Target Audience

- System Administrators
- Technology Consultants
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Welcome to Business Planning and Consolidation for Office

Business Planning and Consolidation (BPC) for Office combines the power of BPC with the rich functionality of Microsoft Excel, Word and PowerPoint. With BPC for Office, you have all of the Microsoft functionality you are used to, plus, your worksheets, documents, and slide shows can be linked directly to the BPC database that houses your company's reporting data.

BPC for Office allows you to collect data, build and distribute reports, perform real-time analysis, and publish reports in a variety of formats. You can save reports so you can use them disconnected from the database, and you can take reports completely offline and distribute them based on user access rights.

Understanding action panes

A BPC action pane consists of the following sections: Navigation, Session Information, Task Selection or Input Fields, Available Interfaces, and See Also. These sections are described below.

Navigation

The Navigation section provides a Back, Forward, and Home button. The Back button brings you to the previous action pane; The Forward button brings you to the next action pane (only if you previously pressed Back); and the Home button brings you to the first action pane for the particular process you are in.

Session Information

This section contains login and current view information.

The Login section shows the active user ID, application set, and application. To change the application set or application, select the link, make your selection, then click OK.

The Current View section controls which members, parent members, or top-level members are represented in the active report or input schedule. It allows you to dynamically change the current view by entering various members, or selecting them from the Member Lookup. All the dimensions and members to which you have access are available, when the section is expanded.

Task Selection or Input Fields

This section displays either a list of tasks or input fields that require action. If a task list displays, clicking a link will perform a task, open a dialog box, or open another action pane. If input fields display, you must take action by completing the required fields. If you make a mistake, you can always click the Back button at the top of the action pane.

Available Interfaces

This section contains links to other components: BPC Web, BPC for Excel, BPC for PowerPoint, BPC for Word, and BPC Administration. Click a link to start the desired program.

You can expand and collapse this section to see more of the Task Selection/Input Field section.

See also

This section contains a link to the context help topic associated with items in the Selection or Input area in the action pane. Click the link to view field-level help, an overview, and a how-to.

You can expand and collapse this section to see more of the Task Selection/Input Field section.
Minimizing/maximizing action panes
You can minimize action panes to display more of the BPC for Excel, Word or PowerPoint interface.

To minimize an action pane
- From a displayed action pane, click the minimize button in the upper right corner.

To maximize the action pane
- Click View action pane from the BPC for Office toolbar.

Getting started in BPC for Excel
To get started using BPC for Excel, select one of the following tasks in the Getting Started action pane:

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open a business process flow</td>
<td>Allows you to open a business process flow that has been defined and saved by an administrator.</td>
</tr>
<tr>
<td></td>
<td>See Using business process flows</td>
</tr>
<tr>
<td>Open a custom menu</td>
<td>Allows you to open a custom menu.</td>
</tr>
<tr>
<td></td>
<td>See Opening custom menus</td>
</tr>
<tr>
<td>Reporting &amp; Analysis</td>
<td>Opens the Reporting &amp; Analysis action pane, where you can open an existing, or start a new report.</td>
</tr>
<tr>
<td></td>
<td>See About BPC reporting</td>
</tr>
<tr>
<td>Data Input</td>
<td>Opens the Data Input Options action pane, where you can open an existing, or start a new input schedule.</td>
</tr>
<tr>
<td></td>
<td>See About data input and modeling</td>
</tr>
<tr>
<td>Journals</td>
<td>Opens the Journal Options action pane, where you can open an existing journal or start a new journal entry.</td>
</tr>
<tr>
<td></td>
<td>See About journals</td>
</tr>
<tr>
<td>Manage Data</td>
<td>Opens the Manage Data action pane, where you can perform Data Manager tasks.</td>
</tr>
<tr>
<td></td>
<td>See Data Manager Help</td>
</tr>
<tr>
<td>Launch BPC reporting menu</td>
<td>Allows you to view reports on auditing, comments, and business process flows.</td>
</tr>
<tr>
<td></td>
<td>See BPC reporting</td>
</tr>
</tbody>
</table>
Understanding BPC for Excel menus

You access BPC features through several menus that are integrated with Microsoft Excel. The BPC menus are:

<table>
<thead>
<tr>
<th>Menu</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>eAnalyze</td>
<td>Used to create, access, modify, recalculate, and save reports.</td>
</tr>
<tr>
<td>eSubmit</td>
<td>Used to create, access, modify, and save input schedules, and submit supporting documents to the Content Library on BPC Web.</td>
</tr>
<tr>
<td>ePublish</td>
<td>Used to publish reports and books, distribute reports, and access BPC Web.</td>
</tr>
<tr>
<td>eTools</td>
<td>Used to access and perform various BPC for Excel tasks, access Data Manager, and open a journal entry form.</td>
</tr>
<tr>
<td>eJournal</td>
<td>Used to perform various journal tasks, such as create, post, and manage journal entries, and create journal reports.</td>
</tr>
<tr>
<td>eData</td>
<td>Used to access Data Manager tasks.</td>
</tr>
</tbody>
</table>

**eAnalyze menu**

The following table describes the items on the eAnalyze menu.

<table>
<thead>
<tr>
<th>Menu item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open My Reports</td>
<td>Opens your local Reports folder, where you can specify a report to open.</td>
</tr>
<tr>
<td></td>
<td>See Accessing reports</td>
</tr>
<tr>
<td>Save My Reports</td>
<td>Opens your local Reports folder, where you can save the active report.</td>
</tr>
<tr>
<td></td>
<td>See Saving reports</td>
</tr>
<tr>
<td>Open dynamic report template</td>
<td>Opens a dialog box, where you can build a new report based on a selected template.</td>
</tr>
<tr>
<td></td>
<td>See Using dynamic templates</td>
</tr>
<tr>
<td>Open Report Library</td>
<td>Opens the Reports folder on the server, where you can select a report to open.</td>
</tr>
<tr>
<td></td>
<td>See About the report library</td>
</tr>
<tr>
<td>Audit Reports</td>
<td>Opens the Audit Report Filter page, where you can create an ad hoc audit report to view.</td>
</tr>
<tr>
<td></td>
<td>See Creating ad hoc audit reports</td>
</tr>
<tr>
<td>Using Reports Help</td>
<td>Opens a Help topic that describes the eAnalyze menu items.</td>
</tr>
<tr>
<td></td>
<td>See Using Reports Help</td>
</tr>
</tbody>
</table>

**eSubmit menu**

The following table describes the items on the eSubmit menu.

<table>
<thead>
<tr>
<th>Menu item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send and Refresh Schedules</td>
<td>Opens the Send and Refresh Schedules dialog box, where you can send and refresh data in the active input schedule to the database.</td>
</tr>
<tr>
<td>Menu item</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>See Submitting input data</strong></td>
<td></td>
</tr>
<tr>
<td>Open My Schedule</td>
<td>Opens your local Input Schedules folder, where you can access input schedules that you created.</td>
</tr>
<tr>
<td><strong>See Accessing input schedules</strong></td>
<td></td>
</tr>
<tr>
<td>Save My Schedule</td>
<td>Opens your local Input Schedules folder, where you can save an active input schedule.</td>
</tr>
<tr>
<td><strong>See Saving input schedules</strong></td>
<td></td>
</tr>
<tr>
<td>Schedule Dynamic</td>
<td>Opens a dialog box, where you can create a new input schedule using a predefined template.</td>
</tr>
<tr>
<td>Schedule Template</td>
<td><strong>See Accessing schedule templates</strong></td>
</tr>
<tr>
<td>Open Schedule Library</td>
<td>Opens the Input Schedules folder on the server, where you can access templates created by your administrator.</td>
</tr>
<tr>
<td><strong>See About the schedule library</strong></td>
<td></td>
</tr>
<tr>
<td>Validate Submission</td>
<td>Validates the input schedule to make sure the input data passes validation rules set up the administrator.</td>
</tr>
<tr>
<td><strong>See Validating data submissions</strong></td>
<td></td>
</tr>
<tr>
<td>Publish to Content Library</td>
<td>Opens BPC Web, where you can publish a document to the Content Library.</td>
</tr>
<tr>
<td>Modify Work Status</td>
<td>Allows you to change the work status of a data submission so it can be reviewed or locked at the appropriate time.</td>
</tr>
<tr>
<td><strong>See Changing the work status code</strong></td>
<td></td>
</tr>
<tr>
<td>Spread</td>
<td>Takes a value and spreads it among selected cells.</td>
</tr>
<tr>
<td><strong>See Using modeling functions</strong></td>
<td></td>
</tr>
<tr>
<td>Trend</td>
<td>Takes a value and grows it by a factor among selected cells.</td>
</tr>
<tr>
<td><strong>See Using modeling functions</strong></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Allocates an amount to the selected cells, weighted by the values in those cells.</td>
</tr>
<tr>
<td><strong>See Using modeling functions</strong></td>
<td></td>
</tr>
<tr>
<td>Manage Dynamic</td>
<td>Allows you to open the Dynamic Hierarchy window, where you can manage dynamic hierarchies.</td>
</tr>
<tr>
<td>Hierarchies</td>
<td><strong>Using Schedules Help</strong></td>
</tr>
<tr>
<td>Using Schedules Help</td>
<td>Opens a Help topic that describes the eSubmit menu items.</td>
</tr>
<tr>
<td><strong>See Using Schedules Help</strong></td>
<td></td>
</tr>
</tbody>
</table>

**ePublish menu**
The following table describes the items on the ePublish menu.

<table>
<thead>
<tr>
<th>Menu item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Opening Web-Ready files</strong></td>
<td></td>
</tr>
<tr>
<td>Open Web-Ready file from BPC Web</td>
<td>Allows you to open a file that has been published to the Collaboration page on BPC Web.</td>
</tr>
<tr>
<td>Save as Web-Ready</td>
<td>Allows you to publish an entire report to BPC Web.</td>
</tr>
</tbody>
</table>
## Menu item | Description
---|---
**file** | See Publishing web-ready files

**Book Publication Wizard** | Opens the Book Publication dialog box, where you can publish a book of reports to various formats. See Publishing a book of reports

**Manage Book** | Allows you to create a new book template, and edit, validate, and save a book template. See Publishing books of reports

**Offline distribution Wizard** | Opens the Offline Distribution Wizard, where you can distribute or collect offline reports. See Distributing reports and input schedules and Collecting input schedules

**Manage Distribution List** | Allows you to create a new distribution list, and edit, validate and save a distribution list. See Creating distribution lists

**View BPC Web** | Opens BPC Web. See Starting BPC Web

**Publishing Help** | Opens a Help topic that describes the ePublish menu items. See Publishing Help

### eTools menu
The following table describes the items on the eTools menu.

<table>
<thead>
<tr>
<th>Menu item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Park N Go</strong></td>
<td>Opens the Park N Go dialog box where you can lock down the current view and/or the data, so you can view and distribute a static copy of a report or input schedule or work with it offline. See Using Park N Go</td>
</tr>
<tr>
<td><strong>Select Members</strong></td>
<td>Opens the Member Lookup, where you can select members for the current view. See Using the Member Lookup</td>
</tr>
<tr>
<td><strong>Function Wizard</strong></td>
<td>Opens the Function Wizard, where you can select from Excel and BPC functions to insert in your report or input schedule. See Using the Function Wizard and BPC function reference</td>
</tr>
<tr>
<td><strong>Expand All</strong></td>
<td>Refreshes the current view, and runs any expansion functions in the active report or input schedule. By default, a workbook automatically expands when it is opened. See Expansion functions and Setting workbook options</td>
</tr>
<tr>
<td><strong>Refresh Workbook</strong></td>
<td>Retrieves data from the database, and prompts you to send data. By default, a workbook automatically gets refreshed when it is opened. See Refreshing report data and Setting workbook options</td>
</tr>
<tr>
<td><strong>Refresh Dimension Members</strong></td>
<td>Returns any new dimension information from the server. By default, a workbook automatically retrieves dimension information when it is opened. See Setting workbook options</td>
</tr>
<tr>
<td>Menu item</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Data Manager</td>
<td>Displays the Data Manager toolbar.</td>
</tr>
<tr>
<td></td>
<td>See Data Manager toolbar</td>
</tr>
<tr>
<td>Workbook Options</td>
<td>Allows you to set options for the active report or input schedule.</td>
</tr>
<tr>
<td></td>
<td>See Setting workbook options</td>
</tr>
<tr>
<td>Open Dynamic Template</td>
<td>Opens the eExcel folder on the server where you can access all existing</td>
</tr>
<tr>
<td></td>
<td>templates. (Only available to administrators.)</td>
</tr>
<tr>
<td></td>
<td>See Creating templates</td>
</tr>
<tr>
<td>Save Dynamic Template</td>
<td>Opens the eExcel folder on the server where you can save templates.</td>
</tr>
<tr>
<td></td>
<td>(Only available to administrators.)</td>
</tr>
<tr>
<td></td>
<td>See Creating templates</td>
</tr>
<tr>
<td>Custom Menu Manager</td>
<td>Allows you to open a custom menu template, validate it, and save it.</td>
</tr>
<tr>
<td></td>
<td>(Only available to administrators.)</td>
</tr>
<tr>
<td></td>
<td>See Creating custom menus</td>
</tr>
<tr>
<td>Change Application Set</td>
<td>Allows you to switch to a different application set.</td>
</tr>
<tr>
<td></td>
<td>See Understanding action panes</td>
</tr>
<tr>
<td>Client Options</td>
<td>Allows you to perform specific client maintenance tasks.</td>
</tr>
<tr>
<td></td>
<td>See Setting client options</td>
</tr>
<tr>
<td>Journal</td>
<td>Opens the journal entry form for the active application, and displays the</td>
</tr>
<tr>
<td></td>
<td>eJournal menu.</td>
</tr>
<tr>
<td></td>
<td>See Using Journals Help</td>
</tr>
<tr>
<td>BPC for Office Help</td>
<td>Displays the BPC for Office Help.</td>
</tr>
<tr>
<td></td>
<td>See Using this Help</td>
</tr>
<tr>
<td>View BPC Action Pane</td>
<td>Displays the BPC action pane, or hides, if already displayed.</td>
</tr>
<tr>
<td></td>
<td>See Understanding action panes</td>
</tr>
<tr>
<td>About BPC for Excel</td>
<td>This is displayed if you are currently in BPC for Excel. It displays the</td>
</tr>
<tr>
<td></td>
<td>version and copyright information for BPC for Excel.</td>
</tr>
<tr>
<td>About BPC</td>
<td>Displays version and copyright information for BPC.</td>
</tr>
</tbody>
</table>

**eData menu**

The eData menu provides access to Data Manager tasks. Data Manager allows you to move data in and out of your database, and perform other actions on data.

When selecting the eData menu for the first time, there is a slight delay as Data Manager loads. For information about Data Manager and the eData menu items, see Data Manager Help (select eData > Data Manager Help).

**eJournal menu**

The following table describes the items on the eJournal menu. The eJournal menu is only available when you load a journal entry form by selecting eTools > Journal.

In addition, only the tasks you have access rights to are enabled. For example, if an administrator only gives you the rights to view journal entries, then the menu items for creating, posting, and unposting journal entries are not displayed.
<table>
<thead>
<tr>
<th>Menu item</th>
<th>Description</th>
</tr>
</thead>
</table>
| New       | Allows you to create a new journal entry.  
            | **See Creating journal entries** |
| Save      | Saves the active journal entry.  
            | **See Creating journal entries** |
| Save As   | Allows you to save a journal entry with a new Journal ID.  
            | **See Creating journal entries** |
| Post      | Allows you to post a journal entry.  
            | **See Posting journal entries** |
| Unpost    | Allows you to unpost a journal entry.  
            | **See Unposting journal entries** |
| Repost    | Allows administrators to restore journal entries in case of an accidental deletion.  
            | **See Reposting journal entries** |
| Manager   | Opens the Journal Manager where you can search for journal entries and perform actions on them.  
            | **See Managing journal entries** |
| Delete    | Deletes the active journal entry.  
            | **See Deleting journal entries** |
| Refresh   | Takes the journal entry back to the original state, before any information was entered.  
            | **See Creating journal entries** |
| Reports   | Allows you to create journal reports.  
            | **See Creating journal reports** |
| Reopen    | Allows you to reopen journal entries in a subsequent time period.  
            | **See Reopening journal entries** |
| Translation | Opens a custom workbook that translates how journal entries will be reopened in a subsequent period.  
            | **See Defining journal reopen translations** |
| Using Journals Help | Opens a Help topic that describes the eJournal menu items.  
            | **See Using Journals Help** |

**Understanding BPC toolbars**

BPC has three toolbars that provide quick access to commonly used functions:

- BPC for Office toolbar
- BPC for Excel toolbar
- Data Manager toolbar
Journal toolbar

**BPC for Office toolbar**
The BPC for Office toolbar is displayed when you start BPC for Excel, Word or PowerPoint.

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log On</td>
<td>Opens the Login dialog box where you can log on to BPC for Office, or log on to a different application set.</td>
</tr>
<tr>
<td>Log Off</td>
<td>Logs you off of your BPC for Office session.</td>
</tr>
<tr>
<td>View action pane</td>
<td>Displays the action pane on the right of your window.</td>
</tr>
<tr>
<td>Help</td>
<td>Opens the BPC for Office Help.</td>
</tr>
</tbody>
</table>

**BPC for Excel toolbar**
The BPC for Excel toolbar is displayed when you start BPC for Excel.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Send and Refresh Schedules" /></td>
<td>Send and Refresh Schedules</td>
<td>Opens the <em>Send and Refresh Schedules</em> dialog box, where you can send and refresh data in the active input schedule to the database.</td>
</tr>
<tr>
<td><img src="image" alt="Expand All" /></td>
<td>Expand All</td>
<td>Refreshes the current view, and runs any expansion functions in the active report or input schedule. By default, a workbook automatically expands when it is opened.</td>
</tr>
<tr>
<td><img src="image" alt="Refresh" /></td>
<td>Refresh</td>
<td>Retrieves data from the database. By default, a workbook automatically gets refreshed when it is opened.</td>
</tr>
<tr>
<td><img src="image" alt="Drill Down" /></td>
<td>Drill Down</td>
<td>Drills down to the next member, as defined in the expansion function in the active cell.</td>
</tr>
<tr>
<td><img src="image" alt="Go Back/Go Forward" /></td>
<td>Go Back/Go Forward</td>
<td>Goes back or forward to the previous or next drill-down state, respectively. The last 20 states from the current BPC for Excel session are stored in the drill-down history.</td>
</tr>
<tr>
<td><img src="image" alt="Drill Through" /></td>
<td>Drill Through</td>
<td>Opens a document as defined in the drill through function.</td>
</tr>
<tr>
<td><img src="image" alt="Park N Go" /></td>
<td>Park N Go</td>
<td>Allows you to Open the Park N Go dialog box where you can lock down the current view and/or the data, so you can view and distribute a static copy of a report or input schedule or work with it offline.</td>
</tr>
</tbody>
</table>

See Submitting input data

See Expansion functions and Setting workbook options

See Refreshing report data and Setting workbook options

See Using drill down

See Using drill through

See Using Park N Go
Data Manager toolbar
The Data Manager toolbar is displayed when you select any item on the eData menu. See the Data Manager Help for more information.

Journal toolbar
The Journal toolbar is displayed if the Journal module is installed when you activate the toolbar by clicking eTools > Journal.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Clear" /></td>
<td>Clear</td>
<td>Clears the journal entry form.</td>
</tr>
<tr>
<td><img src="image" alt="New" /></td>
<td>New</td>
<td>Opens a new journal entry form where you can create a new journal entry. See Creating journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Save" /></td>
<td>Save</td>
<td>Saves the active journal entry. See Creating journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Save As" /></td>
<td>Save As</td>
<td>Allows you to save the active journal entry with a new name. See Creating journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Post" /></td>
<td>Post</td>
<td>Allows you to post a journal entry. See Posting journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Unpost" /></td>
<td>Unpost</td>
<td>Allows you to unpost a journal entry. See Unposting journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Locked" /></td>
<td>Locked</td>
<td>Locks or unlocks the current journal entry. See Posting journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Manager" /></td>
<td>Manager</td>
<td>Opens the Journal Manager where you can search for journal entries and perform actions on them. See Managing journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Delete" /></td>
<td>Delete</td>
<td>Deletes the active journal entry. See Deleting journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Reopen" /></td>
<td>Reopen</td>
<td>Allows you to reopen journal entries in a subsequent time period. See Reopening journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Previous and Next" /></td>
<td>Previous and Next</td>
<td>Browses through open journal entries when multiple entries have been opened using the Journal Manager. See Opening journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Refresh" /></td>
<td>Refresh</td>
<td>Takes the journal entry back to the original state, before any information was entered. See Creating journal entries</td>
</tr>
<tr>
<td><img src="image" alt="Reports" /></td>
<td>Reports</td>
<td>Allows you to create journal reports. See Creating journal reports</td>
</tr>
</tbody>
</table>
Changing the current view

BPC's current view feature is what transforms static spreadsheets into dynamic, reusable reports and input schedules. The current view represents the dimensions that are included in the current application, and the members that are used in the current display of a live report (or the saved members in an offline report).

You can instantly change the current view in a live report by selecting new members from the current view.

Any cell in a report or input schedule that contains the EvCVW function is current view-dependent. If you change the current view, the data displayed changes to reflect the new current view settings.

You can set a workbook to refresh automatically upon selecting a member from the current view, or to allow a manual refresh. See Setting workbook options.

To change the current view

1. Make sure the action pane is maximized. See Minimizing/maximizing action panes.
2. Maximize the current view list in the Session Information section.
3. Enter a member, select from the recently-selected members list, or click More to open the Member Lookup. See Using the Member Lookup.
4. If you are prompted to refresh the report or input schedule, click Yes.

Using the Connection Wizard

The Connection Wizard provides a way to set defaults for, or change your BPC connection settings. After you run through the Connection Wizard and set defaults, you can log on to BPC by just clicking OK in the BPC Login window.

You should use the Connection Wizard in the following scenarios:

- The first time you log on to BPC, so you can establish default connection settings
- When you want to log on to BPC with a different user ID and password than your default credentials or the ID and password you supplied the last time you logged on
- When you want to connect to a different server than your default server or the last server you logged on to
- When a new application set has been added, and you want to access it

To use the Connection Wizard

1. From the BPC Login window, click the Connection Wizard button.
2. Enter the server name or IP address, or select one from the list, then select Next.
3. In the Authentication screen, accept the default Use the Windows ID and Password, or to log on using a different ID and password, select Connect to server using different ID and Password. If you selected the latter option, perform the following steps. Otherwise, click Next.
   a. In the User ID field, enter a user ID.
   b. In the Password field, enter a password.
   c. In the Domain name field, enter a domain name if your system requires it. See your network administrator for more information.
   d. Select the Save Password check box to save the user ID and password you entered, so the next time you log on, you can log on with the specified credentials transparently.
   e. Select My Windows User ID is the same as above if you are logging on to a multi-server environment, and your BPC credentials are the same as your network credentials. We recommend you always select this option in a multi-server environment because it increases performance.
   f. Click Next.
4. From the Application Set Information screen, select the application set (or accept the default) from the Application set field, then click Next.
The Application Set Information screen also provides information about your server(s). In addition, if an alternate service provider has been installed on the server, this window provides the option to select the service provider through which to connect. Please see your system administrator for more information.

5. Review the information in the Summary screen, then click Finish.
6. Click OK.

Starting BPC for Office

You start BPC for Office from the desktop BPC icon, Start menu, or from a browser. The BPC launch page is displayed. From there, you can open BPC for Excel, BPC for Word, BPC for PowerPoint, or Administration. If you select one of these items, you are prompted to log on to an application set and application combination. You can also access the download page from the launch page.

To start BPC for Office

1. Do one of the following:
   • From a browser, type http://<server name>/osoft.
   • From your desktop, click the BPC icon.
   • From the Windows Start menu, select SAP > BPC.
2. From the launch page, select BPC for Excel, BPC for Word, or BPC for PowerPoint.
3. In the Login window, select the application set and application to which you want to log on, then click OK.

   If you are logging on to a server for the first time, or you want to change the server to which you are logging on or your credentials, you must use the Connection Wizard to set up the server. See Using the Connection Wizard.

4. If prompted to update files, click Yes. In the Update complete message box, click OK.

Starting BPC for Excel

You start BPC for Excel from the BPC for Office Launch page.

After starting BPC for Excel, you can start using it by making a selection from the action pane. You can also use the BPC and Microsoft Excel menus to perform tasks.

To start BPC for Office

• From the BPC for Office Launch page, select BPC for Excel.

Starting BPC for Word

You start BPC for Word from the BPC for Office Launch page.

After starting BPC for Word, you can start using it by making a selection from the action pane. You can also use the BPC for Office Toolbar to perform tasks.

To start BPC for Office

• From the BPC for Office Launch page, select BPC for Word.

Starting BPC for PowerPoint

You start BPC for PowerPoint from the BPC for Office Launch page.

After starting BPC for PowerPoint, you can start using it by making a selection from the action pane. You can also use the BPC for Office Toolbar to perform tasks.
To start BPC for Office

- From the BPC for Office Launch page, select BPC for PowerPoint.

Starting BPC Web

From BPC for Office, you can start BPC Web.

To start Web, do one of the following

- From any action pane, select BPC Web.
- From for Excel, select ePublish > View BPC Web.

Working on the offline client

BPC for Office has an offline feature that allows you to work with a report or input schedule in a disconnected state. When you work on the offline client, you can perform all your Excel tasks while disconnected from the BPC server, then bring the workbook back to its live state when you reestablish connectivity.

Before you can work with a workbook offline, the current view and data must be locked using the Park N Go feature. See Locking the current view and data.

When you are ready to bring the report back online, you can restore it back to its live state. See Restoring locked or offline reports and input schedules.

To work on a report or input schedule offline

1. Start BPC for Excel.
2. From the Login page, click the Work Offline button.
3. Open the desired report or input schedule. See Accessing reports or Accessing input schedules.
4. Modify the workbook, as desired.
5. When you are done working on it, save the report or input schedule.

Using Business Process Flows

You use business process flows to perform BPC tasks that are within a defined business process.

About Business Process Flows

Business process flows are comprised of steps that must be completed sequentially, and sub-steps, which do not. The sequence of steps and sub-steps are displayed in the BPF ‘To Do’ list.

If a step does not contain sub-steps, the step contains the task to be completed. When you select it, the associated BPC task is displayed. If the step has sub-steps, you cannot select the BPF step because the step serves as a container for the sub-steps. In this case, the sub-steps contain the tasks to be completed.

About steps that require completion

Business process flow steps can be set up to require completion criteria, which involves setting the work status for a data region. This means the process cannot continue until the work status is set to the appropriate state.

All steps listed in the ‘to do’ list indicate ‘Completion Required.’ This means that the user performing the step must indicate that they have completed the step. This does not necessarily mean that the work status needs to be set to a certain state. If the step does require a specific work status setting, a message will be displayed and the user cannot continue until the work status is set appropriately.
About steps that require review

An administrator has the ability to define whether steps require review before the next step in a business process flow can begin. To ensure that a reviewer knows that a step is ready for review, the administrator for the business process flow can enable alerts.

When a step requires review, the text “Requires Review” is displayed to the right of the step. Users are not permitted to move to the next step until this step has been reviewed by the designated reviewer.

Opening business process flows

You can open business process flows to which you have access. You specify a name and the data region for this business process. The dimensions that display on this action pane are determined by the BPF setup.

When you open a business process flow, you are required to choose a data region. This data region determines the context for the processes. The available dimensions to choose from are determined by the setup of the business process flow. The default values for the displayed dimensions are inherited from the active current view.

Business process flows can be opened from BPC Web and BPC for Excel.

To open a business process flow

1. From the Getting Started action pane (from BPC for Excel or BPC Web), select Open a business process flow.
2. From the Open business process flow - Step 1 of 2 action pane, select the business process flow you want to open.
3. Click the button.
4. From the Open business process flow - Step 2 of 2 action pane, select the desired data region. Use the drop-down list boxes to choose member values that have been previously selected, or click the dimension name (or select More) to select members using the Member Lookup.
5. Click the button.
6. For information on using the business process flow, see Using the business process flow 'to do' list.

Using the business process flow 'to do' list

The business process flow ‘To do’ list displays the steps and sub-steps defined in the BPF. Steps must be performed sequentially. For example, to begin step 2, step 1 must be complete. Completed items cannot be selected, as they are no longer enabled. Sub-steps need not be completed sequentially.

To use the business process flow ‘To do’ list

1. From an open business process flow, click the link for the task that you are required to complete. A BPC interface opens and the action pane contains an instruction for the defined process.
2. After completing the work for this item, go back to the To Do list by clicking the Back to BPF link in the action pane.
3. If you are required to mark the step as complete, click the icon, and click the This step is completed link in the action pane. If the step requires that a specific work status be set, a message will be displayed and you cannot continue until the work status is set appropriately.
4. Continue to the next available step or sub-step, as required.

Approving a step as a reviewer

An administrator has the ability to define whether a step requires review before the next step in a business process flow can begin.

When a step is waiting for your review, the BPF To Do list displays “Requires Review” to the right of the step.
To approve a business process flow step

1. From the **Getting Started** action pane (from BPC for Excel or BPC Web), select **Open a business process flow**.

2. Select the business process flow for which you need to review a step, then click the ➡️ button.

3. Select the appropriate data region, then click the ✔️ button. The business process flow ‘To do’ list now appears with a notation to the right of the step that requires review.

4. After completing your review of the step, select **Review this step** in the action pane.

5. To approve the step, select **Accept**. To reject it, select **Reject**.

6. To save your changes, click the ✔️ button.

**Reporting on business process flows**

You can generate two different types of BPF reports: a standard BPF report and a BPF step report. Both reports allow you to specify the business process flow, time frame, associated data region, and page orientation.

The standard BPF report lists the steps and sub-steps in the right column, and the status of each step or sub-step in the left column.

The BPF step report lists the dimension that drives the BPF for which the report is run in the rows, and the status of each step and sub-step in the columns.

Statuses are: **Rejected** (shown in red on the step report), **Review Required** (shown in yellow on the step report), and **Completed** (shown in green on the step report).

**To generate a BPF report**

1. From the **Getting Started - BPC for Excel** action pane, select **Open BPC System Reports**.

2. Select **BPF reports**.

3. Select the desired BPF from the **BPF Reports** category if you want to prepare a standard report, or select the BPF from the **BPF Step Reports** category if you want to prepare a BPF Step report.

4. Specify the start date, end date, orientation and data region to report on.

5. Click the ✔️ button to generate the report for the selected business process flow. The report appears in a new browser window.

**Building reports and input schedules**

BPC provides all the tools your company needs to control the data input process and analyze that data. With BPC reports, users can quickly access accurate, current, and relevant data, and work with it within the familiar Excel interface. With BPC input schedules, users can enter and send data to a database, directly from Excel spreadsheets. BPC provides several templates that help you get started working with reports and input schedules.

**About BPC reporting**

With BPC reporting, users can quickly access accurate, current, and relevant data, and work with it within the familiar Excel interface. Because BPC is linked to a centralized database, you always have access to the most recent information. In addition to providing real-time data, BPC makes it easy to “slice and dice” multidimensional data using the BPC current view, always accessible from the active action pane.

BPC provides a variety of report templates to help you get started designing reports. When creating a new report, you should start with an existing report or report template, and then modify it. Doing this preserves some useful features of BPC-supplied reports, such as the control panel. The control panel, hidden by default, contains built-in functions, and allows you to customize the format and content of the template. See Using control panels.
Creating reports

The basic steps for creating a BPC report are:

1. Create a report using an existing report or report template, or using drag & drop. See Accessing reports or Creating new reports.
2. Modify the report. For example, you can change the members displayed by changing the current view (see Changing the current view), insert Ev formulas to retrieve information and data from the BPC database (see BPC functions and formulas), or modify the information in the control panel (see Using control panels).
3. Refresh the report to retrieve updated data. See Refreshing report data.
4. Save the report. See Saving reports.
5. Optionally, you can publish the report to BPC Web. See Publishing web-ready files.

Using reports

The basic steps for using a report are:

1. Open an existing report. See Accessing reports.
2. Set the current view to the desired setting. See Changing the current view.
3. Refresh the report. See Refreshing report data.
4. Optionally, save the report. See Saving reports.
5. Optionally, print the report (select File > Print).

About data input and modeling

BPC input schedules allow you to send data to databases, directly from your spreadsheets. Input schedules are similar to BPC reports, in that they contain all of the same formatting and functionality. If you are familiar with BPC reports, you should be able to quickly understand and use input schedules. The difference is reports are used for analysis purposes, and input schedules are used for writing data to the database. Data can be written to base-level members to which you have write access.

BPC provides all the tools you need to control your finances for your department, division, etc. Some of those tools are:

- Input schedule templates
- A link to a database containing historical and actual data for modeling and comparison purposes
- The ability to collaborate online with your manager or colleagues about your budget
- A repository (BPC Web) of company information such as budgeting guidelines, goals, competitive information, and templates

Basic steps for creating an input schedule

1. Open an input schedule template. See Accessing input schedules.
2. Modify the input schedule.
   - Change the current view. See Changing the current view.
   - Insert Ev formulas to retrieve information and data from the BPC database. See Value functions.
3. Enter data in the schedule, then send it. See Submitting input data.
4. Save the input schedule. See Saving input schedules.

Accessing reports

You can access existing reports in the following ways:

- Report library. The report library contains report templates created by administrators and saved on the server. You can typically use these templates with few or no modifications. See About the report library.
• **My Reports.** The My Reports folder contains reports saved to your local BPC Reports folder.

**To access a report**

1. From BPC for Excel, select **Reporting & Analysis** from the **Getting Started** action pane.
2. Select one of the following:
   - **Open an existing report** (opens the Open dialog box to the server reports folder)
   - **Open an existing report from My Reports folder** (opens the Open dialog box to the local reports folder)
3. Select the report you want to open, then click **Open**.

**Refreshing report data**

You refresh your report data to get current data into your report from the database. You are also prompted to send updated data, if the report contains EwSND functions.

You should refresh your report data when you change members using the current view, and if your report contains dynamic expansions.

You can have the report refresh automatically upon changing the current view settings in the Workbook Options dialog box. See **Setting workbook options**. See **About dynamic expansion** for more information on dynamic expansions.

**To refresh report data**

- From the report you want to refresh, select one of the following:
  - Click the **Refresh Workbook** toolbar icon.
  - From the **Report Options** action pane, select **Retrieve data**, and then select one of the Retrieve options.

**Retrieving data options**

You can retrieve data in the following ways:

<table>
<thead>
<tr>
<th>Retrieve active cell</th>
<th>Refreshes data in the active cell.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrieve active worksheet</td>
<td>Refreshes data in the active worksheet.</td>
</tr>
<tr>
<td>Retrieve active workbook</td>
<td>Refreshes data in the active workbook.</td>
</tr>
<tr>
<td>Retrieve supporting documents</td>
<td>Goes to Content Library.</td>
</tr>
<tr>
<td>Retrieve and refresh dimension members</td>
<td>Gets the latest dimension information from the database.</td>
</tr>
</tbody>
</table>

**Opening input schedules**

You can open existing input schedules from the following locations.

- **Schedule library.** The schedule library contains input schedule templates created by administrators. You can typically use these templates with few or no modifications. See **About the schedule library**.

- **My Schedules.** My Schedules contains input schedules saved to your local BPC Schedules folder.

**To access an input schedule**

1. From BPC for Excel, select **Data Input**, then do one of the following:
   - **Open an existing schedule** (opens the Open dialog box to the server reports folder)
• **Open an existing schedule from My Schedules folder** (opens the Open dialog box to the local reports folder)

2. Select the input schedule you want to open, then click **Open**.

### Creating templates

You can create report and input schedule templates and save them for subsequent use. The easiest way to create a template is to access one of the provided templates, and modify it.

All BPC users can access templates, modify them, and save them locally to MyReports or My Schedules. Only administrators can create templates and save them to the server.

This topic describes how administrators can access a template saved in the template library, use it to create a new template, and save it on the server.

#### To create a template

1. From BPC for Excel, open an existing report or input schedule, or start a new one.
2. Modify the template as desired.

   * If you are creating a template for use in a book distribution list, you must set a password on the template in the Workbook Options dialog box. See **Setting workbook options** and **Creating distribution lists**.

3. When you are satisfied with your template, select **eTools > Save Template Library**.
4. Select the appropriate folder, name the file, then click **Save**.
5. If prompted to save the template on the server,

6. **(Optional)** Make the template available for downloading to user's clients by incrementing the template version number. See **Setting template version in Admin Help** for more information. Only administrators can update template version numbers in BPC Administration.

### Adding custom buttons

You can add custom buttons to your reports and input schedules to provide one-click access to commonly performed tasks. You can use the BPC menu tasks as the macros to program on the buttons. See **BPC menu commands** for a full list of available tasks.

#### To add a button to a report or input schedule

1. From BPC for Excel, open the report or input schedule in which you want to add a button.
2. From the Excel **Forms** toolbar, click the button icon.

   * If you need to show the **Forms** toolbar, select **View > Toolbars > Forms**.

3. Draw the button in the location you want to add it on the worksheet.
4. The system displays the **Assign Macro** dialog box.
5. In the **Macro Name** field, enter the menu command you want to use. See **BPC menu commands**.
6. Click **OK**.
7. Change the button label by right-clicking the button and selecting **Edit Text**. Type the desired label, then click off the button.
8. Save the report or input schedule.

### Creating ad hoc audit reports

You create ad hoc audit reports to display audit trail data. The tasks, categories, and filter fields display those items that have been set up to be audited, and to which you have authorization to view.
To create an ad hoc audit report

1. From BPC for Excel, select eAnalyze > Audit Reports. The Audit Report Filter page opens in a browser.

2. From the Task list, select the task whose data you want to see. You can alternatively leave All tasks selected.

   Tasks include BPC for Excel, Data Manager Import, Data Manager Clear, Logic Execution, Journals, and Investigator, but you can only see the tasks that have been set up in the application by the administrator.

3. From the Category list, select the Category whose data you want to view.

4. From the End Date/Time field, select the date and time up to which you want to view audit data.

   The default is the current day. If the same day, the start date starts at 12:00 a.m., and the end date ends at 11:59 p.m.

5. In the Rows field, select the dimension you want to group the other columns by, then select ID or Description to show the member ID or member description, respectively.

6. In the Column fields, select the dimensions you want to see on the columns.

7. In the Level 1 and Level 2 fields, select dimensions and members on which to base the report. For example, if you want to view audit data for a particular entity, enter Entity in the Filter name field, then enter the desired member in the Filter value field. Click the Browse button to browse for a member associated with the selected dimension.

8. Select Portrait to view the report in portrait orientation, or Landscape to view it in landscape orientation.


Viewing audit reports

After you create an ad hoc audit report, there are several tasks you can perform while viewing it.

You can view audit reports if the Ad Hoc Audit Report object has been added to a BPC Web page. With an ad hoc audit report, you customize the report fields to select the information you want to see.

