SXV

User's guide

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About SXV

This chapter outlines the features and functionality of the SXV application, which allow you to view XBRL taxonomies and XBRL documents. This chapter contains the following sections:
- System Requirements
- Features
- XBRL Taxonomy and XBRL Document (Instance) Overview
- Functions

System Requirements

The following system capabilities are required to operate SXV:
- Microsoft Windows XP/7/8/10
- Microsoft .NET Framework 4.0
- Microsoft XML Parser (MSXML) 3.0 or later

Note: It is necessary to have Microsoft Office Excel (2007, 2010 or 2013) installed on your computer in order to export to and review data in Excel.

Features

SXV is a companion application to SXT that permits viewing of XBRL taxonomies and XBRL documents.

SXV makes it possible to access XBRL taxonomies and XBRL documents (also referred to as "XBRL instance documents") for easy viewing from your Windows desktop. SXV's features and functions allow you to:
- Open any XBRL 2.1 compliant taxonomy (including company extension taxonomies) or documents
- Filter documents according to View Types, Label, Roles or Languages
- Review taxonomy element information such as definitions, authoritative references and calculation hierarchies
- Perform a basic search on both taxonomies and instances
- Print taxonomies or documents

XBRL Taxonomy and XBRL Document Overview

SXV provides quick and easy viewing access to XBRL taxonomies and XBRL documents. An XBRL taxonomy is a collection of business reporting terms for a given reporting focus (i.e. financial reporting, earnings releases, tax reporting information, etc.) or industry (i.e. commercial and industrial, insurance, banking, etc.) that allows you to "mark up" or map your financial data to specific, agreed-upon reporting concepts. Two "types" of XBRL taxonomies are commonly referred to when working with XBRL taxonomies: "standard base" and "company extension" taxonomies.

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From an XBRL 2.1 Specification standpoint, all XBRL taxonomies are created the same way. The use of the terms "standard base" and "company extension" when referring to XBRL taxonomies simply helps users better understand the difference between how these taxonomies are created and used by the market.

Standard base taxonomies are typically provided by authoritative or regulatory bodies or the local jurisdiction of XBRL International. Examples of standard base taxonomies are US GAAP Financial Reporting Taxonomy and IFRS (International Financial Reporting Standards) [1]. Company extension taxonomies are created by companies or industry groups that "extend" a standard base taxonomy by adding additional information specific to a given company's or industry's type of reporting needs. A company extension taxonomy imports all of the information of a standard base taxonomy and allows additions or changes to the information contained in the standard base taxonomy without altering the integrity of the standard base taxonomy itself.
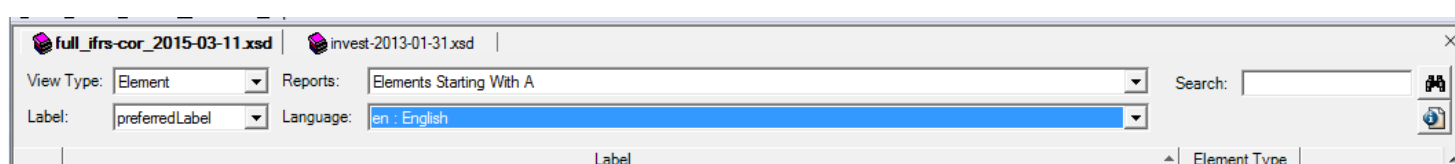
SXV provides full support for both standard base and company extension taxonomies. Information contained within these taxonomies is presented by default based upon the presentation aspect of the given taxonomy (referred to as information contained in the presentation linkbase or presentation hierarchy) with additional options based upon the calculation (referred to as information contained in the calculation linkbase or calculation hierarchy) or element (flat alphabetic list) aspect also available.

An XBRL document, on the other hand, is a collection of report data or "facts" created by a company that represents all or part of a business report. An XBRL document is, in its simplest form, the XBRL representation of existing business report information put in a globally- agreed upon technology easily understood by computers.

The XBRL document contains information such as entity information (the company that the XBRL information came from), time periods, business segments, currency codes and amounts. It also contains the XBRL taxonomy elements (from standard base and/or extension taxonomies) that the company has identified as being specifically related to its financial information. The power of an XBRL document is that it communicates business report information in a common "language" while not forcing a company to change its reporting format or supply additional information (beyond what it already supplies today.

Although the XBRL document and XBRL taxonomy(s) are different physical files, SXV quickly and easily combines the content of the XBRL document with the related XBRL taxonomies to provide a single, report-like view of the information that is formatted like an accountant or financial professional would expect -like that of a structured financial statement/report.
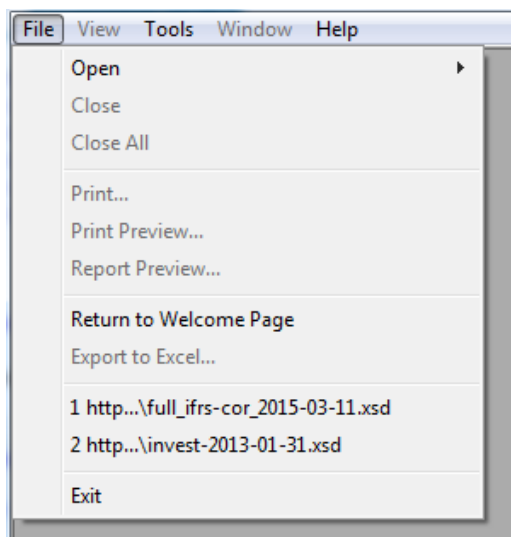
SXV Functions

SXV's functions are accessible from the menu bar which contains the following options:

- File menu
- View menu
- Tools menu
- Window menu
- Help menu
- Display Options tool bar
- Review panes

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[1] You can read more about taxonomies here: http://xbrl.org.ru/xbrltaxonomies

File menu

This menu enables you to open and close documents, as well as export information to Microsoft Excel. The menu displays the following:

- Open (taxonomy or document)
- Close
- Close All
- Print
- Print Preview
- Return to Welcome Page
- Export to Excel
- Recently Used Files list
- Exit

Open

The Open menu item allows you to open an XBRL taxonomy or document for viewing.
XBRL files loaded locally, or available via the Internet, can be opened and displayed within SXV.

