for use in any one of the [Altova XBRL-enabled applications](#)³⁶. These include the European Banking Authority Reporting Framework taxonomies, US-GAAP Financial Reporting taxonomies, and various other country- or domain-specific XBRL taxonomies. To view the full list, either run XBRL Taxonomy Manager or run the `list` command at the command line.

Altova XBRL-enabled applications

The following Altova applications are XBRL-enabled and thus benefit from the features provided by XBRL Taxonomy Manager:

- Altova XBRL Add-ins for Excel (EBA, Solvency II)
- MapForce Enterprise Edition
- MapForce Server
- MapForce Server Advanced Edition
- RaptorXML+XBRL Server
- StyleVision Server
- StyleVision Enterprise Edition
- XMLSpy Enterprise Edition

Changes in XBRL taxonomies using XBRL Taxonomy Manager take effect for all the applications listed above if they are installed on the same computer.

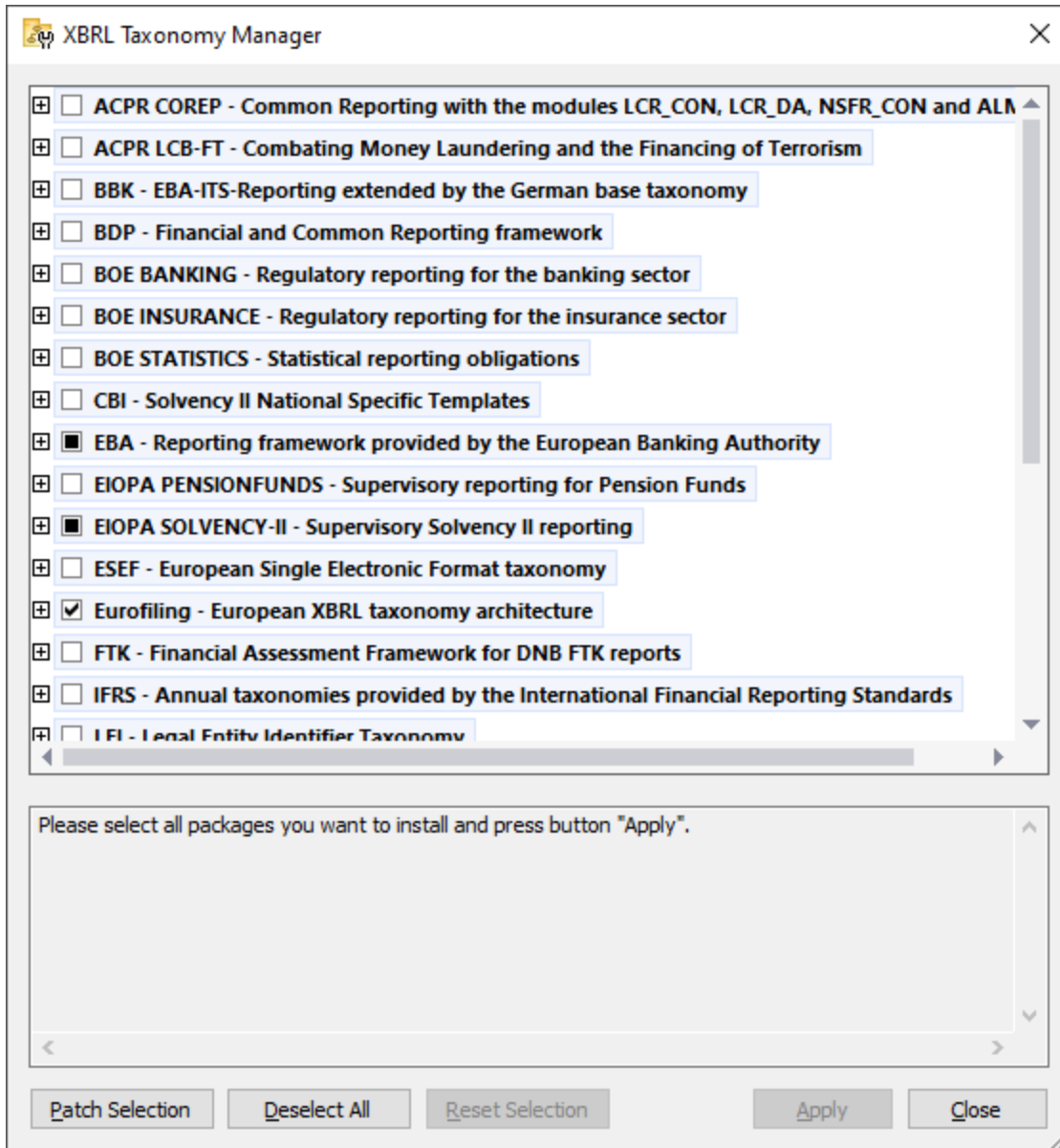
Installation

XBRL Taxonomy Manager is installed automatically whenever you install any Altova XBRL-enabled application or the **Altova Mission Kit Enterprise Edition**. Likewise, it is removed automatically when you uninstall the last Altova XBRL-enabled application from your computer or the **Altova Mission Kit Enterprise Edition**.

How it works

Altova maintains an online taxonomy storage where all XBRL taxonomies used in Altova products are stored. This taxonomy storage is updated on a periodical basis, for example, shortly after new versions of relevant taxonomies are released by their issuing organizations.

Whenever you run XBRL Taxonomy Manager at the graphical user interface, information about the latest available taxonomies is displayed in a dialog box, where you can view, install, upgrade or uninstall them. You can also perform the same actions at the command line interface.



You may also install taxonomies by running .altova_taxonomies files downloaded from the Altova website (<https://www.altova.com/taxonomy-manager>).

Regardless of the manner in which taxonomies were installed, all information about installed taxonomies is tracked in a centralized location on your computer, also known as the local cache directory. The local cache directory contains information about Altova packages (except for the actual taxonomy files, which are installed on demand). The local cache directory is at the following path:

<i>Linux</i>	/var/opt/Altova/pkgs
<i>macOS</i>	/var/Altova/pkgs

<i>Windows</i>	C:\ProgramData\Altova\pkgs
----------------	----------------------------

The local cache directory gets updated automatically from time to time, so as to propagate the latest state of the online storage to the local computer. More specifically, the cache is updated as follows:

- When you [run](#)⁴⁰ the XBRL Taxonomy Manager.
- When you run Altova Solvency II XBRL add-in for Excel for the first time in the same calendar day.
- If Altova Solvency II XBRL add-in for Excel is already running, the cache directory gets updated every 24 hours.
- You can also update the local cache from the online storage on demand, by running the update command at the command line interface.

As you install or uninstall taxonomies, the local cache directory gets automatically updated with information about the available and installed taxonomies, as well as the taxonomy files themselves.

The local cache directory is maintained automatically based on the taxonomies you install or uninstall; it should not be altered or deleted manually. If you ever need to reset XBRL Taxonomy Manager to the original "pristine" state, run the `reset` command of the command line interface, and then run the `initialize` command. (Alternatively, run the `reset` command with the `-i` option.)

4.1 Run Taxonomy Manager

To run the XBRL Taxonomy Manager, do one of the following:

- In the **Solvency II** ribbon, click **Manage Taxonomies**.
- Run (double-click) a file with `.altova_taxonomies` extension downloaded from the Altova website. To open the XBRL Taxonomy Download Center in your browser, select the **Solvency II** ribbon, and then click **Altova on the Web > Taxonomy Download**.
- From the Windows Control Panel, right-click the **Altova Taxonomy Manager** entry and select **Change** or **Uninstall** from the context menu.

In addition, the check box **Invoke Altova Taxonomy Manager** is available on the last page of the installation wizard, after you complete the installation of Altova Solvency II XBRL add-in for Excel.

Command line interface

To run XBRL Taxonomy Manager from a command line interface:

1. Open a command prompt window and change directory to **C:\ProgramData\Altova\SharedBetweenVersions**.
2. To display help at the command line, run:

```
TaxonomyManager.exe --help
```


4.2 Install a Taxonomy

To install a taxonomy:

1. [Run](#) ⁴⁰ XBRL Taxonomy Manager.
2. Select the check box next to the taxonomies or taxonomy versions you want to install, and click **Apply**.

Alternatively, if you have downloaded a file with **.altova_taxonomies** extension from the Altova website (<https://www.altova.com/taxonomy-manager>), double-click the **.altova_taxonomies** file to run it. XBRL Taxonomy Manager opens when you run the **.altova_taxonomies** file.

Note the following:

- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect for all users accounts on the same computer.
- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect in all Altova XBRL-enabled applications installed on the same computer.
- If the current taxonomy has dependencies on other taxonomies, the dependent taxonomies are also installed (or uninstalled, as applicable).

Command line interface

To install a taxonomy, run:

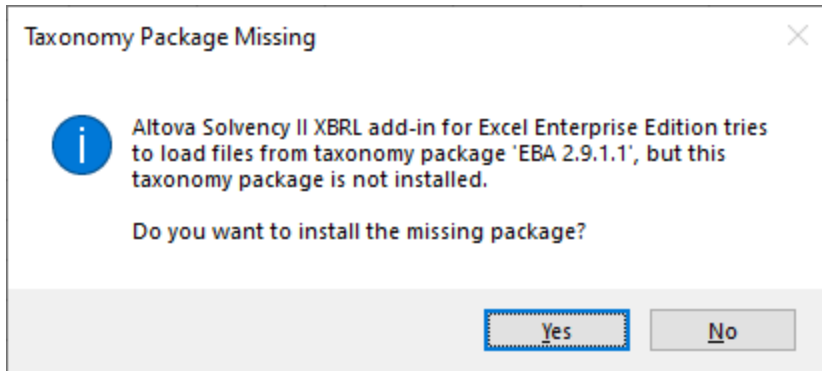
```
TaxonomyManager.exe install FILTER...
```

Where `FILTER` means one of the following:

1. A taxonomy identifier in the format `<name>-<version>`, for example: **eba-2.10**, **us-gaap-2020.0**. To view all the available taxonomy identifiers and versions, run the `list` command.
2. An **.altova_taxonomies** file downloaded from the Altova website.