To view an audit report

1. Create an ad hoc audit report. See Creating ad hoc audit reports.

2. From the report, use the toolbar at the top to do any of the following:
   - Flip through pages
   - Increase or decrease the display size
   - Search for specific text in the report using full-text search
   - Export the report to a selected output format
   - Refresh the report
   - Get help on the report

Setting workbook options

In the Workbook Options dialog box, you can perform the following tasks to set behavior options on an active workbook:

- Set refresh, recalc, and expansion options
- Set drill-down options
- Set maximum expansion options
- Override current view settings
• Saving the session CV with the workbook
• Select a range in the workbook to override the current view settings
• Set the BPC worksheet password
• Review the lock or unlock status
• Read options for comment

Setting refresh, recalc and expansions options

You can change the defaults for the way retrieval and expansion functions behave in a report or input schedule upon certain actions. You can set options for refreshing, recalculating, and expanding data.

• Refreshing a workbook - When you "refresh" a workbook, the system goes to the server and returns data values for the cells whose retrieval formulas are impacted. For example, if a change to the report or input schedule impacts a cell that contains EvINP, EvGET, or EvSND, those values are refreshed. See EvINP, EvGET, or EvSND.

• Recalculating a workbook - Like a refresh option, when you "recalc" a workbook, the system also returns data values for the cells whose retrieval formulas are impacted (EvINP, EvGET, or EvSND). However, instead of going directly to the server, the system gets the values from a local cache. This allows for a faster refresh. If the values are not found locally, the system retrieves the values from the server. See EvINP, EvGET, or EvSND.

• Expanding a workbook - When you "expand" a workbook, the expansion formulas dynamically expand dimensional data. See Expansion functions.

The following table summarizes the refresh, recalc, and expansion options you can set for a report or input schedule on the Workbook Options window.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Options are Report and Input Schedule.</td>
</tr>
<tr>
<td></td>
<td>The 'recalc' and 'refresh' options provide default selections to optimize the workbook performance. After setting the type, you can further customize the recalc and refresh options to suit your needs.</td>
</tr>
<tr>
<td>Recalc workbook on worksheet update</td>
<td>If selected, the system automatically performs a recalc when a change is made to an impacted data cell. If not selected, you can perform a manual recalculation by selecting eAnalyze &gt; Recalc. By default, this option is selected for reports, not selected for input schedules.</td>
</tr>
<tr>
<td>Recalc workbook on workbook open</td>
<td>If selected, the system automatically performs a recalc when a workbook is opened. If not selected, you can perform a manual recalculation by selecting eAnalyze &gt; Recalc. By default, this option is selected for reports, not selected for input schedules.</td>
</tr>
<tr>
<td>Recalc on CurrentView change</td>
<td>If selected, the system automatically performs a recalc when a user changes the current view. If not selected, you can perform a manual recalculation by selecting eAnalyze &gt; Recalc. By default, this option is selected for reports, not selected for input schedules.</td>
</tr>
<tr>
<td>Refresh after data send</td>
<td>If selected, the system automatically performs a refresh after data is sent to the database. If not selected, you can perform a manual refresh by selecting eTools &gt; Refresh. By default, this option is selected for input schedules, not selected for reports.</td>
</tr>
</tbody>
</table>
Option | Description
--- | ---
Expand on workbook open | If selected, the system automatically expands the expansion functions when the workbook opens. If not selected, you can perform a manual expansion by selecting eTools > Expand All.
By default, this option is selected for reports and not selected for input schedules.

Expand on CurrentView change | If selected, the system automatically expands the expansion functions when the current view is changed. If not selected, you can perform a manual expansion by selecting eTools > Expand All.
By default, this option is selected for reports and cleared for input schedules.

Allow users to change options | If selected, non-administrator users can set workbook options on a workbook. If not selected, only administrators can change these options.
By default, this check box is not selected.

To set refresh, recalc, or expansion options
1. From BPC for Excel, select eTools > Workbook Options.
2. In the Workbook Type and Refresh Options section, select or deselect the desired options.
   (See table above.)
3. Leave the defaults, or enter or select the maximum column and row expansion limits.
4. Click OK.

Setting drill-down options
The drill down options control member expansion behavior in the active spreadsheet.

When Expand by Overwriting Rows is selected, the expanded members are displayed in the rows below the expanded member, clearing existing members as needed.

When Expand by Inserting Rows is selected, any rows below the expanded member are shifted down, and new rows are inserted to accommodate the newly displayed members.

Setting maximum expansion limits
For performance purposes, this option allows you to set a maximum number of rows and columns to return when the row or column in the report or input schedule dynamically expands.

Excel has a limit of displaying 65,000 rows, but this option allows you to set the maximum at 1000 or 2000, 10,000 or 20,000, or type a desired value. The Excel limit for columns is over 256, so you can set the column maximum at 100, 200, or type a desired value.

By default, reports and input schedules are set to return up to 1000 rows, and up to 100 columns.

Dynamic expansions include the EvEXP, EvENE, and EvNXP functions.

Overriding current view settings
When you open a BPC report or input schedule in BPC for Office or BPC Web, the data changes based on your current view. If you want an active workbook to always open to specific members, you can override one or more of the current view members.

If there is an Ev function in the cell, the system evaluates its values before reading the "Override current view" value. For example, say an EvGET function references the Finance application, and Entity on the rows, and Accounts on the columns. When the system determines whose values to return, it looks at the override current view values for all other dimensions except Entity and Account. If no members are specified, the system returns the values from the current view.
To override current view settings

1. From BPC for Excel, open the report or input schedule in which you want to override its current view settings.

2. Find an empty place on the workbook where you can enter some data in two columns. One column is for the member names and one column is for the member values.

3. In the column designated for member names, enter the names of the members you want to hard code. In the column designated for member values, enter the values of the members you want to hard code. (Hide these columns, if desired.)

4. Select eTools > Workbook Options.

5. On the worksheet, select the two-column range of cells that represents the current view settings, then click Add.

   Click the Remove button to remove the range.

6. Click OK.

Saving the active session CV with workbook

This option allows you to save the active current view with the workbook.

This is particularly useful when you have multiple reports open for which you want to see different current views. Rather than using the active session current view for all three reports, you select, then save the desired current view with each workbook. When you switch between the reports, a unique current view will be used for each.

Setting the BPC workbook password

You can set a BPC password on the workbook. A BPC password is required when the report or input schedule is distributed or collected using the Offline Distribution Wizard.

The BPC password is different than native Excel's workbook password. If you use the Excel password to secure a workbook, BPC expansions may not work properly.

To set the BPC password

1. From BPC for Excel, select eTools > Workbook Options.

2. From the Worksheet Password section, click the Set Worksheet Password button.

3. Type the old password (if a password was previously defined), then type and retype the new password.

4. Click OK, then click OK again.

Reviewing the lock or unlock status

The Workbook Options dialog shows whether the current workbook is locked or unlocked. If locked, the report or input schedule has been locked down using the Park N Go feature. The Park N Go feature allows you to work with the data offline. See Using Park N Go.

To review the lock or unlock status

- Look in the Lock Status section of the Workbook Options dialog box.

Read options for comment

This field is used for cell-based comments. If an EvCOM function returns a specific comment value, you can have it displayed as text in the cell or in an Excel comment pop-up box.
### Setting workbook options using VBA

There are several VBA variables you can use in the Microsoft Excel `Name` object to define workbook options. In order to apply these to the workbook, you should be familiar with VBA programming.

The following table shows the variables available.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Example values</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV__EXPOPTIONS__</td>
<td>The drill down options control member expansion behavior in the active spreadsheet.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0: (Expand by Overwriting Rows) - The expanded members are displayed in the rows below the expanded member, clearing existing members as needed. normal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1: (Expand by Inserting Rows) - Any rows below the expanded member are shifted down, and new rows are inserted to accommodate the newly displayed members.</td>
<td></td>
</tr>
<tr>
<td>EV__LASTREFTIME__</td>
<td>Displays the time of the last refresh (EVRTI function)</td>
<td>&quot;2005-07-15 10:38:24&quot;</td>
</tr>
<tr>
<td>EV__LOCKEDCVW__&lt;appname&gt;</td>
<td>Used to lock the current view in the specified application.</td>
<td>&quot;NetIncome,ACTUAL,Input, Sales, Non_InterCo,LC, 2004.TOTAL, PERIODIC,&quot;</td>
</tr>
<tr>
<td>EV__LOCKSTATUS__</td>
<td>Used to specify the Park N Go status.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1: Live data and static current view</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: Static data and static current view</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: Off-line workbook</td>
<td></td>
</tr>
<tr>
<td>EV__MAXEXP_COLS__</td>
<td>Used to specify the maximum number of columns for expansion.</td>
<td>100</td>
</tr>
<tr>
<td>EV__MAXEXP_ROWS__</td>
<td>Used to specify the maximum number of rows for expansion.</td>
<td>1000</td>
</tr>
<tr>
<td>EV__MEMORYCVW__</td>
<td>Used to specify if the current view in the workbook is memorized.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0: Do not memorize</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1: Memorize</td>
<td></td>
</tr>
<tr>
<td>EV__WBEVMODE__</td>
<td>Used to specify the workbook mode:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0: Report</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1: Input schedule</td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Example values</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>EV__WBREFOPTIONS__</td>
<td>Used to specify refresh and expand options:</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>1: Recalc workbook on worksheet update</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: Recalc workbook on worksheet open</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: Recalc on CurrentView change</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8: Refresh after data send</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16: Expand on workbook open</td>
<td></td>
</tr>
<tr>
<td></td>
<td>32: Expand on CurrentView change</td>
<td></td>
</tr>
<tr>
<td></td>
<td>134217728: Allow users to change options</td>
<td></td>
</tr>
<tr>
<td>EV__WBVERSION__</td>
<td>The internal flag for avoiding the name object problem in European</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>environment.</td>
<td></td>
</tr>
</tbody>
</table>

**Copying/pasting member lists**

You can copy one or more members from the Member Lookup and paste them into a spreadsheet. This feature is useful when you are creating journal entries or input schedules.

💡 You can quickly access the member selector by right-clicking any cell in a BPC worksheet, selecting **Select Members**, then selecting the dimension for which you want to view members.

**To copy and paste a member list**

1. From BPC for Excel, open the report, input schedule, or journal template in which you want to insert the members.
2. Open the Member Lookup for the applicable dimension. See **Using the Member Lookup**.
3. Select one or more members. To select multiple members do one or more of the following (not applicable when copying/pasting members for journal entries):
   - Select one or more check boxes next to the member.
   - Select a member, then to select the siblings of the selected member, select **Select sibling members of the selected member**.
   - Select a member, then to select the children of the selected member, select **Select all children of the selected member**. To determine how children are selected (children only directly below the selected member or all descendents), see **Using the Member Lookup**.
   - To deselect siblings or children, right-click the member, then select the **Deselect sibling (or children) members of the current member**.
4. Click the **Copy Members** button ![Copy Members](image), then do the following in the **Copy Members** dialog box:
   a. Select **in rows** to place the members on the rows, or select **in columns** to place the members on the columns.
   b. Click **Reverse order** to reverse the order of the member list.
   c. Select the **After copy, return to the workbook** check box to close the Member Lookup when you click **OK**.
   d. Click **OK**.
5. Click **Close** to close the Member Lookup.
6. Select the first cell in which you want to place the member(s).
7. Select Edit > Paste to paste the member(s).

**Setting work status**
You can set a work status on a data region to which you have member access.

**To set work status**
1. Start BPC for Excel, and open any input schedule.
2. From the Schedule Options action pane, select Submit & manage data.
3. Select Set work status.
4. From the What is the work status data region? field, select one of the following:
   - The active CV. The work status is applied to the active current view.
   - Another CV. The work status is applied to a current view that differs from the active current view. From the Set work status for this CV table, select a member for each dimension. To find members using the Member Lookup, click a dimension:member link. See About the Member Lookup.
5. Click the Next button.
6. In the Should children of this data region be included? field, select Include children in the data region if you want the work status change to apply to the members you previously selected and their children. Otherwise, leave blank.
7. In the What would you like to set as the work status? field, select the desired setting from the drop-down list.
8. Click the OK button.

**Using dimension locks**
When you set dimension locks on a report, the dimension members that are locked are displayed in the action pane as non-editable.

**To use dimension locks**
2. Select the application from the list in the action pane. The dimension fields for the selected application is displayed below the application field.
3. If you want to change a dimension member, use the member drop-down list to select another member, or click more... to open the Member Lookup.
4. If you want to lock a dimension member, select the check box to the left of the dimension name. To unlock a dimension member, select the check box next to the dimension name to remove the check.
5. When you are done, click the green check in the lower right corner of the Worksheet Dimension Lock Options action pane.

**Using reports**
The following table lists the tasks you can perform on reports.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill down</td>
<td>See Using drill down</td>
</tr>
<tr>
<td>Drill through</td>
<td>See Using drill through</td>
</tr>
<tr>
<td>Publish Information</td>
<td>See Publishing and distributing data</td>
</tr>
</tbody>
</table>
Creating reports

There are several ways to create reports using BPC for Excel. The easiest way to create a report is to use the drag & drop feature. You can also select one of the provided BPC templates and modify it. The BPC templates were built to support a variety of reporting needs, and are highly customizable.

About creating reports

BPC provides several ways to create new reports. You can start with a blank workbook, use drag & drop to quickly create a report format, or start from an existing report or template.

In addition to creating reports from an existing report, you can convert any Excel workbook to a BPC report. You do this by adding BPC functions to the worksheet. For example, for any value you want sent to, or retrieve from the corporate database, use a BPC function to link that value to the database. You can retrieve the value from the database using the EvGET function, send the value to the database using the EVSEND function, or retrieve the current value, but send a different value back to the database using the EvINP function. For information on these and other functions, see BPC functions and formulas.

Creating new reports

You can create a new report in several ways. The following table describes the available methods:

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open a blank workbook</td>
<td>Opens a blank Excel workbook.</td>
</tr>
<tr>
<td>Build a report using drag n drop</td>
<td>Allows you to set up rows and columns using a drag and drop interface.</td>
</tr>
<tr>
<td>Build a report using a dynamic template</td>
<td>Allows you to select a report template from the application set's report library.</td>
</tr>
<tr>
<td>Open an existing report</td>
<td>Allows you to select a report template from the server library.</td>
</tr>
<tr>
<td>Open a report from My Reports folder</td>
<td>Allows you to select a report template from your My Reports folder.</td>
</tr>
</tbody>
</table>

To create a new report

1. From BPC for Excel, select Reporting & Analysis from the Getting Started action pane.
2. From the Reporting & Analysis Options action pane, select the desired method for creating your report (see table above).
3. Build the report, as desired.
4. Save the report. See Saving reports.

Accessing report templates

BPC provides several templates with its sample application set, ApShell. You can choose the template you want to use, and then customize it to meet your needs.

The following table describes the provided templates. Since administrators can save any report as a template, your application set might contain a different set.

<table>
<thead>
<tr>
<th>Template name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparative</td>
<td>The Comparative template is typically used for variance reporting. You can use any dimension on the rows, and the Category and Time Period dimensions are on the columns.</td>
</tr>
<tr>
<td>Trend</td>
<td>In the Trend template, you can use any dimension in the rows. The Time Period dimension is in the columns.</td>
</tr>
<tr>
<td>Consolidating</td>
<td>In the Consolidating template, the columns contain the Entity dimension, and you can place any dimension on the rows.</td>
</tr>
<tr>
<td>Any by Any</td>
<td>In the Any by Any template, you can use any dimensions on the rows and columns.</td>
</tr>
<tr>
<td>Drill In Place</td>
<td>The Drill In Place template gives an example of how you can drill down on members in a report by inserting new rows and maintaining previous drill-downs on the same sheet.</td>
</tr>
<tr>
<td>Sort and Rank</td>
<td>The Sort and Rank template contains a sort and rank table and pie chart.</td>
</tr>
<tr>
<td>% of Total</td>
<td>The % of Total template can contain any dimension on the rows and columns. It has a %Total column, based on the last member in the row.</td>
</tr>
<tr>
<td>Graph-Comp</td>
<td>The Graph-Comp template contains a bar chart, and is used to compare two categories in two time periods. You can drill down on non-base level members.</td>
</tr>
<tr>
<td>Graph-Consol</td>
<td>The Graph-Consol template contains a pie chart. You can drill down on non-base level members.</td>
</tr>
<tr>
<td>Free-Form Anything</td>
<td>In the Free-Form-Anything report, you can use any dimensions in the rows and columns. This template is designed for ad hoc analysis. You can manually type the members in the rows and columns.</td>
</tr>
<tr>
<td>3 Cat-Comp</td>
<td>In the 3 Cat-Comp template, you can use any dimension in the rows, and three Categories/Time Periods on the columns.</td>
</tr>
<tr>
<td>Year over Year</td>
<td>The Year over Year template is used for year-to-year comparisons.</td>
</tr>
<tr>
<td>Nested Row</td>
<td>The Nested Row template contains two nested dimensions on the rows and one dimension on the columns.</td>
</tr>
<tr>
<td>Double Expansion</td>
<td>The Double Expansion template allows you to drill from one dimension to another in the rows.</td>
</tr>
<tr>
<td>FX Verification</td>
<td>The FX Verification template provides the ability to verify the results of currency translation, and check rates in the Rate application. This may not work for all applications.</td>
</tr>
</tbody>
</table>

To access a report template

1. From BPC for Excel, select Reporting & Analysis from the Getting Started action pane.
2. Select **Build a report using a template**, then select the desired template.
3. Select a template, then click **Open**.

**Saving reports**

After you create a new report using the Report Wizard, or modify a preexisting report, you can save it. You can save reports locally, or save them as a template on the server (if you have administrator rights).

**Saving reports locally**

We recommend that you save all report copies locally, so you have instant access to the reports you need if you do not have access to the server.

**To save a report locally**

1. From the BPC report you want to save, select **Save to My Reports folder** from the action pane (or select **eAnalyze > Save My Reports**).
2. At the lock down prompt, select **Yes** if you want to lock down the current view and/or data, or select **No** if you want the report to continue to show live data. If you selected **Yes**, select a Park N Go option. See **Using Park N Go**.
3. Enter a name for the report, then click **Save**.

   ![The default folder is the Report folder on your local drive.](image)

**Saving a report as a template**

If you modify an existing report template or create a custom report, you can save it as a template for future use. Only administrators with the appropriate rights can save templates on the server. However, you can modify a template and save it locally for your own use.

If you make a change to an existing template and save it to the server, you should increment the template version number so that the new template can be downloaded to all client machines that access the server. See **Admin Help** for more information.

**To save a report as a template**

1. From the BPC report you want to save as a template, select **eTools > Save Template Library**.
2. Type a name for the report template, then click **Save**.
3. Make the template available for downloading to the BPC client on the user machines by incrementing the template version number. You can change the version number from the Admin Console, or from the Set application parameters page in the **TEMPLATEVERSION** field. See **Admin Help** for more information.

**Using Drag & Drop reporting**

Drag & drop reporting lets you create reports using a graphical interface versus developing reports using BPC for Excel functions.

With drag & drop reporting you have the ability to create a report using a graphical user interface for Excel. You can start from a worksheet, or edit an existing report or input schedule provided that it was built using EVDRE functions.

**Building reports using drag & drop**

You can build reports in BPC for Excel using a drag & drop interface.

**To build a drag & drop report**

1. Select **Reporting & Analysis** from the **Getting Started – BPC for Excel** action pane.
2. Select **Build a report using drag & drop** from the **Reporting & Analysis Options** action pane.
3. Click **OK** to create a new report.

4. From the action pane, click the Data Grid object and drag it to a desired cell in the worksheet. This will place the top-left corner of an EvDRE data grid on the selected cell.

5. To modify this report, select **Start designing**. The new report automatically contains the TIME dimension on the columns and the ACCOUNT dimension on the rows.

6. From the **Dimensions** list in the **EvDRE Design Options** action pane, click any available dimension name and drag it to either column or row area. This will nest the dimension if one already exists on the columns or rows. To remove a dimension, right click on the dimension name block and select **Remove Dim**. You can only remove dimensions when more that one exists on either your columns or rows.

7. Select the **Include description** check box if you want to include the dimension description in the grid.

8. Select **Edit MemberSets** to select members for the dimension.
   - From the **EvDRE Edit MemberSets** action pane, select the dimension for which you want to define members, then select one of the following options:
     - **Add Members List** - To define the members for the dimension using the Member Lookup. See **Using the Member Lookup**.
     - **Add Member Selection Rules** - See step 9.
     - **Clear MemberSet** - To clear the members and start over.
     - **Save Changes** - To save your changes.

9. If you selected **Add Member Selection Rules**, choose one of the following selection options, a default member, then click the **✓** button.
   - **SELF** (the selected member(s) only)
   - **ALL** (the selected member(s) and dependents)
   - **BAS** (base level only of selected)
   - **DEP** (dependents only of the selected member(s))
   - **BASEMEMBERS** (all base member(s) for the dimension)
   - **MEMBERS** (all dimension members)
   - **NOEXPAND** (the selected member(s) only with no expansion options)

10. To preview the report with the specified members, click **Preview Report** from the **EvDRE Design Options** action pane.

11. To apply special formatting options to this data grid, click **Set options**. For more information, see **Defining options**.

12. Repeat steps 6 to 11 for all other dimensions in the report.

13. When you are finished, keep clicking the **✓** button until you are back to the **Report State** action pane.

14. Save your report by selecting **Save to My Reports** folder from the action pane.

---

**Editing existing reports**

You can edit existing reports using drag & drop functionality. Existing reports can be saved to the server or your local machine (your **My Reports** folder).

**To edit an existing report**

1. Select **Reporting & Analysis** from the **Getting Started – BPC for Excel** action pane.

2. From the **Reporting & Analysis Options** action pane, select **Open an existing report** for a report stored on the server or **Open an existing report from My Report folder** for a report stored on your local machine.

3. Select the name of the report from the dialog box, then click **Open**.
4. Select **Edit report using drag & drop** from the **Report Tasks** section of the action pane.

5. If there are multiple EvDRE grids on the report, select **Search** from the **Drag & Drop Options** action pane. Double-click the sheet/address for the EVDRE report you want to modify, then click then click the ✔️ button.

6. To modify this report, select **Start designing** in the **Drag & Drop Options** action pane.

7. See **Building reports using drag & drop**, starting with step 6.

**Creating input schedules**

BPC provides several ways to create input schedules using BPC for Excel. The easiest way to create an input schedule is to select one of the provided BPC templates and modify it. The BPC templates are built to support a variety of data input needs, and are highly customizable.

**Creating new input schedules**

BPC provides several ways to create new input schedules. You can start with a locally-saved schedule, a standard BPC input schedule template, or a custom template that your company created.

In addition to creating input schedules from an existing input schedule, you can convert any Excel worksheet to a BPC input schedule. You do this by adding BPC functions to the worksheet. For example, for any value you want sent to or retrieve from the corporate database, use a BPC function to link that value to the database. You can retrieve a value from the database using the EvGET function, send the value to the database using the EvSND function, or retrieve the current value, but send a different value back to the database using the EvINP function. For information on these and other functions, see **BPC functions and formulas**.

**To create a new input schedule**

1. From BPC for Excel, select **Data input** from the Getting Started action pane.

2. From the **Data Input Options** action pane, select one of the following:
   - **Open a schedule** to open a public or privately saved input schedule. Then select **View public schedules** or **View private schedules**, select the desired schedule, then click **Open**.
   - **Open a blank workbook** to start with a blank Excel workbook.
   - **Build a schedule using drag & drop** to set up the rows and columns using a drag n drop interface.
   - **Build a schedule using a template** to select a template from the application set’s report library.

3. To build the schedule, select the desired options from the **Schedule Options** action pane. See **Schedule Options Help**.

4. Enter data in the schedule, then send the data. See **Submitting input data**.

5. Save the schedule. See **Saving input schedules**.

**Accessing schedule templates**

BPC provides several templates with its sample application set, ApShell. You can choose the template you want to use, and then customize it to meet your needs.

The following table describes the provided templates. Since administrators can save any schedule as a template, your application set might contain a different set. All of the templates use the EvSND function to send data. See **EvSND**.
### Template name | Description
--- | ---
Account Trend | The Account Trend template contains Account members on the rows and Time Period members on the columns.
Comparative | The Comparative template contains Account members on the rows, and Category members on the columns. There is also a column that calculates the variance.
Entity Trend | The Entity Trend template contains Entity members on the rows, and Time Period members on the columns.
Consolidating | The Consolidating template contains Account members on the rows and Entity members on the columns.
Nested Row | The Nested Row template allows you to choose the dimensions and members on the rows and columns. You can select two dimensions to nest on the rows.
Any by Any | In the Any by Any template, you can use any dimensions on the rows and columns.
Free Form | The Free Form template allows you to select any dimensions for the rows and columns. It contains no expansion functions.

### To access a schedule template
1. From BPC for Excel, select **Data input** from the **Getting Started** action pane.
2. Select one of the following:
   - **Open an existing schedule** (opens the Open dialog box to the server reports folder)
   - **Open an existing schedule from My Reports folder** (opens the Open dialog box to the local reports folder)
3. Select a template, then click **Open**.

### About the schedule library
The schedule library contains input schedules created by your administrator. They have been set up to meet your company's requirements, and in most cases can be used with no modification.

The input schedules are organized in folders that are typically categorized by type. Administrators can add folders under the application they administer, and perform actions on input schedules contained in those folders.

### To use the schedule library
1. From BPC for Excel, select **Data Input** from the **Getting Started** action pane.
2. Select **Open an existing schedule**.
3. Browse to the desired folder, and highlight it.
4. Do one of the following:
   - To open the selected report or template, click **Open**.
   - To delete the selected file or template, right-click it, then select **Delete**.
   - To copy the selected file or template, right-click it and select **Copy**, right-click inside a new folder and select **Paste**.
   - To move the selected file or template, right-click it and select **Cut**, right-click inside a different folder and select **Paste**.
• To create new folder, select the folder you want to use as the parent folder, click the **New Folder** button, then type the name of the new folder.

You cannot cut, copy, or paste folders.

---

**Saving input schedules**

Whether you created a new input schedule, used an input schedule template or used the input schedule wizard you can save the input schedule for future use. You can save input schedules locally, or you can save them as templates (if you are an administrator).

**Saving input schedules locally**

When you save input schedules on your local machine, they are not accessible if you log on to BPC from another machine.

**To save an input schedule locally**

1. From BPC for Excel, open the input schedule you want to save, then select **eSubmit > Save My Schedule**.
2. If you have not locked down the data, a message is displayed. To lock down your data, click **Yes**. The **Park N Go** dialog box is displayed. Select **Lock down current view only** or **Lock down data and current view**, then click **OK**. See **Using Park N Go**.
3. In the **Save As** dialog box, enter a name for the input schedule.
4. Choose a directory in which to save the input schedule, then click **Save**.

**Saving input schedules as templates on the server**

You can modify an existing input schedule template and save it on the server. Only administrators can save templates on the server, but anyone can modify an input schedule template and save it locally. (See the procedure above for saving an input schedule locally.)

**To save an input schedule as a template**

1. From BPC for Excel, open the input schedule you want to save, then select **eTools > Save Template Library**.
2. Select a folder in which to save the input schedule template.

   The default folder is a BPC folder on your local drive.
3. Enter a name for the report template, then click **Save**.

**Using input schedules**

You use BPC's input schedules to enter data for submission to a central database.

**About using input schedules**

You use input schedules to enter data for submission to a central database. The following steps describe a typical workflow for using input schedules in BPC:

1. From BPC for Excel, a user enters the required data in an input schedule template. See **Accessing input schedules**.
2. The user validates the data. See **Validating data**.
3. The user submits the input schedule for review, along with any supporting documents. See **Submitting input data**.

   In BPC, the data and supporting documents contained in a data submission is called a "package."
4. User changes the work status to *Submitted*. See *Changing the work status code*.

**Submitting input data**

Data can be sent to the database as often as needed. When you are ready to submit your data for review you can lock the data by performing a final send, validating the data, and changing the package status to *Submitted*. See *Changing the work status code*. This topic describes how to enter data in an input schedule, and then submit it.

BPC provides two custom Ev functions that send data to a database: EVINP and EVSND.

- **EvINP** allows you to enter a value directly in a cell. That value is sent to the database when you send the data to the database. See *EvINP*.
- **EvSND** references another cell in the schedule and send the value in the cell to the database. With the EvSND function, you can send calculated values to the database. See *EvSND*.

**To submit input data**

1. From BPC for Excel, open the input schedule that you want to use. See *Accessing input schedules*.

2. Enter data in the appropriate cell(s). (Input cells vary from schedule to schedule, so you should follow the instructions for inputting data provided by your administrator.)

When entering data in an input schedule, you must set the current view to all base level members in the hierarchy for each dimension. You cannot submit data to the database when one or more of the dimensions is at a parent level.

3. Select **eSubmit > Send and Refresh Schedules**.

You can also send and refresh input schedules using the BPC toolbar or by right-clicking a cell and selecting **Send and Refresh Schedules**.

4. In the **Send and Refresh Schedules** dialog box, do one of the following:
   - Select **Active worksheet** to only send input data from the active worksheet.
   - Select **Active workbook** to send input data from the entire workbook.

The option in the **Expanded Send and Refresh Schedules** dialog box determines whether the submission also performs a refresh after the data is sent (Click **Options** to expand the dialog box.) The refresh schedules option refreshes any cells that use the EvSND, EvINP, and EvGET functions. It also clears the input value from any EvSND input cell (the cell that EvSND references).

- **Refresh after schedule is sent** check box is selected, the submission refreshes the data in the input schedule. If cleared, the data is not refreshed. You can click the **Reset to default** button to change the option to the default, as defined in the workbook options. See *Setting workbook options*.

5. Click **Refresh**.

**Using modeling options**

While creating an input schedule, you can use several modeling options to help input your numbers. BPC for Excel provides three modeling options:

- **Spread**. Takes a value and spreads it among selected cells.
- **Trend**. Takes a value and grows it by a factor among selected cells.
- **Weight**. Allocates an amount to the selected cells, weighted by the values in those cells.

**Spread**

The **Spread** option allows you to take a value and allocate it among selected destination cells. The value can be allocated equally, or it can be weighted by a range of weights. For example, you can take the value 100,000 and spread it across a number of columns that represent each month of the year.
To use the Spread option

1. From BPC for Excel, open an input schedule. See Accessing input schedules.
2. From the eSubmit menu, select Spread.
3. In the Source Value field in the Spread dialog box, enter or select from the spreadsheet the total value you want to spread.
4. In the Destination field, specify where to place the results by selecting the cells in the spreadsheet.
5. (Optional) In the Weights field, enter or select a range containing weight values to apply to the spread. If supplied, this range must contain the same number of cells as the destination range.
6. (Optional) Select the Add to Existing Values check box to add the spread amount to preexisting cell values in the destination range. If cleared, the amount spread to each cell overwrites any values in the destination cells.

The Source Value, Destination, and Weight fields all use a special control that allows you to select an Excel range.

**Trend**
The Trend option takes a value and grows it by a factor among selected cells. The source value is placed in the first cell of the destination range. Each subsequent cell in the destination increases by the amount specified.

To use the Trend option

1. From BPC for Excel, open an input schedule. See Accessing input schedules.
2. From the eSubmit menu, select Trend.
3. In the Source Value field in the Trend dialog box, enter or select from the spreadsheet the initial value from which the trend begins.
4. In the Destination field, enter or select from the spreadsheet a range of cells to which to write the results of the trend.
5. In the Increase Trend field, select one of the following, then enter a percentage or numeric value.
   - **By Percentage.** By Percentage increases each value by a specified percentage of the previous value (previous cell) in the destination range. To create a declining trend, enter a negative percentage.
   - **By Value.** By Value increases each value by a specified amount over the previous value (previous cell) in the destination range. To create a declining trend, enter a negative value.
6. Select the Add to Existing Values check box to take the spread amount to each cell and add it to any existing values already in the destination range. If not selected, the amount spread to each cell overwrites the amounts in the destination cells.

**Weight**
The Weight option lets you allocate an amount by weighted factors in your spreadsheet. It allows you to take an amount, grow it if desired, and then allocate the new amount based on the relative weights of the selected cells. The destination range is the same as the weight range, (that is, the weights will be overwritten with the newly allocated amounts.)

**Calculation Steps**

1. The Weighted Allocation process takes the initial Sum to Allocate value.
2. It increments the sum by the specified percent or value if specified.
3. It calculates the base total by summing the Weighted Destination range.
4. For each cell in the range, it calculates the percentage of that cell to the base total, and allocates the appropriate portion of the new Sum to Allocate to that cell.
To use the Weight option

1. From BPC for Excel, open an input schedule. See Accessing input schedules.
2. From the eSubmit menu, select Weight.
3. In the Sum to Allocate field of the Weight dialog box, enter the initial sum from which the allocation begins. This amount defaults to the sum of the selected cells.
4. In the Weighted Destination field, select a range of cells that contain relative weights, to which the results of the allocation are written.
5. In the Increase Sum to Allocate By field, select one of the following, then enter a percentage or numeric value.
   - By Percentage. Increases the overall sum to allocate by the specified percentage before allocating.
   - By Value. Increases the overall sum to allocate by the specified value before allocating.
   - None.

Validating data submissions

Before submitting data to the database, you should validate it. Validating your data ensures that it passes validation rules set up the administrator. If the validation rules are not met, you cannot change the work status of your data submission.

In order to use the data submission validation feature, work status must be enabled for the applicable entity hierarchy, and validation rules must be defined on a special account, called Validation.

If work status tracking is enabled and validation rules are defined, the system automatically checks the validation rules when you attempt to submit your data without manually validating it.

To validate a data submission

1. From BPC for Excel, Word, or PowerPoint, enter input data and submit the input schedule to the database. See Submitting input data.
2. From the action pane, select Submit & manage data, then select Validate submission before sending. (You can also select eSubmit > Validate submission before sending.)
3. A confirmation message is displayed. If the data did not pass validation, select Yes to run the validation report, or No to continue working in the input schedule.

   The validation report tells you why your data failed validation. Validation reports are created by your administrator.

Changing the work status code

As part of BPC ‘s data submission and tracking process, you can change the work status of a data submission so it can be reviewed or locked at the appropriate time.

When you submit the work status code change, the system validates it against the validation rules. See Validating data submissions.

There are three default status codes provided with the sample application set, ApShell. They are Unlocked, Submitted, and Approved. Administrators can rename, add, and delete status codes. See Changing or adding status codes (in Admin Help).

The following table describes the default codes.

<table>
<thead>
<tr>
<th>Status</th>
<th>Definition</th>
<th>Change authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlocked</td>
<td>The original state of data for an entity. This means that the data is still in progress, and the data in the database can be edited.</td>
<td>Owner and manager</td>
</tr>
<tr>
<td>Submitted</td>
<td>The data for an entity has been submitted for review and is locked from editing.</td>
<td>Manager</td>
</tr>
</tbody>
</table>
To change a work status code

1. From BPC for Excel, open an input schedule, and select the current view for which you want to change its work status. See Changing the current view.
2. Select Send Data from the action pane, then select Set work status.
3. Click OK.

Using Park N Go

Park N Go is a feature that allows you to lock the current view, or both the current view and data, in a report or input schedule. You lock the current view when you want to maintain the current view for a particular workbook. You lock the current view and data when you want to protect the data in the report or input schedule from being refreshed.

You can also use Park N Go to take a report or input schedule completely offline.

About Park N Go

You can select from any of the following Park N Go options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set to live data and live current view</td>
<td>The data and the current view in the workbook is live.</td>
</tr>
<tr>
<td>Set to live data and static current view</td>
<td>The data in the workbook is live and the current view is static. Select this option to lock the current view, but keep the data live. See Locking the current view</td>
</tr>
<tr>
<td>Set to static data and static current view</td>
<td>The data and current view in the workbook is static. Select this option to lock both the current view and data in the workbook. See Locking the current view and data</td>
</tr>
<tr>
<td>Set to offline (no connectivity)</td>
<td>The workbook has no connection to BPC. Select this option to take the workbook offline, so remote users can view it. See Taking reports or input schedules offline</td>
</tr>
</tbody>
</table>

Locking the current view

By default, when you open a report or input schedule in BPC for Office, the information changes based on your current view settings. With the 'Live data and static current view' option, you can lock the current view in a particular report or input schedule to keep the current view static.

Locking the current view allows you to share the same data view with other BPC users. For example, you can email the report or input schedule to another user, while maintaining the current view that you have selected. When the receiving user opens the workbook, their current view settings are ignored, and data is loaded into the report based on the locked current view. The report data remains live, but the current view is static.

After you lock the current view of the report or input schedule and save it to your local report or schedule library, respectively, you can do a number of things with it. For example, you can email it to another user,
publish it to BPC Web, or distribute it using the Distribution Wizard (if you have the appropriate administrator rights).

You can unlock the current view in a report or input schedule when you want the current view to become dynamic again. See **Restoring locked or offline reports or input schedules**.

The Park N Go icon on the BPC for Excel toolbar visually lets you know when the current view is locked. If the icon is a closed lock, the current view is static. If the icon is an open lock, the report contains live data and the current view is not locked.

This procedure describes how to lock the current view of a report or input schedule at any time. You are also automatically prompted to select a Park N Go option when you save a report or input schedule using **Save My Reports** or **Save My Schedule**, respectively.

**To lock the current view**

1. From BPC for Excel, open the report or input schedule whose current view you want to lock.
2. From the **Report** or **Input Schedule Options** action pane, select **Park N Go**.
3. Select **Set to Live data and static current view**, then click **OK**.
4. Save the workbook. To save the report to your local library, select **eAnalyze > Save My Reports** to save a report, or select **eSubmit > Save My Schedule** to save an input schedule.

**Locking the current view and data**

Locking the current view and data of a report or input schedule allows you to work with it in the offline version of BPC for Excel. This means that you can make changes to the report or input schedule when you are disconnected from the server, then bring it back online. For example, you can lock the current view and data, then work with it remotely, say, on an airplane, and then return it to its online state when you are back at the office.

After you lock the current view and data of the report or input schedule and save it to your local report or schedule library, respectively, you can do a number of things with it. For example, you can work with it offline (see **Working on the offline client**), email it to another user, post it to BPC Web, or distribute it using the Distribution Wizard (if you have the appropriate administrator rights). When using an input schedule offline, users can send data from a locked input schedule to the database. If you want to take the report or input schedule completely offline so you can send it to a remote user, see **Taking reports or input schedules offline**.

The Park N Go icon on the BPC for Excel toolbar visually lets you know when the data and/or current view is static. If the icon is a closed lock, the data and/or current view is static. If the icon is an open lock, the report contains live data and a live current view.

When you attempt to save a live report or input schedule using Save My Reports or Save My Schedule, respectively, you are prompted to specify a Park N Go option. In addition, you can lock the report or input schedule at any time using the procedure in this topic.

When you use the Offline Distribution feature to distribute a report or input schedule, the report or input schedule automatically becomes static. See **Distributing and collecting offline data**.