Close/Close All

The Close menu item closes the active window, or all windows.

Print/Print Preview

The Print functions allow you to print preview and print the information currently being displayed.

Return to Welcome Screen

The Welcome Screen provides quick, easily accessible options for opening, viewing or reviewing XBRL taxonomy or document data. It is normally available upon launching SXV, but you can re-display it at any time from the File menu.

Export to Excel

SXV's export capability lets you send the displayed XBRL taxonomy or document information to Microsoft Excel for additional viewing/analysis.

Recently Used Files

A list of recently used files appears at the bottom of the File menu.

Exit

Closes the SXV application

View menu

The View menu enables you to choose different display options for XBRL documents. These include:

- Grid Lines
- Text Size
- Definition/References review pane
- Context/Element review pane
- Calculation Hierarchy review pane
- Reported Data Only
- Merge Similar Date-base Columns
- Full Taxonomy
- Expand All
- Collapse All

Grid Lines and Text Size

These functions enable you to turn data grid lines on or off when you view XBRL taxonomies or documents, as well as establish the text size to be used for viewing information.

Review Panes

SXV provides review panes that allow you to displays supplementary information about the XBRL taxonomy or document being displayed. Each review pane can be turned on and off to address specific viewing needs. The review panes provide the following information:

- Definition/Authoritative References
- Calculation Hierarchy
- Element View

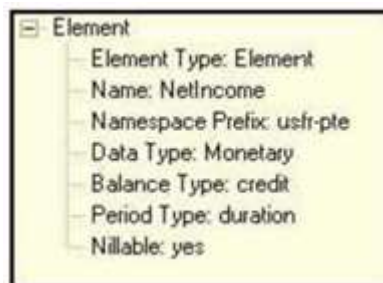## Definition/Authoritative References

The Definition/Authoritative References review pane contains the following:

- Definition: a dictionary-style definition of an element contained in the XBRL taxonomy.
- Authoritative References: specific references to authoritative literature that provides specific substantiation for an element.
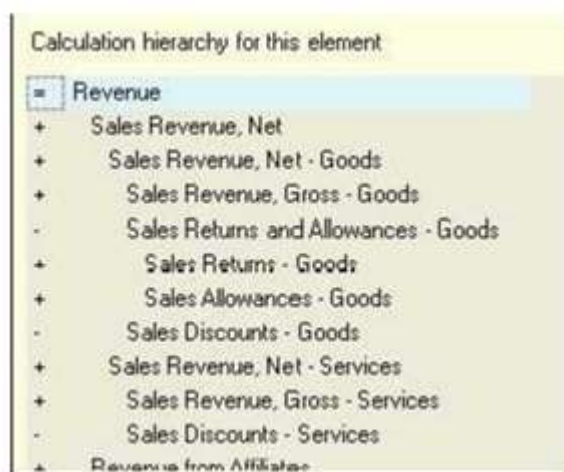

Element View

Available only when viewing an XBRL document, Element View enables you to review the metadata associated with an element.

Calculation Hierarchy

The Calculation Hierarchy review pane displays the factors, if any used in rolling up the total amount calculated for a data element.

Reported Data Only

When viewing an XBRL document, only the XBRL elements that contain data will be displayed from the given taxonomy to create a more report-like display.

Full Taxonomy

This option permits you to view an XBRL document in relation to all elements available within the one or more taxonomies that was used to create it.
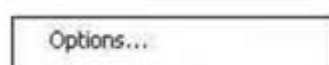
Merge Similar Date-Based Columns

When viewing an XBRL document, information for the same reporting period that has been identified to different XBRL "contexts" as required by XBRL 2.1 will be combined to create a more report-like display.

Expand All/Collapse All

Provides the ability to quickly expand or collapse information being shown in the primary display area.
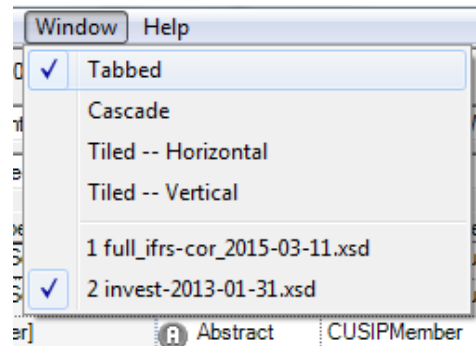
Tools menu

The Tools menu enables you to set default system values. This menu has one feature available only:

- Options: this feature provides the ability to set defaults used by SXV when working with and displaying XBRL information.
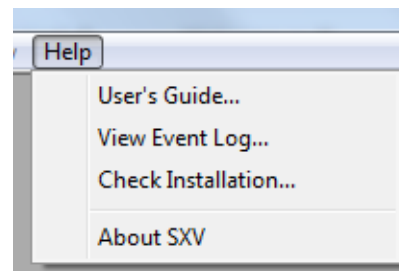
Window menu

This menu enables you to manipulate the on-screen display of your documents. It contains the following choices:

- Tabbed
- Cascade
- Tiled --Horizontal
- Tiled -- Vertical

Help menu

The Help menu provides access to a number of support resources for using SXV, including the following choices:

- User's Guide
- View Event Log
- Check Installation
- About SXV

Display Options Toolbar

After you open an XBRL taxonomy or document, SXV provides a tool bar that enables you to control the display of the following items:

- View Type
- Label
- Report
- Language
- Missing Info
- Column Filters
- Show Segment
- Search
- Entity Display
- Document Info

View Type

SXV makes it possible to view XBRL taxonomies or documents in Presentation, Calculation, and Element forms.

Label

Select to display XBRL taxonomies and documents by any available label roles (preferred, total, terse, etc.) that have been defined in the given taxonomies.