Installing taxonomies on demand

Whenever XBRL taxonomies required by the add-in are missing from your computer, you may be prompted to install taxonomies on demand. For example, a dialog box such as the one below may appear when you run an action that requires loading XBRL taxonomies:




When you click **Yes**, the missing taxonomies will be installed and the local cache directory will be updated to keep track of this information. You can always view all of the previously installed taxonomies by clicking the **Manage Taxonomies** button in the **Solvency II** ribbon.



If you select **No**, the missing taxonomies will not be installed, but you will not be able to use the add-in in this case.

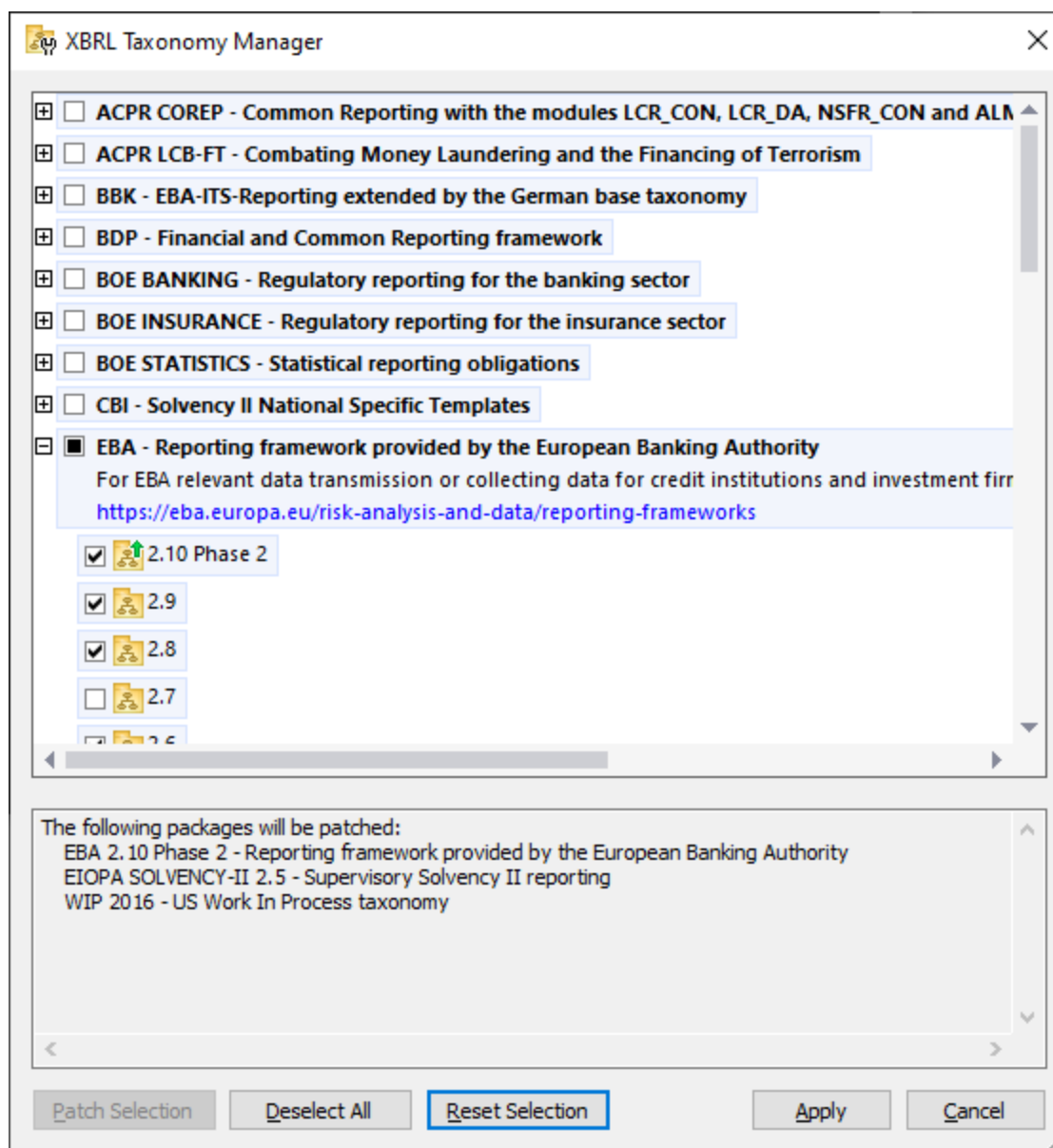
4.3 Apply Patches

Occasionally, XBRL taxonomies may receive patches from their issuers. When the XBRL Taxonomy Manager detects that patches are available, the following happens:

- If you use XBRL Taxonomy Manager through the Windows graphical user interface, the respective XBRL taxonomies are shown with the  icon.
- If you use the command line or a Linux/macOS system, any XBRL taxonomies that have patches are listed when you run the executable with the `list -u` command.

To apply a patch on Windows:

1. Click the **Patch Selection** button. The icon of each XBRL taxonomy that qualifies changes from  to , and the dialog box informs you about the patches that are to be applied, for example:



Note: The **Patch Selection** button is enabled only when there are patches available for any of the currently installed XBRL taxonomies.

2. Click **Apply**.

To apply a patch at the command line interface:

1. Run the `list -u` command. This lists any taxonomies where patch upgrades are available.
2. Run the `upgrade` command to install the patches.

For more information, see the reference to the [Command Line Interface](#) ⁴⁷.

4.4 View Installed Taxonomies

To view all installed taxonomies from a graphical user interface, [run](#)⁴⁰ XBRL Taxonomy Manager. A selected check box next to a taxonomy (or a taxonomy version) indicates that that taxonomy is installed.

Command line interface

To view all available taxonomies from a command line interface, run:

```
TaxonomyManager.exe list
```

To view only installed taxonomies, run:

```
TaxonomyManager.exe list -i
```

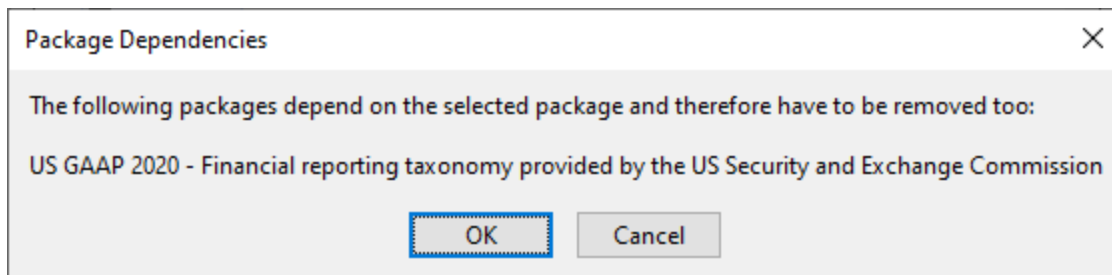
To view only taxonomies where a newer version is available, run:

```
TaxonomyManager.exe list -u
```

4.5 Uninstall a Taxonomy

To uninstall a taxonomy:

1. [Run](#) ⁴⁰ XBRL Taxonomy Manager.
2. Clear the check box next to the taxonomies or taxonomy versions you want to uninstall. If the selected taxonomy is dependent on other taxonomy packages, a dialog box opens, informing you that the dependencies will be removed as well, for example:



3. Click **Apply** to remove the taxonomy and its dependencies.

Note the following:

- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect for all users accounts on the same computer.
- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect in all Altova XBRL-enabled applications installed on the same computer.
- If the current taxonomy has dependencies on other taxonomies, the dependent taxonomies are also installed (or uninstalled, as applicable).

Command line interface

To uninstall a taxonomy, run:

```
TaxonomyManager.exe uninstall FILTER...
```

Where `FILTER` means one of the following:

1. A taxonomy identifier in the format `<name>-<version>`, for example: **eba-2.10**, **us-gaap-2020.0**. To view all the available taxonomy identifiers and versions, run the `list` command.
2. An **.altova_taxonomies** file downloaded from the Altova website.

4.6 Command Line Interface

To call XBRL Taxonomy Manager at the command line, you need to know the path of the executable. By default, the XBRL Taxonomy Manager executable is installed at the following path:

<i>Linux*</i>	/opt/Altova/<%APPNAME-UL%>2021/bin/taxonomymanager
<i>macOS*</i>	/usr/local/Altova/<%APPNAME-UL%>2021/bin/taxonomymanager
<i>Windows</i>	C:\ProgramData\Altova\SharedBetweenVersions\TaxonomyManager.exe

* The Linux and macOS paths are applicable only if you are running XBRL Taxonomy Manager on those operating systems in conjunction with Altova cross-platform server applications such as MapForce Server, StyleVision Server, or RaptorXML+XBRL Server.

By convention, this documentation omits the full path of the executable when describing a given command, and uses **<exec>** instead of the executable name, for example:

```
<exec> help
```

Where **<exec>** is the path or name of the executable.

Calling XBRL Taxonomy Manager from the installation directory

To call the executable without having to type the full path, change the current directory to the one below:

<i>Linux</i>	cd /opt/Altova/<%APPNAME-UL%>2021/bin
<i>macOS</i>	cd /usr/local/Altova/<%APPNAME-UL%>2021/bin
<i>Windows</i>	cd "C:\ProgramData\Altova\SharedBetweenVersions"

You can now run a command by calling the executable with a relative path, for example:

<i>Linux</i>	sudo ./taxonomymanager help
<i>macOS</i>	sudo ./taxonomymanager help
<i>Windows</i>	TaxonomyManager.exe help

Note: On Linux and macOS systems, the prefix `./` indicates that the executable is in the current directory. The prefix `sudo` indicates that the command must be run with root privileges.