**To lock the current view and data**

1. From BPC for Excel, open the report or input schedule in which you want to lock the current view and data.
2. From the **Report** or **Input Schedule Options** action pane, select **Park N Go**.
3. Select **Set to Static data and static current view**, then click **OK**.
4. If you are locking the current view and data in a report, go to step 5. If you are locking an input schedule, prompts relating to sending input data are displayed. See **Submitting input data**.
5. Save the workbook. To save the report to your local library, select **eAnalyze > Save My Reports** to save a report, or **eSubmit > Save My Schedule** to save an input schedule.
Taking reports or input schedules offline

You can take a report or input schedule offline if you want to send the workbook to remote users. Remote users can look at published information and enter data in an offline report or input schedule, but do not have authorization to update or view unpublished data. Remote users do not have access to BPC for Excel.

After a report has been taken offline, you can bring it back to its live state when you want to work with it in BPC for Excel (as long as there are no significant changes to the format). See Restoring locked or offline reports and input schedules.

To lock down the current view and data

1. From BPC for Excel, open the report or input schedule in which you want to lock the current view.
2. From the Report or Input Schedule Options action pane, select Park N Go.
3. Select Set to Offline (no connectivity), then click OK.
4. If you are taking a report offline, go to step 5. If you are taking an input schedule offline, prompts relating to sending input data are displayed. See Submitting input data.
5. Save the workbook. To save the report to your local library, select eAnalyze > Save My Reports to save a report, or eSubmit > Save My Schedule to save an input schedule.

Restoring locked or offline reports and input schedules

You can restore a report or input schedule that has been taken offline, or whose current view and/or data has been locked, back to a live report in BPC for Excel.

![Image](image.png)

Workbooks that have been taken offline can only be brought back to their live state when there have been no significant changes to the format.

To restore a locked report or input schedule

1. From BPC for Excel, open the locked or offline report or input schedule. See Accessing reports.
2. From the Report or Input Schedule Options action pane, select Park N Go.
3. Select Set to Live to make the data and current view live again.

Using the Member Lookup

You use the Member Lookup to select specific members to use in reports, input schedules, journals, member security definitions, and data management packages.

About the Member Lookup

The Member Lookup allows you to select specific members to use in reports, input schedules, journals, member security definitions, and data management packages. From BPC for Excel, you can use it to copy and paste member lists into spreadsheets.

The following table describes the items in the Member Lookup and the tasks you can perform with it.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member Hierarchy/Table data view</td>
<td>To select a member, highlight that member and click OK. If this section is disabled, All members in dimension is selected, and all members will be returned to the report/input schedule upon clicking OK. You can select the check box next to one or more members to copy them to the active spreadsheet. See Copying members to clipboard, below.</td>
</tr>
<tr>
<td>Selection tab</td>
<td>When Single Highlighted value is selected, the member that is highlighted is returned. When All members in dimension is highlighted, the tree/table is disabled, and all members of the dimension are returned upon clicking OK.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Filter tab</td>
<td>This tab allows you to specify specific members to display in the Member Table view. You select a property, an operator, and a value, then click <strong>Apply</strong> to apply your changes to the current list. You can specify filter on one or more properties. If you define a filter, the members can only be displayed in Table data view (not hierarchical).</td>
</tr>
</tbody>
</table>
| Data View                        | • Select **Hierarchy** to see the members in a hierarchical structure.  
• Select **Table** to view members in alphabetical order in a flat list. |
| Data Elements                    | • Select **ID** to show only the member ID in the Member Hierarchy/Table view.  
• Select **Description** to show only the member description.  
• Select **ID & Description** to show both. |
| Show selected member’s properties| Displays the properties of the selected members.  
See Viewing member properties |
| Member Lookup options            | Opens the Member Lookup Options dialog box, where you can specify member lookup behaviors.  
See Setting Member Lookup Options |
| Find members                     | Opens the **Member Search** dialog box. Type a member name or leading characters, then click **Search**. When a member is found, it becomes highlighted. Keep clicking the **Search** button to continue looking for matching entries. |
| Copy selected members to clipboard| Copies the members with a check mark to the clipboard. This is useful when you are creating a report/input schedule and you want to paste a list of members into BPC for Excel. |
| Show Property                    | Select the check box, and enter a property value. Only members that use the specified property will be displayed in the Hierarchy/Table view. |

**Accessing the Member Lookup**

There are several ways to access the Member Lookup.

**To access the Member Lookup, do one of the following**

• From the **Session Information** section of the action pane, select the down arrow next to a dimension, then select **more**.  
• From the **eTools** menu, select **Select Members**, then select the dimension whose members you want to view.  
• Right-click any cell in a BPC workbook and select **Select Members**, then select the dimension whose members you want to view.

**Selecting members**

You can select members at any time to display in your report or input schedule. You can only select the dimensions and members to which you have access.
To select a member

1. Open the Member Lookup dialog box. See Accessing the Member Lookup.

2. Select Hierarchy to view the members in hierarchical view, or Table to see the members in a flat list.

3. Select how you want to view details on members:
   - ID Only
   - Description Only
   - Member ID and Description

4. Search for the desired member. You can use the Filters tab to search on specific properties, the Find Members link to search for specific member names, or use the Show Property field to display members that use a specific property.

   *If you define a filter, the members will always be shown in table view (not hierarchy view).*

5. Highlight the member in the list, then click OK.

   *You can select members by double-clicking them if an option is set in the Member Selection Options. See Setting Member Lookup options.*

   *The check mark means that the member has been copied to the clipboard for pasting into a spreadsheet. See Copying/pasting member lists.*

Filtering members by properties

You can filter the member list based on member properties.

To filter by properties

1. From the Member Lookup, make sure the Filtering area is displayed. (If not, click the Show or hide filtering window button.)

2. Select the Use the Filter check box.

3. From the Filter area, select one or more properties on the left, and property values on the right.

4. Click Refresh.

   *To stop filtering for a dimension, clear the Use the Filter check box.*

Viewing member properties

You can view the property values of a selected member. Members that are available for use when creating and modifying reports or input schedules are enabled. Properties that are for information purposes only are disabled.

To view a list of member properties

1. Open the Member Lookup, then do one of the following:
   - Right-click the desired member, then select Member properties.
   - Click the Show selected member properties link.

2. After reviewing the list, click OK to close the Properties dialog box.

Setting Member Lookup options

You can set options that control behavior on the Member Lookup dialog box.
To set Member Lookup options

1. To access the Member Lookup Options dialog box, open the Member Lookup, then select the Options button.

2. In the Double-click Options section, select the check box if you want to select the member and return to the worksheet by double-clicking a member. This option closes the Member Lookup and returns to the active report or input schedule. If unselected, a double-click expand or collapses the member when double-clicked. This option keeps the Member Lookup open.

3. The Select All Children Behavior section determines how members are selected when you use the Copy option to copy one or more members and paste them into your spreadsheet. See Copying/pasting member lists. Do one of the following:
   - Select Select direct children only to only copy the members directly below the selected member.
   - Select Select all descendents to copy all descendents of the selected member.

Using dynamic expansion and drill through

BPC's dynamic expansion functionality adds a level of intelligence to your reports and input schedules that you cannot find in other Business Intelligence software today. Dynamic expansion allows you to dynamically change the members displayed in a report, based on any number of criteria.

About dynamic expansion

BPC's dynamic expansion functionality adds a level of intelligence to your reports and input schedules that you cannot find in other Business Intelligence software today. Dynamic expansion allows you to dynamically change the members displayed in a report by drilling down, based on any number of criteria. Some examples include:

- Expanding by property type (such as by Account Type)
- Expanding by hierarchy (such as Self and Below)
- Expanding by ranking (such as top ten performers)

Dynamic expansion, like other features of BPC, utilizes custom BPC functions, or Ev functions. The expansion functions are EvEXP, EvENE, EvIEX, EvNXP, and EvLST. In addition to these Ev functions there are also other Ev functions (EvPXR, EvVST) that can be used in conjunction with the previously listed functions that make creating expansion formulas flexible and easy. By adding these functions with the correct formula syntax to your reports and input schedules, you turn what was already a dynamic report or input schedule into an intelligent one. See Expansion functions.

Additionally, the system knows when a new dimension member has been added to the application. So when you use expansion formulas in your reports and input schedules, the new member is automatically displayed when a dynamic expansion formula that calls for the member is selected (provided you have updated your dimensions from the server; see Setting client options).

By using dynamic expansion formulas in your reports and input schedules, you reduce the need for maintenance because the formulas intelligently expand to the include the applicable members with the click of a button.

Control panels, which come standard in all sample BPC templates, contain predefined dynamic expansion formulas. Using the control panel, you can select options for the expansion functions without having to write the functions yourself. See Using control panels.

Dynamic expansion example

With dynamic expansion you can do much of your analysis in one report. By just changing the current view of the expansion member you can yield a new set of data. For example, say you have a report with Accounts in the rows. The expansion in this report is based on the AccountType property of the current Account member. The current account is Revenue, an income account, therefore, all accounts with the AccountType INC will be returned in the report body.

If we change the current account member to Salaries, an Expense account, the members displayed in the report body will change to expense accounts. As you can see, you no longer need to have and maintain two reports.
To use dynamic expansion in a report or input schedule, change the current view of the member on which expansion is based. Then select **Expand all** on the eTools menu.

You can also find the **Expand all** command on the BPC for Excel toolbar and on the right-click menu.

**Automatic Expansion**
Dynamic Expansion can be set to automatically expand each time the current view is changed in a report or input schedule.

**To set automatic expansion**
1. From BPC for Excel, open the report or input schedule for which you want to enable automatic dynamic expansion.
2. Select **eTools > Workbook Options**.
3. Select the **Expand on CurrentView change** option, then click **OK**.

**Using drill down**
BPC's drill down functionality lets users drill down on member data within dimensions. You can drill down on any member in a report or input schedule that has dynamic expansion enabled. The member has to have at least one dependent. Upon selecting an expansion member, the spreadsheet automatically displays the immediate dependents of that member.

There is no additional setup necessary to use drill down. As long as expansion is enabled in defined in the report or schedule and a hierarchy-based dimension is contained on the row or column of the report or input schedule, you can use drill down.

In addition to having drill down capabilities on standard reports and input schedules, you can also drill down on charts and graphs. Using charts and graphs enhances your reports and input schedules by offering a visual view of the data. With graphical drill down you can take the visual view one step further by making the chart dynamic. **See Creating graphical drill downs**.

You can access the drill down features from the BPC for Excel toolbar. By using the **Go Back** and **Go Forward** buttons you can quickly move through the drill-down history. The last 20 drills from the current session are saved.

**To drill down on a member**
- From a BPC for Excel report or input schedule, do one of the following:
  - Double-click the member you want to drill down on.
  - Select the member you want to drill down on, then click the **Drill Down** button from the BPC for Excel toolbar.
  - Right-click the cell containing the member you want to drill down on, then click **Drill down**.

To drill down on a graph or chart, click the part of the chart or graph representing the member on which you want to drill down. **See Creating graphical drill downs**.

**Creating graphical drill downs**

Unlike standard data drill downs, graphical drill downs require some setup. The following are prerequisites for graphical drill down:
- The source report must have a hierarchy-based dimension in the row and/or column.
- The member IDs must be used. Graphical drill down does not support member descriptions.
- The chart must be on its own worksheet, and the worksheet must appear immediately after the worksheet with the source data on it.
These instructions cover the basic steps needed to create an Excel chart. For complete instructions, please see Excel help.

To create a graphical drill down

1. From BPC for Excel, open (or create) the report to which you want to add a graphical drill down.
2. Select Chart from the Excel Insert menu.
3. Select the type of chart you would like to use and click the Next button.

   We recommend using pie, column, and bar charts.

4. On the Source Data screen, select the data range. Be sure to include the dimension members for the columns and rows and remember that the dimension member IDs and not the descriptions must be used.
5. On the Source Data screen, select which dimension will be on which axis by selecting the appropriate Series radio button. You can see a preview of how the chart will look in the preview window.
6. On the Series tab you can configure the series axis to look the way you want it to look. Again, as you make changes you will see how they affect the chart in the preview window. Click Next when you are finished.
7. On the Chart Options window you can further customize the chart. Each tab is described below.
   - Titles - Name the chart and axes.
   - Axes - Set up the look of each axis.
   - Gridlines - Add or remove grid lines from the chart
   - Legend - Select a location for the chart legend
   - Data Labels - Set up how the data is labeled (that is, with just the amount or with the amount and label).
   - Data Table - Add a data table to the chart.
8. On the Chart Location window, select the As new sheet radio button, then click Finish.
9. Move the chart worksheet to the immediate right of the worksheet with the source data.

Using drill through

BPC’s drill-through functionality allows you to view data from an external database, the Journals database, or any URL. Drill through is available on any cell that references a dimension member for which a drill through function has been defined. Drill through functions include EvGTS, EvGET, EvDRE, or EvINP.

For example, say your report shows a Revenue account for a particular vendor. You can set up a drill through that references that cell that queries the Sales Information System database and returns the customer orders that make up the values for that account.

The Drill Through option is available on the BPC for Excel toolbar and on the right-click menu. (If a drill through has been set up, the drill through option on the right-click menu is highlighted.)

This topic describes how to use the drill through feature. Drill throughs must be configured by your system administrator. For information on setting up a drill through, see Defining drill throughs in Admin Help.

To drill through on a cell

1. From the BPC for Excel report or input schedule that contains the drill-through link, select the cell.
2. Click the Drill Through button on the BPC for Excel toolbar, or select Drill Through from the right-click menu.
3. Select whether you want to view the results of the drill through in a web browser or Excel.
If there is more than one drill through defined for a cell, a list of drill through keys is displayed. Select one, then click **OK**.

**Using dynamic hierarchies**

You can define dynamic hierarchies in BPC to set up and report on entity hierarchies that cannot be managed by a fixed hierarchy.

**About dynamic hierarchies**

While management reporting entity structures are essentially fixed, and children roll up 100% to their associated parent, "dynamic hierarchies" support the legal structure of statutory consolidations that cannot be managed by a fixed hierarchy. The ownership relationships required for legal reporting may exceed a one-to-one relationship in their reporting structure, or they may change frequently.

There are two scenarios where you should define dynamic entity hierarchies:

- If a child member is owned by more than one parent; or
- The child is partially owned by a parent (not 100%)

You use the Dynamic Hierarchy Editor (DHE) in BPC for Excel to define a dynamic hierarchy entity structure. The Dynamic Hierarchy Editor (DHE) is a graphical tool that allows you to create period-specific hierarchies of corporate entities to use in statutory consolidation, or in cases where hierarchy changes for an application need to be tracked by Category and Time.

First, you should understand some of the requirements for setting up applications and dimensions for use with dynamic hierarchies. There are two general types of applications you can set up for use with dynamic hierarchies: **General** and **Statutory**.

The "General"-type application is one in which hierarchies are tracked for general reporting purposes. The other is a "Statutory"-type application, for which hierarchies need to be tracked for statutory reporting purposes. Statutory applications have an upper-level static hierarchy associated with a Currency-type dimension, typically called "Groups." The static hierarchies exist above the dynamic portion of a hierarchy, which is attached below a base-level member in the static hierarchy. The Groups dimension is used to identify consolidation sequences and for reporting.

**General application requirements**

This topic describes how to set up a general application for use with dynamic hierarchies. First, you need a "main" application, which stores the entity information and is linked to a supporting Ownership-type application where the data is actually stored.

In ApShell, the sample main application is called "LegalApp" and the sample supporting ownership application is called "Ownership".

**Requirements for the "main" application**

- It can be any type of reporting application: **Generic**, **Finance**, or **Consolidation**.
- It must link to a supporting Ownership-type application.
- Required dimension-types: Account (A), Category (C), Time (T), Entity (E), and Currency (R) (often referred to as "Groups").
- Any additional dimensions in the application are supported.
- The **ORG_OWNERSHIPCUBE** application parameter value must be defined. From BPC Administration, log on to the main application, and define the **ORG_OWNERSHIPCUBE** application parameter value. The value is the name of the supporting ownership application. (In ApShell, this value is **Ownership**.)
Requirements for the "ownership" application

- It must contain the following dimension-types:

<table>
<thead>
<tr>
<th>Dimension-type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account (A)</td>
<td>The Account-type dimension must contain an account (the default name is PGROUP) which has a non-zero value for the valid intersections of the Entity and Group dimensions. You must enter the name of this member in the Org_AccountOwn application parameter in the of the ownership application. May also contain other accounts that can be used to store additional information relating to an Entity/Group intersection for a given Category and Time. The set of accounts to display in the Dynamic Hierarchy Editor is controlled by an ORG_ACCOUNTOWN application parameter.</td>
</tr>
<tr>
<td>Category (C)</td>
<td>Must be the same Category dimension used in the main application.</td>
</tr>
<tr>
<td>Time (T)</td>
<td>Must be the same Time dimension used in the main application.</td>
</tr>
<tr>
<td>Entity (E)</td>
<td>Must be the same Entity dimension used in the main application.</td>
</tr>
<tr>
<td>Currency (R)</td>
<td>This is typically referred to as Groups, and defines the parent members used in the dynamic hierarchy. This dimension must have a property named Entity. The property values define the link between the Group dimension member and its corresponding Entity dimension member. These members are the parents that are used in the dynamic hierarchy. For example: Group member ID G_E1 has the Entity property value E1. This means it corresponds to Entity dimension member E1.</td>
</tr>
</tbody>
</table>

- No other dimension-types are supported.
- The following application parameters must be defined:
  - ORG_ACCOUNTLIST - The default value is METHOD, POWN, PCON. These are consolidation accounts used in the dynamic hierarchy. METHOD represents the consolidation method account. POWN represents the percent ownership account. PCON represents the percent consolidation account.
  - ORG_ACCOUNTOWN - The default is PGROUP. This value represents the name of the account that contains the hierarchy information.
  - ORG_INTCO - If an IntCo dimension is included in the ownership application, the ORG_INTCO application parameter must be defined. The IntCo dimension is not required for the definition of a dynamic hierarchy. It may, however, be used for other purposes in statutory applications. If using this dimension for other purposes, you must use a dummy member whose default ID is I_NONE. The name of this member (I_NONE) must be specified in the ORG_INTCO application parameter.

Example

To illustrate the Groups example table above, assume the Entity dimension of the Ownership-type application contains the members E1, E2, and E3. The Currency (Group) dimension contains member G_E1, with the Entity property value E1.

You then designate Entity member E1 as the parent of Entity member E3 (for the Category and Time member values Actual and Jan.06) by making the following entry in the Ownership application:

<table>
<thead>
<tr>
<th>Category</th>
<th>Time</th>
<th>Entity</th>
<th>Group</th>
<th>Account</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL</td>
<td>2006.JAN</td>
<td>E3</td>
<td>G_E1</td>
<td>PGROUP</td>
<td>1</td>
</tr>
</tbody>
</table>
Statutory application requirements

In statutory applications, a dynamic hierarchy can be combined with a static, upper-level portion of the hierarchy representing Groups. This portion of the hierarchy is used to generate statutory reporting or to identify a series of groups for consolidation.

Instead of being controlled by the OWNERSHIP application, the Groups hierarchy is controlled by the dimension property Org_ParentProperty. This property has no default value, meaning the presence of the property enables the Groups hierarchy. The property may be populated with hierarchy information (similar to the PARENTn field), but it does not generate a true OLAP hierarchy of members in the Group dimension.

This is because in statutory applications the Group dimension exists in both the “main” and ownership applications. Therefore, there is a split between the base-level entities (the members of the Entity dimension) and the parent-level entities (the members of the Group dimension). In this case, “parents” in the Group dimension are actually base-level members. These members are used by the Business Rules engine which writes the contribution of each Entity to each Group (using the Entity/Group intersection).

Often the consolidation of each upper level Group begins with the base-level entities. In these cases, the Groups do not need to have a corresponding Entity (as defined in the Entity property), because it would be an unused member in the Entity dimension.

Requirements for the main application

Similar to a general application, you need a "main" application, which stores the entity information and is linked to a supporting Ownership-type application where the data is actually stored. Statutory application types share the same basic requirements as general applications. See Requirements for the main application.

The one major difference is that the supporting Ownership application has a special currency-type dimension, typically called "Groups," that defines specific entity members as parents.

Requirements for the ownership application

Statutory application types share the same requirements as general applications, but in addition, the Account dimension may contain other accounts that can be used to store additional information that relates to an Entity/Group intersection for a given Category and Time. These extra accounts typically are METHOD, PCON, POWN and PCTRL. See Requirements for the ownership application

Creating dynamic hierarchies

You create dynamic hierarchies using the Dynamic Hierarchy Editor provided in BPC for Excel.

To create dynamic hierarchies

1. From BPC for Office, select ePublish > Manage Dynamic Hierarchies. The Dynamic Hierarchy Editor opens.
2. The Tree Settings section at the top of the window shows the Category, Time and Groups setting from the active current view. Use the drop-down menus in these fields to change the Category and Time members for which you want to create a dynamic hierarchy.
3. Use the drop-down menu in the Groups field to specify the member that you want to use as the parent in the hierarchy. If this member is defined as part of a fixed hierarchy for a statutory consolidation, that fixed hierarchy is imported intact into the DHE.
4. Expand the parent member to view any existing children.
5. Select the Show unused radio button on the right side of the Tree Settings section. The word Unused appears below the parent group name. Click the plus sign next to Unused to display the list of all the potential child entities.
6. Using drag and drop, move child entities from the Unused list to the desired position below the parent member. Alternatively, you may highlight a used child member and click the Add Sibling icon from the Actions toolbar on the left of the screen. This displays the Add Sibling window. Select the desired sibling and click OK.
7. When all the child entities have been added, click the Save icon from the Actions toolbar.
8. After you create the desired hierarchy, you can enter detail for each child member, as described in the following section.

**Entering child member detail**

When working with consolidation applications, you can provide consolidation information, such as percent ownership, percent control, percent consolidation, and the consolidation method to the child members. You use the Node Details section of the DHE window to enter this detail.

**To enter child member detail**

1. From the DHE window, select the desired child member.
2. Move your cursor to the **Node Details** section on the lower right side of the DHE window. The columns are determined by the values specified in the **Org_AccountList** application parameter for the ownership application. The default value of this parameter is **METHOD, POWN, and PCON**. If you specified different values in the **Org_AccountList** field, the Node Details table will have different columns. Note that the **ID, DESCRIPTION, and PARENT** fields refer to the selected child member. Select the **Auto Fill Up** check box if you want the selected member's ancestors to appear in the table. (This occurs only if the member is a base-level member. Detail is not entered for non-base-level members.)
3. Enter the desired values in the Node Details table:
   a. In the **Methods** field, double-click to display a drop-down list of valid values. The Methods lookup feature can be enabled by specifying the table name in the **Org_TabMethods** application parameter. The default value of this parameter is **CLCMETHOD**, which is the default table where the options are stored.
   b. In the **POWN** and **PCON** fields enter the desired percentages of ownership and consolidation, respectively.
4. Use the above steps to enter child member detail for each of the child entities in the hierarchy, then click **Save**.
5. To exit DHE and return to BPC for Excel, click the **Exit** button from the toolbar, or click the Close (x) button for the window.

To open BPC for Excel to the current view displayed in DHE, select **Options > Autoset CV** from the DHE menu.

**Deleting a child member**

If you mistakenly added a child member to a hierarchy, you can delete it. Select it and press **CTRL+D** or click the **Delete** icon.

If a deleted member had method, ownership and/or consolidation detail specified for it, that detail remains with the member after it is deleted (the detail is not deleted).

You may display all members that have detail but are not used in a hierarchy. Select the **Show unused with value** radio button on the right side of the **Tree Settings** section.

This function helps assure that you do not forget to attach a member with associated details to a hierarchy.

**Copying a hierarchy**

You can copy an hierarchy to another period.

**To copy a hierarchy**

1. Display the desired hierarchy in DHE. Highlight the parent dimension.
2. Click **Copy**. The **Copy To** window is displayed.
3. Select the Category and Time to which you want to copy the hierarchy and click **Save**. The DHE now shows the specified Category/Time with the new hierarchy.
This feature copies the hierarchy only. Member details from the original hierarchy are not copied. You must enter member details manually for the new Category/Time.

4. Click **Save**.
5. To exit DHE and return to BPC for Excel, click the **Exit** button from the toolbar, or click the Close (x) button for the window.

**Working with large hierarchies**
Large or complex hierarchies may not display easily in the DHE window. There are three DHE functions that are particularly useful when working with large hierarchies:

- Add Child button
- Find Item field
- Navigate Org option

**Add child button**

When working with a large hierarchy it may not be practical to add child entities using drag and drop. As an alternative, click the **Add child** button to display the **Add Child** window, with a scrollable list.

To add a child member to the hierarchy, select the desired member and click **OK**.

**Find Item field**

Another way to locate a desired child member is to enter its name or ID in the **Find Item** field in the **Tree Settings** section at the top of the DHE window. The selected member is highlighted in the **Show unused** list. Use drag and drop to place the member in the hierarchy as desired.

**Navigate Org option**

In the normal view, the parent member displays at the top of a hierarchy. However, when working with a large dimension, it may be preferable at times to display some other member at the top, to make it easier to add child entities below it.

Select the member you wish to display at the top and select **Options > Navigate Org**. The display is changed as desired.

**Reporting on dynamic hierarchies**

Dynamic hierarchy information is integrated with BPC reporting functions for both general and statutory reporting requirements.

**General application reporting**

For reporting on data in a general application, you can use BPC for Office's drag and drop reporting feature, or the EvDRE function directly. When you perform expansions on dynamic hierarchy dimensions, the system displays the dynamic hierarchy members.

**Statutory application reporting**

As with general applications, you can perform EvDRE expansions for a dynamic hierarchy below a base-level Entity member dimension.

In addition, you can expand on Entity and Group at the same time. Any fixed group dimension structure used in statutory dynamic hierarchies remains intact in EvDRE reporting.

**Publishing and distributing data**
In addition to using Excel's reporting functionality, BPC provides features to extend and enhance it.

**Opening web-ready files**
From BPC for Excel, you can open publications that have been posted on BPC Web. You can open Application publications, AppSet Publications, or Private publications.

**To open web-ready files on BPC Web**
1. From BPC for Excel, select ePublish > Open Web-Ready file from BPC Web.
2. Select the location: Application, Application Set, Private Publication, or Team. If you select Team, select the team from the drop-down.
3. Click OK.
4. Select the publication you want to view, or browse through the available sub-folders, then click Open.

**Publishing web-ready files**
You publish a web ready file to one of the web publication folders in BPC Web, depending on your role in the organization and the type of report being published. After publishing a web-ready file, you can post it to a Page or the Content Library.

**To publish a Web-Ready file**
1. From BPC for Excel, open the file you want to publish.
2. Select ePublish > Save Web-Ready file.
3. Select the web publications folder to which you want to publish the file, then click OK.
4. Select the desired subfolder, name the file, then click Save.

**Publishing books of reports**
BPC’s book publishing feature allows you to publish multiple reports at one time to a book. The book can be published to BPC Web as an HTML or PDF file, or exported to an ASCII file or printer. The book presents report data that varies by one or more members of one or more dimensions.

![Only administrators with the appropriate rights can create book templates and publish books of reports.]

**About publishing books of reports**
A book of reports is a set of reports that can be published to BPC Web as an HTML or PDF file, to an ASCII file, or to a printer. The book presents report data that varies by one or more members of one or more dimensions. The members used are those that are fixed in the report. Any members that are not fixed are taken from the current view of the user at the time the book is published.


The process of publishing a book of reports is:
1. Create one or more reports that you want to publish, and save them to the report library. See Creating reports and Saving reports.
2. Create a book template. The template has links to one or more reports or to the various views of the report data. See Creating book templates.
5. If the book of reports was published to BPC Web, an administrator adds the book of reports to a BPC Web page, and selects the applicable viewers.

Creating book templates

A book template is a pre-formatted worksheet used to create a book of reports. You can start with the empty worksheet or an existing book template, and modify it to meet the needs of the information you want to publish.

A sample book template, called Performance.xls, is provided with the sample application set, ApShell. Performance.xls contains a section called TOC, which provides an index of the reports created by the Performance Reports section. The section called Performance Reports, by default, provides performance data for a set of entities within a set time period. You can edit the fields in the performance.xls workbook to create a new book template.

The following table describes the fields available in the book template. Fields denoted with required must be included in the book template. Fields denoted with optional are not required, and can be used for refining the data in the reports.

Any dimension not specified in the book’s fixed or vary keys will have its value (member) taken from the current view when the book is published.
**Book fields**

The **Book** fields allow you to specify properties for the book.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOK (required)</td>
<td>In the <strong>BOOK</strong> field, enter a title for the book. The name of the book is used to reference the book, for example, if a link to the book was added to a BPC Web page.</td>
</tr>
</tbody>
</table>
| CLEARBOOK (required)    | The **CLEARBOOK** field allows you to specify options for replacing an existing book, appending sections to an existing book, or use the Section fields to determine the contents of the book.  
Select **Accumulate** to append all new sections to an existing book.  
Select **Replace** to ignore the values in the Section fields, and replace the contents of the entire book.  
Select **Use Clearsection** to use the values in the CLEARSECTION fields to determine the contents of the book. |
| Enter Variable Time (required) | The time member is taken from the current view, but you can hard code the time by entering the desired member in this field. |
**Section fields**

The **SECTION** fields allow you to define one or more sections to the book. Sections are marked by the **SECTION** and **SECTIONEND** fields. Each section must include values for the **REPNAME**, **FIXKEY** and **VARYKEYS** fields.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SECTION</strong></td>
<td>The <strong>SECTION</strong> field denotes the beginning of a section of the book. In the Section field, enter a name for the section.</td>
</tr>
<tr>
<td>(required)</td>
<td>If only creating one section, remove any additional sections in the template by deleting the rows between the <strong>SECTION</strong> and <strong>SECTIONEND</strong> keywords.</td>
</tr>
<tr>
<td><strong>CLEARSECTION</strong></td>
<td>The <strong>CLEARSECTION</strong> field allows you to replace or add sections to a book based on the specified vary keys. The value in this field is used only the value of the <strong>CLEARBOOK</strong> field is Use Clearsection.</td>
</tr>
<tr>
<td>(optional)</td>
<td>Select <strong>Accumulate</strong> (previously No) to append new sections (with different member combinations) to an existing book.</td>
</tr>
<tr>
<td></td>
<td>Select <strong>Replace</strong> (previously Yes) to replace sections of the existing book with new sections. This means that if a specified member combination is found, overwrite the existing section.</td>
</tr>
<tr>
<td><strong>REPNAME</strong></td>
<td>In the <strong>REPNAME</strong> fields, enter the following:</td>
</tr>
<tr>
<td>(required)</td>
<td>• In the <strong>Location</strong> field, edit the path to the report template you want to include in the book. Leave the cell reference &quot;&amp;D10&quot;, which points to the name of the file in the <strong>Workbook</strong> field.</td>
</tr>
<tr>
<td></td>
<td>• In the <strong>Description</strong> field, enter the name of the worksheet in the report template.</td>
</tr>
<tr>
<td></td>
<td>• In the <strong>Workbook</strong> field, enter the name of the workbook name of the report template.</td>
</tr>
<tr>
<td><strong>FIXKEY</strong></td>
<td>In the <strong>FIXKEY</strong> fields, enter the dimensions and members that you want to hard code in the reports, for example, <strong>TIME</strong> and <strong>2000.JAN</strong>.</td>
</tr>
<tr>
<td>(optional)</td>
<td>You can also enter dimension members from another application within the application set. To specify a dimension member from another application, the syntax is APPLICATION:DIMENSIONNAME, and then the member name.</td>
</tr>
<tr>
<td><strong>SUPPRESSKEY</strong></td>
<td>In the <strong>SUPPRESSKEY</strong> fields, enter dimensions and members to suppress when their value is equal to zero. For example, <strong>ACCOUNT</strong> and <strong>Revenue</strong>.</td>
</tr>
<tr>
<td>(optional)</td>
<td></td>
</tr>
<tr>
<td><strong>VARYKEYS</strong></td>
<td>The <strong>VARYKEYS</strong> field is used to get data for multiple members of one or more dimensions. For example:</td>
</tr>
<tr>
<td>(required)</td>
<td>• To include all the children of a parent use the following syntax:</td>
</tr>
<tr>
<td></td>
<td>%All% - For example, <strong>SalesUS.%All%</strong> will create reports for <strong>SalesUS</strong> and all its children.</td>
</tr>
<tr>
<td></td>
<td>• To include the base members of a parent, use the following syntax:</td>
</tr>
<tr>
<td></td>
<td>%Bas% - For example, <strong>WorldWide1.%Bas%</strong> will return base members of <strong>WorldWide1</strong>.</td>
</tr>
<tr>
<td></td>
<td>• To include only the immediate descendants of a parent use the following syntax:</td>
</tr>
<tr>
<td></td>
<td>%Dep% - For example, <strong>WorldWide1.%Dep%</strong> will return children of <strong>WorldWide1</strong>.</td>
</tr>
<tr>
<td></td>
<td>• To use the current view for a dimension instead of specifying a view use the following syntax:</td>
</tr>
<tr>
<td></td>
<td>%Cur% - Uses the current view for the dimension.</td>
</tr>
</tbody>
</table>
To create a book template

1. From BPC for Excel, select ePublish > Manage Books > New or select Edit to modify an existing book template.
2. Modify the template by entering the required data in the fields, as defined in the table above.
   Make sure to delete any sections that are not being used.

Validating book templates

You validate your book template to make sure there are no errors in the book template. For example, validation checks for errors in syntax, structure, and information provided. If there is an error in your report a descriptive message displays. The error location is also highlighted on the template.

You may also receive information messages. These are for your information only, and do not have any affect on your book.

To validate book templates

1. From BPC for Office, open the book template you want to validate.
2. Select ePublish > Manage Books > Validate.
3. From the message "Validation was successful," click Yes. If errors occur, fix the errors and repeat step 2.

Publishing a book of reports

You can publish a book of reports to the Web as an HTML or PDF file, to an ASCII file, or print them to a printer. Before you can publish a book of reports, you must have created the corresponding book template. See Creating book templates.

Books of reports are published as web-ready files and are not visible until placed on a web page in the Content Library.

The following table describes the available book output types.

<table>
<thead>
<tr>
<th>Output type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPC Web - HTML</td>
<td>Creates an HTML file, and places it in a BPC Web folder. Once published to a BPC Web folder, administrators can post it on any BPC Web page.</td>
</tr>
<tr>
<td>BPC Web - PDF</td>
<td>Creates several PDF files, and places them in BPC Web folder. Once published to a BPC Web folder, administrators can post it on any BPC Web page.</td>
</tr>
<tr>
<td>Make single PDF file</td>
<td>Creates a single PDF file with all the reports.</td>
</tr>
</tbody>
</table>

If this option is disabled, you need to download a PDF writer. Select the Download PDF link, run the program, and close and reopen BPC for Excel. When you return to the Book Publication Wizard, this option should be enabled for selection.
<table>
<thead>
<tr>
<th>Output type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCII</td>
<td>Creates an ASCII file.</td>
</tr>
<tr>
<td>Printer</td>
<td>Sends the book of reports directly to a specified printer.</td>
</tr>
</tbody>
</table>

To publish a book of reports

1. From BPC for Excel, select ePublish > Book Publication Wizard.
2. From the Welcome to the Book Publication Wizard screen, click Publish Now.
3. In the Book Destination screen, select one of the following, then click Next.
   - BPC Web - HTML
   - BPC Web - PDF
   - Make single PDF file - Specify a name and location for the file.
   - ASCII - Specify a folder in which to save the ASCII file.
   - Printer - Select the Select Printer button to specify the desired printer.
4. In the Section Selection screen, select one or more book sections to publish, then click Next.
5. Review the book summary, then click Next.
6. Wait a few moments for the book to generate, click OK, and then Finish.

Distributing and collecting offline data

BPC's offline distribution and collection feature allows you to distribute reports and input schedules to multiple recipients, based on a predefined distribution list. In addition, you can then collect multiple input schedules from users. The reports that are distributed are offline, which means they can be used disconnected from the server.

- Only administrators can distribute or collect offline data using this feature.

About distributing and collecting offline data

BPC's offline distribution and collection feature allows administrators to distribute reports and input schedules to multiple recipients, based on a predefined distribution list. The reports are saved to be used offline from the server in native Excel.

The mechanism to distribute offline reports is similar to publishing a book of reports, but this feature also allows you to distribute and collect input schedules. Other differences between publishing a book and distributing and collecting reports and input schedules are:

- Reports or input schedules are locked (parked)
- You can collect changes to offline input schedules and send the data to a database
- Reports and input schedules are distributed through email or a designated network folder, not with a TOC on BPC Web

Distributing offline reports involves at least three steps, with an optional fourth step to collect modified input schedules:

- **Step 1**: Create a report or input schedule template that defines the layout of the report. See Creating reports or Creating input schedules, respectively.
  
  For input schedules, you should set the input cells to 'unprotected' and protect the workbook. See Setting workbook options: Setting the BPC workbook password. Also, the workbook should not contain any data. This is because the input schedule expands upon distribution, and clears all input cells.
• **Step 2**: Create a distribution list that defines the scope (current view) of the data for one or more users. See Creating distribution lists.

• **Step 3**: Use the Distribution Wizard to distribute offline reports or input schedules through email or a network folder. Reports are created for each user and for each current view described by the distribution report. See Distributing reports and input schedules.

• **Step 4**: (Optional) If you distributed input schedules, the users can input data offline, and then email the reports back to you or save them in a designated directory. You can then use the Distribution Wizard to collect the data from the modified reports and send it to the database. See Collecting input schedules.

**Creating distribution lists**

You can create a distribution list that defines the current view settings for different users. This allows you to distribute the same report or input schedules to a group of users, that shows only information relevant to them. These reports and input schedules can then be emailed to users, or placed in a designated folder. Offline input schedules can be modified by users and emailed back to you (using the BPC data collection feature) using the same distribution list.

After creating one or more report or input schedules, you can create a new distribution list, or use the a Distribution List template as a guide. The sample application set, ApShell contains a template called Distribution Template.xlt. The distribution list template is pre-formatted with the required fields needed to successfully create a distribution list. The template contains the following fields:

- **BOOK**
  - The title of your distribution list.

- **SECTION**
  - Denotes the beginning of a section of the distribution list. You can have multiple sections in your distribution list. Each section must be marked by SECTION and SECTIONEND (see SECTIONEND, below).
  - In addition, each section must include REPNAME, FIXKEY and VARYKEYS, defined below.
  - The Distribution Wizard allows you to select the sections you want to publish within a book. See Distributing reports and input schedules

- **REPNAME**
  - The file path to the report template being used to create the reports. You can also add a title for the report in the cell immediately following the path.

  You must protect a report template before distributing it. You protect the template by setting the password using the eTools > Workbook Options dialog box. See Setting workbook options. If you do not set a password, you will receive an error message when you try to validate the distribution list.

- **FIXKEY**
  - Used to set a dimension value for all reports in the distribution (for example, TIME - 2000.JAN). FixKey also supports the use of dimension members from another application within the AppSet. To specify a dimension member from another application the syntax is APPLICATION:DIMENSIONNAME. The example below provides an example of this setup (SALES:CHANNEL), where SALES is the application name and CHANNEL is the dimension within the SALES application.