Reports

Select the particular report within the taxonomy or instance document to view the specific report in the window below.

Language

Select one more of the available languages as defined in the taxonomies when viewing taxonomies or XBRL documents.

Missing Info

XBRL document information that cannot be located in a taxonomy or is not referenced in the presentation or calculation hierarchy is stored for easy review.

Column Filters

The Column Filter window provides the option to display or not display the following various XBRL document attributes when viewing an XBRL document:

- Entity/Segment
- Calendar
- Scenario
- Unit

Show Segments

This option provides easy access to segment-specific information contained within an XBRL document.

Search

This function allows you locate specific information contained within the XBRL taxonomy or document being displayed.

Entity Document Information

Display area for the entity information for an XBRL document that contains only a single entity (multiple entity-based XBRL documents display the entity information as part of the column headers)

Document Information

This display option enables you to open a window that contains information about the XBRL taxonomy or document that you have loaded:

- Information For Taxonomies
  - Target namespace
  - Web location
  - Local location
  - Created by SXT?
  - Number of elements
  - Presentation linkbase defined?
  - Calculation linkbase defined?
  - Validation status (valid, warning, error)
- Information For XBRL Documents
  - Number of entities
  - Number of contexts
  - Number of segments
  - Number of scenarios
  - Number of units
  - Number of elements
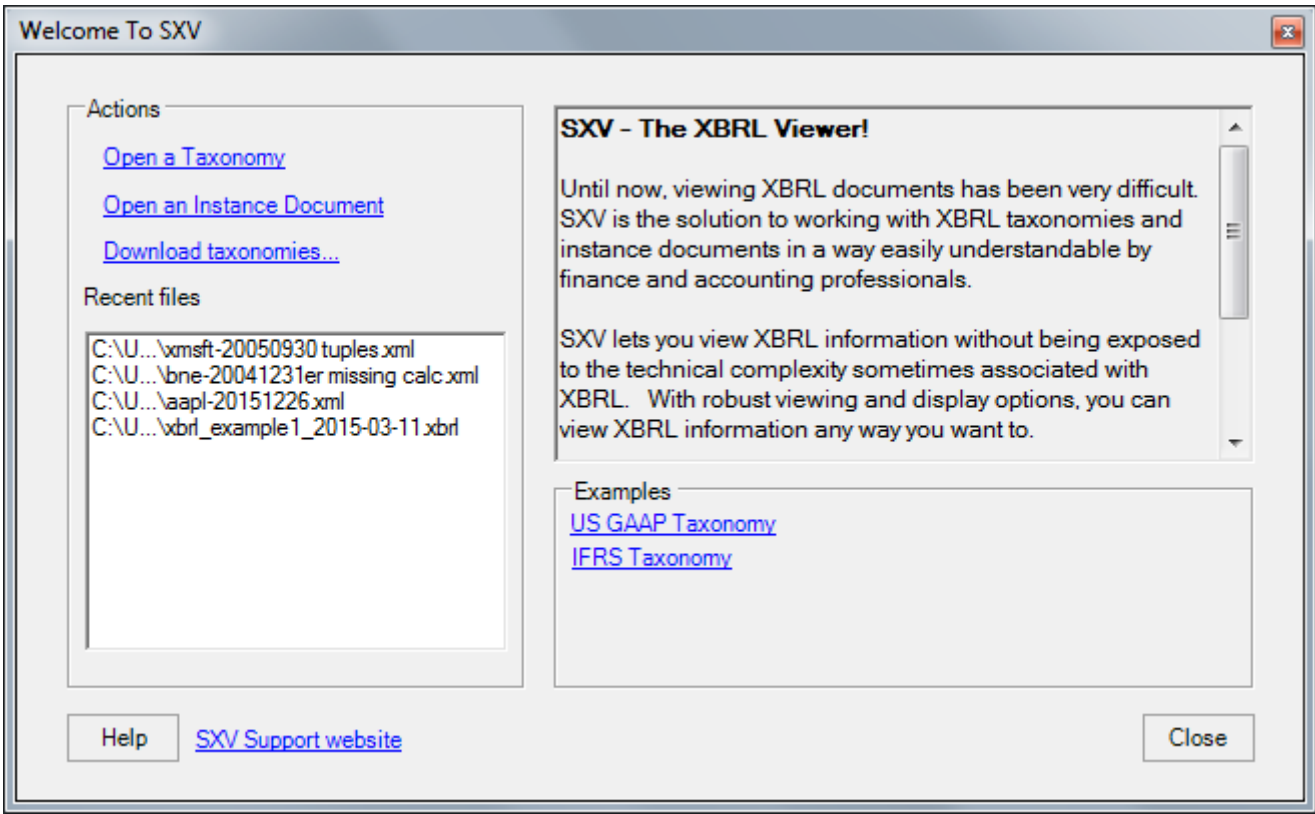 - Footnotes included
  - Tuples included

Using SXV

This chapter shows you how to begin using SXV, including any configuration or preparation. It contains the following topics:

- Getting started
- Working with taxonomies
- Setting general view options
- Setting taxonomy options
- Working with XBRL documents
- Working with the Event Log
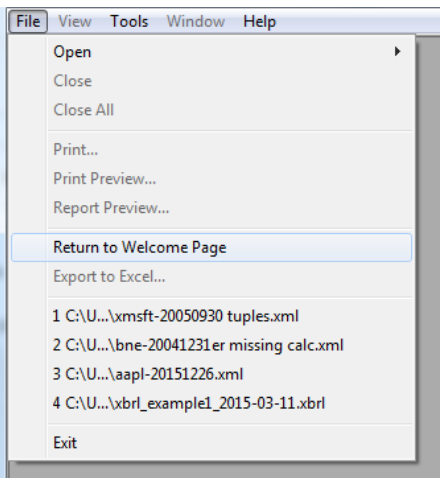
Getting Started

When you launch SXV, you first see an opening Welcome Page from which you can access SXV's more common tasks such as opening taxonomy files, accessing instance documents, and viewing recently used files.