Calling XBRL Taxonomy Manager from any directory

To call the executable from any directory, refer to it using the absolute path. Alternatively, if you want to call the program by typing just the executable name, you can edit the PATH environment variable of your operating

system so that it includes the full path to the executable's directory. For ways to change the PATH environment variable, refer to the documentation of your operating system.

Notes:

- After changing the PATH environment variable, you may need to close the terminal window and open a new one, in order for the changes to take effect.
- On Linux and macOS, using `sudo` does not take into account the user's PATH.

Command line syntax

The general syntax for using the command line is as follows:

```
<exec> -h | --help | --version | <command> [options] [arguments]
```

In the listing above, the vertical bar `|` separates a set of mutually exclusive items. The square brackets `[]` indicate optional items. Essentially, you can type the executable path followed by either `--h`, `--help`, or `--version` options, or by a command. Each command may have options and arguments. The list of commands is described in the following sections.

4.6.1 help

This command provides contextual help about commands pertaining to XBRL Taxonomy Manager executable.

Syntax

```
<exec> help [command]
```

Where `[command]` is an optional argument which specifies any valid command name.

Remarks

You can also invoke help by typing a command followed by `-h` or `--help`, for example:

```
<exec> list -h
```

You can also invoke general help by typing `-h` or `--help` directly after the executable, for example:

```
<exec> --help
```

Example

The following command displays help about the `list` command:

<i>Linux, macOS</i>	<code>./taxonomymanager help list</code>
<i>Windows</i>	<code>TaxonomyManager.exe help list</code>

4.6.2 initialize

This command initializes XBRL Taxonomy Manager environment. It creates a cache directory where information about all taxonomies is stored. Initialization is performed automatically the first time when you install an Altova application that includes supports for XBRL Taxonomy Manager, so you don't need to run this command under normal circumstances. You typically need to run this command after executing the `reset` command.

Syntax

```
<exec> initialize [options]
```

The alias of this command is `init`.

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--verbose, --v</code>	Display more information during execution. The default value is false .

4.6.3 install

This command installs one or more taxonomies. Note the following:

- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect for all users accounts on the same computer.
- Installing or uninstalling a taxonomy from XBRL Taxonomy Manager takes effect in all Altova XBRL-enabled applications installed on the same computer.
- If the current taxonomy has dependencies on other taxonomies, the dependent taxonomies are also installed (or uninstalled, as applicable).

Syntax

```
<exec> install [options] FILTER...
```

To specify multiple taxonomies to install, repeat `FILTER` as many times as necessary.

Arguments

<code>FILTER</code>	<p>Where <code>FILTER</code> means one of the following:</p> <ol style="list-style-type: none"> 1. A taxonomy identifier in the format <code><name>-<version></code>, for example: eba-2.10, us-gaap-2020.0. To view all the available taxonomy identifiers and versions, run the <code>list</code> command. 2. An .altova_taxonomies file downloaded from the Altova website.
---------------------	---

	You can also use abbreviated identifiers if they are unique, for example, eba . If you use an abbreviated identifier, this will install the latest available version of that taxonomy.
--	---

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--verbose, --v</code>	Display more information during execution. The default value is false .

Example

The following command installs the latest **eba** (European Banking Authority) and **us-gaap** (US Generally Accepted Accounting Principles) taxonomies:

<i>Linux, macOS</i>	<code>./taxonomymanager install eba us-gaap</code>
<i>Windows</i>	<code>TaxonomyManager.exe install eba us-gaap</code>

4.6.4 list

Use this command to list taxonomies at the command line, in one of the following ways:

- list all available taxonomies
- list specific taxonomies
- list only installed taxonomies
- list only taxonomies that require upgrade.

Syntax

<code><exec> list [options] [FILTER...]</code>
--

This command can be abbreviated with `ls`.

Arguments

<code>FILTER</code>	List only taxonomies that contain this string in their name. You can specify this argument multiple times.
---------------------	--

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--installed, --i</code>	List only installed taxonomies. The default value is false .

<code>--upgradeable, --u</code>	List only taxonomies where patch upgrades are available. The default value is false .
---------------------------------	--

Examples

To list all available taxonomies, run:

<i>Linux, macOS</i>	<code>./taxonomymanager list</code>
<i>Windows</i>	<code>TaxonomyManager.exe list</code>

To list only installed taxonomies, run:

<i>Linux, macOS</i>	<code>./taxonomymanager list -i</code>
<i>Windows</i>	<code>TaxonomyManager.exe list -i</code>

To list all taxonomies that contain either "eba" or "us-gaap" in their name, run:

<i>Linux, macOS</i>	<code>./taxonomymanager list eba us-gaap</code>
<i>Windows</i>	<code>TaxonomyManager.exe list eba us-gaap</code>

4.6.5 reset

This command removes all installed taxonomies and the cache directory.

Warning: This command deletes all installed taxonomies and their information.

After running this command, make sure to run the `initialize` command, in order to recreate the cache directory. Alternatively, run the `reset` command with the `-i` option.

Note that `reset -i` restores the original installation of the product, so it's recommended to run the `update` command as well, after performing a reset. Alternatively, run the `reset` command with the `-i` and `-u` options.

Syntax

```
<exec> reset [options]
```

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--init, --i</code>	Initialize the XBRL Taxonomy Manager environment after reset. Valid values are

	true and false . The default value is false .
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--update, --u</code>	Initialize and update the XBRL Taxonomy Manager environment after reset. Valid values are true and false . The default value is false .
<code>--verbose, --v</code>	Display additional information during execution. The default value is false .

Examples

To reset the XBRL Taxonomy Manager, run:

<i>Linux, macOS</i>	<code>./taxonomymanager reset</code>
<i>Windows</i>	<code>TaxonomyManager.exe reset</code>

4.6.6 setdeflang

This command sets the language of XBRL Taxonomy Manager.

Syntax

```
<exec> setdeflang language
```

Where `language` is a mandatory argument supplying the language code. The alias of this command is `sd1`.

Arguments

<code>language</code>	The language to be set. Valid values are English (<code>en</code>), French (<code>fr</code>), German (<code>de</code>), Japanese (<code>ja</code>), and Spanish (<code>es</code>).
-----------------------	--

Options

<code>--help, --h</code>	Display help about this command at the command line.
--------------------------	--

Examples

To set the language to Spanish, run:

<i>Linux, macOS</i>	<code>./taxonomymanager setdeflang es</code>
<i>Windows</i>	<code>TaxonomyManager.exe setdeflang es</code>

4.6.7 uninstall

This command uninstalls one or more taxonomies. By default, any taxonomies referenced by the current one are uninstalled as well. To uninstall just the current taxonomy and keep the referenced taxonomies, set the option `--k`.

Syntax

```
<exec> uninstall FILTER...
```

To specify multiple taxonomies, repeat `FILTER` as many times as necessary.

Arguments

FILTER	<p>Where <code>FILTER</code> means one of the following:</p> <ol style="list-style-type: none"> 1. A taxonomy identifier in the format <code><name>-<version></code>, for example: eba-2.10, us-gaap-2020.0. To view all the available taxonomy identifiers and versions, run the <code>list</code> command. 2. An .altova_taxonomies file downloaded from the Altova website.
--------	---

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--keep-references, --k</code>	If this option is set, then referenced taxonomies are not uninstalled. The default value is false .
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--verbose, --v</code>	Display additional information during execution. The default value is false .

Example

The following command uninstalls the **eba-2.10** and **us-gaap-2020.0** taxonomies and their dependencies:

<i>Linux, macOS</i>	<code>./taxonomymanager uninstall eba-2.10 us-gaap-2020.0</code>
<i>Windows</i>	<code>TaxonomyManager.exe uninstall eba-2.10 us-gaap-2020.0</code>

4.6.8 update

This command queries the list of taxonomies available from the online storage and updates the local cache directory. The update of this information takes place implicitly and you shouldn't need to run this command unless you have performed a `reset` and `initialize`.

Syntax

```
<exec> update [options]
```

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--verbose, --v</code>	Display additional information during execution. The default value is false .

Example

The following command updates the taxonomies information explicitly.

<i>Linux, macOS</i>	<code>./taxonomymanager update</code>
<i>Windows</i>	<code>TaxonomyManager.exe update</code>

4.6.9 upgrade

This command upgrades all eligible taxonomies to the latest available *patch* version. In other words, it performs only upgrades at patch level of a specific release. Running this command is meaningful only if there are upgradeable taxonomies available. You can identify upgradeable taxonomies by running the `list -u` command.

Syntax

```
<exec> upgrade [options]
```

Options

<code>--help, --h</code>	Display help about this command at the command line.
<code>--silent, --s</code>	Display only error messages. The default value is false .
<code>--verbose, --v</code>	Display additional information during execution. The default value is false .

5 Command Reference

The add-in commands available in the **Solvency II** tab of the Excel ribbon are listed below.

Insert New Report

Creates a new Solvency II filing report, see [Creating a New Report](#)¹¹. This command is disabled if the report sheet has already been inserted into the workbook.

Import from XBRL

Imports an XBRL instance file into the current Excel spreadsheet (see [Importing Data from XBRL](#)³¹). This command is disabled if a report has already been inserted into the workbook. To enable the command, save and close the current report (workbook), and create a new workbook.

Export to XBRL

Exports data from all currently active sheets to an XBRL instance file (see [Exporting Data to XBRL](#)³¹).

Validate

Performs a validation of report data against the underlying XBRL taxonomy and displays the validation results in a dialog box (see [Validating Data](#)²⁸).

Batch Conversion

Converts multiple XBRL instance files to Excel, see [Batch Conversion from XBRL to Excel](#)³⁴.

Toggle Solvency II Report Pane

Toggles the **Solvency II Report Pane** on or off. By default, this pane is visible.

Toggle Validation Report

Shows or hides the "Validation Report" window, see [Validating Data](#)²⁸.

Add Sheet (z-Axis)

Adds a new sheet which provides the ability to enter data in a third dimension. This button is enabled only if the table supports a third dimension according to XBRL taxonomy. For more information, see [Entering Data into Three-Dimensional Tables \(Z-Axis\)](#)²¹.