- **VARYKEYS**
  - The list of dimensions and user IDs for which the distribution is created. The dimensions and the user IDs are entered in columns. Reports are created for each intersection of dimensions and users that have access to the data.

  - To include all the children of a parent use the following syntax:
To create a distribution list

1. From BPC for Excel, select **ePublish > Manage distribution list > New** to create a new distribution list, or select **ePublish > Manage distribution list > Edit**, and then select a file to edit an existing distribution list.

2. Change the distribution list, as described in the table above.

   Make sure to protect any specified reports or input schedule template(s) with a workbook password. **See Setting workbook options.**

3. When satisfied with the distribution list, select **ePublish > Manage distribution list > Validate** to validate it.

   Validating checks the template for workbook protection, and errors in syntax, structure, and provided information. If there is an error in the distribution list, a message is displayed, and the error is highlighted on the template.

4. Select **ePublish > Manage distribution list > Save** to save it.

Distributing reports and input schedules

After you create a distribution list, you can send a report or input schedule template to users described in distribution list. You can use the Distribution Wizard to distribute the templates to a folder or through email.

This topic discusses how to use the Distribution Wizard to distribute reports and input schedules using a predefined distribution list. The Offline Distribution Wizard also generates the reports or input schedules before distributing them.

To use the Offline Distribution Wizard

1. From BPC for Excel, select **ePublish > Offline Distribution Wizard.**

2. From the Distributor Wizard, make sure **Distribution** is selected, then do one of the following:
   - To send an email that contains the report or input schedule to the recipients, select **Lockdown and Send mail.**
   - To save the reports or input schedules to a folder, select **Lockdown and Save to folder.** This option creates a number of reports that are named based on the users to whom they are distributed.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%All%</td>
<td>- For example, <strong>SalesUS.%ALL%</strong> creates reports for SalesUS and all its children.</td>
</tr>
<tr>
<td>•</td>
<td>To include the base member of a parent, use the following syntax:</td>
</tr>
<tr>
<td>%BAS%</td>
<td>- For example, <strong>WorldWide1.%BAS%</strong> returns base members of WorldWide1.</td>
</tr>
<tr>
<td>•</td>
<td>To include the immediate descendants of a parent use the following syntax:</td>
</tr>
<tr>
<td>%DEP%</td>
<td>- For example, <strong>WorldWide1.%DEP%</strong> returns the children of WorldWide1.</td>
</tr>
<tr>
<td>•</td>
<td>To use the CurrentView for a dimension instead of specifying a view use the following syntax:</td>
</tr>
<tr>
<td>%CUR%</td>
<td>- Uses the CurrentView for the dimension.</td>
</tr>
</tbody>
</table>

SECTIONEND Denotes the end of a distribution section.
3. Click **Distribute Now**.
4. In the **Select Distribution List** dialog box, select the distribution list you want to use. **See Creating distribution lists.**
5. If you chose to distribute into a folder, specify the folder. If you chose to distribute by email, do the following:
   a. Type the email address of the sender (typically, your email address).
   b. If you want to receive a copy of the email, select the **Copy to my inbox** check box.
   c. Type an email subject and an email message in the **Subject** and **Body** text boxes, respectively.
   d. Select the **Request send confirmation** check box if you want to receive an acknowledgement that the mail was received.

   ❣️ The confirmation is sent to the email address listed in the **Sender** section.

   e. Select the **ZIP the attachments** check box to compress the report or input schedule attachments.

   ❣️ The person receiving the email must have a ZIP archive utility to be able to uncompress the file(s).

7. Click **Next** to generate the reports or input schedules, and then send the email or save the reports to the designated folder.

**Collecting input schedules**

After distributing input schedules to users and they have entered the required data, you can collect the input schedules from a designated network or email folder. You can use the Offline Distribution Wizard to collect the templates from the folder, and then send the data directly to the database.

This topic discusses how to use the Distribution Wizard to collect input schedules using a predefined distribution list. Before you can collect input schedules, make sure you have done the following tasks:

1. Distributed input schedules using the Distribution Wizard. **See Distributing reports and input schedules.**
2. Waited for the users to modify the input schedules.
3. When data input is complete, have the users email the modified schedules back to you, or replace them in the designated network folder.
4. If collecting input schedules in an email folder, set up a folder in your Microsoft Outlook email system to place the modified input schedules. Move all the applicable emails to that folder.

   ❣️ Each email should contain only one attachment. The attachment should be a single, modified input schedule, or a single ZIP file containing several modified input schedules.

**To collect input schedules**

1. From BPC for Excel, select **ePublish > Offline Distributor.**
2. From the **Offline Distribution Wizard**, select **Collection**, then click **Next**.
3. From the **Select Input Schedule List** dialog box, select **Outlook Mail Box** or **Local Folder**.
4. Click the **Browse** button in the **Working Folder** field, then do one of the following:
   - If you chose Outlook Mail Box, your Inbox is shown. Choose an Email folder and then click **OK**.

   ❣️ After you click OK, your email program may be in front of BPC for Excel. Switch back to BPC for Excel to continue.
If you selected **Local Folder**, a standard directory dialog box is displayed. Select a folder, then click **OK**.

5. Select one or more check boxes next to each email or file you want to collect, or select **Select All** to select all items.

   The **Reload** button allows you to update the list of emails or files if the list has changed.

6. Click **Next**.

7. On the **Ready to Send Data** dialog box, click **Process** to send the data collected from the files or emails to the database.

**Using Comments**

Comments provide a vehicle for submitting, storing, and retrieving text commentary associated with BPC data cells or other BPC unstructured data elements.

**About using comments**

Comments provide a vehicle for submitting, storing, and retrieving text commentary associated with BPC data cells or other BPC unstructured data elements. It allows you to annotate the data so that other users can view the comments associated with a particular data point (a fully-qualified current view). They also serve to provide comments on a series of data such as a specific report or content library document that is not current view-driven.

Comments can be entered and viewed from within any interface that manages data. This function works alongside similar BPC data submission/retrieval functions, and can be retrieved from all areas of BPC.

**Adding comments**

You can add comments using the EvCOM function or through an action pane. This procedure describes how to add a comment through the action pane. For information on adding a comment using EvCOM, see **EvCOM**.

The **Add comment** link is available on any action pane from which the context of the page allows you to enter a comment. Examples include live reports or input schedules in BPC Web, and reports and input schedules in BPC for Office.

**To add a comment**

1. From **BPC for Excel**, open the report or input schedule and select the cell in which you want to add a comment.

2. From the **Report State** action pane, select the **Add a new comment** link from the action pane.

3. Select a context for the comment:
   - **The active report or schedule cell**. This option is available when a live report or schedule is active. The comment gets applied to the data region associated with the selected cell.
   - **The active current view**. This option applies the comment to the current view shown in the action pane.
   - **Custom current view**. This option allows you to specify a specific current view to which to associate the comment. From the **Comment for these CV values** table, select the application. For each dimension, select the check box next to the dimensions for which you want a specific member or all members to apply. Leaving a check box unselected ignores the members for that dimension for this comment.

   To select a member using the Member Lookup, click a dimension link. See **About the Member Lookup**.

4. Click the **button.**
5. In the **What is the priority of the comment?** field, select Critical, High, Medium, Low, or No Priority. When users report on comments, they are shown by in order of their priority level.

6. In the **What keyword do you want to associate with this comment?** field, enter a meaningful keyword. Keywords are used to help users organize and search for comments in the database.

7. In the **What is the comment?** field, type the desired content (up to 256 characters).

8. Click the **button. The summary page is displayed, showing a summary of what is sent to the database. See Viewing comments.**

### Viewing comments

If you have a live report or input schedule open, you can view any comments that are associated with it. You can also view comments associated to the current view of a selected cell within that report or input schedule, or view any comments for a specific current view.

In order to view relevant comments, you must answer some questions so the system can filter the database.

#### To view a comment

1. From a live report or input schedule or a selected cell in a report or input schedule, select **View comments** from the action pane.

2. In the **What is the context of your comments search?** field, select one of the following:
   - **The active report or schedule cell.** Returns comments associated with the active cell.
   - **The active current view.** Returns comments associated with the active current view. The active current view is the combination of members displayed in Session Information: Current View and any locked members.
   - **Custom current view.** Returns comments associated with a different current view than the active one. From the **Comment for these CV values** table, select the application. For each dimension, select the check box next to the dimensions for which you want to return comments for a specific member or for all members of the dimension. Leaving a check box unselected ignores the members for that dimension for this comment, and returns comments for any member of that dimension.

   ![To open the Member Lookup, click a dimension link. See About the Member Lookup.](image)

3. Click the **button.

4. In the **Do you want to include comment history?** field, select the check box to show multiple comments for the specified search criteria. Leave unselected to return only the most recent comment that meets the criteria.

5. In the **Comments with what priority?** field, select one or more priority options. When a priority is selected, comments associated to that priority will be returned.

6. In the **Do you want to search on a comment keyword?** field, enter a keyword (up to 30 characters) or leave blank. Only comments with a matching keyword will be returned in the search.

7. Click the **button.

8. In the **Comments from what origin?** field, select one of the following:
   - **Comments from anyone.** This option returns comments that were entered by any other user (and includes yourself).
   - **Comments from myself.** This option returns comments that were entered by you.
   - **Comments from another user.** This option returns comments that were entered by a specific user. Enter a valid user in the **BPC user** edit box.
9. In the Do you want to search comments by date range? field, select the Search by date range check box to specify a date range for which to return comments, or leave blank. Use the From and To drop-down lists to specify the desired date range.

10. Click the button. The Comments Summary page is displayed. See About the Comments Summary page.

About the Comments Summary page
After adding a comment or choosing your view options, you can display them in the comments summary page. If you just added a new comment, the summary page contains the newly added comment data region and the comment entry that was made to the database. If other comments exist for the same data region, those also appear in the summary page. Additionally, if associated data regions contain comments, those data regions also appear in the page. If you defined view options, all associated comments are displayed.

To change views, you can do one or more of the following:

- To change what displays in the Data Region with Comments table, click the Display Criteria hyperlink at the top of the page. This opens the View Comments - Step 1 of 3 action pane. See Viewing comments.

- To delete a comment, select the check box next to the comment in the Comments for the selected data region table, then click Delete selected comments from the action pane. Only the owner of the comment or a user with administrative rights can delete a comment.

Comment Entries table
The following table describes the columns in the Comments for the selected data region table:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment</td>
<td>This cell displays the entire comment. If you are the originator of the comment or if you have administrator rights, you can modify the value directly in the cell. When you are done modifying the text, click Update Comment.</td>
</tr>
<tr>
<td>Priority</td>
<td>This cell displays the priority for the comment. If you are the originator of the comment or if you have administrator rights, you can modify the value directly in the cell by selecting another option from the drop-down list.</td>
</tr>
<tr>
<td>Keyword</td>
<td>This cell displays the keyword associated with the comment. If you are the originator of the comment or if you have administrator rights, you can modify the value by typing directly in the field.</td>
</tr>
<tr>
<td>Originator</td>
<td>This cell displays the comment originator’s name. The value in this cell is display only.</td>
</tr>
<tr>
<td>Data</td>
<td>This cell displays the date that the comment was saved to the database. If the comment is updated by the originator or an administrator, the updated date appears in this cell. The value in this cell is display only.</td>
</tr>
<tr>
<td>Show (drop-down list)</td>
<td>Allows you to specify the comment blocks to display in the table.</td>
</tr>
</tbody>
</table>

Using journals
The BPC Journals feature allow you to track changes and adjustments made by all users to the database.
About journals

The BPC Journals feature allows users to make adjustments to data in the database, typically as part of the month-end or quarter-end process. For example, administrators load general ledger information into an application using Data Manager, and then users review the data and make adjustments using journal entry forms.

After journal entries are saved and posted, all adjustments to data are tracked and can be reported on. You can run reports on the changes by amount, date, user, and several other properties.

To use journals, an administrator must have set up a journal template. See Admin Help.

You can access all journal tasks from the action pane (or the eJournals menu). If the eJournals menu is not enabled, select eTools > Journal. If the Journal item is disabled, please contact your administrator.

Depending on your access level, you can perform the following tasks relating to journals:

- Create, modify, delete, and copy journal entries
- View journal entries and generate reports
- Post and repost journal entries
- Unpost journal entries

Creating journal reports

You can create reports based on journal entries. These reports represent an audit trail of journal entries that have been both saved and/or posted.

BPC supports three types of journal reports:

- By Journal ID. Generates a report based on a single journal entry.
- By User(s). Generates a report based on a list of users who have created or posted journal entries.
- By Account. Generates a report of journal activity by account type.

Journal reports are Web-based, and are generated using Microsoft Reporting Services (MSRS). After generating reports, you can export them into any format supported by MSRS.

To create a journal report

1. From BPC for Excel, select Journals from the Getting Started - BPC for Excel action pane.
2. Select Open an existing journal, then click Cancel to close the Journal Manager.
3. From the Journal Options action pane, select Report on Journals.
4. Select the type of report you want to create:
   - To create a report for a single journal entry, do the following:
     a. Select by Journal ID, then click Next.
     b. Type the Journal ID number, then click Next.
     c. Select a report format, a journal type, and whether you want the output in portrait or landscape orientation, then click Finish to create the report.
   - To create a report based on one or more users, do the following:
     a. Select by User, then click Next.
     b. Select Created or Posted users, move the users you want included in the report to the Users list on the right, then click Next.
     c. Select filtering and ordering options, then click Next.
     d. Click Finish to create the report.
• To create a report based on an account, do the following:
  a. Select by Account, then click Next.
  b. Click the browse button to select an account from the list, then click Next.
  c. Select the output options, then click Finish to create the report.

5. When the report is displayed in your web browser, you can export it by selecting a format option from the Export section field, then clicking Export.

Managing journal entries
You use the Journal Manager to define queries on journal entries and to perform tasks on journal entries.

About journal entry forms
Journal entry forms are designed by your administrator. There is one journal entry form per application. For information on how to display the journal entry form, see Creating journal entries.

You use the journal entry form as described in the following table to enter one or more journal entries.

<table>
<thead>
<tr>
<th>Form fields</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hide the Header</td>
<td>To hide the header area, select the &quot;Hide the Header&quot; check box. To show the header area, clear the &quot;Hide the Header&quot; check box.</td>
</tr>
<tr>
<td>Application info</td>
<td>Read-only fields that display the application set name and the application for which you are entering the journal.</td>
</tr>
<tr>
<td>Header dimensions</td>
<td>The fixed dimensions for all journals in the current application. You select members for each dimension by double-clicking on the entry cell to display the Member Lookup dialog box.</td>
</tr>
<tr>
<td>Additional items</td>
<td>Text fields or lists that are saved along with the journal entry form that contain clarifying information. Additional header items are not required by the system, but may be required by your business process. If they are present in your journal entry form, they must be completed before you can post a journal entry.</td>
</tr>
<tr>
<td>Detail dimensions</td>
<td>The detail dimensions are displayed in columns so that each row under the dimension name can be unique. Each unique combination of members represents one detail line. The maximum number of detail lines per form is controlled by your administrator. You enter the members associated with the data values you want to change, and the debit or credit amount. If you are creating multiple entries with multiple values from a single header item, there will be a set of debit/credit columns for each additional member specified.</td>
</tr>
<tr>
<td>Status information</td>
<td>The following information used for auditing purposes:</td>
</tr>
<tr>
<td></td>
<td>• Selection List - If you have multiple journals open, this field lists their journal IDs.</td>
</tr>
<tr>
<td></td>
<td>• Server Name - The name of the server to which you are currently logged on.</td>
</tr>
<tr>
<td></td>
<td>• Status - The current status of the journal entry.</td>
</tr>
</tbody>
</table>

If the journal must be balanced (that is, if the Balanced check box is selected), you must supply debit and credit lines that mathematically balance to zero.
### Form fields Description

<table>
<thead>
<tr>
<th>Form fields</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>include <strong>Saved, Posted,</strong> and <strong>New</strong>.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Old Journal ID</strong> - If a journal entry has been reopened, the old journal ID is the ID of the original entry.</td>
</tr>
</tbody>
</table>

### Journal options

The check boxes allow you to perform advanced functions on the journal entry.

- **Reopen journal in next period** - This option allows you to reopen the journal entry to another account in a subsequent time period.

**See Reopening journal entries**

- **Auto Reversed** - This option allows you to reverse the credit or debit value in the journal entry in the next time period.

**See Creating journal entries**

- **Balanced** - This option allows you (or an administrator) to require journals to be balanced upon posting.

**See About balanced journals**

### About balanced journals

When defining a journal, there is a balanced option on the journal entry form. If a journal is required to be balanced, it means that you must supply two or more detail lines where credits and debits balance to zero.

If the administrator sets the application parameter JRN_BALANCE to "Y" or "1", the Balance option on the journal entry is enabled and cannot be turned off. This means that you cannot post the journal entry until it is balanced. However, you can save the journal without it being balanced. Upon saving an unbalanced journal, a message prompts you to save the unbalanced entry. If you click "Yes," the journal entry is saved. If you click "No," you can go back and edit the journal entry to balance it.

If the administrator sets the parameter to "N" or "0", the Balance option on the journal entry is disabled, but you can enable it if you want. If you enable it, a save and post work as indicated in the paragraph above.

If the administrator sets the parameter to "2", the Balance option is enabled, but you can disable it if you want. If you enable it, a save and post work as indicated above.

### Defining journal queries

Since there may be a large number of journal entries written to an application, you can use the Journal Manager to define queries so you can search for specific entries. The Journal Manager searches through both header and detail dimensions.

If you have multiple journals, they are grouped under the first entry. **See Defining multiple journal entries.**

After you find the entries you are looking for, you can perform the following tasks on them:

- Open the saved or posted entries
- Review the line item detail on posted or saved entries
- Post the saved entries
- Unpost the posted entries
- Delete the posted or saved entries

You can only perform actions on the entries that are visible on the current page.

### To define a journal query

1. From BPC for Excel, select **Journals** from the Getting Started action pane.
2. Select **Open an existing journal**.

3. To define a simple query, do the following. For a more advanced query, skip to Step 4.
   
   a. Enter a parameter and value used to define the query. For example, you can select **Posted by** for the parameter, and then you can enter a user name for the value.
   
   b. To return all (non-deleted) entries, select **All**, select **Posted entries** to return posted entries, **Unposted** to return entries that have been unposted, and select **Deleted entries** to return deleted entries. If you want to see only saved entries, use the **Advanced** tab.

   If you select the **Deleted entries** option, only unposted journal entries that have been deleted will be displayed. This is because when you delete saved journal entries, they are removed from the database.

4. To define a more advanced query, select the **Advanced** tab. In the Advanced tab, you can select multiple filters. Define the desired filters, then click **OK**. Multiple queries are combined with AND, which means all conditions must be met.

5. Click **Execute Query**. The entries meeting the specified criteria are displayed in the **Journal Manager Viewer**.

6. Select the check box next to one or more journal entries, and do one of the following:

<table>
<thead>
<tr>
<th>Open one or more entries</th>
<th>Open one or more selected entries by clicking <strong>Open</strong>. <strong>See Opening journal entries</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Review line item detail</td>
<td>Review the line item detail for the selected entries in the Journal Entry Detail section. <strong>See Reviewing journal line items</strong></td>
</tr>
<tr>
<td>Post one or more entries</td>
<td>Post the selected saved entries by clicking <strong>Post</strong>. <strong>See Posting journal entries</strong></td>
</tr>
<tr>
<td>Unpost one or more entries</td>
<td>Post the selected saved entries by clicking <strong>Unpost</strong>. <strong>See Unposting journal entries</strong></td>
</tr>
<tr>
<td>Copy one or more entries</td>
<td>Copy the selected entries to another category and time member by clicking <strong>Copy</strong>. <strong>See Copying journal entries</strong></td>
</tr>
<tr>
<td>View a report</td>
<td>Create a journal report by clicking <strong>Reports</strong>. <strong>See Creating journal reports</strong></td>
</tr>
<tr>
<td>Copy to clipboard</td>
<td>Copy the header dimensions of the selected entries to Microsoft Excel.</td>
</tr>
<tr>
<td>Delete one or more entries</td>
<td>Delete the selected entries by Clicking <strong>Delete</strong>. <strong>See Deleting journal entries</strong></td>
</tr>
<tr>
<td>Define a new query</td>
<td>Define a new query by clicking <strong>New query</strong>.</td>
</tr>
</tbody>
</table>

**Creating journal entries**

You create journal entries using the journal entry form that has been built by your administrator. There is one journal entry form per application.

You must have **Modify** rights to create journal entries. Journal security is defined in BPC Administration. Please see your administrator for more information.
You can save a journal entry at any time if there is information in at least one cell in the header, and one cell in a detail line. The first time you save an entry, the system generates a Journal ID. You can use the ID to identify the entry later for further editing prior to posting.

To create a journal entry

1. From BPC for Excel, select **Journals** from the **Getting Started** action pane.
2. Select **Enter a new journal**.
3. Do one of the following:
   - If you want to create multiple journal entries based on a single header, select **Yes**. Select the dimensions and members that you want to use for your multiple journal entry, then select **OK**, and continue to step 4. See **Defining multiple journal entries**.
   - If you want to create a standard journal entry, select **No**, and continue to step 4.
4. Complete the journal entry form by doing the following. See **About journal entry forms**.
   a. In the **Header** dimensions fields, enter member names, or double-click the appropriate cell and choose a member from the **Member Lookup**. The Member Lookup defaults to a filtered list of base-level members, which are the only members to which you can apply data.
   b. If the journal entry form has additional header dimensions fields (located under the Journal ID field and Description fields), type the text required or select from the list, as appropriate.
   c. For each detail line you want to add, enter a member for each dimension and the debit or credit you want to post in the **detail line** fields. You can double-click in the dimension columns to select members from a list of base-level members.
   d. If the journal must be balanced (that is, if the **Balanced** check box is selected), you must supply debit and credit lines that mathematically balance to zero.
   e. If you want the journal entry values to be reversed in the next time period, select the **Auto-Reversed** check box. When you post this entry, another entry is immediately posted, which switches the debit/credit values in the specified accounts.
   f. If you want this journal to be reopened in another time period, select the **Reopen journal** check box. This does nothing if you save or post the entry. The journal will be reopened when you run the Reopen Journal procedure. See **Reopening journal entries**.
5. From the **Journal Options** action pane, select **Save Journal** (or select **eJournal > Save**) to save the entry, then click **OK** in the confirmation message box.
6. When you are satisfied that the journal entry is complete, you can post the journal entry by selecting **Post Journal** from the **Journal Options** action pane (or select **eJournal > Post**). See **Posting journal entries**.

Posting journal entries

You can post journal entries after they have been saved. In order to post an entry, you must have **Post** rights. If the **eJournals > Post** menu item is disabled, you do not have rights to post entries. You also must have write access for the members to which you want to post. See your administrator for more information.

When a journal entry is posted, the following events occur:

- The journal entry is validated for completeness and accuracy. For example, if balanced entries are required, debits must equal credits by the currency property.
- The journal entry becomes "locked" and cannot be edited.
- The values in the journal entry are applied to the database, so application data is appended to the numbers in the database. (Unlike using input schedules, data is appended, not replaced.)
- The entry is updated to record the user who posted the entry. This information is useful when creating journal reports for the entries.

Posting standard journal entries

Standard journal entries are those which have one member defined for each header dimension and one credit or debit value. You can post a single entry directly from the journal entry form, or you can post two or more journal entries from the Journal Manager.
To post a single journal entry

1. From BPC for Excel, create a journal entry using the journal entry form. See Creating journal entries.

2. After the entry has been saved, post the journal entry by selecting Post Journal from the Journal Options action pane (or select eJournal > Post).

To post two or more journal entries

1. From BPC for Excel, open the Journal Manager. See Opening journal entries.

2. Search for the appropriate entries by defining a journal query, then click the Query button. (When searching, make sure the Posted option is not selected.) See Defining journal queries.

3. Select the check box next to each journal entry you want to post, or select Select All to select every journal entry that is displayed.

4. Click Post.

5. Review the journal summary, then click Close.

Posting multiple journal entries

Multiple journal entries are those that have two or more members defined for a single header dimension, and/or have multiple credit/debit values for one or more members of a single header dimension. After you save a multiple journal entry, you can post it.

To post a multiple journal entry

1. From BPC for Excel, define a multiple journal entry using the journal entry form. See Defining multiple journal entries.

2. Do one of the following:
   - To post the entry from the journal entry form, select Post Journal from the Journal Options action pane (or select eJournal > Post).
   - To post two or more multiple and/or single journal entries from the Journal Manager, do the following:
     a. Open Journal Manager. See Opening journal entries.
     b. Search for the appropriate entries by defining a journal query, then click the Execute Query button. (When searching, make sure the Posted option is not selected.) See Defining journal queries.
     c. Select the check box next to each journal entry you want to post, or click Select All to select every journal entry that is displayed.
     d. Click Post.

3. From the Post Journals dialog box, select one or more member intersections you want to post. Click Select All to select all member intersections.

4. Click OK.

Reposting journal entries

You can repost journal entries in the event that you accidentally delete information from the database. For example, you may want to repost data that was accidentally removed when a Clear Package was run from Data Manager.

To repost, you perform a search for a region where the application database is out of sync with the journals database. You would repost all the entries within that region.

Only administrators can repost journal entries.

To repost journal entries

1. From BPC for Excel, open a journal entry form. See Opening journal entries.

2. Select Repost Journal from the Journal Options action pane (or select eJournal > Repost).
3. From Journal Manager, build a query to find the entries you want to repost. See Defining journal queries.

4. Select the check box next to all entries that you want to repost, then click the Repost button.

Reopening journal entries
You can reopen one or more journal entries from a previous year, and post them to another set of accounts for the following year.

Before journal entries can be reopened, the administrator must customize the provided translation workbook. The translation workbook defines the source and destination accounts for the reopening of journals. See Defining journal reopen translations. In addition, the journals to reopen must be flagged appropriately. See Creating journal entries.

The system must also be set to allow reopening of journals. This is set at the application-level. See your administrator for more information.

To reopen a journal entry
1. From BPC for Excel, open a journal entry form. See Opening journal entries.
2. Select Reopen Journal from the Journal Options action pane (or select eJournal > Reopen).
3. If you want to view a report that shows which journal entries are available to reopen, select View Report, then select the RptCheckReOpen worksheet.

You can also view the report when you want to see the reopen results. See Creating journal reports.

4. Do one of the following:
   ▪ To reopen one or more single journal entries to new single journal entries, select Reopen to new single journal, then do the following:
     a. In the Reopen from section, specify a Category and Time member from which you want to get the journal entries you want to reopen.
     b. In the Reopen to section, specify a Category and Time member in which you want to reopen the journal entries.

       Use the Ellipsis buttons to search for available members.

   ▪ To reopen one or more multiple journal entries to new multiple journal entries, select Reopen to new multiple journals. Then do the following:
     a. In the Reopen from section, specify a Category and Time member from which you want to get the journal entries you want to reopen.
     b. Select the Select Multiple button to define which member combinations in which to open the journal entries.
     c. For the Category dimension, accept the default members, or specify the desired members in the Members field.
     d. For the Time dimension, accept the default members, or specify the desired members in the Members field.

       Use the Ellipsis buttons to search for available members.

5. Click OK, OK again, then at the confirmation prompt, click Yes.

Unposting journal entries
You can unpost one or more journal entries when you want to make changes to them. When you unpost a journal entry, it remains in the system as read-only. If you want to make a change to it, you can create a copy of the unposted journal entry using the eJournal > Save As option, make changes to the copy, and then post it.
You can unpost a single entry, or a group of entries. When you unpost a journal entry, the following events occur:

- The original change to the application is reversed
- The status of the journal entry becomes Unposted
- A read-only copy of the journal entry is preserved, to record the changes made to the database

You must have journal Unposting rights on the application in order to unpost journal entries. See your administrator for more information.

To unpost a single journal entry
1. From BPC for Excel, open the journal entry you want to unpost. See Opening journal entries.
2. Select Unpost Journal from the Journal Options action pane (or select eJournal > Unpost).
3. Review the journal summary, then click Close.

To unpost multiple journal entries
1. From BPC for Excel, open Journal Manager. See Opening journal entries.
2. Search for the appropriate entries by defining a journal query, then click the Execute Query button. When searching, select the Posted option. See Defining journal queries.
3. Select the check box next to each journal entry you want to unpost, or select Select All to select every journal entry that is displayed.
4. Click Unpost.
5. Review the journal summary, then click Close.

Locking Journals
Administrators can change the status of a journal from and to a 'Locked' status. A locked status means that no changes can be made to the journal entry. You can only change its status back to the original status. A journal entry must be saved or posted before setting its status to locked.

Valid status transitions are:
- From SAVED to LOCKED
- From LOCKED to SAVED (if SAVED was the status prior to LOCKED)
- From POSTED to LOCKED
- From LOCKED to POSTED (if POSTED was the status prior to LOCKED)

To lock a journal
1. From BPC for Excel, open the journal entry you want to lock. See Opening journal entries.
2. Click the Lock icon on the Journal toolbar.

Modifying journal entries
You can modify journal entries that have been previously posted.

To modify a journal entry
1. From BPC for Excel, open a journal entry form. See Opening journal entries.
2. Search for the journal entry you want to modify, and open it. See Defining journal queries.
3. When the journal entry is displayed, select Unpost Journal from the Journal Options action pane (or select eJournal > Unpost).
4. Select Save As Journal from the Journal Options action pane, then click OK. The journal entry is saved with a new Journal ID.
5. Edit the journal entry, as appropriate.
6. Post the new journal entry by selecting by selecting **Post Journal** from the **Journal Options** action pane (or select **eJournal > Post**).
7. Review the journal summary, then click **Close**.

**Reviewing journal line items**
You can review detail lines of a journal entry for the entries you have View rights to.

**To review journal line items**
1. From BPC for Excel, open the Journal Manager and define a journal query. See **Defining journal queries**.
2. Select the journal entry you want to view, then click the browse button in the upper right corner.
3. Review the details displayed in the **Journal Entry Details** section.

**Opening journal entries**
You can open journal entries if you want to view or edit them. If you open several journal entries at once, you can browse through them using the **journal navigation** feature, which consists of a Previous and Next button. The buttons are displayed on the **Journal toolbar**.

**To open a journal entry**
1. From BPC for Excel, select **Journals** from the Getting Started action pane.
2. Select **Open an existing journal**.
3. Define a journal query to find one or more journal entries with the Category and Time member you want to open. See **Defining journal queries**.
4. Select the check box for each journal entry you want to open.
5. Click **Open**.

**Copying journal entries**
You can copy one or more journal entries to create journal entries under different header dimension members. For example, you might want to carry specific journal entries forward to subsequent time periods. Or you might want to take entries from a specific category and move them to a different category.

Regardless of whether they were **Posted** or **Saved** entries, after you copy journal entries, they are created for the specified dimensions, and given a **Saved** status. That is, copied journal entries are not automatically posted.

**To copy a journal entry**
1. From BPC for Excel, open Journal Manager and define a journal query to find the journal entries with the Category and Time member you want to copy. See **Defining journal queries**.
2. From the **Journal List** section, select one or more journal entries to copy.
   - You can select **Select All** to select every journal entry that is displayed.
3. Click the **Copy To** button, then click **Yes** in the confirmation dialog box.
4. In the **Copy Journal** assistant, do the following:
   - In step 1 of the assistant, specify how you want to handle time information:
     - Select **Lock the time dimension** if you want to copy the selected entries to other detail dimensions but use the same time periods.
     - Select **Copy time values to the next period** if you want to copy the selected entries to other detail dimensions and to the same time period in the following year. For example, if a period is Jan.2005, it would move the data values to the Jan.2006 period, in addition to the header dimension members specified in Step 2.
     - Select **Permit destination selections** if you want to specify other time periods.
The Permit Destination Selections option is always disabled when a multiple journal is selected.

b. Click Copy Option or Next.

6. In step 2 of the assistant, select the target members for the associated header dimensions. To use the Member Lookup dialog box to search for a member, click the browse button, select the desired member, then click OK.

7. Click Finish or Next.

8. Review the changes and click Apply to apply the changes, then click Finish to close the assistant.

For subsequent uses of the Copy Journal assistant, if you want to apply the changes upon clicking Finish, select the check box at the bottom of the assistant.

Defining multiple journal entries

You can define multiple journal entries based on a single header. This allows you to save time by posting one journal entry that gets recorded as a multiple entry.

There are two types of multiple journal entries. The following table describes these types. In each case, you are defining multiple members that correspond to a single header dimension. You can use both types in one journal entry, and in conjunction with other, but you can only define one header dimension as a multi-member/single value type, and one header dimension as a multi-member/multi-value type.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Member/Single Value</td>
<td>Allows you to post the same value to two or more members of one of the header dimensions.</td>
</tr>
<tr>
<td>Multi-Member/Multi-Value</td>
<td>Allows you to post different values to two or more members of one of the header dimensions.</td>
</tr>
</tbody>
</table>

To define multiple journal entries

1. From BPC for Excel, select Journals from the Getting Started action pane.
2. Select Enter a new journal.
3. At the prompt, “Do you want to create multiple journal entries based on a single header,” click Yes.
4. Do one or both of the following:
   - If you want the journal entry to use the same value across multiple members, select a dimension and the desired members in the Multi-Member/Single Value section.
   - If you want the journal entry to have different credit/debit values across multiple members, select a dimension and the desired members in the Multi-Member/Multi-Value section.

   Use the Ellipsis buttons to search for available members.
5. Click OK.
6. Complete the remaining fields in the journal entry form, then save the form. See Creating journal entries.

When you define a journal query, the system always returns the first journal entry of a multi-journal group, even if it does not match the criteria. For example, if you filter the journals by time, say, 2007.Mar, the system shows journals from 2007.Jan if 2007.Jan is the first entry in the multi-journal that includes an entry for 2007.Mar.
Defining journal reopen translations

When you use BPC to reopen journal transactions in a new period, you must define translation information for the dimensions you want to reopen. This is typically done for specific accounts, but translations can also be done for other detail dimensions.

The system provides a template you can use to define the translation information. When you open the translation template for the first time, the system creates a sample table based on the application set’s journal template. You can modify the template as needed.

After you enter the dimension conversion information in the table, then save the table, the information is sent to the database. The next time you open the translation table, the heading and data information is read from the database. After the table is defined, you can perform the reopen at any time. See Reopening journal entries.

The following table describes the contents of the translation table:

<table>
<thead>
<tr>
<th>Column Heading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC_TYPE</td>
<td>This column displays the four required account types: AST, EXP, INC, and LEQ. The first time the system creates the translation workbook for an application, these required account types are used. You can add additional account types by adding new rows, but these account types must remain in the template.</td>
</tr>
<tr>
<td>ACCOUNT_PROP</td>
<td>This field is reserved for future use.</td>
</tr>
<tr>
<td>s_&lt;detail_dimension_ID&gt;</td>
<td>Use this column to enter the name of the detail dimension from which you are copying the data. By default, an asterisk ( * ) means that the values are moved from their source accounts to accounts with the same names. To copy dimension information to a different dimension, enter the source member ID.</td>
</tr>
<tr>
<td>d_&lt;detail_dimension_ID&gt;</td>
<td>Use this column to enter the name of the detail dimension into which you are copying the data. By default, an asterisk ( * ) means that the values are moved from their source accounts to accounts with the same names. To copy dimension information to a different dimension, enter the source member ID.</td>
</tr>
<tr>
<td>Sign</td>
<td>One (1) keeps the value in the same credit or debit position. Negative one (-1) switches the value from the debit to credit, or credit to debit position.</td>
</tr>
</tbody>
</table>

To define a journal reopen translation

1. From BPC for Excel, open the journal entry form by selecting eTools > Journal.

   If the eTools > Journal option is not enabled, your administrator has not set up Journals for the active application.

2. Select eJournal > Translation to open the journal translation template.

3. Insert a new row for each additional account type in your application set by clicking the Add Row button. Then enter the account types in each new row.

   Remove rows by clicking the Remove Row button.

4. For each account or dimension you want to convert, enter the source and destination member IDs under the associated dimension.

5. If you want to switch the position of the value (from credit to debit or from debit to credit) of any account types, enter a -1 next in that row in the Sign column.

6. Click Save to save the translation table.
Deleting journal entries
You can delete one or more journal entries. When you delete an entry that has been posted or unposted, its status changes to Deleted. When you delete entries that are saved (not posted), they are deleted from the system.

To delete a journal entry
• From BPC for Excel, do one of the following:
  ▪ To delete an entry you are currently working on, select eJournal > Delete.
  ▪ To delete multiple entries, do the following:
    a. Define a journal query for the entries you want to delete. See Defining journal queries.
    b. Select the check box next to each journal entry you want to delete.
    c. Click Delete, then click Yes.

Using custom menus
A custom menu is a portal-like page that summarizes a business process, and links to important information used in that process. Custom menus provide an easy way for users to access BPC information that is relevant to them.

Opening custom menus
You open custom menus from the BPC for Excel Getting Started action pane.

To open a custom menu
1. Start BPC for Excel, and select Open custom menu from the Getting Started action pane.
2. Select the custom menu you want to open from the list.
3. Click the green OK button.

About the Custom Menu toolbar
After you open a report or input schedule from a custom menu, you can navigate between pages and tasks using the custom menu toolbar. The following table describes the custom menu toolbar buttons:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Home Icon]</td>
<td>Returns you to the custom menu’s home page.</td>
</tr>
<tr>
<td>![Back and Forward Icons]</td>
<td>Brings you back and forth between pages.</td>
</tr>
<tr>
<td>![Action Pane Icon]</td>
<td>Opens the action pane, where you can select a custom menu or BPC module to open.</td>
</tr>
<tr>
<td>![Dimension Icons]</td>
<td>These dimensions are defined by an administrator when setting up the custom menu. You can select any member from the list to change the information that is displayed in the custom menu. See Defining custom menu content</td>
</tr>
</tbody>
</table>

Creating custom menus
Administrators can create custom menus and define security rights to them so they can only be seen by specific groups. For example, you may want certain users to enter data in input schedules or journals, and you want other users to just see published reports.
You can also create one custom menu, but with different views for each type of user. Users access the custom menus to which they have access from BPC action pane.

For information on adding a custom menu template to the BPC action pane, see Adding custom menus in Administration Help.

About custom menu templates

A custom menu template is where you define custom menus. You can use a sample template, such as ProcessActual.xlt or ProcessFunctions.xlt, provided with ApShell to create new custom menu templates. The sample templates have workbooks that contain several interacting worksheets. One worksheet shows a preview of what the custom menu looks like (EV_RESULT), another allows you to design the format of the custom menu (EV_MENUSTYLE), and there are two worksheets that contain sample content that you can modify (EV_DEFAULT and AdminGroup). The two worksheets that contain sample content are designed for all users and administrator users, respectively.

You can access the sample workbooks by logging into the Finance application in the sample application set, ApShell, then selecting eTools > Custom Menu Manager > Open custom menu, and then selecting ProcessActual.xlt.