Accessing the Welcome Page from SXV

After closing the Welcome page, you can return to the Welcome page to access the list of commonly used functions
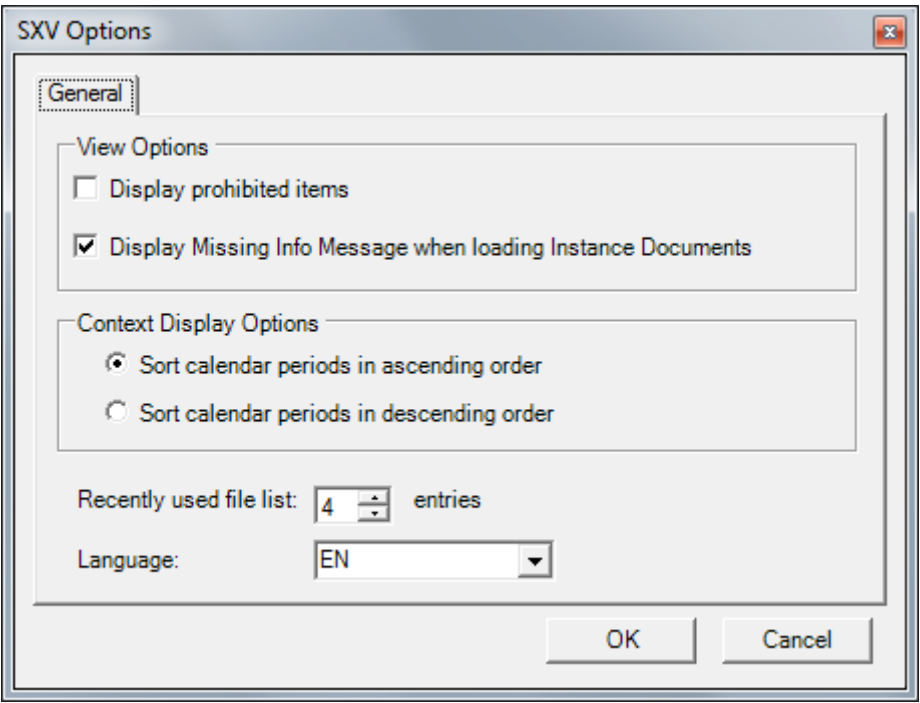1. Select File--Return to Welcome Page from within SXV.

Set SXV Options

This procedure shows you how to control the types of information that display in each XBRL instance document or extension taxonomy.

1. From the Tools menu, click Options...to display the Options dialog box

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2. Clear or fill the checkbox in the following options:

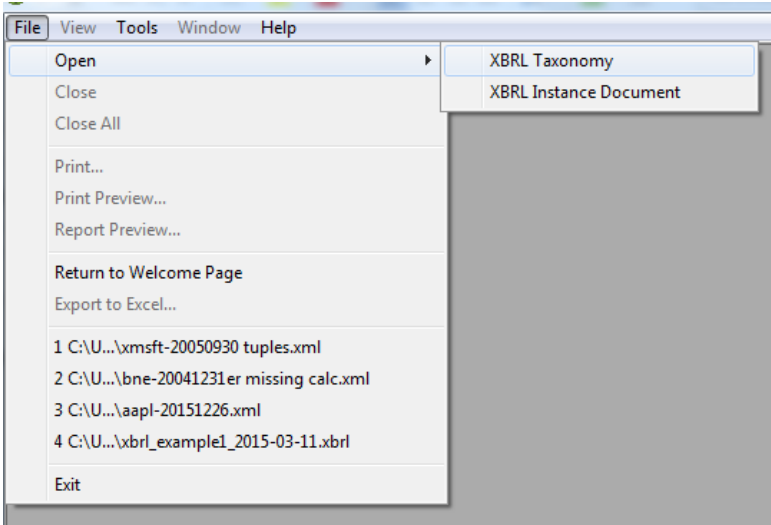| Item	Function
Display prohibited items	Shows or hides prohibited items in the XBRL document or taxonomy.
Display Missing Info Message when loading Instance documents	Toggles on or off the ability to display the Missing Info

3. Clear or fill the radio buttons to display calendar periods in a specific order:

Item	Functions
Sort calendar periods in ascending order	Arranges calendar periods by the most recent, down to the oldest.
Sort calendar periods in descending order	Arranges calendar periods by the oldest to the most recent.

4. Enter a number in the Recently Used File list field to control the number of recently used filed you want to display in the File menu.

Working with Taxonomies and Instance documents

This section covers the use of taxonomies, including opening and closing files, and producing output from your displayed items.

It includes the following procedures:
- Open a taxonomy
- Print a taxonomy
- Close a taxonomy
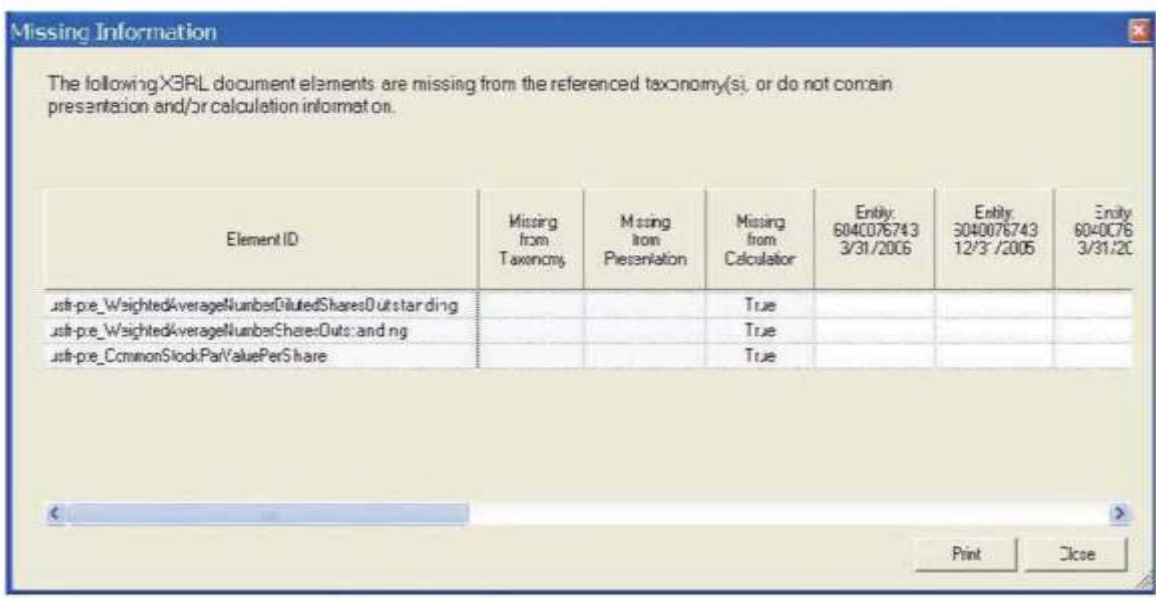
Open a Taxonomy or XBRL Instance Document