Remove Sheet (z-Axis)

Removes a previously added Z-axis sheet.

Add Row

Adds a new row to the currently selected table. This button is enabled only if the table supports growing vertically.

Delete Row

Deletes an existing row. This button is enabled only if the table supports growing vertically.

Add Column

Adds a new column to the currently selected table. This button is enabled only if the table supports growing horizontally.

Delete Column

Removes an existing column. This button is enabled only if the table supports growing horizontally.

Manage Taxonomies

This command opens the XBRL Taxonomy Manager tool, from where you can view, install, and uninstall XBRL taxonomies. See [Managing XBRL Taxonomies](#)³⁶.

Settings

Displays a dialog box where you can view or change the add-in [settings](#)⁵⁷.

Help

Opens this help file, in CHM (Microsoft Compiled HTML Help) format.

Add-In Activation

Displays the activation status of the add-in, or provides options to enter or purchase a license key code.

About Solvency II Add-In

Displays version information about the add-in.

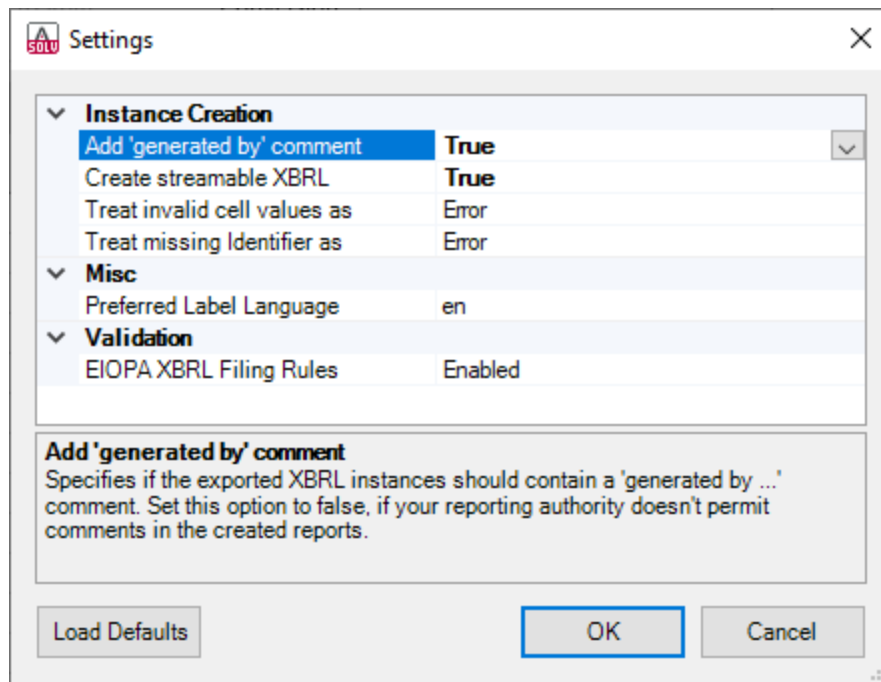
Altova on the Web

Provides links to the Altova website (including Online Support Center, XBRL Taxonomy Download Center, training and tutorials).

6 Settings

To view or change the add-in settings:

1. In the Excel ribbon, click the **Solvency II** tab.
2. Click **Settings**.



The settings you can configure are listed below.

Instance Creation

Add 'generated by' comment	Specifies if the exported XBRL instances should contain a "Generated by..." comment. Set this option to false if your reporting authority doesn't permit comments in the created reports. The default value is true .
Create streamable XBRL	Specifies if the exported XBRL instances should be streamable and contain the xbml-streamable-instance processing instruction. Set this option to false if your reporting authority doesn't permit processing instructions in the created reports. The default value is true .
Treat invalid cell values as	Specifies whether invalid cell values should be treated as validation errors or warnings. The default value is "Error".
Treat missing Identifier as	After you create a new report, the Solvency II Report Pane contains a property called Identifier which is by default empty. This option specifies whether an empty Identifier property should trigger a validation error or a warning. The

	default value is "Error".
--	---------------------------

Misc

Preferred Label Language	Specifies the preferred language to be used in the headers of created worksheets. Note that the respective label resources must be defined in the taxonomy for this setting to take effect. The default value is "en".
---------------------------------	--

Validation

EIOPA XBRL Filing Rules	Specifies if the additional EIOPA XBRL filing rules (as specified by the "EIOPA XBRL Filing Rules" document) should be checked. The default value is "Enabled".
--------------------------------	---

7 COM API

The add-in provides a COM API that can be used from programming languages that support interacting with Excel and accessing COM objects programmatically, such as VBA or .NET languages. Specifically, the API provides the means to create, import and export XBRL reports, and also to read and write form data.

Platform requirements:

- .NET Framework 4 or later
- Visual Studio Tools for Office runtime, version 4.0 or later

If you intend to distribute the API to other clients, note the following:

1. Excel and **Altova Solvency II XBRL add-in for Excel** must be installed on each client machine.
2. Each API client that consumes your custom code or application must hold a valid **Altova Solvency II XBRL add-in for Excel** license.

7.1 Accessing the API

You can access programmatically the add-in's COM API in one of the following ways:

- from within Excel, by using Visual Basic for Applications (see also <https://docs.microsoft.com/en-us/office/vba/library-reference/concepts/getting-started-with-vba-in-office>)
- from your custom program, by using the Office Interop API from any .NET language.

The main interface is the `IAutomationAPI` interface. The following code listing illustrates how to create a new instance of the automation object in VBA.

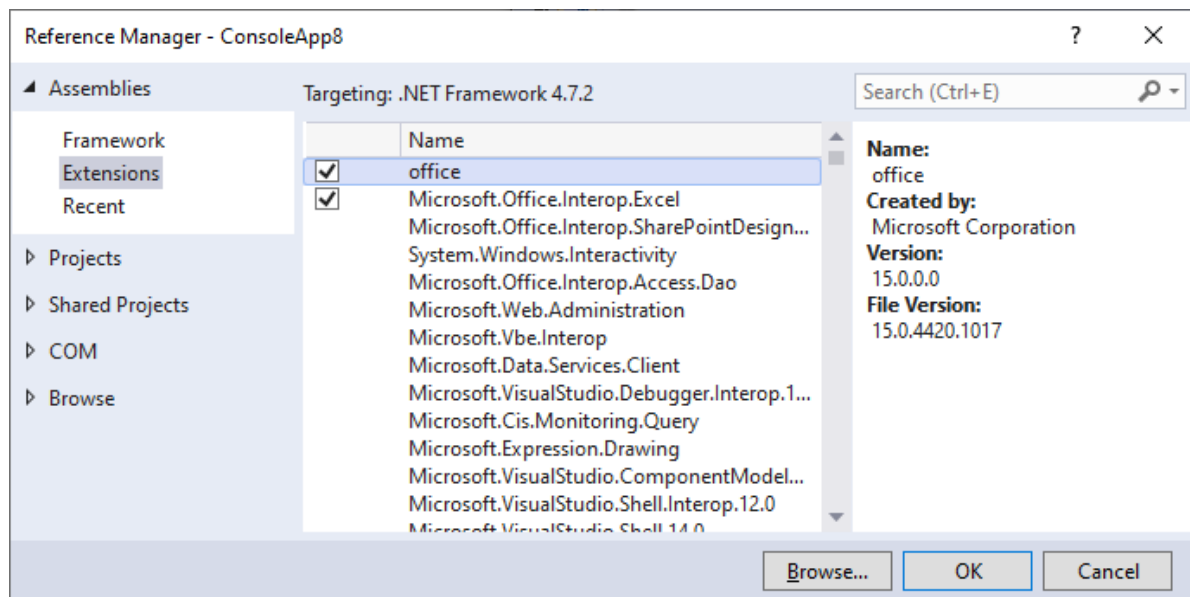
VBA

```
Dim automationObject As Object
Set automationObject = Application.COMAddIns.Item("Altova.SolvencyIIAddIn").Object
```