The worksheets are:

EV_RESULT

The EV_RESULT sheet shows what the custom menu actually looks like to viewers. You do not make any changes to this sheet. If you make any changes to it, they are lost when you add the custom menu to the action pane.

EV_MENUSTYLE

You define the format of the custom menu in the EV_MENUSTYLE worksheet. See Defining custom menu format.

EV_DEFAULT

The EV_DEFAULT worksheet is where the contents of the custom menu is defined. A default custom menu is provided with the sample application set, ApShell, which can be modified. For example, if you want a specific group to see a version of this custom menu, you can copy the sheet, name it, and modify the menu items. See Creating custom menu templates.

AdminGroup

The AdminGroup worksheet is similar to the EV_DEFAULT worksheet, but modified for users in administrator groups. For example, it contains links to tasks that only administrator's can do.

You can modify this worksheet, or copy and rename it, to meet your needs.

Creating custom menu templates

You can create custom menus using the templates provided by the sample application set, ApShell. In addition, you can create a custom menu for a specific group by creating a new worksheet within an existing custom menu.

To create a custom menu template

1. Log on to ApShell and start BPC for Excel.
2. Select eTools > Custom Menu Manager > Open custom menu.
3. Select an Excel template on which to base the new custom menu.
   
   The sample custom menu templates are saved in excel/Reports/Wizard/ProcessMenu.
4. Modify the template, as required. See Defining custom menu content and Defining custom menu format.
5. Select eTools > Custom Menu Manager > Test Current Worksheet to confirm that the sheet has been properly designed. This generates an EV_RESULT worksheet for whichever group you are defining the sheet.
6. Select **eTools > Custom Menu Manager > Save custom menu**, and save the workbook with a new name.

7. Select **eAdmin > Manage Process Selector**, and add and test the new custom menu. **See Adding custom menus (in Admin Help).**


9. Start BPC for Excel and open a custom menu. **See Opening custom menus.**

### Defining custom menu format

You can define the format of a custom menu using the EV_MENUSTYLE worksheet of the custom menu template. The template can be used as is provided, or you can modify its format and layout.

You use variables to define where you want information to be placed. The following variables are available:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%ProcessDescription%</td>
<td>The ProcessDescription variable sets the location of the description of the process. The description comes from the ProcessDescription column in the Process.xls workbook. When you validate the process selector from the Admin module, the descriptions are made available in the custom menus. <strong>See Adding custom menus (in Admin Help).</strong></td>
</tr>
<tr>
<td>%Section%</td>
<td>The <strong>Section</strong> variable defines the location and format for menu items designated as Section (highest-level) headings.</td>
</tr>
<tr>
<td>%Item%</td>
<td>The <strong>Item</strong> variable defines the location and format for menu items designated as normal-level headings.</td>
</tr>
<tr>
<td>%SubItem%</td>
<td>The <strong>SubItem</strong> variable defines the location and format for menu items designated as lowest-level headings.</td>
</tr>
<tr>
<td>%Blank%</td>
<td>The <strong>Blank</strong> variable defines the format for blank cells in the custom menu.</td>
</tr>
<tr>
<td>%Highlight%</td>
<td>The <strong>Highlight</strong> variable defines the range of the area to use for highlight reports. This is bounded by %highlight% in the upper-left and lower-right corners of the region. You can display other reports in this region by using the appropriate custom menu functions.</td>
</tr>
</tbody>
</table>

### To define custom menu format

1. From BPC for Excel, select **eTools > Custom Menu Manager > Open custom menu**.

2. Select a custom menu template on which to base the new custom menu. **See Creating custom menu templates.**

   ![The sample custom menu template is saved in excel/Reports/Wizard/ProcessMenu, and is called ProcessActual.xlt.](image)

3. Select the **EV_MENUSTYLE** tab.

4. Use Excel’s formatting (Format > Cells) to define colors, fonts, and other options for each variable on the page. (The table above describes the variables.)

5. Select **eTools > Custom Menu Manager > Save custom menu**.

6. Select **eTools > Custom Menu Manager > Test custom menu**.

7. Repeat steps 4-7 until you are happy with the format.
Defining custom menu content

Custom menu content includes the current view and the menu items displayed on the custom menu. You define custom menu content by modifying two sections contained in the custom menu template on the EvDefault tab. The sections are:

Default section (%Default%)

You define default parameters in the Default section. The options are:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Options &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMALSCREEN</td>
<td>True - Opens the custom menu in a standard Excel interface. False (default) - Opens the custom menu in a window with only the standard Excel, BPC for Excel, and Custom Selector toolbar.</td>
</tr>
<tr>
<td>HIDEEVTOOBARS</td>
<td>True (default) - Hides the BPC toolbars. False - Displays the BPC toolbars.</td>
</tr>
</tbody>
</table>

CVLIST

In the CVLIST section you define which dimensions are displayed on the top of the custom menu page. Dimensions defined here can be changed by the user in the report that is highlighted in the custom menu. See Menu Items section, below.

The format for the current view definition is <dimension>, <dimension>, where <dimension> is an application dimension. For example, you can type Entity,Category,Time in the cell.

The members that are displayed next to the dimensions are defined in the Custom Menu definition file, process.xls. See Adding custom menus (in Admin Help).

The default current view setting can be further modified by the CVOverride parameter for each menu item, as described below.

Menu Items section (%MenuItem%)

The menu item section defines the menu items that are displayed on the left side of the custom menu page. The menu item section has the header %MenuItem%. The menu item section allows you to define the following information:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%MenuItem%</td>
<td>The description is the text that the user can click to invoke the menu item. You type the description in the %MenuItem% column.</td>
</tr>
<tr>
<td>Level</td>
<td>You can select from Section, Item, or Subitem. The format for each of these levels corresponds to the format defined in the EV_MENUSTYLE sheet. See Defining custom menu format</td>
</tr>
<tr>
<td>Action</td>
<td>The action can be any one of the following:</td>
</tr>
<tr>
<td></td>
<td>• HIGHLIGHT</td>
</tr>
<tr>
<td></td>
<td>• A custom menu function</td>
</tr>
<tr>
<td></td>
<td>• A BPC menu command</td>
</tr>
</tbody>
</table>

Highlight

The Highlight action makes the report specified in the parameters the default report that is displayed in the right pane of the custom menu. Highlight is actually a specific custom menu function (see Using custom menu functions: Highlight).
### Variable Description

For this function, you must define the report name, the worksheet to display, the region to display, whether to shrink to fit, and which highlight report is the default report that displays when the custom menu is opened. These items correspond to parameters P1, P2, P3, and P4.

#### Custom menu functions

You can use custom menu functions to perform several standard Excel tasks. Examples of custom menu functions include HIGHLIGHT, OpenWeb, CHANGEGROUP, and OPENLOCALFILE.

- Open workbooks or folders
- Help the user navigate
- Open websites
- Open BPC Web pages
- Create a book

**See Using custom menu functions**

#### BPC menu commands

BPC menu commands are custom functions that begin with MNU_. These menu commands can be used as is. That is, you do not need to define any parameters.

**See BPC menu commands**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are only required to define parameters for custom menu functions.</td>
<td></td>
</tr>
<tr>
<td><strong>See Using custom menu functions</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### CVOverride

Use this column to change current view dimensions when switching between applications. For example, you enter the following string, where finance and finSave are applications.

```
finance\]category=budget;entity=saleskorea;time=2005.Jan|finance2\]category=actual;time=2006.total
```

The delimiter for each application is `|` and the delimiter for each dimension is `;`

To use this functionality, an administrator must set up the custom menu to look at two different applications. **See Adding custom menus (in Admin Help).**

#### NormalScreen

By default, custom menus are shown in Full Screen mode. You can set the custom menu to open in normal screen mode by setting this option to True. (Default is False).

NormalScreen only affects the following custom menu functions: OPENLOCALFILE, OPENWEBFILE, OPENLOCALFOLDER, and OPENWEBFOLDER. This option has no affect on other custom menu functions, which all use Full Screen mode.

**To define custom menu content**

1. From BPC for Excel, select **eTools > Custom Menu Manager > Open Custom Menu.**
2. Select a custom menu template on which to base the new custom menu. See Creating custom menu templates.

The sample custom menu template is saved in excel/Reports/Wizard/ProcessMenu, and is called ProcessActual.xlt.

3. Select the tab that corresponds to the users for whom you want to modify the custom menu.

For example, if you are modifying the custom menus for end users, select the EV_DEFAULT tab. If you are modifying the custom menu for administrators, select the AdminGroup tab.

4. Under the %Default% heading, specify the desired options. See Default section, above.

5. In the rows under the %MenuItem% heading (the Menu Item section) of the template, enter the menu items to display on the custom menu. See Menu Item section, above. Add as many as you want, and delete the items that you do not want to display.

6. Select eTools > Custom Menu Manager > Save Custom Menu.

7. Select eTools > Custom Menu Manager > Test Custom Menu. If there are no errors found, you are done.

Using custom menu functions

Custom menu functions are used to define the available links in custom menu templates. You specify the custom menu function in the Action column in the template.

💡 You can also use BPC menu commands as links to actions. See BPC menu commands.

Functions can include one or more parameters. You enter the parameters in the P1, P2, P3, and P4 columns of the custom menu template. If a function has less than four parameters, you can leave the remaining parameter cells blank.

The CVOverride column allows you to change current view dimensions when you switch between applications. See CVOverride.

The custom menu functions are:

HIGHLIGHT
OPENLOCALFILE
OPENFILE
OPENWEBFILE
OPENLOCALFOLDER
OPENWEBFOLDER
MEMBERLOOKUP
OPENMYEVEREST
OPENURL
NAVIGATION
CHANGEGROUP
PUBLISHBOOK
MNU Commands

HIGHLIGHT
HIGHLIGHT(WorkbookName, WorksheetName, Region[(shrink)], DEFAULT)

Use this function to allow users to display a workbook in the right pane of the custom menu. You can allow the entire workbook to be displayed, or a region of the workbook. You can also shrink the page to fit
within the designated area. The designated area is delineated by the first %HIGHLIGHT% cell and the last %HIGHLIGHT% cell.

You can assign multiple items to HIGHLIGHT, but only one may be designated as the DEFAULT item, which displays when the custom menu is opened.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Report</td>
<td>Section</td>
<td>HIGHLIGHT</td>
<td>Reports\Wizard\ProcessMenu\template1.xlt</td>
<td>Overview</td>
<td>i39:ae90(shrink)</td>
<td>DEFAULT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a section link called Main Report. When clicked, the range i39:ae90 from the Overview worksheet in the Template1.xlt workbook is displayed in the %highlight% area. The view is shrunk to fit the display area.

In addition, since the P4 parameter is assigned DEFAULT, this report is displayed by default in the %highlight% area when the custom menu is opened. One HIGHLIGHT function can be assigned DEFAULT per group worksheet.

**OPENLOCALFILE, OPENFILE**

OPENLOCALFILE(WorkbookName), OPENFILE(WorkbookName)

Use the OPENLOCALFILE function to allow users to open a workbook that is saved on a local file system. This is typically a local version of a workbook in the Wizard directory.

Use the OPENFILE function to open a file saved on a BPC server. If a relative path is defined, the path defaults to the BPC /<appset>/<app>/eExcel. You can also define a full path.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis</td>
<td>Item</td>
<td>OPENLOCALFILE</td>
<td>Reports\Wizard\Local\Analysis\A01Entity.xlt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analysis</td>
<td>Item</td>
<td>OPENFILE</td>
<td>Reports\Wizard\Local\Analysis\A01Entity.xlt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays an 'Item' link called Analysis. When clicked, the A01Entity.xlt workbook opens in BPC for Excel.

**OPENWEBFILE**

OPENWEBFILE(WorkbookName)

Use the OPENWEBFILE function to allow users to open a workbook saved in a BPC webfolder.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web File</td>
<td>Item</td>
<td>OPENWEBFILE</td>
<td>eExcel\Reports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link called Web File. When clicked, the A01Entity.xlt workbook opens in BPC for Excel.

**OPENLOCALFOLDER**

OPENLOCALFOLDER(LocalFolder)

Use the OPENLOCALFOLDER function to allow users to open the Open dialog box, from which they can select a file from a local directory.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Reports</td>
<td>Item</td>
<td>OPENLOCALFOLDER</td>
<td>eExcel\Reports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Result:** The custom menu displays a link called 'See Reports.' When clicked, the Open dialog box opens to the eExcel\Reports folder.

**OPENWEBFOLDER**

OPENWEBFOLDER(WebfolderURL)

Use the OPENWEBFOLDER function to allow users to open the Open dialog box, from which they can select a file from the Webfolder directory.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Reports</td>
<td>Item</td>
<td>OPENWEBFOLDER</td>
<td>eExcel/Reports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link called 'See Reports.' When clicked, the Open dialog box opens to the eExcel\Reports folder.

**MEMBERLOOKUP**

MEMBERLOOKUP(DimensionName)

Use the MEMBERLOOKUP function to allow users to open the Member Lookup dialog box for the corresponding dimension name. After the user selects a member, the system changes the current view of the report displayed in the %highlight% area.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Entity Member</td>
<td>Item</td>
<td>MEMBERLOOKUP</td>
<td>Entity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link called Change Entity Member. When clicked, the Member Lookup dialog box is displayed for the Entity dimension. After the user selects a member, the %highlight% report is redisplayed showing the updated current view.

**OPENMYEVEREST**

OPENMYEVEREST(BPC Web URL)

Use the OPENMYEVEREST function to allow users to open BPC Web. If no BPC Web URL is specified, the default BPC Web page opens (http://<server_name>/osoft).

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ossoftWeb</td>
<td>Item</td>
<td>openMyEverest</td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link called 'ossoftWeb.' When clicked, the BPC Web home page opens in a web browser.

**OPENURL**

OPENURL(URL)

Use the OPENURL function to allow users to open a specified web page.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>CVOverride</th>
<th>NormalScreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google</td>
<td>Item</td>
<td>OPENURL</td>
<td><a href="http://www.google.com">http://www.google.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link called Google. When clicked, the Google page opens in a web browser.
NAVIGATION
NAVIGATION(NavType)

Use the NAVIGATION function to allow users to perform a specified action. You can define the following actions: Change Process (open the action pane), Home, Back, Forward, and Exit (exits BPC for Excel).

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut Down</td>
<td>Item</td>
<td>Navigation</td>
<td>Exit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home</td>
<td>Item</td>
<td>Navigation</td>
<td>Home</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back</td>
<td>Item</td>
<td>Navigation</td>
<td>Back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward</td>
<td>Item</td>
<td>Navigation</td>
<td>Forward</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back to Process Selector</td>
<td>Item</td>
<td>Navigation</td>
<td>Change Process</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays five links (Shut Down, Home, Back, Forward, and Back to Process Selector). When clicked, the designated action occurs.

CHANGEGROUP
CHANGEGROUP(GroupName)

This item allows users to switch to other group custom menus without having to log out and log back in. The specified group sheet name must be contained in the same workbook.

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Group</td>
<td>Item</td>
<td>CHANGEGROUP</td>
<td>UserGroup</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Result:** The custom menu displays a link under the BPC Web link called 'Change Group.'

PUBLISHBOOK
PUBLISHBOOK(FileType, (Company), BookName, SectionNames)

This item allows users to run the book publication wizard while automatically passing in parameters. The following table describes the parameters to define.

<table>
<thead>
<tr>
<th>Column name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%MenuItem%</td>
<td>&lt;Display name&gt;</td>
</tr>
<tr>
<td>Level</td>
<td>Item</td>
</tr>
<tr>
<td>Action</td>
<td>PUBLISHBOOK</td>
</tr>
<tr>
<td>P1</td>
<td>Options are: PDF, HTML, or HTM</td>
</tr>
<tr>
<td>P2</td>
<td>(Company)</td>
</tr>
<tr>
<td>P3</td>
<td>&lt;Name of report&gt;</td>
</tr>
<tr>
<td>P4</td>
<td>&lt;Section name(s)&gt;</td>
</tr>
</tbody>
</table>

**Example:**

<table>
<thead>
<tr>
<th>%MenuItem%</th>
<th>Level</th>
<th>Action</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
</tr>
</thead>
<tbody>
<tr>
<td>View HIGHLIGHT</td>
<td>Section</td>
<td>HIGHLIGHT</td>
<td>Reports\Wizard\ProcessMenu\MenuReports\M01 Summary</td>
<td>Default</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Go home</td>
<td>Item</td>
<td>NAVIGATION</td>
<td>Home</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Using BPC for Word and PowerPoint

BPC for Word and BPC PowerPoint are thin clients that allow you to send and retrieve BPC data, insert KPIs, and enter and view comments in your documents and slideshows.

Getting started in BPC for Word
With BPC for Word, you can perform many tasks on BPC data contained in your documents.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert Insight KPI</td>
<td>Once defined in BPC Web, KPIs, can be added to your Word documents. When you are connected to a BPC server, the KPI will update based on the current date. See Inserting KPIs</td>
</tr>
<tr>
<td>Send data values</td>
<td>Allows you to send data values, based on the current view, to the database. See Sending data values</td>
</tr>
<tr>
<td>Expand all</td>
<td>Allows you to expand functions contained in embedded BPC objects.</td>
</tr>
<tr>
<td>Retrieve a data value</td>
<td>Allows you to retrieve data values, based on the current view, from the database. Clicking this link refreshes data values in the entire slideshow. See Submitting and managing data</td>
</tr>
<tr>
<td>Insert BPC data</td>
<td>Allows you to insert a value from the database based on the current view. Clicking this link inserts a placeholder. Select Retrieve a data value to get the value.</td>
</tr>
<tr>
<td>Insert BPC object</td>
<td>Allows you to embed a BPC report or input schedule in your document.        See Inserting BPC objects</td>
</tr>
</tbody>
</table>

Getting started in BPC for PowerPoint
With BPC for PowerPoint, you can perform many tasks on BPC data contained in your slide shows.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert Insight KPI</td>
<td>Once defined in BPC Web, KPIs, can be added to your PowerPoint slides. When you are connected to a BPC server, the KPI will update based on the current date. See Inserting KPIs</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Send data values</td>
<td>Allows you to enter and send a data value, based on the current view, to the database.</td>
</tr>
<tr>
<td></td>
<td><strong>See Sending data values</strong></td>
</tr>
<tr>
<td>Expand all</td>
<td>Allows you to expand functions contained in embedded BPC objects.</td>
</tr>
<tr>
<td>Retrieve a data value</td>
<td>Allows you to retrieve data values, based on the current view, from the database. Clicking this link refreshes data values in the entire slideshow.</td>
</tr>
<tr>
<td></td>
<td><strong>See Submitting and managing data</strong></td>
</tr>
<tr>
<td>Insert BPC data</td>
<td>Allows you to insert a value from the database based on the current view.</td>
</tr>
<tr>
<td></td>
<td>Clicking this link inserts a placeholder. Select <strong>Retrieve a data value</strong> to get the value.</td>
</tr>
<tr>
<td>Insert BPC object</td>
<td>Allows you to embed a BPC report or input schedule in your slide.</td>
</tr>
<tr>
<td></td>
<td><strong>See Inserting BPC objects</strong></td>
</tr>
</tbody>
</table>

### Inserting data values

Allows you to insert a value from the database based on the current view.

Clicking this link inserts a placeholder. Select **Retrieve a data value** to get the value.

### Sending data values

After at least one data value has been inserted in your document or slideshow, you can use the "Send data values" command to send the values to the database.

If there are multiple inserted data values, this command sends all of them to the database.

### Inserting KPIs

**Key Performance Indicators (KPIs)** are quantifiable measurements that reflect the critical success factors of the company, department, or project. Using Insight, you can define KPIs to track how certain accounts are doing.

Once defined, they can be tracked in Insight, or added to your Word documents or PowerPoint slides. When you are connected to a BPC server, the KPI will update based on the current date.

#### To insert a KPI

1. From BPC for Word or PowerPoint, log on to the application set and application that contains the KPI you want to add.
2. Open the document or slide where you want to add the KPI.
3. From the action pane, select **Insert KPI**, then select the KPI you want to insert.
4. Select what to display, such as the KPI ID, description, actual value or variance value, then click **OK**.

💡 Click **Retrieve all data values** from the action pane to refresh all the KPI values in the Word document or PowerPoint slide.

### Inserting BPC objects

You can insert a BPC report or input schedule into a Word document or PowerPoint slide. The report or input schedule you want to embed must be saved on the BPC server.
If you insert an input schedule, you can enter data and use the "Send data values" command to submit it to the database. If you insert a report, you can use the "Expand All" and "Retrieve data values" commands to refresh data.

**To insert a BPC object**

1. From BPC for Word or PowerPoint, log on to the application set and application that contains the report to which you want to insert an embedded object.
2. From the **Getting Started - BPC for Word (or PowerPoint)** action pane, then select **Insert BPC for Excel object**.

**Analyzing predictions using Insight**
You can analyze a selected KPI's predictions from Word or PowerPoint.

**To analyze a prediction using Insight**

1. From BPC for Word or BPC for PowerPoint, open a document or slideshow that contains the KPI for which you want to view a prediction.
2. Select the KPI, then select **View Prediction** from the action pane.

**Analyzing variances using Insight**
You can analyze a selected KPI's variance from Word.

**To analyze a variance using Insight**

1. From BPC for Word or BPC for PowerPoint, open a document or slideshow that contains the KPI for which you want to view a variance.
2. Select the KPI, then select **View Variance Analysis** from the action pane.

**BPC functions and formulas**
All BPC reports and input schedules use custom BPC functions (Ev functions) to retrieve, send, and display data. Ev functions are commands that, when used in conjunction with cell references and values in formulas, make a report behave in a certain way, providing power and flexibility to BPC reports and input schedules.

This reference section details the types of functions available, and a description, the syntax, and examples for each function.

There are several types of functions you can use in your workbooks. They can be logically grouped in these function types:

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actionable functions</td>
<td>Functions that are used within reports or input schedules to drill to other reports or input schedules, show the current view settings for dimensions, use in custom command buttons and custom menu links, and link to BPC Web content and documents. Actionable functions include EvHOT, EvCVW, EvMBR, EvMNU, and EvHNV. <strong>See Actionable functions</strong></td>
</tr>
<tr>
<td>Exchange functions</td>
<td>Functions that return or send values to BPC databases based on specified criteria. Value functions are: EvDRE and EvINP. <strong>See Exchange functions</strong></td>
</tr>
<tr>
<td>Expansion functions</td>
<td>Functions that allow dynamic expansion of dimensional data in your reports and input schedules. Expansion functions include EvEXP, EvENE, EvLST, EvNXP, EvPXR, and</td>
</tr>
</tbody>
</table>
### Text functions

Functions that return text strings. These text strings can be used to display information, or as parameters in other functions.

Text functions include `EvAPP`, `EvASD`, `EvAST`, `EvDES`, `EvDIM`, `EvPRO`, `EvPRP`, `EvRTI`, `EvSVR`, and `EvUSR`.

See [Text functions](#).

### Value functions

Functions that return or send one or more values to BPC databases, based on specified criteria.

Value functions include `EvBET`, `EvGET`, `EvGTS`, `EvSEN`, `EvSND`, and `EvTIM`.

See [Value functions](#).

---

### Inserting functions

You can insert functions in reports and input schedules to build formulas. You can use the formulas to create or modify reports and input schedules, or to convert Excel workbooks to BPC.

#### To insert a function

1. From BPC for Excel, open the report/input schedule where you want to insert the function.
2. Select the desired cell, then select **Insert function** from the **Report/Schedule State** action pane.
3. Select a function, then select **Insert the selected function using the function wizard**.
4. Enter a value for each parameter, then click **OK**. (Parameters are described for each function in the appropriate function's topic.)

You can also use **eTools > Function Wizard** to insert a function using the Function Wizard.

---

### BPC menu commands

The following menu commands can be used when adding custom buttons to reports and input schedules, and when designing custom menu templates. This topic describes MNU and Administrator OnMNU commands.

#### Menu commands

The following table describes the BPC menu commands.

<table>
<thead>
<tr>
<th>Menu command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNU_eANALYZE_REFRESH</td>
<td>Recalculates reports.</td>
</tr>
<tr>
<td>MNU_eANALYZE_OPENSTANDARD</td>
<td>Opens the report library.</td>
</tr>
<tr>
<td>MNU_eANALYZE_OPENMY</td>
<td>Opens the MyReports report folder.</td>
</tr>
<tr>
<td>MNU_eANALYZE_SAVEMY</td>
<td>Saves the report to the MyReports folder.</td>
</tr>
<tr>
<td>MNU_eANALYZE_REPORTWIZARD</td>
<td>Launches the dynamic template report dialog box.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFRESHINPUTCELL</td>
<td>Refreshes EvSND cells in an input schedule.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDULE_SHEET_NOAC</td>
<td>Sends data without clearing or refreshing.</td>
</tr>
<tr>
<td>Menu command</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TION</td>
<td></td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_SHEET_CLEAR</td>
<td>Sends data and clears input cells.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_SHEET_REFRESH</td>
<td>Sends data and refreshes the worksheet.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_SHEET_CLEARANDREFRESH</td>
<td>Sends data and clears and refreshes the worksheet.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_BOOK_NOACTION</td>
<td>Sends data without clearing or refreshing the worksheet.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_BOOK_NOACTION_SHOWRESULT</td>
<td>Sends data without clearing or refreshing the worksheet, and shows the result in a window upon successful send.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_BOOK_CLEAR</td>
<td>Sends workbook and clears data.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_BOOK_REFRESH</td>
<td>Sends workbook and refreshes data.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFSCHEDELE_BOOK_CLEARANDREFRESH</td>
<td>Sends workbook and clears data and refreshes workbook.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_REFRESH</td>
<td>Refreshes the schedule without sending data.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_OPENSTANDARD</td>
<td>Opens the schedule library.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_OPENMY</td>
<td>Opens the MySchedules folder.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_SAVEMY</td>
<td>Saves the input schedule to the MySchedules folder.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_SCHEDULE</td>
<td>Opens the dynamic schedule template dialog box.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_VALIDATE</td>
<td>Validates the data submission.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_CURRENT</td>
<td>Opens the Send and Refresh Schedules dialog box.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_SUBMIT</td>
<td>Submits supporting documents.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_ONLINE</td>
<td>Collaborates on input schedules.</td>
</tr>
<tr>
<td>MNU_eSUBMIT_MODIFY</td>
<td>Opens the work status action pane in BPC Web.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OPENPUBLICATION</td>
<td>Opens BPC Web directory.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHSHEET</td>
<td>Publishes a worksheet to BPC Web.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_WIZARD</td>
<td>Launches the book publication wizard.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_NEW</td>
<td>Creates a new book.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_EDIT</td>
<td>Edits a book.</td>
</tr>
<tr>
<td><strong>Menu command</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_SAVE</td>
<td>Saves the current book.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_SAVEAS</td>
<td>Opens the Save As dialog box.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_PUBLISHBOOK_VALIDATE</td>
<td>Validates the current book.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_WIZARD</td>
<td>Opens the Distribution Wizard.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_NEW</td>
<td>Creates a new offline report.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_EDIT</td>
<td>Edits offline options.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_SAVE</td>
<td>Saves the offline report.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_SAVEAS</td>
<td>Opens the Save As dialog box.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_OFFLINE_VALIDATE</td>
<td>Validates an offline report.</td>
</tr>
<tr>
<td>MNU_ePUBLISH_VIEWeDASH</td>
<td>Opens BPC Web.</td>
</tr>
<tr>
<td>MNU_eTOOLS_CHANGEAPP</td>
<td>Opens the Change Application Set dialog box.</td>
</tr>
</tbody>
</table>
| MNU_eTOOLS_MEMBERSELECTOR_x | Opens the Member Lookup for the specified dimension type. The dimension types are:  
  - A - account  
  - C - category  
  - E - Entity  
  - T - Time  
  - F - Measures  
  - I - Intercompany  
  - Ua - Ux - User defined dimensions  
  For example, if you enter MNU_eTOOLS_MEMBERSELECTOR_E, the Member Lookup will open to the Entity dimension. |
<p>| MNU_eTOOLS_FUNCTIONWIZARD | Opens the Function Wizard. |
| MNU_eTOOLS_EXPAND | Expands all dynamic expansions. |
| MNU_ETOOLS_EXPANDANDREFRESH | Combines the effects of the MNU_eTOOLS_EXPAND and MNU_eTOOLS_REFRESH macros. Performs an expand all for dynamic expansions and then refreshes from the server. |
| MNU_eTOOLS_REFRESH | Refreshes reports and input schedules from the server. |
| MNU_ETOOLS_PARKNGO | Opens the Park N Go dialog box. |
| MNU_eTOOLS_JOURNAL | Opens the Journal form. (Only available if Journals are set up on the server.) |
| MNU_eJOURNAL_QUERY | Opens the Journal Manager. (Only available if Journals are set up on the server.) |</p>
<table>
<thead>
<tr>
<th>Menu command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNU_eJOURNAL_REPORT</td>
<td>Opens the Journal Report Wizard. (Only available if Journals are set up on the server.)</td>
</tr>
<tr>
<td>MNU_eTOOLS_OPENSTANDARD</td>
<td>Opens the template library.</td>
</tr>
<tr>
<td>MNU_eTOOLS_SAVESTANDARD</td>
<td>Saves to template library.</td>
</tr>
<tr>
<td>MNU_eTOOLS_UPDATEAPPINFO</td>
<td>Refreshes dimensions from server.</td>
</tr>
<tr>
<td>MNU_eTOOLS_DRILLDOWN</td>
<td>Performs drill down on current cell.</td>
</tr>
<tr>
<td>MNU_eTOOLS_DRILLDOWN_BACK</td>
<td>Reverses last drill down.</td>
</tr>
<tr>
<td>MNU_eTOOLS_DRILLDOWN_FORWARD</td>
<td>Performs a drill down that was undone by the DRILLDOWN_BACK task.</td>
</tr>
<tr>
<td>MNU_eTOOLS_DRILLTHROUGH</td>
<td>Performs drill through on current cell.</td>
</tr>
<tr>
<td>MNU_eTOOLS_DATAMANAGER</td>
<td>Opens the Data Manager and adds the eData menu.</td>
</tr>
<tr>
<td>MNU_eTOOLS_OPTION</td>
<td>Opens the Client Options dialog box.</td>
</tr>
<tr>
<td>MNU_eTOOLS_WBOPTION</td>
<td>Opens the Workbook Options dialog box.</td>
</tr>
<tr>
<td>MNU_eTOOLS_HELP</td>
<td>Opens BPC for Office Help in a web browser.</td>
</tr>
<tr>
<td>MNU_eTOOLS_ABOUT</td>
<td>Opens the About BPC dialog box.</td>
</tr>
<tr>
<td>EVGOTOHOMESHEET</td>
<td>Returns you to the first sheet in the workbook.</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="The first sheet must be named Home." /></td>
</tr>
<tr>
<td>MNU_eData_RUNPACKAGE</td>
<td>Opens the Data Manager Run Package dialog box. Allows users who have access to run database packages.</td>
</tr>
<tr>
<td>MNU_eDATA_SELECTPACKAGE</td>
<td>Open a specific Data Manager package.</td>
</tr>
</tbody>
</table>
|                            | ![Syntax for this command is](image)
|                            | MNU_eDATA_SELECTPACKAGE(<package name>, <package file path>, <teamname>, <package group>) |
|                            | For only this menu command, the parameters are part of the MacroName so you must leave the Parameter section blank. For example, if you have MNU_eData_SelectPackage("import","examples/import.dts","HQ") in cell A1, FX Restatement in cell A2, your EvMNU function would be: EvMNU(A1,A2.). |
| MNU_eDATA_VIEWSTATUS       | Opens the Data Manager View Status dialog box.                              |
| MNU_eDATA_ORGANIZEPACKAGE  | Opens the Data Manager Organize Package dialog box.                         |
### Menu command

<table>
<thead>
<tr>
<th>Menu command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNU_eDATA_MANAGESITEPACKAGE</td>
<td>Opens the Data Manager Manage Team User Package Access dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_DATAPREVIEW</td>
<td>Opens the Data Manager Data Preview dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_DATAUPLOAD</td>
<td>Opens the Data Manager Data Upload dialog box. Allows users who have access to upload data files to the server perform data transformations.</td>
</tr>
<tr>
<td>MNU_eData_DataDownload</td>
<td>Opens the Data Manager Data Download dialog box. Allows users who have access to download data files from the server.</td>
</tr>
<tr>
<td>MNU_eDATA_NEWTRANSFORMATION</td>
<td>Creates a new Data Manager Transformation sheet.</td>
</tr>
<tr>
<td>MNU_eDATA_OPENTRANSFORMATION</td>
<td>Opens the Data Manager Open Transformation dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_SAVETRANSFORMATION</td>
<td>Saves the active Transformation sheet.</td>
</tr>
<tr>
<td>MNU_eDATA_SAVESTRANSFORMATION</td>
<td>Opens the Data Manager Save As Transformation Sheet dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_NEWCONVERSIONFILE</td>
<td>Creates a new Data Manager conversion file.</td>
</tr>
<tr>
<td>MNU_eDATA_OPENCONVERSIONFILE</td>
<td>Opens the Data Manager Open Conversion File dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_SAVECONVERSIONFILE</td>
<td>Saves the active conversion file.</td>
</tr>
<tr>
<td>MNU_eDATA_SAVEASCONVERSIONFILE</td>
<td>Shows the Data Manager Save as Conversion File dialog box.</td>
</tr>
<tr>
<td>MNU_eDATA_NEWCONVERSIONSHEET</td>
<td>Creates a new Conversion Sheet in the active Conversion workbook.</td>
</tr>
<tr>
<td>MNU_eDATA_CLEARPROMPTVALUE</td>
<td>Clears saved Data Manager prompt values.</td>
</tr>
<tr>
<td>MNU_eDATA_TESTTRANSFORMATIONWDATA</td>
<td>Opens the Data Manager Test Transformation with Data dialog box. (Only for administrators who want to test their Conversion sheets.)</td>
</tr>
</tbody>
</table>

### Administrator OnMnu functions

The following table describes the OnMnu functions available for custom menus. You can see a sample of these functions in use in the PSFunctions custom menu available with ApShell. These functions should only be used on administrator custom menus, since they can only be performed by administrators.

<table>
<thead>
<tr>
<th>OnMnu function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OnMnuEditMember</td>
<td>Opens the Admin Console, with the Dimension Library node selected. From here, you can select the desired dimension, then select Maintain dimension members from the action pane to edit the desired member.</td>
</tr>
<tr>
<td>OnMnuValidateMember</td>
<td>Opens the Admin Console, with the Dimension Library node selected. From here, you can select Process dimensions from the action pane to process one or more dimensions.</td>
</tr>
<tr>
<td>OnOpenUserExcel</td>
<td>Opens the Admin Console, with the Security node selected. From here, you can drill down to the desired user name, and select Modify user from</td>
</tr>
</tbody>
</table>
the action pane to edit the user's properties.

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OnMnuValidPart</td>
<td>Opens the Admin Console, with the <strong>Security</strong> node selected.</td>
</tr>
<tr>
<td>OnOpenProcessSelector</td>
<td>Opens the Admin Console, with the <strong>Custom Menus</strong> node selected. From here, you can modify the Custom Menu table, which changes the way custom menus are displayed in the BPC for Office action pane.</td>
</tr>
<tr>
<td>OnMnuProcessCube</td>
<td>Opens the Admin Console, with an application node selected. From here, you can select <strong>Select Optimize application</strong>, where you can choose one or more applications to process.</td>
</tr>
<tr>
<td>OnMnuEditFormula</td>
<td>Opens the Admin Console, with an application node selected. From here, you can modify the script logic for the desired application.</td>
</tr>
<tr>
<td>OnMnuEditOtherFormula</td>
<td>See OnMnuEditFormula.</td>
</tr>
<tr>
<td>OnMnuValidateFormula</td>
<td>Opens the Admin Console, with an application node selected. From here, you can validate the script logic for the desired application.</td>
</tr>
<tr>
<td>OnSystemUpdateControl</td>
<td>Opens the Admin Console, with the application set node selected. From here, you can select an application set task to perform.</td>
</tr>
<tr>
<td>OnMnuEmailNotification</td>
<td>This function is not supported in this release.</td>
</tr>
</tbody>
</table>

### Using custom VBA functions

BPC for Excel provides several custom functions that allow you to automate some of the tasks required for your business processes. The custom functions are available for use when building VBA macros in BPC for Excel. You should be familiar with building VBA macros in order to use these functions.

BPC for Excel provides the following custom functions:

- BEFORE_CHANGECVW
- AFTER_CHANGECVW
- BEFORE_REFRESH
- AFTER_REFRESH
- BEFORE_SEND
- AFTER_SEND
- BEFORE_EXPAND
- AFTER_EXPAND

#### BEFORE_CHANGECVW

You use the BEFORE_CHANGECVW function to execute a custom operation before changing the Current View.

```vba
Option Explicit
Function BEFORE_CHANGECVW(Argument As String)
    'Process content
    MsgBox Argument
    BEFORE_CHANGECVW = True
End Function
```
**AFTER_CHANGECVW**

You use the `AFTER_CHANGECVW` function to execute a custom operation after changing the Current View.

```vbnet
Function AFTER_CHANGECVW(Argument As String)
    MsgBox Argument
    AFTER_CHANGECVW = True
End Function
```

**BEFORE_REFRESH**

You use the `BEFORE_REFRESH` function to execute a custom operation after the user changes the Current View.

```vbnet
Function BEFORE_REFRESH(Argument As String)
    MsgBox Argument
    BEFORE_REFRESH = True
End Function
```

**AFTER_REFRESH**

You use the `AFTER_REFRESH` function to execute a custom operation after BPC for Excel refreshes data.

```vbnet
Function AFTER_REFRESH(Argument As String)
    MsgBox Argument
    AFTER_REFRESH = True
End Function
```

**BEFORE_SEND**

You use the `BEFORE_SEND` function to execute a custom operation before BPC for Excel sends data.

```vbnet
Function BEFORE_SEND(Argument As String)
    MsgBox Argument
    BEFORE_SEND = True
End Function
```

**AFTER_SEND**

You use the `AFTER_SEND` function to execute a custom operation after BPC for Excel sends data.

```vbnet
Function AFTER_SEND(Argument As String)
    MsgBox Argument
    AFTER_SEND = True
End Function
```

**BEFORE_EXPAND**

Besides being used in online reporting, this event can be used to execute custom code at the beginning of a batch process, such as book publishing or offline distribution.

```vbnet
Function BEFORE_EXPAND(Argument As String)
    MsgBox Argument
    BEFORE_EXPAND = True
End Function
```
End Function

AFTER_EXPAND

Besides being used in online reporting, this event can be used to execute custom code at the end of a batch process, such as book publishing or offline distribution.

Function AFTER_EXPAND(Argument As String)
    MsgBox Argument
    AFTER_EXPAND = True
End Function

Text functions

Text functions are functions that return text strings. These text strings can be used to display information or as parameters in other functions.