With the Open function on the File menu, you can navigate to and open an XBRL instance document or taxonomy. The Open function enables you to navigate to and open the following file types:

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Document Type	File Extension
Taxonomy	.XSD
XBRL Instance Document	.XML or XBRL

1. From the File menu, select Open.
2. Select one of the following to display a Navigation window:
- Open XBRL Taxonomy
- Open an XBRL instance Document
3. You might have to navigate to the folder where your file is located.

When you locate the file, click Open.

Working with Missing Information

If you open an XBRL document that is missing XBRL element(s), or does not contain presentation and/or calculation information, SXV displays the following warning screen:

Column	Description
Element ID	Lists the XBRL label of the missing element
Missing from Taxonomy	Lists whether the element is missing from the taxonomy. Blank: not missing True: missing in the XBRL document
Missing from Presentation	Lists whether the element is missing from the Presentation linkbase. Blank: not missing True: missing from the Presentation linkbase.
Missing from Calculation	Lists whether the element is missing from the Calculation linkbase. Blank: not missing True: missing from the Calculation linkbase.
Entity/date/units column	Lists the amount, if any, associated with the element. The amount displays in the default numeric unit, such as EUR or USD.

Printing a Taxonomy

This procedure enables you to print a hard copy of the XBRL document of taxonomy.

Before You Begin

Depending on the way you have configured SXV's display options, the font and grid size will be different. In addition, the selected font size might not display correctly, and require that you re-size the grids to display the data correctly.

Print an XBRL Document or Taxonomy

1. From the File menu, select Print Preview to display a simulation of how the printed report will appear.

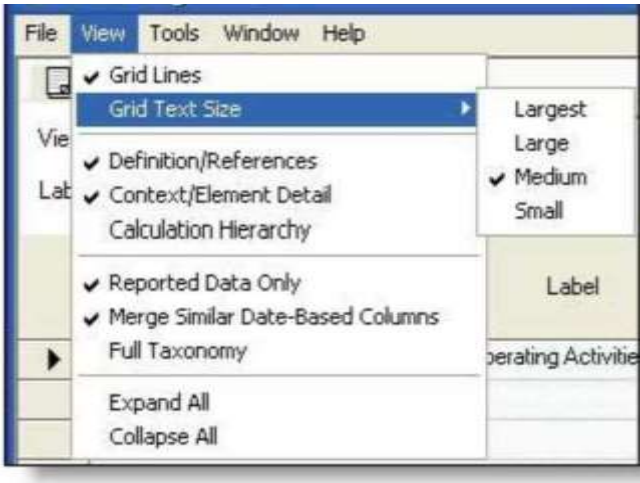2. If the report is correctly formatted, click Print.

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3. Choose the printer to which you want to send the output.

Close a Taxonomy

1. From the File menu, click Close.
2. Select one of the following to close one document, or all documents:
- Close (closes the currently active file and the Detail Pane)
- Close All (closes all currently open files and the Detail Pane).

Set General View Options

This procedure guides you in setting SXV's document display settings. Some of the View options control the display of both taxonomy and XBRL document information, while others control only die display of taxonomies.

NOTE: The selected View options apply to all open documents. You cannot selectively use View options on individual documents.
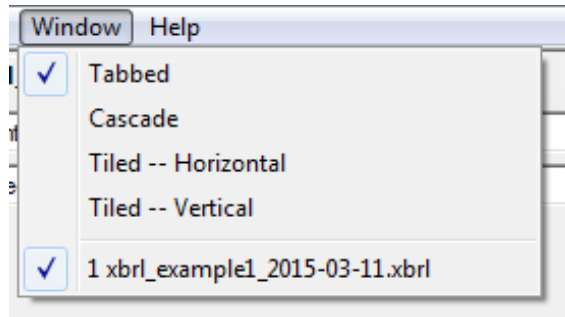
1. In the View menu, clear or add the check marks in the following options and for the following document types:

Selection	Document Type	Description
Grid Line	XBRL Documents and Taxonomies	Shows or hides the grid lines on the displayed XBRL documents and taxonomies.
Grid Text Size	XBRL Documents and Taxonomies	Configures the size of both the grid and the size of the displayed text. You can use this to enlarge the text size of the data SXV displays. This function also configures the size of the printed characters using SXV's print capabilities. For more information, see "Printing a Taxonomy." Note: If you change the grid and character size, you might have to resize the cells in which the information is displayed to see the complete information.
Context/Element Detail	Taxonomies only	Shows or hides the Context pane in Element Detail.
Definitions/References	XBRL Documents and Taxonomies	Shows or hides the Definition and Authoritative References in the Detail Pane.
Calculation Hierarchy	XBRL Documents and Taxonomies	Shows or hides the Calculation Hierarchy window in the Detail Pane.
Reported Data Only	Taxonomies only	Filters the taxonomy to display only the data items containing a reported amount.
Merge Similar Date-Based Columns	XBRL Documents	Shows or hides combined data for a given time period.
Full Taxonomy	Taxonomies only	Shows or hides the full taxonomy.
Expand All	XBRL Documents and Taxonomies	Opens every node in the document.
Collapse All	XBRL Documents and Taxonomies	Closes every node in the document.