Accessing the COM API from a .NET project

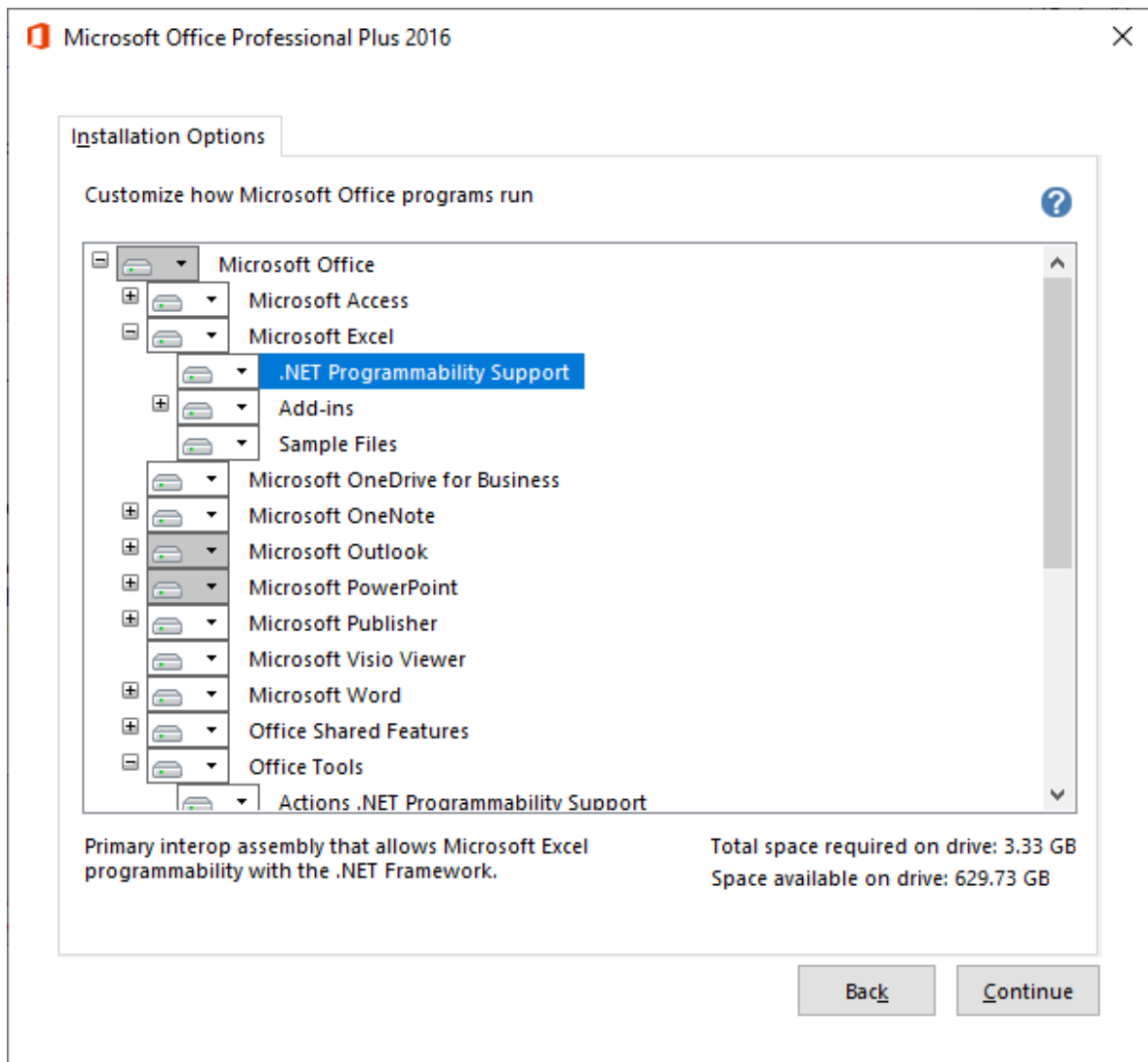
To access the COM API from a Visual Studio .NET project, add a reference to the **Microsoft Office Object Library (office.dll)** and **Microsoft.Office.Interop.Excel** assemblies:

1. In **Solution Explorer**, right-click your project's name and then click **Add Reference**. The **Add Reference** dialog box appears.
2. On the **Assemblies** page, select **office** and **Microsoft.Office.Interop.Excel** from the component list, and click **OK**.



If you do not see the assemblies above:

1. Make sure that you have installed Microsoft Office and that you have selected the **.NET Programmability Support** feature for Excel, for example:



2. Run the Visual Studio setup and make sure that you choose **Office/SharePoint development** workload (or the **Microsoft Office Developer Tools**, if applicable).

For more information about accessing Office interop assemblies from .NET projects, see <https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/interop/how-to-access-office-interop-objects>.

After adding the assembly references, you can create a new add-in instance as shown below.

C#

```
// Make sure that your project references the following two assemblies:
// * Microsoft.Office.Interop.Excel
// * Microsoft Office Object Library (office.dll)
var app = new Microsoft.Office.Interop.Excel.Application();
dynamic automationObject = app.COMAddIns.Item("Altova.SolvencyIIAddIn").Object;
```

7.2 C# Example

Each of the C# code listings illustrated below represents the **Program.cs** file in a standard .NET Framework console application.

Before attempting to run the program code, make sure that you have added the required assembly references to the Visual Studio project, as described in [Accessing the API](#)⁶⁰.

Export XBRL from Excel

The following code listing illustrates how to create a new Excel workbook using a specific XBRL entry point, populate a few properties and data cells, and then save data to an XBRL file on the disk. The code will attempt to save both the Excel workbook and the XBRL file to the **C:\XBRL_Examples** directory.

```
using System;
using Excel = Microsoft.Office.Interop.Excel;

namespace SolvencyAddInClient
{
    class Program
    {
        static void Main(string[] args)
        {
            var app = new Excel.Application();

            try
            {
                // Suppress Excel alerts and create a new workbook
                Console.WriteLine("Creating a new workbook...");
                app.DisplayAlerts = false;
                var wb = (Excel._Workbook)(app.Workbooks.Add());

                // Get the Automation API object
                Console.WriteLine("Getting the COM automation object...");
                dynamic addIn = app.COMAddIns.Item("Altova.SolvencyIIAddIn");
                dynamic automationObject = addIn.Object;

                // Create a new report using taxonomy entry point
                Console.WriteLine("Creating the new report...");
                automationObject.InsertNewReport("http://eiopa.europa.eu/eu/xbrl/s2md/fws
/solvency/solvency2/2020-07-15/mod/tep.xsd");

                // Set the report properties
                Console.WriteLine("Setting the report properties...");
                var rp = automationObject.GetReportProperties(wb);
                rp.ReportingEntityScheme = "http://standards.iso.org/iso/17442";
                rp.ReportingEntityIdentifier = "123456";

                // Get the table by its code and ensure it is included in this report
                var tab = automationObject.GetTableTree(wb);
                var tableNode = tab.FindTableByRCCode("S.01.01.10.01");
            }
        }
    }
}
```

```

        tableNode.IncludeInFiling = true;

        // Populate cells
        Console.WriteLine("Populating cells...");
        tableNode.Forms.Item(0).DataRange.Item(1).Value = "1 - Reported";
        tableNode.Forms.Item(0).DataRange.Item(2).Value = "2 - Not reported as no
life and health SLT business";
        tableNode.Forms.Item(0).DataRange.Item(3).Value = "1 - Reported";
        tableNode.Forms.Item(0).DataRange.Item(4).Value = "1 - Reported";

        // Export data to XBRL
        Console.WriteLine("Exporting the XBRL instance...");
        automationObject.ExportXBRL(wb, @"C:\XBRL_Examples\Example.xbrl");

        // Save and close the .xlsx workbook
        Console.WriteLine("Saving the .xlsx file...");
        wb.SaveAs(@"C:\XBRL_Examples\Example.xlsx");
        wb.Close();

        Console.WriteLine("Task completed.");
    }
    catch (Exception e)
    {
        Console.WriteLine(e.Message);
    }
    finally
    {
        app.DisplayAlerts = true;
        app.Quit();
    }
}
}
}

```

Import XBRL to Excel

The following code listing illustrates how to convert an XBRL file to an Excel file. To run this example successfully, an XBRL instance file must exist at **C:\XBRL_Examples\Example.xbrl**; otherwise, change the path accordingly. You can create an XBRL file either by running the previous code listing, or manually from Excel, by using the **Export** command, see [Exporting Data to XBRL](#) ³¹.

```

using System;
using Excel = Microsoft.Office.Interop.Excel;

namespace SolvencyAddInClient
{
    class Program
    {
        static void Main(string[] args)
        {
            var app = new Excel.Application();
            try
            {

```

```
// Suppress Excel alerts and create a new workbook
Console.WriteLine("Creating a new workbook...");
app.DisplayAlerts = false;
var wb = (Excel._Workbook)(app.Workbooks.Add());

// Get the Automation API object
Console.WriteLine("Getting the COM automation object...");
dynamic addIn = app.COMAddIns.Item("Altova.SolvencyIIAddIn");
dynamic automationObject = addIn.Object;

// Import EBA report eba_example.xbrl
Console.WriteLine("Importing XBRL...");
automationObject.ImportXBRL(@"C:\XBRL_Examples\Example.xbrl");

// Save as xlsx
Console.WriteLine("Saving the .xlsx file...");
wb.SaveAs(@"C:\XBRL_Examples\Example.xlsx");
wb.Close();

Console.WriteLine("Task complete.");
}
catch (Exception e)
{
    Console.WriteLine(e.Message);
}
finally
{
    app.DisplayAlerts = true;
    app.Quit();
}
}
}
```


7.3 VBA Example

The following code listing illustrates how to insert an XBRL report into an Excel file and populate the first cell, using VBA.

```
' VBA Example 1:
' Creates a new Solvency II Quaterly Solo Report with form 'S.01.02.01.01' and sets the
value of the first cell
Sub Example1()
    Dim addIn As COMAddIn
    Dim automationObject As Object
    Dim Workbook As Object
    Dim tableTree As Object
    Dim tableNode As Object

    ' Get the Automation API object
    Set addIn = Application.COMAddIns.Item("Altova.SolvencyIIAddIn")
    Set automationObject = addIn.Object

    ' Insert a new Solvency II Quaterly Solo Report
    Set Workbook =
automationObject.InsertNewReport("http://eiopa.europa.eu/eu/xbrl/s2md/fws/solvency/solven
cy2/2019-07-15/mod/qrs.xsd")

    Set tableTree = automationObject.GetTableTree(Workbook)

    ' Find table tree node for form 'S.01.02.01.01'
    Set tableNode = tableTree.FindTableByRCCode("S.01.02.01.01")

    ' Include this table in the filing (this will also create the respective Excel
worksheet)
    tableNode.IncludeInFiling = True

    ' Get the Data range of this form and set the value of the first cell to "test"
    tableNode.Forms.Item(0).DataRange.Item(1).Value = "test"
End Sub
```

7.4 API Reference

This section provides reference to the objects of the **Altova Solvency II XBRL add-in for Excel** COM API. The objects are described in a generic manner, since the API may be used with virtually any language that supports calling a COM object.

7.4.1 Interfaces

7.4.1.1 IAutomationAPI

The `IAutomationAPI` interface is the main automation interface of the **Altova Solvency II XBRL add-in for Excel**. This interface is the starting point to do any further operations with the add-in or to retrieve or create other related automation objects. It allows you to create, import and export reports, and also to read and write form data. For information about creating an instance of this interface, see [Accessing the API](#)⁶⁰.