The BPC text functions are:

- EvAPP
- EvASD
- EvAST
- EvDES
- EvDIM
- EvPRO
- EvRTI
- EvSVR
- EvUSR

EvAPP

The EvAPP (Application) function returns the current application name.

Syntax
EvAPP()

Example
The following example returns Finance, if the current application is Finance.

EvASD

The EvASD (application set description) function returns the description of the application set.

Syntax
EvASD(EvAST())

Example
The following example returns the description for ApShell, if the current application set is ApShell.

EvAST

The EvAST (Application set) function returns the name of the current application set.
Syntax
EvAST()

Example
The following example returns APSHELL if logged on to the sample application set, ApShell.

EvAST()

EvDES
The EvDES (Description) function returns the description of a specified member. If the same member name is used in more than one dimension, you must specify the fully qualified member ID, which includes the dimension name. Use the following syntax: "Dimension:Member."

Syntax
EvDES(MemberID,AppName)

Parameter | Description
---|---
MemberID | The member ID for which you want to return a description.
AppName | The name of the application. This is required if the corresponding dimension does not exist in the active application.

Example
The following examples return Headcount, when cell A2 contains the member ID HC.

EvDES(A2)
EvDES("HC")

The following example returns Japanese Yen, when Japanese Yen is the description of the member JPY in the Rate application.

EvDES ("JPY","RATE")

EvDIM
The EvDIM (Dimension) function retrieves a dimension name of the specified type from the database.

Syntax
EvDIM("AppName", "DimType")

Parameter | Description
---|---
AppName | The name of the application.
DimType | The dimension types are:
  * A=Account
  * E=Entity
  * C=Category
  * T=Time
  * I=Intercompany
  * Un=User defined - Each user defined dimension is assigned a numeric value after the U, U1, U2, U3, etc.

Example
The following examples return ACCOUNT.

EvDIM(EvApp(), "A")
EvDIM("Finance", "A")

**EvLCK**

The EvLCK (Lock) function retrieves information about work status.

**Syntax**

EvLCK("AppName", "Parameter","Member1, Member2, etc.")

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Parameter</td>
<td>The parameter values are:</td>
</tr>
<tr>
<td></td>
<td>• 0=Status</td>
</tr>
<tr>
<td></td>
<td>• 1=User</td>
</tr>
<tr>
<td></td>
<td>• 2=Time</td>
</tr>
<tr>
<td>Member1 - n</td>
<td>Member names used to qualify the returned work status information.</td>
</tr>
</tbody>
</table>

**EvPRO**

The EvPRO (Property value) function returns the value of a specified property for a specified member.

**Syntax**

EvPRO(AppName,Member,Property)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Member</td>
<td>The name of the member for which you want to return the property value.</td>
</tr>
<tr>
<td>Property</td>
<td>Property for which to return its value.</td>
</tr>
</tbody>
</table>

**Example**

The following example returns USD, if the currency value for the member Sales is U.S. dollars.

=EVPRO("Finance","Sales","Currency")

**EvPRP**

The EvPRP (Property list) function returns the properties of a specified dimension.

**Syntax**

EvPRP(AppName,Dimension,Destination Range)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Dimension</td>
<td>The name of the dimension for which you want to return the properties.</td>
</tr>
<tr>
<td>Destination Range</td>
<td>The references for the destination cells.</td>
</tr>
<tr>
<td>InApp</td>
<td>True returns properties stored in the OLAP cube. False returns all properties.</td>
</tr>
</tbody>
</table>
**Example**
The following example returns CALC, GROUP, HLEVEL, ORGANIZATION, and STYLE, since they are InApp properties of the Category dimension.

```
EvPRP("Finance","Category","Sheet1!A1:A5","true")
```

**EvRTI**
The EvRTI function returns the time and date of the last data refresh.

**Syntax**

```
EvRTI()
```

**Example**
The following example returns **11/2/2004 12:20:16 PM**, if that was the last time the cell was refreshed.

```
=EvRTI()
```

**EvSVR**
The EvSVR (BPC Web Server) function returns the name of the web server to which the user is connected.

**Syntax**

```
EvSVR()
```

**Example**
The following example returns **Http://CorpServ01** if the current server is CorpServ01.

```
EvSVR()
```

**EvUSR**
The EvUSR (User ID) function returns the name of the user who is logged on to BPC.

**Syntax**

```
EvUSR()
```

**Example**
The following example returns **JSmith**, if Joe Smith is currently logged on to BPC.

```
EvUSR()
```

**OsAMT**
The OsAMT (application measure type) function returns the measure type of the application.

**Syntax**

```
OSAMT(application)
```

**Example**
The following example returns **YTD**, if the **Finance** application is a year-to-date application.

```
=OSAMT("Finance")
```

**Actionable functions**
Actionable functions are used within BPC for Excel reports and input schedules to drill to other reports or input schedules, show the current view settings for dimensions, use in custom command buttons and custom menu links, and link to BPC Web content and documents.

The following limitations apply when using actionable functions. These limitations are required by Microsoft Excel in order to allow actionable functions to create click-able hotspots.
• Actionable functions cannot be embedded inside another formula
• They can have only one other Ev function embedded within their parameters
• They cannot be located in merged cells

The BPC actionable functions are:

• EvHOT
• EvCVW
• EvMNU
• EvHNV
• EvCGT
• EvCGP

**EvHOT**

The EvHOT ("hot link") function sets up a hot link to another report or cell within another report. Hot links can be used to guide a user through ad-hoc analysis. They are commonly used in Process Selector reports, and can be used to switch between reports contained in different applications.

The sample BPC application set, ApShell, provides a sample report called *Hot Analysis* that utilizes EvHOT functions. See About the report library.

**Syntax**

`EvHOT(AppName, ReportName, DisplayName, Member1, Member2, Member3, Member4, Member5)`

**Parameter** | **Description**
--- | ---
AppName | The name of the application.

There is a setting in Workbook Options that allows the system to memorize the current view with a workbook.

If the setting is disabled (which is the default), when you switch to a new application using EvHOT, the application in the current view is also changed, and other reports that you access in that session will attempt to get data from that application.

But if you enable the setting for a workbook, the current view will revert to the workbook’s application setting when switching focus to it.

See Setting workbook options

ReportName | The name of the report. The root directory for BPC reports is the Wizard directory for the given application. Use *eTools > Save Template Library* option when creating the report.
DisplayName | The text the user clicks to go to the specified report location.
[dim:]member1-N | (Optional) The CurrentView member. You can list as many members as you want.

**Example**

The following example creates a hot spot labeled **2003 Quarter 1** that the user can click to drill down.

```plaintext
EvHot("Finance", "Report1", "2003 Quarter 1", "2003.Q1")
```
**EvCVW**

The EvCVW (CurrentView) function returns the current view setting for the specified dimension. When the cell containing the function is double-clicked, EvCVW returns a list of all the members for the dimension, optionally filtered by the **FilterList** parameter.

**Syntax**

EvCVW(AppName, Dimension, FilterList)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Dimension</td>
<td>The name of the dimension for which you want to return the members.</td>
</tr>
<tr>
<td>FilterList</td>
<td>(Optional) Allows you to return only members with specified property values.</td>
</tr>
</tbody>
</table>

**Example**

The following example returns the current view for the Finance application, Entity dimension. Double-clicking the cell returns a list of all members filtered by "CALC=N" and by "GROUP=SALES."

```
EvCVW("Finance","Entity","CALC=N;GROUP=SALES")
```

**EvMBR**

The EvMBR (Member) function allows you to select a member from Member Lookup dialog box by double-clicking on the cell that contains the formula. The selected member ID is returned as the value of the cell.

The EvMBR function is similar to the EvCVW function, but EvCVW is used to change the current view for its associated dimension. The EvMBR function returns the ID of the selected member to the cell without changing the current view.

You can use this function to change, for example, the member for a page, row, or column key that must be hard-coded in the report or input schedule, and does not have to come from the BPC current view.

**Syntax**

EvMBR(Application Name, Member Name)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Name</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Member Name</td>
<td>The ID of the member to display in the cell.</td>
</tr>
</tbody>
</table>

**Example**

The following example returns the Stats member in the cell. If you double-click on Stats within the workbook, the Member Lookup dialog box is displayed. You can select another member to display in that cell.

```
=EVMBR("FINANCE","Stats")
```

**EvMNU**

The EvMNU (menu) function allows you to create links that launch BPC menu tasks, modules, or run macros. These functions are commonly used in custom menus (see Defining menu content: Action) and for adding custom buttons to your reports and input schedules (see Adding custom buttons).

**Syntax**

EvMNU(MacroName, DisplayName, Parameter)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MacroName</td>
<td>The name of the macro you want to invoke. BPC provides several custom macros that contain the prefix MNU. See BPC menu</td>
</tr>
</tbody>
</table>
You can also use the following macro commands in addition to the MNU menu commands.

- **OPENFILE** — Opens a workbook. Defaults to the Everest/Webfolders/<appset>/*app*//eExcel directory, unless a full path is defined.
- **CLOSEEXCEL** — Shuts down Microsoft Excel.
- **OPENWEBFOLDER** — Opens the named Webfolder.
- **SETCV** — Sets the CurrentView. An example might be:
  \[
  \text{EvMNU(SETCV,,ENTITY=SalesUS;TIME=2004.JAN)}
  \]

You can string multiple EvMNU functions together using the "&" operator. For example, you can set the CurrentView for a file you are opening like this:

\[
\text{EvMNU("SETCV","Category=actual;time=2003.Q4;")}
\&\text{EvMNU("openfile","Click Here","filename.xls")}
\]

See BPC menu commands.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display Name</strong></td>
<td>The text the user clicks to launch the menu task.</td>
</tr>
<tr>
<td><strong>Parameter</strong></td>
<td>The macro parameter. Most macros require information, such as file names or member names, in order to function. This is where you define that information.</td>
</tr>
</tbody>
</table>

**Example**

The following example creates a hyperlink named "Analysis" that opens the *myAnalysis.xls* workbook.

\[
\text{EvMNU("OPENFILE","Analysis","c:\my documents\Everest\myAnalysis.xls")}
\]

**EvHNV**

The EvHNV (Hyperlink Navigator) function sets up a hyperlink to a web page.

The EvHNV function has been replaced with Excel’s `hyperlink` function. Since EvHNV may not work in reports that have been published to BPC Web, we recommend that you use `hyperlink` instead of EvHNV. However, this function is still available if you are still using it in your reports and input schedules.

**Syntax**

\[
\text{EvHNV(URL,Display Name)}
\]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>URL</strong></td>
<td>The web address that is the target of the hyperlink.</td>
</tr>
<tr>
<td><strong>Display Name</strong></td>
<td>The text the user clicks to go to the specified web location.</td>
</tr>
</tbody>
</table>

**Example**

When clicked, the following example shows the home page of the BPC website.

\[
\text{EvHNV("http://www.BPC.com","BPC Home")}
\]

or

\[
\text{\text{hyperlink("http://www.BPC.com","BPC Home")}}
\]
EvCGP

EvCGP (Get Partial Comment) retrieves returns comments based on a partially-qualified current view. Any members not specified in the function are ignored. The comments returned were added to the database using each one of the specified members, [ALL], or [None].

Syntax
EvCGP(Application Name, Member1, Member2, etc.)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Name</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Member1 - n</td>
<td>The ID of the member from which to get associated comments.</td>
</tr>
</tbody>
</table>

EvCGT

EvCGT (Get Comment) retrieves comments for a fully-specified current view. Any members not specified in the function are taken from the current view. The comments returned were added to the database using each one of the specified members or [ALL].

Syntax
EvCGT(Application Name, Member1, Member2, etc.)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Name</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Member1 - n</td>
<td>The ID of the member from which to get associated comments.</td>
</tr>
</tbody>
</table>

Linking functions

Linking functions are used with Excel's hyperlink function to return references to books or documents on BPC Web. For example, you can add the EvBNV function to a report or input schedule that references a book posted on a BPC Web page. When a user clicks on the returned hyperlink, the specified book is displayed.

The BPC linking functions are:
- EvBNV
- EvDNV

EvBNV

The EvBNV (Book Navigation) function returns a hyperlink to a report in a published book. You can optionally specify specific members within the report to display.

Syntax
EvBLK(Application, Book name, Section name, Report name, TargetWindow, Member1, Member2...Member n)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Book name</td>
<td>The name of the containing book.</td>
</tr>
<tr>
<td>Section name</td>
<td>The name of the section of the book you want to reference.</td>
</tr>
<tr>
<td>Report name</td>
<td>The name of the report you want to reference.</td>
</tr>
</tbody>
</table>
Parameter | Description
---|---
TargetWindow | Determines where to display the specified report.
  0 = same frame (default)
  1 = same window
  2 = new window

[Dim:]Member1-N | (Optional) One or more members you want to see in the report.

Example
The following example displays a URL called View the Book. When clicked, a report called Trend.xlt from the WeeklyForecast book corresponding to SalesUSEast in the Finance application is displayed.

```
Hyperlink(EvBNV("Finance","WeeklyForecast","Trend.xlt","SalesUSEast"),"View the Book")
```

EvDNV
The EvDNV (Document Navigation) function allows users to display a list of documents posted to the Content Library page of BPC Web.

Syntax
EvDNV(Application, Document type, SubType, Description, Start date, End date, Sort field, Ascending order, Target window, Member1,..,Member10)

Parameter | Description
---|---
Application (optional) | The name of the application where the documents reside. If left blank, all documents from all applications in the active application set are displayed.
Document type (optional) | The document type under which the documents are saved. If left blank, all document types are returned.
Subtype (optional) | The subtype under which the documents are saved. If left blank, all document subtypes are returned.
Description (optional) | The document description (title).
Start date | A starting date from which to search the Content Library list for the document.
The format must be **7-22-2006**.
End date | An ending date to which to search the Content Library list for the document.
The format must be **7-22-2006**.
Sort field (optional) | | 0 = Title  
  1 = Type  
  2 = Subtype  
  3 = Application (context)  
  4 = Date
Ascending order (optional) | 0 = Ascending  
  1 = Descending
TargetWindow (optional) | Determines where to display the documents.
  0 = Same frame (default)
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• 1 = Same window</td>
</tr>
<tr>
<td></td>
<td>• 2 = New window</td>
</tr>
<tr>
<td>Member1 - Membern</td>
<td>One or more members, to display documents with a specific application context.</td>
</tr>
<tr>
<td>(Optional)</td>
<td></td>
</tr>
</tbody>
</table>

**Example**

The following example displays a URL called **View Document**. When clicked, a page containing a document called **Europe**, pertaining to the **Finance** application and posted by **jsmith** is displayed in the Content Library BPC Web.

```plaintext
Hyperlink(EvDNV("Finance","Europe","jsmith","Time",0),"View Document")
```

**OsCLD**

The OsCLD (Content Library Document) function allows users to display a document from the Content Library page of BPC Web.

**Syntax**

```plaintext
OsCLD(Application, FileName, Team, Type, Target window)
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application (optional)</td>
<td>The name of the application where the document resides. If left blank, the application is taken from the current view.</td>
</tr>
<tr>
<td>FileName (optional)</td>
<td>The name of the document to display.</td>
</tr>
<tr>
<td>Team (optional)</td>
<td>The team that has access to this document.</td>
</tr>
<tr>
<td>Type (optional)</td>
<td>The document type.</td>
</tr>
<tr>
<td>TargetWindow (optional)</td>
<td>Determines where to display the documents.</td>
</tr>
<tr>
<td></td>
<td>• 0 = Same frame (default)</td>
</tr>
<tr>
<td></td>
<td>• 1 = Same window</td>
</tr>
<tr>
<td></td>
<td>• 2 = New window</td>
</tr>
</tbody>
</table>

**Example**

The following example displays a document called **BPC_5.pdf**. The document must be previously posted to the Content Library of BPC Web.

```plaintext
=OSCLD("Finance","BPC_5.pdf",,"Doc",2)
```

**Expansion functions**

When expansion functions are used in reports and input schedules, users can dynamically expand dimensional data based on criteria defined in the expansion formula. In the expansion formula, you can specify whether to expand the report by row, column, or both, and on which member to base the expansion criteria. By clicking on a cell that contains an expansion formula, the report is restructured to include the new members, while maintaining its original design.

The BPC expansion functions are:

- EvEXP
- EvENE
- EvLST
• EvNXP
• EvPXR
• EvSET

**EVEXP**

The EvEXP (Expand) expansion function performs row or column expansions.

**Syntax**

EvEXP(AppName, Member, KeyRange, DataRange, ExpandDown, IncludeFlag, LevelDown, ParentBefore, Filter, RepeatBlock)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The current application name.</td>
</tr>
<tr>
<td>Member</td>
<td>The dimension member on which you would like to base your expansion.</td>
</tr>
<tr>
<td>KeyRange</td>
<td>The beginning point and ending point for the expansion.</td>
</tr>
<tr>
<td></td>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if</td>
</tr>
<tr>
<td></td>
<td>ExpandDown is False).</td>
</tr>
<tr>
<td></td>
<td>For example, say you have a report that totals departmental expenses. The</td>
</tr>
<tr>
<td></td>
<td>individual expense accounts are listed in rows A13 through A20, and a</td>
</tr>
<tr>
<td></td>
<td>summation account (TotalDepartmentalExpenses) is in row A21. You want to</td>
</tr>
<tr>
<td></td>
<td>be able to use this report for other accounts as well. To do this, add the</td>
</tr>
<tr>
<td></td>
<td>EvEXP function to the report, and specify the KeyRange as rows A13 through</td>
</tr>
<tr>
<td></td>
<td>A20. Leaving row A21 out of the KeyRange allows the summation row to always</td>
</tr>
<tr>
<td></td>
<td>come after the account no matter how many, or how few rows are added to the</td>
</tr>
<tr>
<td>DataRange</td>
<td>The DataRange specifies what area of the report to copy when the report is</td>
</tr>
<tr>
<td></td>
<td>expanded. This property maintains the report structure by copying the</td>
</tr>
<tr>
<td></td>
<td>formulas and formatting of the first row of the range, and copying it to</td>
</tr>
<tr>
<td></td>
<td>all the new rows upon expansion.</td>
</tr>
<tr>
<td></td>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if</td>
</tr>
<tr>
<td></td>
<td>ExpandDown is False).</td>
</tr>
<tr>
<td>ExpandDown</td>
<td>(Optional) TRUE = expand members by row (default). FALSE = expand members by</td>
</tr>
<tr>
<td></td>
<td>column.</td>
</tr>
<tr>
<td>IncludeFlag</td>
<td>(Optional) The members to include in the expansion. Options include:</td>
</tr>
<tr>
<td></td>
<td>SELF (Default) Returns the current member</td>
</tr>
<tr>
<td></td>
<td>EVDPS Returns the current member and its dependents</td>
</tr>
<tr>
<td></td>
<td>EVDEP Returns the current member’s dependents</td>
</tr>
<tr>
<td></td>
<td>EVBSS Returns the current member and its base level members</td>
</tr>
<tr>
<td></td>
<td>EVBAS Returns the current member’s base level members</td>
</tr>
<tr>
<td></td>
<td>EVALS Returns the current member and all members below it</td>
</tr>
<tr>
<td></td>
<td>EVALL Returns all members below the current member</td>
</tr>
<tr>
<td></td>
<td>EVMembers Returns all members, above and below the current member</td>
</tr>
<tr>
<td></td>
<td>You can also use any of the following MDX functions:</td>
</tr>
<tr>
<td>&quot;BEFORE&quot;</td>
<td>(Default) Returns descendant members from LevelDown value only. Includes «</td>
</tr>
<tr>
<td></td>
<td>Member», if and only if LevelDown value specified is the level of «Member».</td>
</tr>
</tbody>
</table>
### Parameter Description

- **"AFTER"**
  Returns descendant members from all levels subordinate to LevelDown value.

- **"LEAVES"**
  Returns leaf descendant members irrespective of the level.

- **"SELF_AND_AFTER"**
  Returns descendant members from LevelDown value and all levels subordinate to LevelDown value.

- **"SELF_AND_BEFORE"**
  Returns descendant members from LevelDown value and all levels between «Member» and LevelDown value.

- **"SELF_BEFORE_AFTER"**
  Returns descendant members from all levels subordinate to the level of «Member»

- **"BEFORE_AND_AFTER"**
  Returns descendant members from all levels subordinate to the level of «Member» except members from LevelDown value.

### LevelDown
(Optional) Used with MDX flags to specify how many levels within a hierarchy to display.

### ParentBefore
(Optional) TRUE puts parent before children. FALSE puts parent after children.

### Filter
(Optional) Uses conditional MDX statements to base expansion on member properties, and to specify fixed dimension members.

The Filter property is used in conjunction with the IncludeFlag property. The value in the IncludeFlag is filtered based on the value, or condition, of the Filter property.

For example, say you use the following formula:

```
EVEXP($B$1,$B$2,A17:A40,B17:H40,","Evmembers",FALSE,$A$2&
 .currentmember.properties(""&C2&"")) ="" & D2 &""
```

...where $A$2 is the dimension name, &C2& is the property name, and &D2& is the property value. If "Account.Revenue&ACCTYPE = INC", then all income accounts would be displayed in the KeyRange.

If you change the Account from Revenue to CostofGoodsSold, the ACCTYPE would change to EXP, and all expense accounts would be displayed in the key range.

Cell C2 must contain the property name (that is, ACCTYPE) and cell D2 must contain an EvPRO formula that returns the property value of the member/property combination.

### RepeatBlock
(Optional) Repeats a block of cells for each member. Works similar to DataRange, except blocks of cells are copied.

### Example
For the Row Expansion formula =EvEXP($B$1,$B$3,A17:A20,B17:H20,","Evdep",FALSE,,$A$2&
 .currentmember.properties(""&C2&"")) ="" & D2 &"")

The breakdown of the formula, which displays the dependents of the current entity member, is:

- **$B$1** = Budgeting (the current application)
- **$B$3** = Sales (the current member)
- **A17:A20** = the KeyRange
- **B17:H20** = the DataRange
- **"" = ExpandDown. The default for ExpandDown is TRUE, or blank
- **"EVDEP"** = IncludeFlag. EvDEP returns all dependents of the current member

...
"" = LevelDown. The default value for level down is 1, or blank
FALSE = ParentBefore. FALSE puts the parent after the children.

**EVENE**

The EvENE (Nested expansion) function is an enhanced version of EvEXP. It supports sorting and ranking to allow more flexibility in building your expansion formulas. EvENE directly supports expansions across a single dimension or across multiple dimensions. Unlike EvEXP, with EvENE you supply your own MDX Set expression by defining the dynamic list of members. Fully qualified dimensions must be referenced, as the current view is not considered in the resulting values.

**Syntax**

EvENE(AppName, KeyRange, DataRange, SetExpression, ExpandDown, RepeatBlock)

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The current application name.</td>
</tr>
<tr>
<td>KeyRange</td>
<td>The beginning point and ending point for the expansion.</td>
</tr>
<tr>
<td></td>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if</td>
</tr>
<tr>
<td></td>
<td>ExpandDown is False).</td>
</tr>
<tr>
<td></td>
<td>The KeyRange must contain the same number of rows (or columns) as dimensions</td>
</tr>
<tr>
<td></td>
<td>in the SetExpression.</td>
</tr>
<tr>
<td>DataRange</td>
<td>The DataRange specifies what area of the report to copy when the report is</td>
</tr>
<tr>
<td></td>
<td>expanded. This property maintains the report structure by copying the</td>
</tr>
<tr>
<td></td>
<td>formulas and formatting of the first row of the range, and copying it to</td>
</tr>
<tr>
<td></td>
<td>all the new rows upon expansion.</td>
</tr>
<tr>
<td></td>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if</td>
</tr>
<tr>
<td></td>
<td>Expand down is False).</td>
</tr>
<tr>
<td>SetExpression</td>
<td>The set expression is equivalent to the filter in an EvEXP function. It tells</td>
</tr>
<tr>
<td></td>
<td>BPC what members to return and in what fashion to return them. The set</td>
</tr>
<tr>
<td></td>
<td>expression can be an EvSET formula (see EvSET) or an MDX expression</td>
</tr>
<tr>
<td></td>
<td>(see MDX Expressions for sorting and ranking).</td>
</tr>
<tr>
<td>ExpandDown</td>
<td>(Optional) TRUE = expand members by row (default). FALSE = expand members</td>
</tr>
<tr>
<td></td>
<td>by column.</td>
</tr>
<tr>
<td>RepeatBlock</td>
<td>(Optional) Repeats a block of cells for each member. Works similar to</td>
</tr>
<tr>
<td></td>
<td>DataRange, except blocks of cells are copied.</td>
</tr>
</tbody>
</table>

**Example**

In the following example, the application name is Finance, the KeyRange is A31:A60, and the DataRange is B31:G60. The Set expression is EVSET("WorldWide1","SELF_AND_BEFORE",99,TRUE,EVPXR("ENTITY","SalesUS","CURRENCY") & "=""USD"").

```
=EVENE("Finance",A31:A60,B31:G60,EVSET("WorldWide1","SELF_AND_BEFORE",99,
TRUE,EVPXR("ENTITY","SalesUS","Currency") & "=""USD""))
```

Notice that the Set expression formula contains two Ev functions, EvSET and EvPXR. The functions can be nested within EvENE and EvLST functions to help create the expansion formula.

In the example above, the EvSET and EvPXR formulas are contained within the EvENE formula. You can also break these functions into separate cells and just reference those cells in your EvENE formula. This way, maintenance of the “pieces” of the formula is easier.

You should never use EvNXP for a nested expansion if you are using EvENE. For a nested expansion with EvENE, you include the nested expansion expression with the CrossJoin, NonEmptyCrossJoin, etc., for defining the multi-dimension expansion. Then you must ensure that
the KeyRange includes the same number of columns (for row expansion) or rows (for column expansion) as the dimensions you are expanding across.

For example, if your MDX expression is:

```
Crossjoin({[Revenue],[CostofSales],[GM]},{[SalesItaly],[SalesFrance],[SalesUK]})
```

and you are expanding rows, then your KeyRange must be two columns wide.

**EVLST**

The EvLST (List property) function returns a list of unique values for a given property into a specified range of cells. The EvLST function is useful for building dynamic selection lists for user-selected expansions.

**Syntax**

```
EvLST(AppName,DimensionName,SetExpression,Target,PropertyName,ExpandDown,RepeatDuplicates)
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The current application name.</td>
</tr>
<tr>
<td>DimensionName</td>
<td>The dimension member on which you would like to base your expansion.</td>
</tr>
<tr>
<td>SetExpression</td>
<td>The string that tells EvLST what members to return.</td>
</tr>
<tr>
<td>Target</td>
<td>The range of cells where the results are written.</td>
</tr>
<tr>
<td>PropertyName</td>
<td>(Optional) The name of the property for which to list the values. The default value is &quot;ID&quot;</td>
</tr>
</tbody>
</table>

**Example**

The following example returns the currency for **WorldWide1** and all its children.

```
```

**EVNXP**

The EvNXP (Nested expansion) function allows users to perform nested expansions. Nested expansions let you expand one or more dimensions next to each other. You must have a minimum of two expands in order to perform a nested expansion.

The "Nested Row" report template and the "Nested row" input schedule template use the nested expansion formula. See About the report wizard: Nested row and About the Schedule wizard: Nested row, respectively.

**Syntax**

```
EvNXP(KeyRange,DataRange,Filter,RepeatBlock,expand1,expand2,expand3...expand10)
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KeyRange</td>
<td>The beginning point and ending point for the expansion.</td>
</tr>
<tr>
<td></td>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if ExpandDown is False).</td>
</tr>
<tr>
<td>DataRange</td>
<td>The DataRange specifies what area of the report to copy when the report is expanded.</td>
</tr>
<tr>
<td></td>
<td>This property maintains the report structure by copying the formulas and formatting of the first row of the range, and copying it to all the new rows upon expansion.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Must be a minimum of two rows (if ExpandDown is True) or two columns (if Expand down is False).</td>
<td></td>
</tr>
<tr>
<td>Filter</td>
<td>(Optional) Uses conditional MDX statements to base expansion on member properties, and to specify fixed dimension members. For example, say you use the following formula:</td>
</tr>
</tbody>
</table>
|               | \[ EVNXP($B$1,$B$2,A17:A40,B17:H40,,"EvMembers",FALSE,$A$2& 
|               | .currentmember.properties(""&C2&"""" ="" & D2 &"""") \]                                                                                                                                                    |
|               | ...where \$A\$2 is the dimension name, &C2& is the property name, and &D2& is the property value. If "Account.Revenue&ACCTYPE = INC", then all income accounts would be displayed in the KeyRange.                                                                                                        |
|               | If you change the Account from Revenue to CostofGoodsSold, the ACCTYPE would change to EXP, and all expense accounts would be displayed in the key range.                                                                                                                   |
|               | Cell C2 must contain the property name (that is, ACCTYPE) and cell D2 must contain an EvPRO formula that returns the property value of the member/property combination.                                                                                                       |  |
| RepeatBlock   | (Optional) Repeats a block of cells for each member. Works similar to DataRange, except blocks of cells are copied.                                                                                           |  |
| Expand1-N     | Represent the Expansions in the report or input schedule.                                                                                                                                                   |  |

**Example**

The following example shows how nested expansions work. In a report, say you have the Time dimension across the columns, and Entities and Categories down the rows. That means you have two row expansions defined: One for the Category (which returns all categories in the application) and one for the Entity (which returns all four dependents of the CurrentView member).

The following figure shows an example of what the report would look like with just the expansions. In this example, the expansion in row 10 for Category returned all categories, and the expansion in row 11 for Entities returned four dependents.

<table>
<thead>
<tr>
<th>Row Expansion:</th>
<th>TRUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row Expansion:</td>
<td>TRUE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Member</th>
<th>Level</th>
<th>Description</th>
<th>Total Year 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTUAL SalesUS</td>
<td>3</td>
<td>Actual</td>
<td>26,311</td>
</tr>
<tr>
<td>BUDGET SalesEurope</td>
<td>3</td>
<td>CurrentBudget</td>
<td>5,706,695</td>
</tr>
<tr>
<td>FCST SalesAsia</td>
<td>3</td>
<td>Forecast</td>
<td>42,017</td>
</tr>
<tr>
<td>NBUDGET SalesAdj</td>
<td>3</td>
<td>New Budget</td>
<td>31.051</td>
</tr>
<tr>
<td>NBUDGET1</td>
<td>1</td>
<td>New Budget V1</td>
<td>-</td>
</tr>
<tr>
<td>NBUDGET2</td>
<td>1</td>
<td>New Budget V2</td>
<td>-</td>
</tr>
<tr>
<td>NBUDGET3</td>
<td>1</td>
<td>New Budget V3</td>
<td>-</td>
</tr>
</tbody>
</table>
Say we add a nested expansion that performs an expansion for each combination of the two original expansions. The outcome is shown in the example below. As you can see, the nested expansion expanded each category for each entity. In the example with just two expands, only the first four categories and the first four entities matched up. Leaving the remaining categories with no value. With nested expansion added to the report you get the desired result which is a cross-join with each category and each entity.

| Row Expansion: | TRUE  
| Row Expansion: | TRUE  
| Nest Exp: | TRUE  

<table>
<thead>
<tr>
<th>Level</th>
<th>December 22, 2000</th>
</tr>
</thead>
</table>
| ACTUAL | Sales 2 Actual  
| ACTUAL | RD 2 Actual  
| ACTUAL | Manufacturing 2 Actual  
| ACTUAL | CorpCenters 3 Actual  
| BUDGET | Sales 2 Current Budget  
| BUDGET | RD 2 Current Budget  
| BUDGET | Manufacturing 2 Current Budget  
| BUDGET | CorpCenters 3 Current Budget  
| BUDGETV1 | Sales 2 Budget Version 1  
| BUDGETV1 | RD 2 Budget Version 1  
| BUDGETV1 | Manufacturing 2 Budget Version 1  
| BUDGETV1 | CorpCenters 3 Budget Version 1  
| BUDGETV2 | Sales 2 Budget Version 2  
| BUDGETV2 | RD 2 Budget Version 2  
| BUDGETV2 | Manufacturing 2 Budget Version 2  
| BUDGETV2 | CorpCenters 3 Budget Version 2  
| BUDGETV3 | Sales 2 Budget Version 3  
| BUDGETV3 | RD 2 Budget Version 3  
| BUDGETV3 | Manufacturing 2 Budget Version 3  
| BUDGETV3 | CorpCenters 3 Budget Version 3  
| FCST | Sales 2 Forecast  
| FCST | RD 2 Forecast  
| FCST | Manufacturing 2 Forecast  
| FCST | CorpCenters 3 Forecast  

**EVPXR**

The EVPXR (Property) function works in conjunction with the EvEXP, EvNXP, EvENE, EvSET and EvLST functions. Instead of using the Filter property in those functions, you can use the EVPXR function to return an MDX property expression.
The expression is returned in the form of DimensionName:memberName.Properties("PropertyName"). For example:

```
[Entity].[SalesUS].Properties("Currency")
```

This function can also return the dimension hierarchy name. For example:

```
[Entity.H1].[SalesUS].Properties("Currency")
```

**Syntax**

```
EvPXR("DimensionName","PropertyName","MemberName")
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DimensionName</td>
<td>The name of the dimension whose members you want to retrieve.</td>
</tr>
<tr>
<td>PropertyName</td>
<td>The name of the property you want to filter on.</td>
</tr>
<tr>
<td>MemberName</td>
<td>(Optional) The name of the member you want to filter on. If no member is specified, the current view member is used.</td>
</tr>
</tbody>
</table>

**Example**

In the following example, the **EvSET** function contains an **EvPXR** formula. The **EvPXR** formula will return SalesUS and its parents from the Entity dimension, whose currency value is USD and are descendants of WorldWide1.

```
EvSET("Finance","WorldWide1","SELF_AND_BEFORE",99,TRUE,EVPXR("Entity","SalesUS","Currency") & "=""USD"")
```

**EvSET**

The **EvSET** (Set expression) function works in conjunction with the **EvENE** and **EvLST** functions. On its own it has no impact on the behavior of a report, but in **EvENE** or **EvLST** functions, it creates a set expression. That set expression is used in the SetExpression parameter of the **EvENE** or **EvLST** function.

**Syntax**

```
EvSET(AppName,Member,IncludeFlag,LevelDown,ParentBefore,Filter)
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The current application name.</td>
</tr>
<tr>
<td>Member</td>
<td>The dimension member on which you would like to base the expansion.</td>
</tr>
<tr>
<td>IncludeFlag</td>
<td>(Optional) The members to include in the expansion. Options include:</td>
</tr>
<tr>
<td></td>
<td>SELF (Default) Returns the current member</td>
</tr>
<tr>
<td></td>
<td>EVDPS Returns the current member and its dependents</td>
</tr>
<tr>
<td></td>
<td>EVDEP Returns the current member’s dependents</td>
</tr>
<tr>
<td></td>
<td>EVBSS Returns the current member and its base level members</td>
</tr>
<tr>
<td></td>
<td>EVBAS Returns the current member’s base level members</td>
</tr>
<tr>
<td></td>
<td>EVALS Returns the current member and all members below it</td>
</tr>
<tr>
<td></td>
<td>EVALL Returns all members below the current member</td>
</tr>
<tr>
<td></td>
<td>EVMembers Returns all members, above and below the current member</td>
</tr>
</tbody>
</table>

You can also use any of the following MDX functions:
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;BEFORE&quot;</td>
<td>(Default) Returns descendant members from LevelDown value only. Includes «Member», if and only if LevelDown value specified is the level of «Member».</td>
</tr>
<tr>
<td>&quot;AFTER&quot;</td>
<td>Returns descendant members from all levels subordinate to LevelDown value.</td>
</tr>
<tr>
<td>&quot;LEAVES&quot;</td>
<td>Returns leaf descendant members irrespective of the level.</td>
</tr>
<tr>
<td>&quot;SELF_AND_AFTER&quot;</td>
<td>Returns descendant members from LevelDown value and all levels subordinate to LevelDown value.</td>
</tr>
<tr>
<td>&quot;SELF_AND_BEFORE&quot;</td>
<td>Returns descendant members from LevelDown value and all levels between «Member» and LevelDown value.</td>
</tr>
<tr>
<td>&quot;SELF_BEFORE_AFTER&quot;</td>
<td>Returns descendant members from all levels subordinate to the level of «Member».</td>
</tr>
<tr>
<td>&quot;BEFORE_AND_AFTER&quot;</td>
<td>Returns descendant members from all levels subordinate to the level of «Member» except members from LevelDown value.</td>
</tr>
</tbody>
</table>

**LevelDown** (Optional) Used with MDX flags to specify how many levels within a hierarchy to display.

**ParentBefore** (Optional) TRUE puts parent before children. FALSE puts parent after children.

**Filter** (Optional) Uses conditional MDX statements to base expansion on member properties, and to specify fixed dimension members.

The Filter property is used in conjunction with the IncludeFlag property. The value in the IncludeFlag is filtered based on the value, or condition, of the Filter property.

**Example**

The following formula returns WorldWide1 and all descendents whose Currency property value is USD. This EvSET formula is used in an EvENE function, as shown in the example below.

```plaintext
=EVSET(B1,B2,"SELF_AND_BEFORE",99,TRUE,EVPXR("Entity","SalesUS","Currency" ) & "=""USD"")
```

**Value functions**

Value functions are functions that return or send values to BPC databases based on specified criteria. The BPC value functions are:

- EvBET
- EvGET
- EvGTS
- EvINP
- EvSEN
- EvSND
- EvTIM
EvBET

EvBET (Better/worse) functions perform a better or worse comparison of two values, based on the account type (ACCTYPE) property of the account member. ACCTYPE has the following values:

- INC — Income
- EXP — Expense
- AST — Asset
- LEQ — Liabilities & Equity

Syntax

`EvBET(AppName,AccountMember,Cell1,Cell2)`

Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>AccountMember</td>
<td>The Account member.</td>
</tr>
<tr>
<td>Cell1</td>
<td>The cell reference of the one of the values in the comparison.</td>
</tr>
<tr>
<td>Cell2</td>
<td>The cell reference of the other value in the comparison.</td>
</tr>
</tbody>
</table>

Example

In the following example, if cell B2 is greater than cell C2 and the account is a revenue (income) account, the resulting variance is expressed as a positive. If the account is an expense account, the variance is negative.

```
EvBET("Finance","Revenue",B2,C2)
```

EvCOM

The EvCOM function references another cell and sends its value, a textual comment, to the database when specified.

Syntax

`EvCOM(CommentRange,AppName,Member1,Member2, and so on)`

Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommentRange</td>
<td>The cell reference of the input cell.</td>
</tr>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>[dim:]member1-N</td>
<td>You can specify as many members that you want. Any dimension that is not specified in the formula is taken from the current view.</td>
</tr>
</tbody>
</table>

Example

The following example sends the text value in cell D16 to the database.