Set Window Options

This task shows you how to arrange multiple open documents in SXV. You can arrange the documents in tiled format, tabbed, or cascaded.

You set your Window Options as follows:

1. From the SXV menu bar, click Window.
2. Choose from the following to arrange your open documents in the SXV workspace:

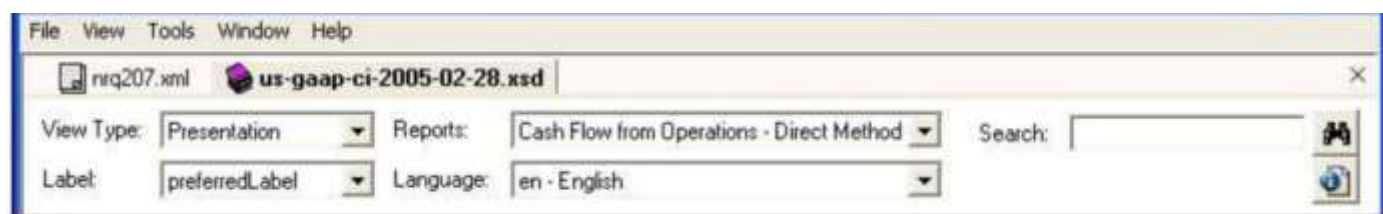| Item	Functions
Tabbed	Displays the open documents in a tabular format, similar to a row of file folders
Cascaded	Displays the open documents in a cascaded list, which you can then sort through with your mouse
Tiled - Horizontal	Arranges the open documents within the SXV workspace in a horizontal format
Tiled - Vertical	Arranges the open documents within the SXV workspace in a vertical format

Setting Taxonomy Options

This section contains procedures for using the viewing tool bar appearing above a displayed taxonomy. You can use the tool bar to:

• Display taxonomy data types
• View Discoverable Taxonomy Set (DTS) information
• Search for taxonomy elements

Display Taxonomy Data Types

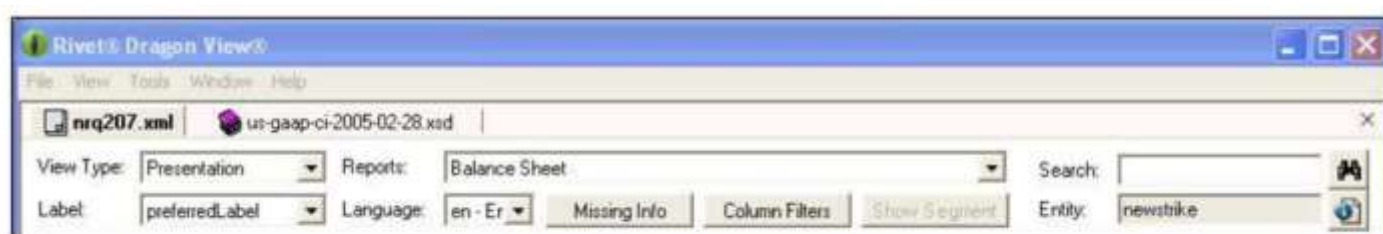This task enables you to display the taxonomy from different views, label roles, or languages.

With a taxonomy open and active in the SXV workspace, use the following drop down lists to select specific data types in the taxonomy:

Options	Description
View Type	Lets you select either the Presentation, Calculation, and Element view types.
Label	Enables you to view one or more of the label roles contained within the taxonomy.
Language	Enables you to view one or more of the languages in the taxonomy.
Reports	Allows you to view the reports within the taxonomy.

Display Instance Document Data Types

This task enables you to display the instance document from different views, label roles, or languages.

With an instance document open and active in the SXV workspace, you will view the following additional options.

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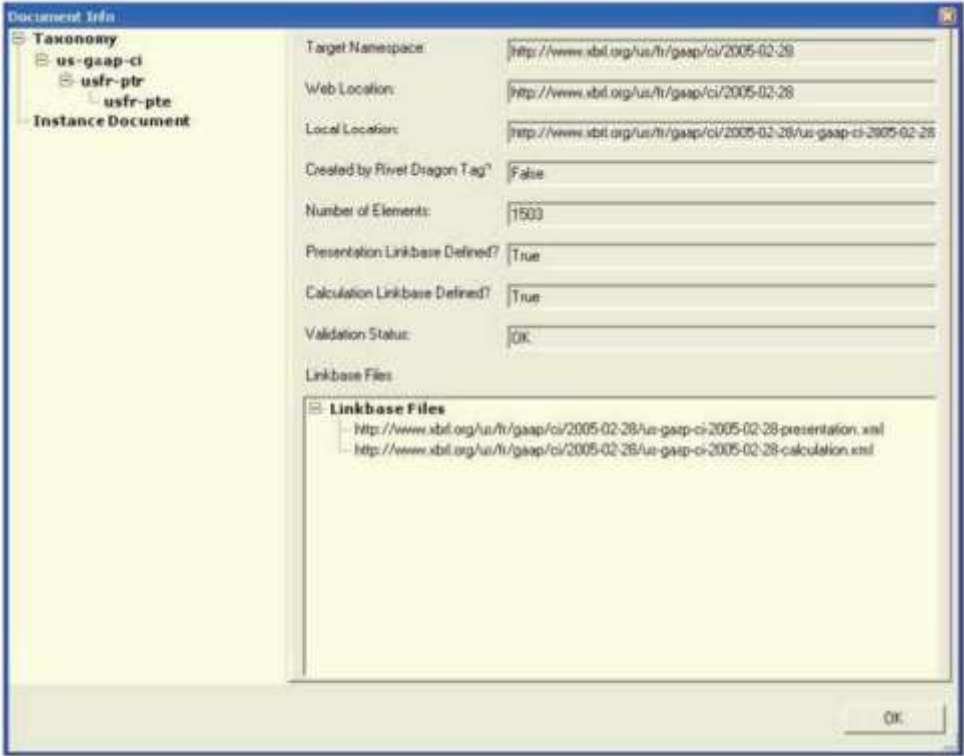| Options	Description
Missing Info	Lets you view the elements that are displayed in either a taxonomy presentation linkbase or calculation linkbase.
Column filters	Allows you to manipulate data by selecting different calendars, currencies, segments or scenarios.
Hide/Show segments	Enables you to turn on and off segment-related data.