Methods

Name	Description
InsertNewReport ⁶⁷	Use this method to insert a new report of the respective taxonomy entry point.
ImportXBRL ⁶⁷	Imports an XBRL report. Returns the Excel workbook that contains the imported XBRL report.
ExportXBRL ⁶⁷	Exports the report from the respective Excel workbook to XBRL, and also validates it. To get the validation results, call <code>GetValidationReport</code> after calling this method.
Validate ⁶⁸	Validates the current report. To get the validation results, call <code>GetValidationReport</code> after calling this method.
GetValidationReport ⁶⁸	Returns an <code>IVValidationReport</code> object representing the validation report currently shown in the validation report pane.
GetEntryPointTree ⁶⁹	Returns an <code>IEntryPointTree</code> object representing a tree of the available taxonomy entry points.
GetTableTree ⁶⁹	Returns an <code>ITableTree</code> object representing the tree of the available tables in the report opened in the specified Excel workbook.
GetReportProperties ⁶⁹	Returns an <code>IReportProperties</code> object providing the properties of the XBRL report.
GetFormProperties ⁷⁰	Returns an <code>IFormProperties</code> object providing the properties of the XBRL form in the specified Excel worksheet.

Name	Description
GetCellProperties ⁷⁰	Returns an <code>ICellProperties</code> object providing the properties of the fact in the specified Excel range.

7.4.1.1.1 Methods

7.4.1.1.1.1 *InsertNewReport*

Use this method to insert a new report of the respective taxonomy entry point.

Signature

```
InsertNewReport(in entryPointUrl:String) -> Microsoft.Office.Interop.Excel.Workbook
```

Parameters

Name	Type	Description
entryPointUrl	<code>String</code>	The URI of the taxonomy a report should be created for. Use the <code>GetEntryPointTree</code> method to get the available entry points.

7.4.1.1.1.2 *ImportXBRL*

Imports an XBRL report. Returns the Excel workbook that contains the imported XBRL report.

Signature

```
ImportXBRL(in inputFile:String) -> Microsoft.Office.Interop.Excel.Workbook
```

Parameters

Name	Type	Description
inputFile	<code>String</code>	The path to the XBRL report which should be imported.

7.4.1.1.1.3 *ExportXBRL*

Exports the report from the respective Excel workbook to XBRL, and also validates it. To get the validation results, call `GetValidationReport` after calling this method.

Signature

```
ExportXBRL(in workbook:Microsoft.Office.Interop.Excel.Workbook, in outputFile:String) ->
Void
```

Parameters

Name	Type	Description
workbook	Microsoft.Office.Interop.Excel.Workbook	The Excel workbook to be exported.
outputFile	String	The path to the output XBRL file.

7.4.1.1.1.4 Validate

Validates the current report. To get the validation results, call `GetValidationReport` after calling this method.

Signature

```
Validate(in workbook:Microsoft.Office.Interop.Excel.Workbook) -> Void
```

Parameters

Name	Type	Description
workbook	Microsoft.Office.Interop.Excel.Workbook	The Excel workbook to be validated.

7.4.1.1.1.5 GetValidationReport

Returns an `IValidationReport` object representing the validation report currently shown in the validation report pane.

Signature

```
GetValidationReport(in workbook:Microsoft.Office.Interop.Excel.Workbook) ->
IValidationReport
```

Parameters

Name	Type	Description
workbook	Microsoft.Office.Interop.Excel	The Excel workbook from which to

Name	Type	Description
	e1.Workbook	get the validation report.

7.4.1.1.1.6 *GetEntryPointTree*

Returns an `IEntryPointTree` object representing a tree of the available taxonomy entry points.

Signature

```
GetEntryPointTree() -> IEntryPointTree
```

7.4.1.1.1.7 *GetTableTree*

Returns an `ITableTree` object representing the tree of the available tables in the report opened in the specified Excel workbook.

Signature

```
GetTableTree(in workbook:Microsoft.Office.Interop.Excel.Workbook) -> ITableTree
```

Parameters

Name	Type	Description
workbook	Microsoft.Office.Interop.Excel.Workbook	The Excel workbook containing the XBRL report.

7.4.1.1.1.8 *GetReportProperties*

Returns an `IReportProperties` object providing the properties of the XBRL report.

Signature

```
GetReportProperties(in workbook:Microsoft.Office.Interop.Excel.Workbook) -> IReportProperties
```

Parameters

Name	Type	Description
workbook	Microsoft.Office.Interop.Excel.Workbook	The workbook containing the XBRL report.

7.4.1.1.1.9 *GetFormProperties*

Returns an `IFormProperties` object providing the properties of the XBRL form in the specified Excel worksheet.

Signature

```
GetFormProperties(in worksheet:Microsoft.Office.Interop.Excel.Worksheet) ->
IFormProperties
```

Parameters

Name	Type	Description
worksheet	<code>Microsoft.Office.Interop.Excel.Worksheet</code>	An Excel worksheet containing an XBRL form.

7.4.1.1.1.10 *GetCellProperties*

Returns an `ICellProperties` object providing the properties of the fact in the specified Excel range.

Signature

```
GetCellProperties(in cell:Microsoft.Office.Interop.Excel.Range) -> ICellProperties
```

Parameters

Name	Type	Description
cell	<code>Microsoft.Office.Interop.Excel.Range</code>	An Excel cell containing an XBRL fact (must be within the data range of a form).

7.4.1.2 `IEntryPointTree`

The `IEntryPointTree` interface provides information about the available taxonomy entry points in a structured way.

Properties

Name	Description
Groups ⁷¹	Read-only.

Name	Description
	Returns a collection of <code>IEntryPointGroup</code> representing the available taxonomy groups, for example, "EIOPA Solvency II 2.4" or "Bank of England Insurance Taxonomy 1.1".

7.4.1.2.1 Properties

7.4.1.2.1.1 Groups

Returns a collection of `IEntryPointGroup` representing the available taxonomy groups, for example, "EIOPA Solvency II 2.4" or "Bank of England Insurance Taxonomy 1.1".

Signature

Groups : [Collection](#)

7.4.1.3 IEntryPointGroup

The `IEntryPointGroup` interface provides information about a group of taxonomy entry points.

Properties

Name	Description
Name ⁷²	Read-only. The Name of the group. For example, "EIOPA Solvency II 2.4".
Country ⁷²	Read-only. The country code for which this entry point group is relevant. This is set only for country-specific taxonomies such as "Bank of England Insurance Taxonomy".
Version ⁷²	Read-only. The version of the taxonomy. May be empty for sub-groups.
IsCurrentVersion ⁷²	Read-only. True if this group contains the current version of the taxonomy, false for older versions.
Groups ⁷²	Read-only. A collection of <code>IEntryPointGroup</code> representing the sub-groups of this entry point group.
EntryPoints ⁷³	Read-only. A collection of <code>IEntryPoint</code> representing the specific taxonomy entry points of this group.

7.4.1.3.1 Properties

7.4.1.3.1.1 Name

The Name of the group. For example, "EIOPA Solvency II 2.4".

Signature

Name : **String**

7.4.1.3.1.2 Country

The country code for which this entry point group is relevant. This is set only for country-specific taxonomies such as "Bank of England Insurance Taxonomy".

Signature

Country : **String**

7.4.1.3.1.3 Version

The version of the taxonomy. May be empty for sub-groups.

Signature

Version : **String**

7.4.1.3.1.4 IsCurrentVersion

True if this group contains the current version of the taxonomy, **false** for older versions.

Signature

IsCurrentVersion : **Boolean**

7.4.1.3.1.5 Groups

A collection of `IEntryPointGroup` representing the sub-groups of this entry point group.

Signature

Groups : [Collection](#)

7.4.1.3.1.6 EntryPoints

A collection of `IEntryPoint` representing the specific taxonomy entry points of this group.

Signature

EntryPoints : [Collection](#)

7.4.1.4 IEntryPoint

The `IEntryPoint` interface provides information about a specific taxonomy entry point.

Properties

Name	Description
Name ⁷⁴	Read-only. The name of the entry point. For example, "Quarterly Solvency II reporting Solo"
ShortName ⁷⁴	Read-only. The abbreviated form of the entry points name. For example, "QRS".
Version ⁷⁴	Read-only. The version of the entry point. This may be empty (use the parents group version in this case).
URI ⁷⁴	Read-only. The URI of the taxonomy entry point, for example, "http://eiopa.europa.eu/eu/xbrl/s2md/fws/solvency/solvency2/2019-07-15/mod/qrs.xsd". Pass this to the <code>IAutomationAPI.InsertNewReport</code> method.
Needs64Bit ⁷⁵	Read-only. True if the entry point requires the 64-bit version of Excel, false otherwise.

7.4.1.4.1 Properties

7.4.1.4.1.1 Name

The name of the entry point. For example, "Quarterly Solvency II reporting Solo"

Signature

```
Name : String
```

7.4.1.4.1.2 ShortName

The abbreviated form of the entry points name. For example, "QRS".

Signature

```
ShortName : String
```

7.4.1.4.1.3 Version

The version of the entry point. This may be empty (use the parents group version in this case).

Signature

```
Version : String
```

7.4.1.4.1.4 URI

The URI of the taxonomy entry point, for example, "http://eiopa.europa.eu/eu/xbrl/s2md/fws/solvency/solvency2/2019-07-15/mod/qrs.xsd". Pass this to the `IAutomationAPI.InsertNewReport` method.

Signature

```
URI : String
```

7.4.1.4.1.5 Needs64Bit

True if the entry point requires the 64-bit version of Excel, false otherwise.

Signature

Needs64Bit : **Boolean**

7.4.1.5 ITableTree

The `ITableTree` interface provides structured information about the available tables and forms in an XBRL report.

Properties

Name	Description
Nodes ⁷⁵	Read-only. Returns a collection of <code>IGroupNode</code> and <code>ITableNode</code> objects, which represent groups of tables and tables, respectively.

Methods

Name	Description
FindTableByRCCode ⁷⁶	Returns the table node with the specified RC Code.

7.4.1.5.1 Properties

7.4.1.5.1.1 Nodes

Returns a collection of `IGroupNode` and `ITableNode` objects, which represent groups of tables and tables, respectively.