View Document Info

DTS information includes supporting information about the taxonomy, such as whether it is a company extension taxonomy, whether the taxonomy has been validated, and other information.

1. With a taxonomy open and active in the SXV workspace, click the DTS Info button.

2. The Document Info window displays a summary of the taxonomy. When you are done viewing the document information, click OK.

View Missing Document Information

The Missing Info button enables you to display the Missing Information window, which lists missing elements, if any, in an XBRL document, as well as elements in the document that do not contain presentation or calculation information.
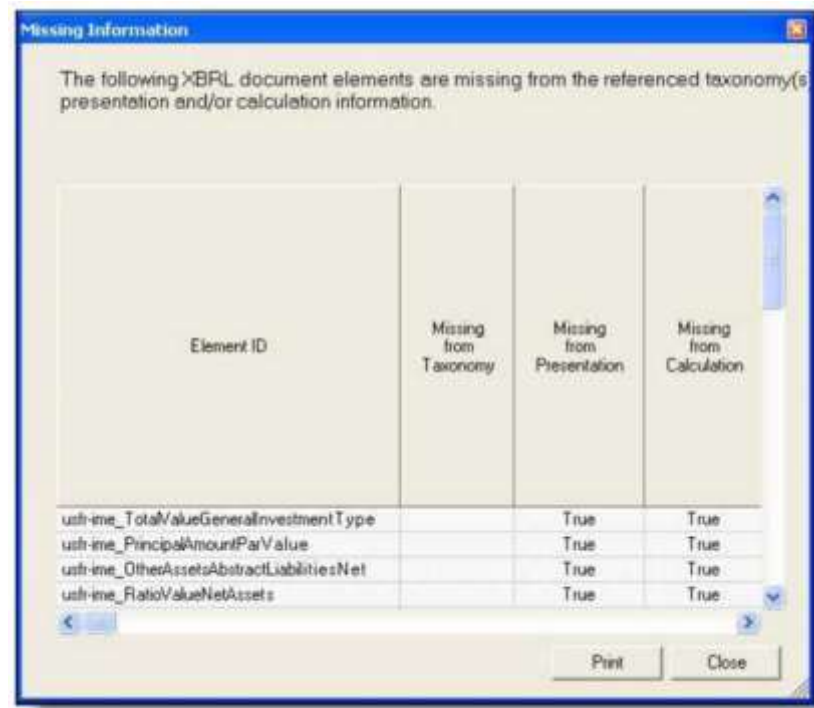
NOTE: This window displays upon opening an XBRL document in which information is missing. For more information, see "Open a Taxonomy or XBRL Instance Document."

1. Click the Missing Info button to display the Missing Information window.

2. The Missing Information window displays with the elements that are missing from the taxonomy, or from the Presentation or Calculation linkbases, as well as the quantities and Calendar data associated with the missing elements.

3. You can print a report containing the missing elements, if needed.

Search for Taxonomy Elements

The search feature enables you to locate taxonomy elements based on entered search criteria:

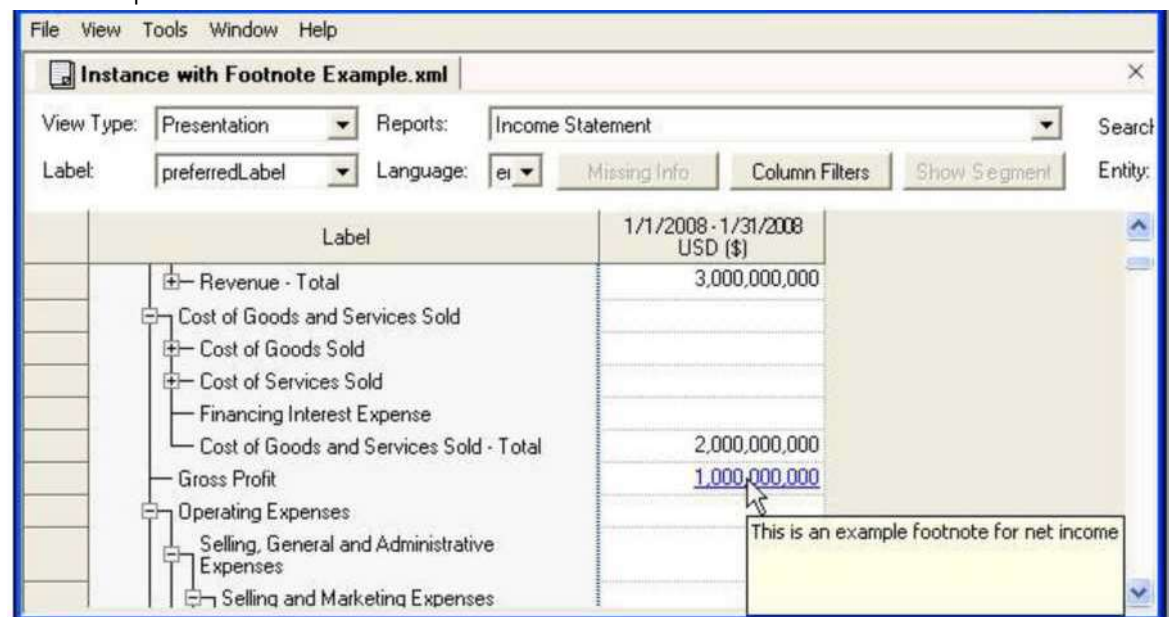- To search, simply enter the search term in the Search field.

NOTE: SXV will only search on the nodes currently opened on the hierarchy.

Working with XBRL Documents

This section covers the use of XBRL documents and taxonomies, including viewing footnotes (instance documents only), and exporting information.
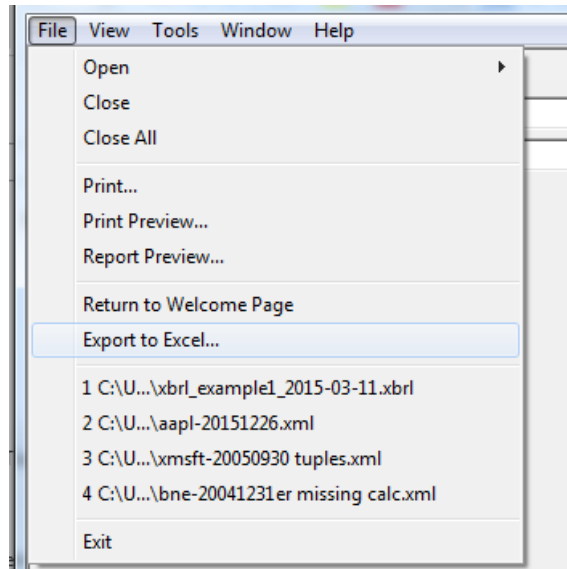
Viewing Footnotes

Footnotes are displayed in SXV as hyperlinks. To view the footnote, hover over the hyperlink and it will appear as a tooltip.
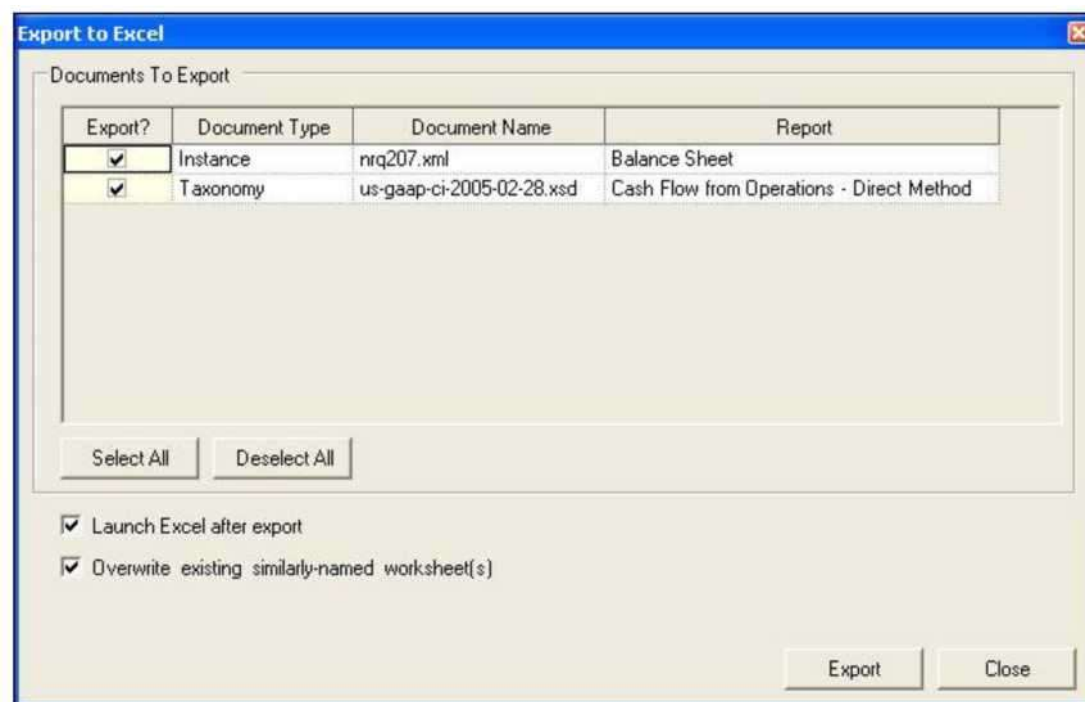

Exporting Information

This procedure allows you to export an XBRL document or taxonomy to Microsoft Office Excel. This is a useful feature that enables you to use the XBRL data for further review or analysis.

1. From the File menu, select Export to Excel to display the Export to Excel dialogue box.

2. Select the documents to Export by filling or clearing the checkboxes in the **Export?** Column. You can also use the Select All and Deselect All buttons.
3. Choose the export options:
• Launch Excel after export.
• Overwrite existing similarly-named worksheet(s)
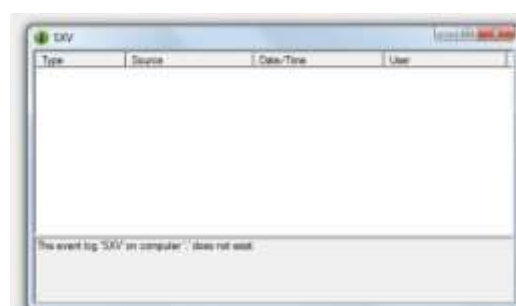4. Click Export to begin the export process.

Column	Description
Document Type	Displays the type of document to be exported to Excel
Document Name	Displays the name of the document to be exported to Excel
View Type	Displays the selected view of the taxonomy or instance document to be exported to Excel

Working with the SXV Event Log

The SXV Event Log can provide you with information about both the activity taking place in SXV, such as taxonomies that have been loaded. You can also use the Event Log to help troubleshoot errors that occur in SXV.

1. In the Help menu, click View Event Log to display the Event Log.

2. To review system activity or error conditions, scroll down the list of events and review the information about them in the viewing pane.