Signature

Nodes : **Collection**

7.4.1.5.2 Methods

7.4.1.5.2.1 FindTableByRCCode

Returns the table node with the specified RC Code.

Signature

```
FindTableByRCCode(in rcCode:string) -> ITableNode
```

Parameters

Name	Type	Description
rcCode	string	The RC Code of the desired table node.

7.4.1.6 IGroupNode

The IGroupNode interface provides information about a group of tables.

Properties

Name	Description
Text ^{TT}	Read-only. The name of the group of tables as displayed in the Solvency II Report Pane.
IsGroup ^{TT}	Read-only. This is always true for group nodes. Use this to distinguish between IGroupNode and ITableNode members of the Nodes collection.
IsTable ^{TT}	Read-only. This is always false for group nodes. Use this to distinguish between IGroupNode and ITableNode members of the Nodes collection.
Nodes ^{TT}	Read-only. Returns a collection of IGroupNode and ITableNode objects, which represent groups of tables and tables, respectively.

7.4.1.6.1 Properties

7.4.1.6.1.1 Text

The name of the group of tables as displayed in the Solvency II Report Pane.

Signature

```
Text : String
```

7.4.1.6.1.2 IsGroup

This is always **true** for group nodes. Use this to distinguish between `IGroupNode` and `ITableNode` members of the `Nodes` collection.

Signature

```
IsGroup : Boolean
```

7.4.1.6.1.3 IsTable

This is always **false** for group nodes. Use this to distinguish between `IGroupNode` and `ITableNode` members of the `Nodes` collection.

Signature

```
IsTable : Boolean
```

7.4.1.6.1.4 Nodes

Returns a collection of `IGroupNode` and `ITableNode` objects, which represent groups of tables and tables, respectively.

Signature

```
Nodes : Collection
```

7.4.1.7 ITableNode

The `ITableNode` interface provides information about a table.

Properties

Name	Description
Text ⁷⁹	Read-only. The name of the table as displayed in the Solvency II Report Pane.
IsGroup ⁷⁹	Read-only. This is always false for table nodes. Use this to distinguish between <code>IGroupNode</code> and <code>ITableNode</code> members of the <code>Nodes</code> collection.
IsTable ⁷⁹	Read-only. This is always true for table nodes. Use this to distinguish between <code>IGroupNode</code> and <code>ITableNode</code> members of the <code>Nodes</code> collection.
Forms ⁷⁹	Read-only. Returns a collection of <code>IForm</code> objects, which represent concrete forms that can be displayed as Excel worksheet.
CanAddSubForm ⁷⁹	Read-only. This is true if additional sub forms can be added to the table, for example, if the table has open aspects on the z-Axis. In most cases, this is a form for each country or currency.
FilingIndicator ⁸⁰	Read-only. The filing indicator code of the table.
RCCode ⁸⁰	Read-only. The RC code of the table.
IncludeInFiling ⁸⁰	True if the table should be part of the report, false otherwise. If you set this property to true for the first time, a new worksheet for this table will be created.

Methods

Name	Description
AddSubForm ⁸⁰	Creates a new sub-form of this table and returns the respective <code>IForm</code> object. This method returns null if no sub-form can be added.

7.4.1.7.1 Properties

7.4.1.7.1.1 Text

The name of the table as displayed in the Solvency II Report Pane.

Signature

```
Text : String
```

7.4.1.7.1.2 IsGroup

This is always **false** for table nodes. Use this to distinguish between `IGroupNode` and `ITableNode` members of the `Nodes` collection.

Signature

```
IsGroup : Boolean
```

7.4.1.7.1.3 IsTable

This is always **true** for table nodes. Use this to distinguish between `IGroupNode` and `ITableNode` members of the `Nodes` collection.

Signature

```
IsTable : Boolean
```

7.4.1.7.1.4 Forms

Returns a collection of `IForm` objects, which represent concrete forms that can be displayed as Excel worksheet.

Signature

```
Forms : Collection
```

7.4.1.7.1.5 CanAddSubForm

This is **true** if additional sub forms can be added to the table, for example, if the table has open aspects on the z-Axis. In most cases, this is a form for each country or currency.

Signature

```
CanAddSubForm : Boolean
```

7.4.1.7.1.6 *FilingIndicator*

The filing indicator code of the table.

Signature

```
FilingIndicator : String
```

7.4.1.7.1.7 *RCCode*

The RC code of the table.

Signature

```
RCCode : String
```

7.4.1.7.1.8 *IncludeInFiling*

True if the table should be part of the report, **false** otherwise. If you set this property to **true** for the first time, a new worksheet for this table will be created.

Signature

```
IncludeInFiling : Boolean
```

7.4.1.7.2 Methods

7.4.1.7.2.1 *AddSubForm*

Creates a new sub-form of this table and returns the respective `IForm` object. This method returns null if no sub-form can be added.

Signature

```
AddSubForm() -> IForm
```


7.4.1.8 IForm

The `IForm` interface provides information about a form.

Properties

Name	Description
Text ⁸¹	Read-only. The name of the form as displayed in the Solvency II Report Pane.
DataRange ⁸²	Read-only. The Excel range containing the data of this form.
FormSelectorRange ⁸²	Read-only. The Excel range containing the form selector of this form. Namely, the cells that contain the data that distinguishes this form from the other forms of the same table. This returns null if the table may not consist of multiple forms.
Worksheet ⁸²	Read-only. The Excel worksheet containing this form. This may be null if <code>IncludeInFiling</code> is false.
IncludeInFiling ⁸²	True if this form should be part of the report, false otherwise. This shows/hides the respective Excel worksheet.

Methods

Name	Description
Remove ⁸³	Removes this form and deletes the respective Excel worksheet.

7.4.1.8.1 Properties

7.4.1.8.1.1 Text

The name of the form as displayed in the Solvency II Report Pane.

Signature

Text : `String`

7.4.1.8.1.2 *DataRange*

The Excel range containing the data of this form.

Signature

```
DataRange : Microsoft.Office.Interop.Excel.Range
```

7.4.1.8.1.3 *FormSelectorRange*

The Excel range containing the form selector of this form. Namely, the cells that contain the data that distinguishes this form from the other forms of the same table. This returns null if the table may not consist of multiple forms.

Signature

```
FormSelectorRange : Microsoft.Office.Interop.Excel.Range
```

7.4.1.8.1.4 *Worksheet*

The Excel worksheet containing this form. This may be null if `IncludeInFiling` is false.

Signature

```
Worksheet : Microsoft.Office.Interop.Excel.Worksheet
```

7.4.1.8.1.5 *IncludeInFiling*

True if this form should be part of the report, **false** otherwise. This shows/hides the respective Excel worksheet.

Signature

```
IncludeInFiling : Boolean
```

7.4.1.8.2 Methods

7.4.1.8.2.1 Remove

Removes this form and deletes the respective Excel worksheet.

Signature

```
Remove() -> Void
```

7.4.1.9 IReportProperties

The `IReportProperties` interface provides properties of the whole XBRL report.

Properties

Name	Description
EntryPointURI ⁸⁴	Read-only. The URI of the taxonomy entry point. For example, "Quarterly Solvency II reporting Solo".
EntryPointModuleName ⁸⁴	Read-only. The module name of the taxonomy entry point. For example, "http://eiopa.europa.eu/eu/xbrl/s2md/fws/solvency/solvency2/2019-07-15/mod/qrs.xsd".
EntryPointModuleDPMID ⁸⁴	Read-only. The Data Point Model Database ID of the module. For example, "218".
ReportingEntityScheme ⁸⁴	The scheme of the reporting entity. For example, "http://standards.iso.org/iso/17442".
ReportingEntityIdentifier ⁸⁵	The identifier of the reporting entity.
ReferenceDate ⁸⁵	The reference date of the report.
MonetaryCellsAccuracy ⁸⁵	The accuracy of monetary facts in this report. Applies to each monetary fact for which no separate accuracy was specified (at cell or table level).
PercentageCellsAccuracy ⁸⁵	The accuracy of percentage facts in this report. Applies to each percentage fact for which no separate accuracy was specified (at cell or table level).
PureCellsAccuracy ⁸⁶	The accuracy of pure facts in this report. Applies to each pure fact for which no separate accuracy was specified (at cell or

Name	Description
	table level).
ReportingCurrency ⁸⁶	The reporting currency used in the XBRL report as an ISO 4217 currency code.
ReportingLanguage ⁸⁶	The language of footnotes in the XBRL report as BCP-47 language tag. For example, "en-US".

7.4.1.9.1 Properties

7.4.1.9.1.1 *EntryPointURI*

The URI of the taxonomy entry point. For example, "Quarterly Solvency II reporting Solo".

Signature

```
EntryPointURI : String
```

7.4.1.9.1.2 *EntryPointModuleName*

The module name of the taxonomy entry point. For example, "http://eiopa.europa.eu/eu/xbrl/s2md/fws/solvency/solvency2/2019-07-15/mod/qrs.xsd".

Signature

```
EntryPointModuleName : String
```

7.4.1.9.1.3 *EntryPointModuleDPMID*

The Data Point Model Database ID of the module. For example, "218".

Signature

```
EntryPointModuleDPMID : String
```

7.4.1.9.1.4 *ReportingEntityScheme*

The scheme of the reporting entity. For example, "http://standards.iso.org/iso/17442".

Signature

```
ReportingEntityScheme : String
```

7.4.1.9.1.5 *ReportingEntityIdentifier*

The identifier of the reporting entity.

Signature

```
ReportingEntityIdentifier : String
```

7.4.1.9.1.6 *ReferenceDate*

The reference date of the report.

Signature

```
ReferenceDate : DateTime
```

7.4.1.9.1.7 *MonetaryCellsAccuracy*

The accuracy of monetary facts in this report. Applies to each monetary fact for which no separate accuracy was specified (at cell or table level).

Signature

```
MonetaryCellsAccuracy : String
```

7.4.1.9.1.8 *PercentageCellsAccuracy*

The accuracy of percentage facts in this report. Applies to each percentage fact for which no separate accuracy was specified (at cell or table level).

Signature

```
PercentageCellsAccuracy : String
```

7.4.1.9.1.9 *PureCellsAccuracy*

The accuracy of pure facts in this report. Applies to each pure fact for which no separate accuracy was specified (at cell or table level).

Signature

```
PureCellsAccuracy : String
```

7.4.1.9.1.10 *ReportingCurrency*

The reporting currency used in the XBRL report as an ISO 4217 currency code.

Signature

```
ReportingCurrency : String
```

7.4.1.9.1.11 *ReportingLanguage*

The language of footnotes in the XBRL report as BCP-47 language tag. For example, "en-US".

Signature

```
ReportingLanguage : String
```

7.4.1.10 IFormProperties

The `IFormProperties` interface provides properties of one form of the report.

Properties

Name	Description
MonetaryCellsAccuracy ⁸⁷	The accuracy of monetary facts in this form. Applies to each monetary fact for which no separate accuracy was specified.
PercentageCellsAccuracy ⁸⁷	The accuracy of percentage facts in this form. Applies to each percentage fact for which no separate accuracy was specified.
PureCellsAccuracy ⁸⁸	The accuracy of pure facts in this form. Applies to each pure fact for which no separate accuracy was specified.
TableRCCCode ⁸⁸	Read-only. The RC Code of the table. For example, "S.01.01.02.01".

Name	Description
FilingIndicatorCode ⁸⁸	Read-only. The filing indicator code of the table. For example, "S.01.01".
Label ⁸⁸	Read-only. The label of the table. For example, "Content of the submission".
VerboseLabel ⁸⁸	Read-only. The verbose label of the table. For example, "S.01.01.02.01 Content of the submission".
TableID ⁸⁹	Read-only. The id of the table resource. For example, "s2md_tS.01.01.02.01".
TableDPMID ⁸⁹	Read-only. The Data Point Model Database ID of the table. For example, "429.1431".
ValidationRules ⁸⁹	Read-only. The collection of validation rules that apply to this table.

7.4.1.10.1 Properties

7.4.1.10.1.1 *MonetaryCellsAccuracy*

The accuracy of monetary facts in this form. Applies to each monetary fact for which no separate accuracy was specified.

Signature

```
MonetaryCellsAccuracy : String
```

7.4.1.10.1.2 *PercentageCellsAccuracy*

The accuracy of percentage facts in this form. Applies to each percentage fact for which no separate accuracy was specified.

Signature

```
PercentageCellsAccuracy : String
```

7.4.1.10.1.3 *PureCellsAccuracy*

The accuracy of pure facts in this form. Applies to each pure fact for which no separate accuracy was specified.

Signature

```
PureCellsAccuracy : String
```

7.4.1.10.1.4 *TableRCCode*

The RC Code of the table. For example, "S.01.01.02.01".

Signature

```
TableRCCode : String
```

7.4.1.10.1.5 *FilingIndicatorCode*

The filing indicator code of the table. For example, "S.01.01".

Signature

```
FilingIndicatorCode : String
```

7.4.1.10.1.6 *Label*

The label of the table. For example, "Content of the submission".

Signature

```
Label : String
```

7.4.1.10.1.7 *VerboseLabel*

The verbose label of the table. For example, "S.01.01.02.01 Content of the submission".

Signature

```
VerboseLabel : String
```


7.4.1.10.1.8 *TableID*

The id of the table resource. For example, "s2md_tS.01.01.02.01".

Signature

```
TableID : String
```

7.4.1.10.1.9 *TableDPMID*

The Data Point Model Database ID of the table. For example, "429.1431".

Signature

```
TableDPMID : String
```

7.4.1.10.1.10 *ValidationRules*

The collection of validation rules that apply to this table.

Signature

```
ValidationRules : Collection
```

7.4.1.11 *ICellProperties*

The *ICellProperties* interface provides properties of one fact of the report.

Properties

Name	Description
Accuracy ⁹⁰	The accuracy of the numeric item as string. This may be "INF" or a number representing the number of decimal places to which this fact is accurate. This is null for non-numeric items.
Footnote ⁹⁰	The footnote of the fact.
Name ⁹⁰	Read-only. The concept name of the fact. For example, "eba_met:mi256".

Name	Description
Type ⁹¹	Read-only. The type of the fact. For example, "xbrli:monetaryItemType".
Label ⁹¹	Read-only. The label of the fact. For example, "Cash value".
DPMID ⁹¹	Read-only. The Data Point Model Database ID of this fact. For example, "6062".
Dimensions ⁹¹	Read-only. The collection of <code>IDimension</code> objects representing the dimensions for which this fact is reported.

7.4.1.11.1 Properties

7.4.1.11.1.1 Accuracy

The accuracy of the numeric item as string. This may be "INF" or a number representing the number of decimal places to which this fact is accurate.

This is null for non-numeric items.

Signature

Accuracy : **String**

7.4.1.11.1.2 Footnote

The footnote of the fact.

Signature

Footnote : **String**

7.4.1.11.1.3 Name

The concept name of the fact. For example, "eba_met:mi256".

Signature

```
Name : String
```

7.4.1.11.1.4 *Type*

The type of the fact. For example, "xbri:monetaryItemType".

Signature

```
Type : String
```

7.4.1.11.1.5 *Label*

The label of the fact. For example, "Cash value".

Signature

```
Label : String
```

7.4.1.11.1.6 *DPMID*

The Data Point Model Database ID of this fact. For example, "6062".

Signature

```
DPMID : String
```

7.4.1.11.1.7 *Dimensions*

The collection of `IDimension` objects representing the dimensions for which this fact is reported.

Signature

```
Dimensions : Collection
```

7.4.1.12 IDimension

The `IDimension` interface provides basic information of a `Dimension` and its value.

Properties

Name	Description
Name ⁹²	Read-only. The name of the dimension.
Value ⁹²	Read-only. The value of the dimension as <code>String</code> .

7.4.1.12.1 Properties

7.4.1.12.1.1 Name

The name of the dimension.

Signature

```
Name : String
```

7.4.1.12.1.2 Value

The value of the dimension as `String`.

Signature

```
Value : String
```

7.4.1.13 IValidationReport

The `IValidationReport` interface provides access to the validation report.

Properties

Name	Description
Messages ⁹³	Read-only. Returns a collection of <code>IValidationReportMessage</code> representing the main lines of the validation report.

Methods

Name	Description
CreateTextReport ⁹³	Returns a textual representation of the validation report.
CreateHTMLReport ⁹⁴	Returns an HTML representation of the validation report.

7.4.1.13.1 Properties

7.4.1.13.1.1 Messages

Returns a collection of `IValidationReportMessage` representing the main lines of the validation report.

Signature

```
Messages : Collection
```

7.4.1.13.2 Methods

7.4.1.13.2.1 CreateTextReport

Returns a textual representation of the validation report.

Signature

```
CreateTextReport() -> String
```

7.4.1.13.2.2 *CreateHTMLReport*

Returns an HTML representation of the validation report.

Signature

```
CreateHTMLReport() -> String
```

7.4.1.14 IValidationReportMessage

The `IValidationReportMessage` interface represents a main line in the validation report.

Properties

Name	Description
Severity ⁹⁴	Read-only. Returns the severity of this report message as <code>String</code> . Possible values are: "success", "info", "warning" and "error".
Text ⁹⁴	Read-only. Returns the value of this report message.
Details ⁹⁵	Read-only. Returns the details of this report message (if any) as <code>String</code> .

7.4.1.14.1 Properties

7.4.1.14.1.1 *Severity*

Returns the severity of this report message as `String`. Possible values are: "success", "info", "warning" and "error".

Signature

```
Severity : String
```

7.4.1.14.1.2 *Text*

Returns the value of this report message.

Signature

Text : `String`

7.4.1.14.1.3 *Details*

Returns the details of this report message (if any) as `String`.

Signature

Details : `String`

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- software activation and license metering
- the license agreement governing the use of this product

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When the application starts up, as part of the license metering process, the software sends a short broadcast datagram to find any other instance of the product running on another computer in the same network segment. If it doesn't get any response, it will open a port for listening to other instances of the application.

Multi-user license

If more than one instance of the application is used within the same LAN, these instances will briefly communicate with each other on startup. These instances exchange key-codes in order to help you to better determine that the number of concurrent licenses purchased is not accidentally violated. This is the same kind of license metering technology that is common in the Unix world and with a number of database development tools. It allows Altova customers to purchase reasonably-priced concurrent-use multi-user licenses.

We have also designed the applications so that they send few and small network packets so as to not put a burden on your network. The TCP/IP ports (2799) used by your Altova product are officially registered with the IANA (see the [IANA Service Name Registry](#) for details) and our license-metering module is tested and proven technology.

If you are using a firewall, you may notice communications on port 2799 between the computers that are running Altova products. You are, of course, free to block such traffic between different groups in your organization, as long as you can ensure by other means, that your license agreement is not violated.

Note about certificates

Your Altova application contacts the Altova licensing server (link.altova.com) via HTTPS. For this communication, Altova uses a registered SSL certificate. If this certificate is replaced (for example, by your IT department or an external agency), then your Altova application will warn you about the connection being insecure. You could use the replacement certificate to start your Altova application, but you would be doing this at your own risk. If you see a *Non-secure connection* warning message, check the origin of the certificate and consult your IT team (who would be able to decide whether the interception and replacement of the Altova certificate should continue or not).

If your organization needs to use its own certificate (for example, to monitor communication to and from client machines), then we recommend that you install Altova's free license management software, [Altova LicenseServer](#), on your network. Under this setup, client machines can continue to use your organization's certificates, while Altova LicenseServer can be allowed to use the Altova certificate for communication with Altova.

8.3 Altova XBRL Add-in Software License Agreement

- The Altova XBRL Add-in Software License Agreement is available here: <https://www.altova.com/legal/xbrl-add-in-eula>
- Altova's Privacy Policy is available here: <https://www.altova.com/privacy>

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