```
EvCOM(D16,"Finance","Salaries","Budget","Jan2006")
```

EvGET

The EvGet (Get) function retrieves a data value based on one or more specified members.
All BPC report templates use the EvGTS function instead of the EvGET function, since the EvGTS function gets a value, and also allows you to scale the returned value. While the EvGET function is still available, we recommend using EvGTS instead. See EvGTS.

**Syntax**

\[
\text{EvGET("AppName","[dim:]member1","[dim:]member2",...","[dim:]memberN")}
\]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>[dim:]member1-N</td>
<td>You can specify as many members that you want. Any dimension that is not specified in the formula will be taken from the CurrentView. If you only supply the period and not the year, EvGET uses the year from the CATEGORY YEAR property. For example, EvGET(Jan,Budget,GlobalMotors, Revenue,AllProducts) uses whatever year is specified in the Budget category YEAR property. If that year is 2004, the example gets data for the period Jan.2004.</td>
</tr>
</tbody>
</table>

If the same member name is used in more than one dimension, you must specify the dimension name. Use this syntax: "dimension:member"

**Example**

The following example returns $500,000.00 from the database.

\[
\]

**EvGTS**

The EvGTS (Get value and scale) function retrieves a data value based on the specified members, and scales the value if the scale property is enabled on the dimension. See ScaleValue, below.

The report templates provided in the sample application set, ApShell, have a scale reference in the Control Panel area of the template. See Using control panels.

**Syntax**

\[
\text{EvGTS("AppName","ScaleValue","[dim:]member1","[dim:]member2","[dim:]memberN")}
\]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>ScaleValue</td>
<td>If the scale property in the Account-type dimension is &quot;Y,&quot; then EvGTS uses this value. If the scale property is &quot;N,&quot; this value is ignored. The scale value can be set to 1, 100, 1000, or 1,000,000. The default value in report templates is one (1). When the scale value is 1 (units), this function works identically like the EvGET function.</td>
</tr>
</tbody>
</table>


Parameter Description

[dim:]member1-N You can specify as many members that you want. Any dimension that is not specified in the formula will be taken from the CurrentView.

If you only supply the period and not the year, EvGTS uses the year from the CATEGORY YEAR property. For example, EvGTS(Jan,Budget,GlobalMotors, Revenue,AllProducts) uses whatever year is specified in the Budget category YEAR property. If that year is 2004, the example gets data for the period Jan.2004.

If the same member name is used in more than one dimension, you must specify the dimension name. Use this syntax: "dimension:member"

Example
The following example returns $500,000.00 from the database.

```plaintext
```

EvSEN

The EvSEN (Send without getting) function references another cell and sends its value to the server when you select eSubmit > Send and Refresh Schedules.

The parameters specify the dimensions that identify where the data value is to be sent in the database. EvSEN is similar to EvSND, except that EvSND sends the value, and gets the value if it already exists in the database.

You may want to use EvSEN instead of EvINP in order to protect the Ev formula you are using to send data to the database. By putting the formula in the EvSEN cell and not in the input cells, you decrease the chances of your formulas getting overwritten or erased. To further protect the formulas, you might want to hide the EvSEN cells in the input schedule. Another reason for using EvSEN instead of EvINP is to send a calculated value to the database. This way you can have a standard calculation formula in a cell and still be able to send the calculated value.

Syntax

```plaintext
EvSEN(ValueReference,"Application","[dim:]member1","[dim:]member2","[dim:]memberN")
```

Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValueReference</td>
<td>The cell reference of the input cell.</td>
</tr>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>[dim:]member1-N</td>
<td>You can specify as many members that you want. Any dimension that is not specified in the formula is taken from the CurrentView.</td>
</tr>
</tbody>
</table>

If the same member name is used in more than one dimension, you must specify the dimension name. Use this syntax: "dimension:member"

Example
The following example sends the value in cell D16 to the database.

```plaintext
EvSEN(D16,"Finance","Salaries","Budget","Jan2004")
```

EvSND

The EvSND (Send) function references another cell and sends its value to the database when you select Send and Refresh Schedules.
The parameters specify the dimensions that identify where the data value is to be sent in the database. EvSND also returns the value from the database to the referenced cell. This is useful for two reasons: 1. You do not have to add any EvGET functions to the sheet in order to return values to the cell; 2. Because the values are returned to the referenced cell, BPC only sends those cells that have changed since the last send in the current session.

You may want to use EvSND instead of EvINP in order to protect the Ev formula you are using to send data to the database. By putting the formula in the EvSND cell and not in the input cells, you decrease the chances of your formulas getting overwritten or erased. To further protect the formulas, you might want to hide the EvSND cells in the input schedule. Another reason for using EvSND instead of EvINP is to send a calculated value to the database. This way you can have a standard calculation formula in a cell and still be able to send the calculated value.

**Syntax**

\[
\text{EvSND(\text{ValueReference},"\text{AppName}"","\text{[dim:]member1}"","\text{[dim:]member2}"","\ldots","\text{[dim:]memberN}"")}
\]

<table>
<thead>
<tr>
<th><strong>Parameter</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ValueReference</td>
<td>The cell reference of the input cell.</td>
</tr>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>[dim:]member1-N</td>
<td>You can specify as many members that you want. Any dimension that is</td>
</tr>
<tr>
<td></td>
<td>not specified in the formula is taken from the CurrentView.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If the same member name is used in more than one</td>
</tr>
<tr>
<td></td>
<td>dimension, you must specify the dimension name. Use this syntax: &quot;dimension:member&quot;</td>
</tr>
</tbody>
</table>

**Example**

The following example sends the value in cell D16 to the database.

\[
\text{EvSND(D16,"Finance","Salaries","Budget","Jan2001")}
\]

**EvTIM**

The EvTIM (time period offset) function specifies an offset from a given time period. A typical use of this function is as follows:

1. In cell D4 of a new workbook, enter an EvCVW function to return 2003.Q1.

**Syntax**

\[
\text{EvTIM("\text{AppName}"","\text{Member}"","\text{Offset}"","\text{Level}"})
\]

<table>
<thead>
<tr>
<th><strong>Parameter</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>Member</td>
<td>The member to start from, for example, Budget2001.</td>
</tr>
<tr>
<td>Offset</td>
<td>The number of time period increments.</td>
</tr>
<tr>
<td>Level</td>
<td>(Optional) Level only supports the value Year. For example, if the Time Member</td>
</tr>
<tr>
<td></td>
<td>in the function is 2001.JAN with an offset of 1, and the Level is set to Year,</td>
</tr>
<tr>
<td></td>
<td>the cell retrieves 2002.JAN.</td>
</tr>
</tbody>
</table>

July 31, 2008
If the offset is 2, the cell retrieves **2003.JAN**.

**Example**

In the following example, the cell containing this formula increments one period based on the value in cell D4. By default, if the optional "Level" parameter is not included, it increments the period at the same level as the member specified.


```
EvTIM("Finance",D4,1)
```

**Exchange functions**

Exchange functions are functions that return or send values to BPC databases based on specified criteria. The BPC value functions are:

- EvDRE
- EvINP

**EvINP**

The EvINP (Input) function allows input into the cell containing the formula, and then sends that input to the server when you select **eSubmit > Send and Refresh Schedules**.

**Syntax**

```
EvINP(AppName,"[dim:]member1","[dim:]member2","[dim:]membern",Value)
```

**Parameter Description**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>[dim:]member1-N</td>
<td>You can specify as many members that you want. Any dimension that is not specified in the formula will be taken from the CurrentView.</td>
</tr>
</tbody>
</table>

Tip: If the same member name is used in more than one dimension, you must specify the dimension name. Use this syntax: "Dimension:member"

**Example**

The following example sends the value entered in the cell, in this case, **$1,000,000.00**, to the database.

```
EvINP ("Finance","Salaries","SalesUSEast","Budget","Jan2001",1,000,000.00)
```

**EvDRE**

The EvDRE (Data Range Exchange) function is a powerful and flexible function that you can use to generate several different kinds of BPC reports and input schedules.

**About the EvDRE function**

The EvDRE (Data Range Exchange) function allows you to create large reports or input schedules with optimal performance. By accepting cell ranges as parameters, EvDRE workbooks are faster to download and upload because there are no 'send' or 'retrieve' functions in the data cells. In addition, a custom-built query optimization engine automatically decides the most efficient way to access the database to retrieve the requested data. This greatly improves the performance and scalability of reports or input schedules because it allows EvDRE workbooks to read base-level data directly from the SQL database, reducing the workload on the OLAP engine.

EvDRE is considered an 'Exchange' function because it is bidirectional, that is, it can be used to both send and retrieve data. It combines and extends the functionality of other BPC functions such as EvENE, EvGET, EvINP, EvSND, EvEXP, and EvNEX. While in some cases these functions may provide a finer level of
granularity, EvDRE allows you to create highly complex reports or input schedules that transparently utilize several of the functions.

You can use EvDRE to build static workbooks (without expansions) as well as dynamic workbooks (with expansions), or workbooks where some dimensions are defined using hard-coded members while others dynamically expand. You can define one or more expansions on the rows, columns, or both simultaneously.

The function also generates easy-to-understand error messages, allowing you to immediately isolate the source of an issue.

**How EvDRE works**

When building an EvDRE workbook, you define the desired key ranges for the page, column, and row. The 'key' of a cell is the current view of the cell. That is, the key is the combination of members (one per dimension) used to uniquely identify the value displayed in the cell.

A 'key range' is a range of cells that contribute to the definition of the key of a range of cells. For example, a 'row key range' is a range of cells that define a portion of the key, for example, the Account or the Category, of all the cells in those rows. The key range might also define the key for multiple dimensions. For example, a 'column key range' could define the Entity, Time period, and Currency for a range of columns.

The 'data range' contains the data retrieved from the database, using the page, row, and column key ranges.

In the following example, the column and row key ranges are colored in green, and the data range is colored in red. The yellow cells within the column and row key ranges are reserved for “heading ranges.” You can use these cells for Excel formulas or other Ev functions that retrieve, for example, the headings of the appropriate members.

The heading ranges are not populated by data but are included in the expansion process, allowing for the replication of the content of these cells in the expanded columns or rows.

In addition, the system dynamically determines the combination of columns and rows with zero values, and suppresses them. This is an advantage over the standard expansion criteria with suppression.

### About EvDRE parameters

The AppName parameter accepts the default application name (taken from the current view) that is displayed next to App, or a different value.

In the following example, the “AppName” parameter points to cell B3, whose value is **FINANCE**.

Function: `=EVDRE($B$3,A14:B20,A23:C29)`
The Key range parameter uses the values in the Range/Value table. See Defining the Key range parameter.

In the example, the "Key range" parameter points to the data in cells A14:B20.

Function: =EVDRE($B$3,A14:B20,A23:C29)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td>13</td>
<td>RANGE</td>
</tr>
<tr>
<td>14</td>
<td>PageKeyRange</td>
</tr>
<tr>
<td>15</td>
<td>ColKeyRange</td>
</tr>
<tr>
<td>16</td>
<td>RowKeyRange</td>
</tr>
<tr>
<td>17</td>
<td>CellKeyRange</td>
</tr>
<tr>
<td>18</td>
<td>GetOnlyRange</td>
</tr>
<tr>
<td>19</td>
<td>FormatRange</td>
</tr>
<tr>
<td>20</td>
<td>Options</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td>13</td>
<td>VALUE</td>
</tr>
<tr>
<td>14</td>
<td>Sheet1!$B$4:$B$11</td>
</tr>
<tr>
<td>15</td>
<td>Sheet1!$G$3:$I$3</td>
</tr>
<tr>
<td>16</td>
<td>Sheet1!$E$5:$E$25</td>
</tr>
<tr>
<td>17</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Sheet1!$E$3</td>
</tr>
<tr>
<td>20</td>
<td>AutoFitCol</td>
</tr>
</tbody>
</table>

The Expand range parameter uses the values in the Parameter/Expansion table, if you want your workbook to contain an expansion. See Defining the Expand range parameter.

In the example, the "Expand range" parameter points to the data in cells A23:C29.

Function: =EVDRE($B$3,A14:B20,A23:C29)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>B</strong></td>
<td><strong>C</strong></td>
</tr>
<tr>
<td>22</td>
<td>PARAMETER</td>
<td>EXPANSION 1</td>
</tr>
<tr>
<td>23</td>
<td>ExpandIn</td>
<td>COL</td>
</tr>
<tr>
<td>24</td>
<td>Dimension</td>
<td>RPTCURRENCY</td>
</tr>
<tr>
<td>25</td>
<td>MemberSet</td>
<td>MEMBERS</td>
</tr>
<tr>
<td>26</td>
<td>BeforeRange</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>AfterRange</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Suppress</td>
<td>Y</td>
</tr>
<tr>
<td>29</td>
<td>Insert</td>
<td></td>
</tr>
</tbody>
</table>

**Building an EvDRE workbook**

BPC provides three ways to build a report or input schedule with EvDRE. You can start with a blank workbook and use the EvDRE auto-builder, you can create a report using drag and drop, which builds a report using the EvDRE function, or you can use the EvDRE template.

The auto-builder, as described in this topic, builds a report containing one expansion for the columns using the TIME dimension and one expansion for the rows using the ACCOUNT dimension, by default. These settings are modifiable using the available objects. An appropriate member set for the selected expansions is also proposed.

It also provides status messages in the cell in which you inserted the EvDRE function. The status message informs you of syntax and other data-related issues. If the status is OK, the EVDRE parameters have the correct syntax. If the status starts with #ERR, an error has been detected. The status message provides a short description of the problem.
This topic describes how to use the auto-builder to build an EvDRE workbook. To access the sample EvDRE template, log on to the sample application set, ApShell, and select eSubmit >
Open Schedule Library. Open the template called M04 evdre.xlt.

To build an EvDRE workbook
1. From BPC for Excel, open a new workbook.
2. Enter the following EvDRE function call with no parameters in the first cell, as follows, then press Enter:
   =EvDRE()
3. Click the Refresh toolbar button.
4. The EvDRE Builder dialog box allows you to select the dimensions you want in the columns, what dimensions you want in the rows, and a few more details about your report. You can take what is proposed by default, or make some adjustments, then click OK. See EvDRE Enhancements

Refreshing EvDRE
You can refresh EvDRE grids in a single worksheet, or the entire workbook at once.

To refresh a single worksheet, do one of the following
- Right-click on an EvDRE worksheet and select EvDRE: Expand & Refresh > Active Sheet to refresh only the active worksheet or select EvDRE: Expand & Refresh > Select Sheet to designate another sheet as active and refresh it.
- From the Workbook Options dialog box (select Set Workbook Options from the Report State action pane or select eTools > Workbook Options), select the EvDRE: Refresh by sheet check box. As you tab from one worksheet to another or click the Refresh Workbook toolbar button, each is refreshed individually. Unopened worksheets are not refreshed.

To refresh the workbook, do one of the following
- Right-click on an EvDRE worksheet and select EvDRE: Expand & Refresh > Active Workbook.
- Make sure the EvDRE: Refresh by sheet check box in the Workbook Options dialog box is not selected, then click the Refresh Workbook toolbar button.
- Make sure the EvDRE: Refresh by sheet check box in the Workbook Options dialog box is not selected, then select eTools > Refresh Workbook.

EvDRE Syntax
The EvDRE function has two required and one optional parameter. This topic describes the syntax of the EvDRE function.

When you build a workbook using EvDRE, the system checks the syntax of the function, and displays a descriptive status message within the control panel section of the workbook. The status message informs you of syntax and other data-related issues. If the status is OK, the EvDRE parameters have the correct syntax. If the status starts with #ERR, an error has been detected. The status message provides a short description of the problem.

Syntax

EVDRE (AppName, Key range, Expand range)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppName</td>
<td>(Required) The name of the application from which to retrieve, or where to send data.</td>
</tr>
<tr>
<td>Key range</td>
<td>(Required) A set of ranges that control the current view of the data cells.</td>
</tr>
</tbody>
</table>

See Defining the Key range parameter
### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expand range</td>
<td>(Optional) The definition of the expansion to perform.</td>
</tr>
</tbody>
</table>

**Note:** When you are defining a static report, that is, one where no expansions are used, you can leave the Expand range parameter in EvDRE blank. If left blank, the system expects valid page, column, and row keys to be defined in the appropriate key ranges.

---

### EvDRE logging

You can set up logging on EvDRE. When running, the system automatically appends a set of information to two text files, if they exist. The files are called EVDRE_LOG.TXT and EVDRE_TRACE.TXT, and must reside in your My Documents folder on the BPC client.

The LOG file contains the history of all actions performed by the function, while the TRACE file keeps track of all the queries issued by EvDRE’s query engine.

**To set up EvDRE logging**

1. From a text editor such as Notepad, create two text files: EVDRE_LOG.TXT and EVDRE_TRACE.TXT.
2. Save them to your My Documents folder on the client machine.
3. Run an EvDRE workbook, and the system automatically writes to the files.

---

### Defining the Key range parameter

To define the Key range parameter, you define the components of the Key ranges.

### About the Key range parameter

The Key range parameter defines the ranges that control the current view of the individual cells. All the values defined in the Key range parameter, combined with other BPC settings, contribute to defining the content of each data cell.

The following figure shows a sample Key range definition table, where you supply the key ranges. The first column (with the heading RANGE, below) contains the name of the range. You enter the range values in the second column (with the heading VALUE).

- The reserved range names allow you to order the ranges in any sequence, and skip any ranges that are unused or not required.

```plaintext
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>RANGE</td>
</tr>
<tr>
<td>14</td>
<td>PageKeyRange Sheet1!$B$4:$B$11</td>
</tr>
<tr>
<td>15</td>
<td>ColKeyRange Sheet1!$G$3:$H$3</td>
</tr>
<tr>
<td>16</td>
<td>RowKeyRange Sheet1!$E$5:$E$25</td>
</tr>
<tr>
<td>17</td>
<td>CellKeyRange</td>
</tr>
<tr>
<td>18</td>
<td>GetOnlyRange</td>
</tr>
<tr>
<td>18</td>
<td>FormatRange Sheet1!$E$3</td>
</tr>
<tr>
<td>20</td>
<td>Options AutoFitCol</td>
</tr>
</tbody>
</table>
```

The following table describes the required and optional ranges you define for the Key range parameter.
<table>
<thead>
<tr>
<th>Range name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PagekeyRange</td>
<td>(Optional) The range of cells that points to the default members for some or all the dimensions in the application.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining PageKey ranges</a></td>
</tr>
<tr>
<td>ColKeyRange</td>
<td>(Required) The range of cells that will contain the dimension members to display on the column headings.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining ColKey ranges</a></td>
</tr>
<tr>
<td>RowKeyRange</td>
<td>(Required) The range of cells that will contain the dimension members to display on the row headings.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining RowKey ranges</a></td>
</tr>
<tr>
<td>CellKeyRange</td>
<td>(Optional) The range of cells that will contain specific dimension members that are different than the members on the rows and columns.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining CellKey ranges</a></td>
</tr>
<tr>
<td>GetOnlyRange</td>
<td>(Optional) A range of cells in an input schedule in which you only want to retrieve, not send, data.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining GetOnly ranges</a></td>
</tr>
<tr>
<td>Format</td>
<td>(Optional) A range of cells that points to cells that contain the format that you want to apply to various areas of the data range.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining Format ranges</a></td>
</tr>
<tr>
<td>Options</td>
<td>(Optional) Allows you to define workbook options.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining options</a></td>
</tr>
</tbody>
</table>

### About current view precedence

The current view of a cell is controlled by a combination of the settings described in the following table. If current view values are in conflict, the higher the rank, the higher the precedence. For example, the cell key, if existing, takes precedence over the row key, the row key takes precedence over the column key, and the column key takes precedence over the page key.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The system current view, as defined by the BPC current view.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Changing the current view</a></td>
</tr>
<tr>
<td>2</td>
<td>The workbook current view, as defined in the workbook options.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Setting workbook options</a></td>
</tr>
<tr>
<td>3</td>
<td>The page current view, as defined in the PageKeyRange.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining PageKey ranges</a></td>
</tr>
<tr>
<td>4</td>
<td>The column current view, as defined in the ColumnKeyRange.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining ColKey ranges</a></td>
</tr>
<tr>
<td>5</td>
<td>The row current view, as defined in the RowKeyRange.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See Defining RowKey ranges</a></td>
</tr>
<tr>
<td>6</td>
<td>The cell current view, as defined in the CellKeyRange.</td>
</tr>
</tbody>
</table>
See Defining CellKey ranges

Using the EvRNG function

You can use the EvRNG function when defining ranges as function parameters. For example, when you define a ColKey range for the EvDRE function, you enter a value like E2:E9. EvRNG makes it easy to select the range directly from the workbook, and returns the selected range as the value.

When you use the EvRNG function to define a cell range, you can select the function, then press F2, and Excel highlights the range. This allows you to visualize the position of the range in the sheet.

A side benefit of the EVRNG function is the following: during an expansion the parameters of the EVRNG function adjust themselves automatically when the body of the report redefines the number of rows and columns of the report. This self-adjustment, which comes "for free" as a native behavior of Excel functions, allows EVDRE to retain the consistency of its parameters with the content of the report, basically permitting the user to expand multiple times the same report, without ever breaking the definitions of its design. In other words, using EVRNG in these cells is not just a nice option but a requirement, whenever the function uses expansions.

To use the EvRNG function

1. From BPC for Excel, open the workbook in which you want to use the function.
2. Select the cell where you want to insert the function.
3. Type =EVRNG(, then select the desired range of cells and press Enter.

Defining multiple key ranges

You can use the same EvDRE function call to support multiple key ranges on both the columns and rows simultaneously.

If you want to include a blank line between retrieved values, you can leave a row or column blank without having to enter multiple ranges. See Including blank rows and columns.

Note that this feature can be activated assigning multiple ranges to the same EVRNG function.

The maximum number of parameters that can be assigned to any Excel functions (and EVRNG is no exception) is 30.

To define a multiple key range

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the ColKeyRange and/or RowKeyRange rows of the Key range parameter table, enter a range for the first heading set, a comma (,), then a range for the second heading set.
3. Save the report or input schedule.

Including blank rows or columns

Within a data range in an EvDRE report or input schedule, you can include blank rows or columns. You can leave them blank or insert formulas, without having to break the column or row key ranges into multiple ranges. When you include a blank row or column in the RowKey range or ColKey range, the corresponding row or column is left untouched by the function when data is retrieved.

To include a blank row or column

1. Select the cell before which you want to insert the blank row or column. (In the above example, you would select totalassets.)
2. Right-click and select Insert > Shift cells right (for columns) or Shift cells down (for rows), then click OK.

Inserting formulas
Row and column key ranges can contain blank cells. When you have a blank cell, the corresponding data range cells are ignored by the system because there is no valid key associated with them. Nothing will be retrieved into these cells, and you can insert any text or formula into them without the risk of having them overwritten.

However, if you enter formulas in the data range in cells where the row and column keys are valid, the system behaves in one of two ways:

- If the workbook is a report (retrieves only), the values that get retrieved in the cells that contain formulas are ignored, and the formula is preserved (as if the key contained blank cells, like in the above case).
- If the workbook is an input schedule (retrieves and sends), the values that get retrieved are compared with the value calculated by the formula and if there is a difference, a comment gets attached to the cell. The comment informs the user of the discrepancy. In addition, when data values are sent, the values calculated by the formula are sent to the database, in case of a discrepancy.

This feature is useful when you want to calculate the subtotals immediately, that is, as numbers are changed in the input cells, without continuously sending and refreshing the worksheet.

**Defining PageKey ranges**

You define a PageKey range to specify default dimension members. The PageKey range is optional, or you can limit it to only specific dimensions in the application. If any dimensions are not specified in the PageKey range, they are taken from the current view or, if set, in the workbook-specific current view. See [About current view precedence](#).

You can enter one or more members in a PageKey range cell. If you want to enter multiple members, use a comma-separated list. The system adds the values of the set of members you specify for the given dimension. For example, if you specify "ENTITY: Rome,Milan,Naples" in the PageKey range, all retrieved values for the page will contain the sum of the values from Rome, Milan and Naples. This allows your report to be more dynamic, and potentially, perform faster.

You can use the EvMBR function in PageKey ranges to define specific members. The EvMBR function returns the ID of a member (selected from the Member Lookup dialog box) to the cell without changing the current view. See [EvMBR](#).

The PageKey range definition must reference member IDs that exist in a one-column range.

**To define the PageKey range**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the PageKeyRange fields of the Key range parameter table, enter a range of cells that points to one or more dimensions.

   For assistance in entering ranges, see [Using the EvRNG function](#).

3. Save the report or input schedule.

**Defining ColKey ranges**

The ColKey range is the range of cells that is reserved for the member IDs used to return data in the columns. If your report or input schedule uses expansions, the member IDs for the range are taken from the values defined in the Expand range parameter's Dimension and MemberSet rows. See [ColKey ranges and expansions](#), below. If the report is static, the member IDs are taken from the current view of the report or input schedule, or from other values specified in the Pagekey and CellKey ranges.

The number of rows in the range must correspond to the number of dimensions for which the current view is column-specific.

**ColKey ranges and expansions**

When an EvDRE function uses expansions, the ColKey range (and/or the RowKey range) automatically resizes when you expand the data (eTools > Expand All) and its content becomes populated with the members defined in the MemberSet parameter.
Note that the ColKey range can never be less than two columns. When the expansion returns just one member (or even no member at all), the size of the range will be two elements anyway. In such case, the key will contain the keyword EV_EMPTY and the corresponding data range will be empty.

**To define the ColKey range**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the **ColKeyRange** rows of the Key range parameter table, enter a range of cells that will contain the member IDs for the columns.
   
   ![For assistance in entering ranges, see Using the EvRNG function.]

3. Save the report or input schedule.

**Defining RowKey ranges**

The RowKey range is the range of cells that is reserved for the member IDs used to return data in the rows. If your report or input schedule uses expansions, the member IDs for the range are taken from the values defined in the Expand range parameter’s Dimension and MemberSet rows. **See RowKey ranges and expansions**, below. If the report is static, the member IDs are taken from the current view of the report or input schedule, or from other values specified in the Pagekey and CellKey ranges.

The number of columns in the range must correspond to the number of dimensions for which the current view is row-specific.

**RowKey ranges and expansions**

When an EvDRE function uses expansions, the RowKey range (and/or the ColKey range) automatically resizes when you expand the data (eTools > Expand All), and its content becomes populated with the members defined in the MemberSet parameter.

Note that the RowKey range can never be less than two rows. When the expansion returns just one member (or even no member at all), the size of the range will be two elements anyway. In such case, the key will contain the keyword EV_EMPTY and the corresponding data range will be empty.

**To define the RowKey range**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the **RowKeyRange** rows of the **Key** parameter table, enter a range of cells that will contain the member IDs for the rows.
   
   ![For assistance in entering ranges, see Using the EvRNG function.]

3. Save the report or input schedule.

**Defining CellKey ranges**

You can define a CellKey range when you want to overwrite a member ID used in the ColKey or RowKey ranges.

The CellKey range can only be used on static reports, that is, on reports that do not include EvDRE-driven expansions.

The specified range refers to the data range cells that have a corresponding position relative to the top-left corner of the CellKey range. In the following figure, the range M2:P4 specifies the cells that have, for one or more dimensions, a current view that is cell-specific.

**To define the CellKey range**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
In the **CellKeyRange** rows of the **Key range** parameter table, enter a range of cells that will contain the cell-specific members.

For assistance in entering ranges, see **Using the EvRNG function**.

Save the report or input schedule.

### Defining GetOnly ranges

You can define a GetOnly range when you want a group of values in an input schedule to only retrieve (not send) values. The cells would be designated as read-only.

The GetOnly range is only valuable when you are working in an input schedule because when the workbook is defined as an 'input schedule' in your workbook options, EvDRE assumes its data range to be a 'send range.' In other words, all cells within this range would be read-write cells. A GetOnly range in this case would give the specified cells only the ability to retrieve data.

When the workbook is defined as a 'report' in your workbook options, EvDRE assumes its data range to be a 'get range,' and all cells within this range are read-only cells. In this situation, the GetOnly range is ignored.

**To define a GetOnly range**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the **GetOnlyRange** row of the **Key range** parameter table, enter a range of cells in which you want to allow retrievals only.

For assistance in entering ranges, see **Using the EvRNG function**.

3. Save the report or input schedule.

### Defining Format ranges

You define format ranges to point to a cell or set of cells that contains the format that you want to apply to the EvDRE table. FormatRange supports empty members in both row and column memberset definitions to allow for more versatile formatting.

#### Defining one format value

You can point to one cell for the data cell format. For example, say you define the format range as the cell D20, which is colored peach. After you define the Format range value, D20, then select **eTools > Expand All**, the data cells are formatted in the specified color.

#### Defining multiple format values

You can define multiple format values when you want to define formatting for different areas of report. To use this functionality, you set up a table with six columns. Each column represents one separate parameter of a formatting instruction.

You can specify multiple formatting instructions using multiple rows, each row representing one formatting instruction. When multiple formatting instructions are specified, they will be executed by the EvDRE function in sequence from the first (top row) to the last (bottom row) in the range.

#### FormatRange columns

Each column of the formatting range represents one parameter that can be applied to a formatting instruction. The columns are all required, and must be entered in the order described below. (The title row is not part of the range and can be skipped. It is shown here for clarity purposes only.) You can also apply multiple formatting instructions.
### Column Description Examples

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
</table>
| CRITERIA   | The condition that triggers the specified format | - Default  
             - Calc  
             - Input  
             - \{dim.property\}= "\{value\}"                  |
| EVALUATE IN| The range for which the criteria must be evaluated| - Row  
             - Column  
             - All or blank  
             - Page  
             - RowCol                                           |
| FORMAT     | Represents the desired formatting properties      | Color, font size, font attributes, etc.                |
| USE        | The portions of the format that should be applied | - All  
             - Pattern  
             - Number  
             - Alignment                                       |
| PARAMETERS | Some textual definition of the format to apply    | Fontsize=account.size                                   |
| APPLY TO   | The portions of the report to which the format should be applied | - Heading  
             - Data                                                 |

### The CRITERIA column

The first column, called CRITERIA, defines what triggers the formatting instruction. For example, the criteria could be based on the calculated or non-calculated status of a cell. For example, the criteria column could contain the CALC keyword, indicating that a desired format must be applied to cells pointing to calculated values (by calculated we mean calculated in the DB, not calculated by an Excel formula).

A comma delimited list of values is not currently supported in the Criteria column.

The CRITERIA column can contain the following values:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFAULT</td>
<td>Is applied anyway, regardless of criteria</td>
</tr>
<tr>
<td>CALC</td>
<td>Is only applied to calculated members</td>
</tr>
<tr>
<td>INPUT</td>
<td>Is only applied to non-calculated members</td>
</tr>
<tr>
<td>{dim.property}=&quot;{value}&quot;</td>
<td>Is only applied to the members of dimension {dim} with property {property} = &quot;{value}&quot;(<em>) (</em>**)</td>
</tr>
</tbody>
</table>

(*) It also supports “different-from” (<>)

(***) It also supports a comma-delimited list of values
The “EVALUATE IN” column

The second column, called EVALUATE IN, is available to restrict the region for which the CRITERIA must be evaluated.

The keywords supported by the “EVALUATE IN” column are the following:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(blank) or ALL</td>
<td>Evaluate the criteria in PAGE or COLUMN or ROW or CELL(*)</td>
</tr>
<tr>
<td>PAGE</td>
<td>Evaluate the criteria in PAGE</td>
</tr>
<tr>
<td>COL</td>
<td>Evaluate the criteria in COLUMN</td>
</tr>
<tr>
<td>ROW</td>
<td>Evaluate the criteria in ROW</td>
</tr>
</tbody>
</table>

(*) Leaving this column blank (or entering ALL) means that the criteria is “true” if the condition it defines is met by what defined in the PAGE key OR in the COLUMN key OR in the ROW key OR (if existing) in the CELL key.

The FORMAT column

The third column, called FORMAT, defines the format to use.

Note that the definition of the format is directly driven by the Excel format of the FORMAT cell, as defined using the native Excel formatting tools. In this way the desired format is easier to define and visualize.

The format properties of a cell include the LOCK property. While this property is not visible without opening the Excel Format Cell dialog box, this is the property that is used by EvDRE’s formatting engine to prevent or allow a user to modify the content of the cells or a workbook.

The USE column

The fourth column, called USE, specifies what components of the defined format should be applied.

This means that only the PATTERN and the FONTSIZE properties of the FORMAT cell should be used. All other formatting properties (font name, border, etc.) will be ignored. If this field is left blank, ALL formatting properties, as set in the format column, will be applied.

This fragmentation of formatting options in independent groups allows you to “overlay” different settings that are not mutually exclusive, and combine them into the final result.

A comma delimited list of values is not currently supported in the Use column.

The USE column can contain one of the following values:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(blank) or ALL</td>
<td>Apply all formatting properties</td>
</tr>
<tr>
<td>NUMBERFORMAT</td>
<td>Apply the number formatting properties</td>
</tr>
<tr>
<td>FONT</td>
<td>Apply all the font formatting properties</td>
</tr>
<tr>
<td>FONTSTYLE</td>
<td>Apply the font style only (regular, bold, italic)</td>
</tr>
<tr>
<td>BORDER</td>
<td>Apply all the border formatting properties</td>
</tr>
<tr>
<td>PATTERN</td>
<td>Apply all the pattern formatting properties</td>
</tr>
<tr>
<td>LOCK</td>
<td>Apply the LOCK property (*)</td>
</tr>
</tbody>
</table>
(*) Note that, consistent with the rest of the syntax, entering LOCK in this field will NOT necessarily mean that the cells must be locked, but simply that the LOCK property of the FORMAT cell will be applied as is (True or false, as defined in the FORMAT cell).

The PARAMETERS column

A fifth column, called PARAMETERS, can be used to enter some formatting instruction directly in textual format. For example, entering FONTSIZE="12" defines in a textual format the font size to use.

Note that the main purpose of this feature is not just to allow writing things in textual form. The objective is mainly to provide a means to dynamically derive the value of a formatting option from a property of a member. For example, entering the parameter FONTSIZE=ACCOUNT.SIZE, the size of the font is derived from the property SIZE of the ACCOUNT used in the individual cell key.

Syntax

{Format property}="value"

Or:

{Format property}={dimension}.{property}

Example

NUMBERFORMAT=ACCOUNT.FORMAT

To activate this feature the CRITERIA must be set to: ACCOUNT.SCALING="1"

The APPLY TO column

The sixth and last column, called APPLY TO, is used to define WHERE to apply the defined format. The defined format is only applied to the headings area of the row/column containing a calculated member. If this field is left blank, the current formatting instruction is applied to the data range only.

A comma delimited list of values is not currently supported in the Apply To column.

The APPLY TO column can contain one of the following values:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>{blank} or ALL</td>
<td>Apply to the Key Range, Headings Range and Data Range</td>
</tr>
<tr>
<td>KEY</td>
<td>Apply to the row or column Key Range</td>
</tr>
<tr>
<td>DATA</td>
<td>Apply to the Data range</td>
</tr>
</tbody>
</table>

Applying multiple formatting instructions

The format range may contain multiple instructions, each one defining one formatting definition to apply according to some criteria. Each formatting instruction is represented by one row of definitions in the format range.

This example defines three formatting instructions (one per row) that will be applied in sequence from the top to the bottom. This mechanism is useful when you want to define what format should prevail over conflicting formats (here the LOCKED format overwrites the CALC format which in turn overwrites the DEFAULT format). Re-arranging the rows of this range in a different order would re-define the order by which the various formats are applied.

In addition, this mechanism also permits you to overlay different formatting properties on the same cell.

Finally, another way to utilize this technique is to define one different format for different ranges of the sheet.

One thing to note is that if you do not specify where to evaluate the criteria and that the APPLY TO keywords do not specify whether the key or the heading should belong to rows or columns, the instructions will automatically apply to row or columns according to the position of the account key (page, column or row, or even cell).
Scaling values in EvDRE

You can scale EvDRE data to the thousands using standard Excel options. For example, if you enter 1000 in a cell with this formatting applied, Excel shows 1.00.

To scale values in EvDRE

1. From an EvDRE workbook, right-click on the cell you want to scale.
2. Select Format Cells > Number > Custom.
3. Select #,##0.00,(_);[Red](#,##0.00,), then click OK.

Defining options

You can define any of the following options in the key range parameter to customize your EvDRE data:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutofitCol</td>
<td>This option automatically adjusts the size of the columns containing the EvDRE ranges to fit the content after refreshing data.</td>
</tr>
<tr>
<td>ExpandOnly</td>
<td>This option disables the refresh action, and performs only an expansion, when requested. Data is not retrieved from the database. This feature is useful when multiple EvDRE functions are used to build complex reports where one function expands the rows or columns, and another one retrieves the values from the database on a shared data range.</td>
</tr>
<tr>
<td>HideColKeys and</td>
<td>These two options can be used when the keys of either the rows or the columns should not be shown. While still existing, their associated columns and rows in the sheet will automatically be set to “hidden.” This action is triggered when data are refreshed (even if no expansion is requested).</td>
</tr>
<tr>
<td>HideRowKeys</td>
<td></td>
</tr>
<tr>
<td>NoRefresh</td>
<td>This option prevents the system from refreshing data from the database. Note that an exception to this behavior is an expansion with SUPPRESSIONS. If an expansion with suppression is performed, the data will still be retrieved, basically ignoring the option.</td>
</tr>
<tr>
<td>NoSend</td>
<td>This option prevents the system from sending data to the database. This feature can be useful when multiple EvDRE functions are used in an input schedule, to specialize their action.</td>
</tr>
<tr>
<td>ShowComments</td>
<td>This option can be used to turn on the Excel comments used in the data range when this grid contains formulas.</td>
</tr>
<tr>
<td>SumParent</td>
<td>This expansion option can be used to generate input schedules where the values of the parents are automatically populated with the sum of the children, as data are entered into the latter, without the need to perform a send action. The option also works on the account dimension, even if expenses/liabilities are to be added into income/asset parents (and vice versa) as the value of the ACCTYPE property will be correctly taken into account, in creating the formulas. It is important to note that the option only works if the member set contains the keyword ALL. This is in fact the only way by which the presence of all children for each parent can be enforced by the function. Another limitation is that the schedule must have some base-level member in both axes (rows and columns).</td>
</tr>
<tr>
<td>SuppressDataRow and SuppressDataCol</td>
<td>These options perform a suppression on the defined data range. The suppression is performed directly on the data grid in Excel, after it has been populated with some value, typically by some other EvDRE function. This feature can be useful when multiple EvDRE functions have contributed to the population of a shared grid of data. In these situations the individual functions might not have the required information to be able to identify what to suppress, and an extra function may be applied to the combined data just for</td>
</tr>
</tbody>
</table>
### Option Description

**SuppressNoData**
- By default, EvDRE suppressions will indifferently suppress rows or columns where all data are zero or null. With the SuppressNoData option, you can ask the function to only suppress rows or columns containing no data (null values), while still displaying those containing “stored” zeros.

**ShowNullAsZero**
- Shows zeros in empty data range cells rather than leaving those cells blank.

### To define options

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. In the **Options** row of the **Key range** parameter table, enter the desired option(s). If entering more than one, you can use a comma as the delimiter. For example, you can enter **SumParent, AutoFitCol, NoSend**.
3. Click the **Expand All** button.
4. Save the report or input schedule.

### Defining the Expand range parameter

You define the Expand range parameter when you want your report or input schedule to handle expansions. The Expand range parameter points to a set of ranges that contain the appropriate expansion definitions.

### About the Expand range parameter

You define the Expand range parameter when you want your report or input schedule to handle expansions. The Expand range parameter points to a set of ranges that contain the appropriate expansion definitions.

You can use the EvDRE auto-builder to create the layout for the Expand range table, or you can create it from scratch. The parameter table should consist of:

- The name of the expansion parameter in the first column. See column A, starting with row 22, below.
- As many columns as the number of desired expansions. For example, if you want two expansions in the columns, and three expansions in the rows, you will have five columns after the expansion parameter name. See column B and C, starting with row 11, below, where there is one expansion on the rows and one expansion on the columns.
- Up to eight rows, each one defining one parameter for each expansion. See rows 22 through 29, below.

### Expand range sub-parameters

The following table describes the sub-parameters for the Expand range parameter. You must define the first three sub-parameters, and there are an additional five sub-parameters you can define, depending on the complexity of your report or input schedule.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ExpandIn</strong></td>
<td>The ExpandIn parameter can be either <strong>COL</strong> or <strong>ROW</strong>, indicating whether the expansion is to be performed on the columns or on the rows. In the example above, <strong>Expansion 1</strong> is on the column (<strong>COL</strong>), and <strong>Expansion 2</strong> is on the row (<strong>ROW</strong>).</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>The Dimension parameter contains the name of the dimension for which a dynamic set of members should be generated. In the example above, <strong>Expansion 1</strong> expands</td>
</tr>
</tbody>
</table>
### Parameter Description

- **MemberSet**: For the MemberSet parameter, you define the set of members to expand for the selected dimension. See Defining MemberSet parameters
- **BeforeRange**: (Optional) Use to specify a range of cells to insert at the beginning of the current expansion. See Defining BeforeRange parameters
- **AfterRange**: (Optional) Use to specify a range of cells to insert at the end of the current expansion. See Defining AfterRange parameters
- **Suppress**: (Optional) Set the Row expansion parameter to **Y** (Yes) to suppress the rows that retrieve zero values. Set the Column expansion parameter to **Y** (Yes) to suppress all columns that retrieve zero values. See Defining Suppress parameters
- **Insert**: Setting this parameter to **Y** (Yes) for any ROW expansion allows you to perform a run-time insertion of a suppressed row after the expansion. Setting this parameter to **Y** (Yes) for any COL expansion allows you to perform a run-time insertion of a suppressed column after the expansion.

You can insert a suppressed row or column by right-clicking the desired key cell and selecting **EVDRE: Insert member**. The displayed dialog box allows you to select a member whose data you want to display in the row or column. You can choose the member by its member ID and/or description.

---

### Defining MemberSet parameters

The MemberSet parameter describes the set of members to expand for the corresponding dimension. You can define one or more of the following:

- A comma-delimited list of members, for example, **CASH,ACCREC,INVENTORY**.
- A valid keyword that describes the members relative to the corresponding dimension member specified in the PageKeyRange. See Using keywords, below.
- A filter that describes the members to return. See Defining filters, below.

#### Using keywords

The following table describes the valid keywords that you can use alone, or combine with other keywords and hard-coded members in a comma-delimited list. For example, you can enter **DEP, SELF** or **CASH,ACCREC,BAS,SELF**, or **Worldwide1,SELF,BAS(Sales) AND CURRENCY<>"EUR"**.

The default expansion order is children, then parent. If you combine the keywords MEMBERS or ALL with PARENTAFTER, the parent members are placed after the children.

> Do not add any spaces between the values.

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEMBERS</td>
<td>All members in the dimension</td>
</tr>
<tr>
<td>[,PARENTAFTER]</td>
<td></td>
</tr>
<tr>
<td><strong>Keyword</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BASMEMBERS</td>
<td>All base members in the dimension</td>
</tr>
<tr>
<td>BAS</td>
<td>All base members below current member. Alternatively, you can enter BAS(\textit{parent}) to return the base members of a specified parent, rather than using the parent from the page key range or current view. For example, \textbf{BAS(TotalAssets)} returns the base level members of TotalAssets.</td>
</tr>
<tr>
<td>DEP</td>
<td>All children of current member. Alternatively, you can enter DEP(\textit{parent}) to return the dependent members of a specified parent, rather than using the parent from the page key range or current view. For example, \textbf{DEP(2005.Q1)} returns the dependents of 2005.Q1.</td>
</tr>
<tr>
<td>ALL [,PARENTAFTER]</td>
<td>All descendants of current member. Alternatively, you can enter ALL(\textit{parent}) to return all members of a specified parent, rather than using the parent from the page key range or current view. For example, \textbf{ALL(Worldwide2)} returns the members of Worldwide2.</td>
</tr>
<tr>
<td>SELF</td>
<td>The current member. If you define the MemberSet as SELF, the expansion occurs on the current member. Leaving the MemberSet blank is the equivalent of suppressing the expansion altogether.</td>
</tr>
<tr>
<td>NOEXPAND</td>
<td>Do not expand</td>
</tr>
<tr>
<td>GDEP, GBAS, GALL</td>
<td>If using a dynamic hierarchy, the ENTITY dimension supports the following member set expansion keywords: \bullets \textbf{GDEP} - “Group Dependents” \bullets \textbf{GBAS} - “Group Base-level members” \bullets \textbf{GALL} - “Group All members below current parent” These keywords are only activated when the active application has a dimension of type GROUP. The GDEP keyword generates the list of ENTITIES defined as dependents of the GROUP set in the page key, as found in the dynamic hierarchy stored in the OWNERSHIP cube for the current CATEGORY and TIME combination(s). This keyword also supports a direct assignment of the GROUP to use, with the following syntax: \textbf{GDEP(GroupName)}</td>
</tr>
</tbody>
</table>

**Defining filters**

A filter criteria based on one or more properties in the dimension. For assistance in defining a filter, you can right-click on the MemberSet cell and select \textbf{EVDRE: Build Filter}. Use the dialog box to define a query based on the property. For example, you can define a query like:

\bullets ACCTYPE="INC"
\bullets GROUP="Balance Sheet" AND CALC="Y"

**Notes:**

\bullets The value of the property must be enclosed in double quotes
\bullets The criteria can be “equal” (=) or “different from” (<>)

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• Multiple criteria can be combined with the AND or the OR operator
• Parentheses are currently not supported
• Filters based on properties cannot be combined with hard-coded members or other keywords like BAS, etc.
• The expressions are NOT case-sensitive

MemberSet Example

In the following example, the column expansion will return data for Jan and February of 2005, and the row expansions will return data for all the members in the RptCurrency dimension for each base-level member in the Account dimension.

<table>
<thead>
<tr>
<th></th>
<th>PARAMETER</th>
<th>EXPANSION 1</th>
<th>EXPANSION 2</th>
<th>EXPANSION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>ExpandIn</td>
<td>COL</td>
<td>ROW</td>
<td>ROW</td>
</tr>
<tr>
<td>24</td>
<td>Dimension</td>
<td>Time</td>
<td>RptCurrency</td>
<td>ACCOUNT</td>
</tr>
<tr>
<td>25</td>
<td>MemberSet</td>
<td>2005.jan,2005.feb</td>
<td>Members</td>
<td>BAS</td>
</tr>
<tr>
<td>26</td>
<td>BeforeRange</td>
<td>Sheet1!$C$33:$E$33</td>
<td>Sheet1!$C$37:$E$37</td>
<td></td>
</tr>
</tbody>
</table>

To define the MemberSet parameter

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. Find the Expand range parameter fields.
3. In the MemberSet row, enter one of the following in the applicable cells:
   - A comma-delimited list of members for the associated dimension
   - A keyword that describes the members in the hierarchy to retrieve
   - Filter criteria for each expansion column. To display the Filter dialog box, right-click on the MemberSet cell and select EvDRE: Build Filter. In the Filter dialog box, select the properties and values for the associated dimension.

   ![Icon](https://example.com/icon.png)
   See the table above for more information.

4. Save the report or input schedule.

Defining BeforeRange parameters

The BeforeRange parameter is an optional parameter that you can use to dynamically insert rows and columns at the beginning of expansions. If you have nested expansions, all BeforeRange ranges are repeated. You can consider the BeforeRange (and AfterRange) a template that you design by identifying the range somewhere in the sheet (possibly in a non-visible portion), and that the expansion process places into the body of the report.

The ranges specified in the row expansions are placed horizontally starting from the first column of the row headings range. Similarly, column ranges are placed vertically starting from the first row of the column headings range. The format and formulas, if defined, are copied for the entire range. The value is only copied for the portion relating to the headings (the light orange cells, below).

In case there is also an expansion of columns, the portion of the row range that falls inside the data range needs only to be defined for one column. The column expansion duplicates that portion for all expanded columns. Similarly, in case of a before range on a column, if there is also an expansion of rows, the portion of the column ranges that falls inside the data range only needs to be defined for one row.

Say, for example, you want to add a row that describes the data values for the group of members. You would add a formula, give it a heading and some formatting somewhere in the worksheet. Then you would enter the cell range that contains the formula, heading, and formatting in the BeforeRange parameter field.
After you add the BeforeRange range, then select eTools > Expand All, a new row is inserted before the expansion rows.

**To define a BeforeRange parameter**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. Find a place in the worksheet to enter the range. This could be in a non-visible portion of the sheet.
3. Find the **Expand range parameter** fields.
4. In the **BeforeRange** row, enter the cell range (from step 2) that describes the format you want to display.

**Defining AfterRange parameters**

The AfterRange parameter is an optional parameter that you can use to dynamically insert rows and columns of data at the end of expansions. If you have nested expansions, all AfterRange ranges are repeated.

You define one or more AfterRange parameters when you want to include additional data rows or columns after the expansions. Say, for example, you want to add a column that sums the column data values. You can add an EVSUM formula, give it a heading and some formatting, then enter the cell range that contains the formula, heading, and formatting in the AfterRange parameter field.

AfterRange parameters work the same as BeforeRange parameters. The only thing different is their placement on the worksheet. See **Defining BeforeRange parameters**.

After you add the AfterRange range, then select eTools > Expand All, a new column containing the sum of the values is inserted after the expansion columns.

- You can add one or more AfterRanges on the rows, as well as additional ones on the columns.

**To define an AfterRange parameter**

1. From BPC for Excel, open the EvDRE report or input schedule you are building.
2. Find a place in the worksheet to enter the range. This could be in a non-visible portion of the sheet.
3. Find the **Expand range parameter** fields.
4. In the **AfterRange** row, enter the cell range (from step 2) that describes the format you want to display.

**Defining Suppress parameters**

EvDRE’s ‘Suppress’ parameter allows you suppress rows and columns returning null values in all fields during an expansion. To activate this feature you enter Y (Yes) in the Suppress field of an expansion. The value can be entered in any of the expansions defined for the desired axis.

Note that rows or columns returning a zero (i.e., where a zero amount has been stored in the database) will NOT be suppressed (see the SuppressNoData to also suppress zero values).

By default the suppression is driven by the values being returned in the data range of the EVDRE function. Alternatively, you may enforce the suppression to be based on a different region of data than the one being retrieved. For example, you may specify that, even if you are retrieving category ACTUAL, you want the suppression to be based on what exists in category BUDGET. To obtain this result, you enter the ID of the overriding dimension members in the Suppress field (in place of the “Y” keyword). Multiple members of the same dimension or different dimensions can be specified in the overriding expression. For example, in the SUPPRESS field, you can enter:

```
[actual,budget],2005.total
```

An alternative suppression method is the "block" suppression. This feature allows you to activate the suppression but also to retain (not suppress) the entire set of members of the innermost expansion, if even only one row (or column) has values. This behavior is activated by the keyword “B” in the Suppress
field (in place of “Y”) and only works in combination with a formatted range of members assigned to the innermost expansion.

A block suppression may also be activated while defining an alternative region to drive the suppression. For example, you can write:

```
SUPPRESS=B:[actual,budget],2005.total
```
Using repeated expansions

You can use EvDRE to repeat the same expansion on multiple row and column key ranges. In the following example the same row expansion has been performed in two sets of rows, each one with its own column keys:

<table>
<thead>
<tr>
<th>RANGE</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageKeyRange</td>
<td>Sheet1!$F$2:$F$9</td>
</tr>
<tr>
<td>ColKeyRange</td>
<td>Sheet1!$G$13:$I$13,Sheet1!$G$20:$I$20</td>
</tr>
<tr>
<td>RowKeyRange</td>
<td>Sheet1!$E$15:$E$17,Sheet1!$E$22:$E$24</td>
</tr>
<tr>
<td>GetOnlyRange</td>
<td>Sheet1!$G$15:$I$17,Sheet1!$G$22:$I$24</td>
</tr>
<tr>
<td>FormatRange</td>
<td>Sheet1!$E$13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>EXPANSION 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExpandIn</td>
<td>ROW</td>
</tr>
<tr>
<td>Dimension</td>
<td>ACCOUNT</td>
</tr>
<tr>
<td>MemberSet</td>
<td>cash,accrec,inventory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>cash</td>
<td>412,297,236.68</td>
<td>418,481,695.23</td>
</tr>
<tr>
<td>16</td>
<td>accrec</td>
<td>103,074,309.17</td>
<td>104,620,423.81</td>
</tr>
<tr>
<td>17</td>
<td>inventory</td>
<td>41,229,723.67</td>
<td>41,848,169.52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005.APR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>cash</td>
<td>448,821,618.13</td>
<td>455,533,942.41</td>
</tr>
<tr>
<td>23</td>
<td>accrec</td>
<td>112,205,404.53</td>
<td>113,888,485.60</td>
</tr>
<tr>
<td>24</td>
<td>inventory</td>
<td>44,882,161.81</td>
<td>45,555,394.24</td>
</tr>
</tbody>
</table>

Using sequential expansions

You can use the same EvDRE function call to perform multiple expansions in a sequence on the same rows or columns. You do this by defining a RowKeyRange or ColKeyRange that is partly static, and partly dynamic.

The following figure shows an example. In the example, the RowKeyRange must include two columns: one for the ACCOUNT and one for the RPTCURRENCY dimension. The ACCOUNT dimension, however, has the expansion suppressed since the MemberSet value is NOEXPAND. This means that the ACCOUNT is hard-coded in the RowKeyRange.
PARAMETER | EXPANSION 1 | EXPANSION 2
--- | --- | ---
ExpandIn | ROW | ROW
Dimension | ACCOUNT | RPTCURRENCY
MemberSet | NOEXPAND | MEMBERS

Before the expansion, the row looks like this:

Cash

After the expansion, the range looks like this:

<table>
<thead>
<tr>
<th>Cash</th>
<th>USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>EUR</td>
</tr>
<tr>
<td>Cash</td>
<td>LC</td>
</tr>
</tbody>
</table>

Alternatively, you can enter multiple ranges in the RowKeyRange field, similar to the one above. For example, each row of the next example could represent one individual range:

| 24 | RowKeyRange =evRange(E26:F26,E27:F27,E28:F28) |
| 25 |
| 26 |
| 27 |
| 28 |

When these definitions are expanded, each hard-coded account would have been expanded for all RPTCURRENCY members, as follows.

<table>
<thead>
<tr>
<th>Cash</th>
<th>USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>EUR</td>
</tr>
<tr>
<td>Cash</td>
<td>LC</td>
</tr>
<tr>
<td>Accrec</td>
<td>USD</td>
</tr>
<tr>
<td>Accrec</td>
<td>EUR</td>
</tr>
<tr>
<td>Accrec</td>
<td>LC</td>
</tr>
<tr>
<td>Accpay</td>
<td>USD</td>
</tr>
<tr>
<td>Accpay</td>
<td>EUR</td>
</tr>
<tr>
<td>Accpay</td>
<td>LC</td>
</tr>
</tbody>
</table>

The main benefit of this technique is that the ranges can be separated by additional rows, each one customized by the user, and the rows will be preserved, because they are not part of any key range. This allows you to design multiple sections of a report that are grouped in some sort of static layout. Yet, each individual section can be expanded using the definitions of one single EvDRE function call.
Using formulas in BPC

BPC formulas are based on the multi-dimensional expression language used by Microsoft SQL Analysis Services, called MDX. For details on the syntax and usage of this powerful language, you should consult the Microsoft SQL Analysis Services Help.

Advanced formulas can also be based on the Structured Query Language (SQL). Please consult the appropriate reference guides for more information and examples of using SQL.

For information about logic formulas, see Admin Help.

Sample advanced formulas

There are several advanced formulas that you can use to enhance your reports. Many of these formulas can be found in the report templates provided with BPC. See About the report wizard and About the schedule library. Or you can define your own formulas.

Dynamically linking the year to the Category dimension

This formula links the year to the current category displayed in the CurrentView. This way the year cannot be changed in the CurrentView Time dimension. The other time dimensions (month, quarter) can still be changed.

Why do this?

This formula prevents irrelevant data from being displayed. For example, in the Budgeting application you have a category called budget2001. You can link the year 2001 to this category so that a report using the budget2001 category will display data for the year 2001 only. Any other year's data would be irrelevant in this instance and this formula will prevent such data from being displayed.

Syntax

=EVPRO(AppName,Category,"year")&".\&Period

Example

In the following sample, 2001.Total would be returned.

=EVPRO("Finance","Budget2001","Year")\&".\&Total

Requirements

The dimension Category must contain a property that designates the year value to use. The property should be titled YEAR. Below is an example of the dimension Category property (YEAR) that is needed for this formula. In this example, YEAR is the property required for this formula. When you are in the Finance application and the CurrentView is set to Budget, the year will be set to 2001. If you change the CurrentView to FCST, the year will be set to 2000.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ID</td>
<td>NEWID</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>2</td>
<td>ACTUAL</td>
<td>ACTUAL</td>
<td>2000</td>
</tr>
<tr>
<td>3</td>
<td>BUDGET</td>
<td>BUDGET</td>
<td>2001</td>
</tr>
<tr>
<td>4</td>
<td>BUDGETV1</td>
<td>BUDGET VERSION 1</td>
<td>2001</td>
</tr>
<tr>
<td>5</td>
<td>BUDGETV2</td>
<td>BUDGET VERSION 2</td>
<td>2001</td>
</tr>
<tr>
<td>6</td>
<td>BUDGETV3</td>
<td>BUDGET VERSION 3</td>
<td>2001</td>
</tr>
<tr>
<td>7</td>
<td>FCST</td>
<td>FORECAST</td>
<td>2000</td>
</tr>
</tbody>
</table>

Creating a dynamic comparison category

This formula dynamically links a comparison category to the category in the CurrentView.
Syntax

=EVPRO(application,CurrentView Category Cell reference, "comparison")

Example

The category designated as a comparison Category to Budget is inserted in the comparison column.

=EVPRO("Finance",Budget,"Comparison")

Requirements

The Category dimension must have a Comparison property. The following figure shows an example of how the Category dimension uses the Comparison property. In the example, if the CurrentView is set to ACTUAL, the comparison category is BUDGET. If the CurrentView is set to Budget, the comparison category is Forecast.

If the Category dimension does not contain this property, see your administrator.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ID</td>
<td>NEWID</td>
<td>DESCRIPTION</td>
<td>YEAR</td>
<td>Comparison</td>
</tr>
<tr>
<td>2</td>
<td>ACTUAL</td>
<td>ACTUAL</td>
<td>2000</td>
<td>BUDGET</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BUDGET</td>
<td>BUDGET</td>
<td>2001</td>
<td>FCST</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BUDGETV1</td>
<td>BUDGET VERSION 1</td>
<td>2001</td>
<td>FCST</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>BUDGETV2</td>
<td>BUDGET VERSION 2</td>
<td>2001</td>
<td>FCST</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>BUDGETV3</td>
<td>BUDGET VERSION 3</td>
<td>2001</td>
<td>FCST</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>FCST</td>
<td>FORECAST</td>
<td>2000</td>
<td>ACTUAL</td>
<td></td>
</tr>
</tbody>
</table>

MDX expressions for sorting and ranking

MDX is a query language used with Microsoft Analysis Services (also known as MS OLAP). It supports the definition and manipulation of multidimensional objects and data. For detailed information about the MDX language, go to www.microsoft.com and search for Analysis Services. This topic explains some MDX expressions that are commonly used in BPC.

💡 Some of the report wizard templates have sorting and ranking built in. The control panel in the templates automatically create the correct MDX queries to run against the database. See About the report wizard.

You can use the following MDX expressions with Set expressions for sorting and ranking:

- TopCount/BottomCount
- TopPercent/BottomPercent
- TopSum/BottomSum
- Order

💡 In all the sorting and ranking expressions described below, the Numeric expression must include all the dimensions in the application. The Measures dimension must be specified as Measures:member when using a measure other than PERIODIC.

TopCount/BottomCount

This MDX expression returns a list of top (or bottom) performing members from the dimension specified in the Set parameter.
Syntax

TopCount(«Set», «Count»[, «Numeric Expression»])
BottomCount(«Set», «Count»[, «Numeric Expression»])

The TopCount function sorts a set according to the value of «Numeric Expression» and returns the top «Count» members, where «Count» is a numeric expression. The BottomCount function sorts a set according to the value of «Numeric Expression» and returns the bottom «Count» members, where «Count» is a numeric expression.

Example

This example returns the top five performing Entity members (as specified in the Set expression). The members are returned based on the calculation of the numeric expression. In this example, the numeric expression looks at the numeric value for the intersection of the time period 2001.TOTAL, the account REVENUE, the currency USD and returns the top 5 members.

="TopCount(AddCalculatedMembers(Entity:members),5,(Entity.CurrentMember,2001.TOTAL,REVENUE,ACTUAL,USD,PERIODIC))"

TopPercent/Bottom Percent

This MDX expression behaves the same as the TopCount expression except that the members returned are based on a percentage.

Syntax

TopPercent(«Set», «Percentage», «Numeric Expression»)
BottomPercent(«Set», «Percentage», «Numeric Expression»)

The TopPercent function sorts a set using «Numeric Expression» and returns the top n elements whose cumulative total of «Numeric Expression» is at least «Percentage». «Percentage» is a numeric expression. The BottomPercent function sorts a set specified in «Set» and returns the specified number of bottommost elements whose cumulative total of «Numeric Expression» is at least «Percentage». «Percentage» is a numeric expression.

Example

This example returns the Entity members (as specified in the Set expression) that make up the top 50% of Revenue in USD, for the time period 2001.TOTAL (as specified in the numeric expression).

="TopPercent(AddCalculatedMembers(Entity:members),50,(Entity.CurrentMember,2001.TOTAL,REVENUE,ACTUAL,USD,PERIODIC))"

TopSum/BottomSum

TopSum sorts a set and returns the topmost elements whose cumulative total is at least a specified value. BottomSum sorts a set using a numeric expression and returns the specified number of bottommost elements whose sum is at least a specified value.

Syntax

TopSum(«Set», «Value», «Numeric Expression»)
BottomSum(«Set», «Value», «Numeric Expression»)

The TopSum function sorts on «Numeric Expression» and picks up the top n (the smallest number possible) elements such that their sum is at least «Value». The BottomSum function sorts on «Numeric Expression» and picks up the specified number of bottommost (the smallest number possible) elements such that their sum is at least «Value».

Example
Order
The Order formula returns members in a specified order.

Syntax
Order(«Set», {«String Expression» | «Numeric Expression»} [, ASC | DESC | BASC | BDESC])

There are two varieties of Order: hierarchical (ASC or DESC) and non-hierarchical (BASC or BDESC, where B stands for Break hierarchy). The hierarchized ordering first arranges members according to their position in the hierarchy. Then it orders each level. The nonhierarchized ordering arranges members in the set without regard to the hierarchy. In the absence of an explicit specification, ASC is the default.

Example
This example returns Entity members, in descending order, based on their Revenue for 2001.TOTAL.

Order(AddCalculatedMembers(Entity:members),{Entity.CurrentMember,[2001.TOTAL],Revenue,ACTUAL,USD,PERIODIC},DESC)
Appendix A: New in EvDRE

A user interface has been integrated in this version of EvDRE that allows you to initialize all the ranges that need to be defined for the function.

Using the EvDRE Builder

To build an EvDRE report using the EvDRE Builder, do the following:

1. In a clean BPC for Excel worksheet, enter this instruction in the top leftmost cell:
   \[ =\text{EVDRE}() \]
2. Click the REFRESH toolbar button. The EvDRE Builder dialog box allows you to select the dimensions you want in the columns, what dimensions you want in the rows, and a few more details about your report.
3. You can take what is proposed by default, or make some adjustments, then click OK. Your report will be automatically built for you, nicely formatted and populated with real data.

About the EvDRE Builder

This user interface, by default, builds a report containing one expansion for the columns using the TIME dimension and one expansion for the rows using the ACCOUNT dimension. These settings are modifiable using the available objects. An appropriate member set for the selected expansions is also proposed.

The “Allow expansions” check box, if set, will automatically trigger an expansion in the Excel sheet. The “Allow Options” check box automatically generates an “OptionRange.”

For more information, see New “expansion” functionality on page 145 and New EvDRE Options on page 146.

The EvDRE Builder also permits you to optionally generate a FORMAT range and a SORT range. Selecting the “Allow formatting” check box allows you to choose a default formatting style generated automatically, or to import the style from some predefined workbook (either local or server-based). For more information, see Building and using your own “style” sheets on page 150.

When “Allow sorting” is selected, a sorting range is inserted in the worksheet. You may ask for a break total to be automatically inserted in the worksheet, and display the values as descending.

Alternatives to using the EvDRE Builder

As an alternative to using the EvDRE Builder, a report can be generated with just ONE CELL of options (where all the options can be set using a comma delimited list of instructions) or with a RANGE listing all possible options, which can be individually turned on or off.

In addition, the older method of passing the number of expansions in the first parameter of the function is still supported, purely for compatibility with prior versions. Basically, if more than one expansion on either axis is desired, you can type-in the EVDRE function using the following alternative syntax:

\[ =\text{EVDRE}("{c}\times {r}\)}\]

... where \(c\) is the number of expansions in columns, and \(r\) is the number of expansions in rows. For example, the following function call will generate a report template containing 2 expansions in columns and 3 expansions in rows, when you hit the refresh button.

\[ =\text{EVDRE}("2 \times 3\)}\]
New “expansion” functionality

- Before executing an expansion, existing merged cells in the report range are removed to avoid expansion errors.
- The EvDre Builder generates a new layout of the ranges.
- Implemented "3D Expansions,” and support for them in the EvDRE Builder. For more information, see Expansions across sheets (“3D expansions”) on page 152.
- BEFORE_EVDRE_REFRESH event is fired AFTER all EvDRE expansions are performed and BEFORE starting data retrieval.
- The sequence of operations has changed as follows:
  1. Expansion (taking account of MemberSet of FormattedRange)
  2. Suppression
  3. Data Refresh
  4. Formatting
  5. Sorting
  6. Insertion of Before and After Ranges of SortRange
  7. Application of Format of FormattedRange
  8. Insertion of Before and After Ranges of ExpandRange.

For more information, see Understanding the sequence of events on page 145.

- For the Suppression parameters, the RETAIN(<member>) keyword has been implemented to preserve a member for rows or columns with no value. For more information, see below.

Retaining members in suppressions

When multiple dimensions are selected in the row/(column) keys, it may easily happen that the user wants to see at least one row/(columns) for each member of the outer dimensions, but all (and only) the members with values for the inner dimension.

For example, you want to see all ASSET accounts and, wherever there are INTCO details associated, see all of their values (and only those).

This output has been obtained using the keyword RETAIN({member}) in the SUPPRESS field for the INTCO dimension. This has triggered a suppression of the ROW axis, but all accounts with no value have been assigned one row, intersecting them with the NON_INTERCO member of the INTCO dimension.

In an instance, the user has decided to retain a parent member, so that all accounts will also show a TOTAL row, whenever some details are found.

The RETAIN keyword can also be used without a parameter. In this case the member to retain in the suppressed dimension will be taken from the current view, as set in the page key range.

Understanding the sequence of events

To fully understand what happens when a report is expanded, it may be helpful to know exactly what sequence of events takes place when an expansion is triggered. For the adventurous, here is such sequence:

- The member sets to apply are expanded (this includes the members of the formatted sets, if defined)
- The suppressions are performed
- The data are refreshed
- The formatting instructions are applied
- The sorting instructions are applied
- The before- and after-ranges of sorting are inserted, with their formats
- The formats of the formatted sets are applied
- The before- and after-ranges of the expansions are inserted, with their formats
This sequence has been carefully tuned in order to make sure that the formats of the before and after ranges as well as of the formatted sets are never overridden by the formatting instructions of the format range. In other words, if some portions of the report are already formatted, the format instructions will not break the pre-defined formats.

**New EvDRE Options**

EvDRE supports OPTIONS that can be activated by entering the appropriate keywords (separated by commas) in the Options cell of the KeyRange.

Alternatively, the Options cell (which can also be named OptionRange), may contain an EVRNG function pointing to a RANGE of cells listing any number of valid options. This range is provided by default, if you select the “Allow options” check box in the EvDRE Builder.

The first column in the range must contain a valid option keyword. The second column will activate the corresponding option with a “Y” or “Yes” value, or with a numeric value, where appropriate.

Here is the list of the currently supported options. A more detailed explanation of each option is included below. The keywords are NOT case sensitive.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutofitCol</td>
<td>Automatically adjust the size of the columns containing the EvDRE ranges to fit the content after refreshing data</td>
</tr>
<tr>
<td>BOTTOM n</td>
<td>Show only the n lowest values in the entire data range</td>
</tr>
<tr>
<td>DumpDataCache</td>
<td>The content of the data cache is written in the log file EvDre_log.txt</td>
</tr>
<tr>
<td>ExpandOnly</td>
<td>Disables the refresh action, and performs only an expansion, when requested. Data are not retrieved from the database</td>
</tr>
<tr>
<td>GroupExpansion</td>
<td>(see the dynamic hierarchies section)</td>
</tr>
<tr>
<td>HideColKeys and HideRowKeys</td>
<td>These options will hide the corresponding key ranges</td>
</tr>
<tr>
<td>NoRefresh</td>
<td>This option prevents the system from refreshing data from the database</td>
</tr>
<tr>
<td>NoSend</td>
<td>This option prevents the system from sending data to the database</td>
</tr>
<tr>
<td>PctInput</td>
<td>Enforce a different percentage of input data to trigger SQL queries (default is 20%)</td>
</tr>
<tr>
<td>QueryEngine</td>
<td>Manual (or blank for Automatic)</td>
</tr>
<tr>
<td>QueryType</td>
<td>NEXJ,TUPLE (or blank for Automatic)</td>
</tr>
<tr>
<td>QueryViewName</td>
<td>Use a user-defined view for querying SQL data</td>
</tr>
<tr>
<td>ShowComments</td>
<td>Add an Excel comment in any DataRange cell with a formula, if the value retrieved from the database is different from the one displayed by the formula</td>
</tr>
<tr>
<td>ShowNullAsZero</td>
<td>All empty cells in the data range are filled with zeros</td>
</tr>
<tr>
<td>SortCol</td>
<td>Sort a given columns (old syntax – see SortRange)</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SQLOnly</td>
<td>Force the query engine to only issue SQL queries</td>
</tr>
<tr>
<td>SumParent</td>
<td>This option inserts new rows with subtotals</td>
</tr>
<tr>
<td>SuppressDataRow and</td>
<td>These options will perform a suppression on the defined data range directly in Excel</td>
</tr>
<tr>
<td>SuppressDataCol</td>
<td></td>
</tr>
<tr>
<td>SuppressNodata</td>
<td>Prevent the suppression of zero values. Only missing (no data) values will be suppressed. Otherwise, both zeros and missing data will be suppressed.</td>
</tr>
<tr>
<td>TOP n</td>
<td>Show only the n highest values in the entire data range</td>
</tr>
</tbody>
</table>

**Option AutoFitCol**

The option AutoFitCol will automatically adjust the size of the columns containing the EvDRE ranges to fit with the content. If the AutoFitCol option is selected, the entire column of the PageKeyRange, as well as the entire report-range columns, are AutoFitted.

**Options BOT and TOP**

These two options will restrict the display of only the largest (TOP) or smallest (BOT) values in the data range. Combining this option with the appropriate suppression instruction, only the relevant rows or columns will remain in the sheet. The filter is now applied to the entire data range. You cannot define things like “give me the top 5 rows with the largest amount in the first column” or anything more sophisticated.

**Option DumpDataCache**

All EvDRE input schedules maintain a hidden cache of all data retrieved in the sheet, so that any modified cell can be easily identified and sent to the database. When the DumpDataCache option is activated, on every send action the content of the data cache is written in the client-based log file EvDre_log.txt, which is saved under the “My Documents” folder of the current user, and can be reviewed for debugging purposes.

**Option ExpandOnly**

The option ExpandOnly can be used to disable the refresh action for a given EvDRE function. When this option is turned on, EvDRE will only perform an expansion, when requested, but no data will ever be retrieved from the DB to populate the data range. This feature can be useful when multiple EvDRE functions are used to build some complex reports, where one function is in charge of expanding the rows or columns, and another one is in charge of retrieving the values from the db on a shared data range.

**Options HideColKeys and HideRowKeys**

These two options can be used when the keys of either the rows or the columns should not be shown. While still existing, their associated columns and rows in the sheet will automatically be set to “hidden”. This action is triggered when data are refreshed (even if no expansion is requested).

**Option NoRefresh**

This option can be used in reports or input schedules to limit an EvDRE function to only perform expansions and/or sends, but never retrieve data from the database.
Note that an exception to this behavior is an expansion with SUPPRESSIONS. If an expansion with suppression is performed, the data will still be retrieved, basically ignoring the option.

**Option NoSend**

This option can be used in input schedules to limit an EvDRE function to only perform expansion or refresh actions, but never send data. This feature can be useful when multiple EvDRE functions are used in an input schedule, to specialize their action.

**Option PctInput**

By default EvDRE decides to split the query in one SQL query and up to 2 MDX queries, if more than 20% of data can be read directly from the fact tables. This threshold can be adjusted to a higher or lover value using this option. (This option has been implemented mostly for debugging purposes, and, to our knowledge, has been very rarely used).

**Options QueryEngine and QueryType**

EvDRE uses an intelligent query engine which automatically optimizes the type (SQL or MDX) and format (crossjoins, tuples, etc.) of queries to issue, in order to retrieve the data.

Mostly for debugging purposes, the option QueryEngine has been implemented, allowing the user to choose directly the format of the MDX queries to use. This can be obtained setting this option to “Manual” and combining it with the QueryType option to one of the possible values:

- NEXJ Use two-dimensional queries using the nonemptycrossjoin function
- TUPLE Use two-dimensional queries using tuples

**Option QueryViewName**

This option can be used to enforce the query engine to use a used-defined SQL view of the fact tables, when trying to read the values using SQL queries. This option is typically used in conjunction with the **SQLOnly** option (see below). It has been used in very rare situations, mostly for research purposes.

**Option ShowComments**

This option can be used to turn on the Excel comments used in the data range when this one contains formulas.

**Option ShowNullAsZero**

Some customers do not like to see ranges with no data as ranges of empty cells. This option will automatically fill all empty cells with zeros.

**Option SQLOnly**

In some special circumstance the customers wanted to enforce the query engine to only execute SQL queries, when reading data. This can be achieved using this option.

**Option SumParent**

This expansion option can be handy to generate input schedules where the user will see the values of the parents automatically populated with the sum of the children, as data are entered into the latter, without the need to perform a send action.

The option also works on the account dimension, even if expenses/liabilities are to be added into income/asset parents (and vice versa) as the value of the ACCTYPE property will be correctly taken into account, in creating the formulas.
It is important to note that the option only works if the member set contains the keyword ALL. This is in fact the only way by which the presence of all children for each parent can be enforced by the function. Another current limitation is that the schedule must have some base level member in both axes (rows and columns).

**Suppression-Only options**

An EVDRE function can be specialized to only perform a suppression of empty rows or columns. The options that can be used for this purpose are **SuppressDataRow** and/or **SuppressDataCol**. Obviously in this case the suppression will be performed directly on the data grid in Excel, after it has been populated with some value by (probably) some other EVDRE function. This feature can be useful when multiple EVDRE functions have contributed to the population of a shared grid of data. In these situations the individual functions might not have the required information to be able to identify what to suppress, and an extra function may be applied to the combined data just for this purpose. It must however be remembered that the un-suppressed data ranges generated by the initial functions might easily exceed the maximum size of an Excel sheet, making this technique hard to use.

**Option SuppressNoData**

By default EvDRE suppressions will indifferently suppress rows or columns where all data are zero or null. With the SuppressNoData option the user can ask the function to only suppress rows or columns containing no data (null values), while still displaying those containing "stored" zeros.

**Using a special view**

There may be certain cases where you may need to access the data in the fact tables using a custom view built in SQL. This action can be activated at application level passing the name of the view to the following application parameter:

```
EVDRE_QUERYVIEWNAME
```

**New Formatting range options**

- In the USE section, the PROTECTION keyword has been added to support application of the entire cell Protection section (Locked+FormulaHidden).
- In the USE section, BORDER is now available for cell. Affected range properties: ColorIndex, LineStyle, Weight (of each segment: xlDiagonalDown, xlDiagonalUp, xlEdgeBottom, xlEdgeLeft, xlEdgeRight, xlEdgeTop). For more information, see BORDER vs. FRAME on page 150.
- In the USE section, there is now support for FRAME. For more information, see BORDER vs. FRAME on page 150.
- In the USE and PARAMETERS section, there is now support for STYLE.
- In the USE and PARAMETERS section, there is now support for cell CONTENT.
- In the USE and PARAMETERS section, there is now support for all Cell properties using VBA syntax.
- The property CALC has been added to EvDRE MEASURES metadata to support CALC formatting CRITERIA.

**General formatting updates**

- When using the EvDre Wizard, the system does not change the worksheet color if an EvDRE grid already exists.
- The APPLY TO parameter now supports the PAGEKEY keyword to provide formatting of the PageKeyRange.
BORDER vs. FRAME

The instructions BORDER and FRAME have a similar meaning, in that they will instruct the function to apply the Excel bordering formats to the desired range. The difference between the two is however important to remark:

The BORDER instruction applies a border to each individual CELL of the range.
The FRAME instruction applies an external border to the RANGE as a whole.

Building and using your own “style” sheets

It may be complex and time consuming to come up with a nice looking set of formatting definitions for your application’s reports or schedules, and you may want to be able to re-use these definitions automatically in all your BPC for Excel templates.

This is currently possible when a new report is being defined using the EvDRE Builder. The procedure is this:

• Create a report or schedule containing one EvDRE function with the desired formatting definitions. Save it locally (in My Reports or My Schedules) or on the server. For example, you may call it “MyInputStyle1.xls” or “MyReportStyle1.xls.”
• When creating a new report or schedule for which you want to import the previous formatting options, select the following options in the EvDRE Builder:
  o Select the “Allow formatting” option
  o Pick the desired “Import STYLE” radio button (either “from local” or “from server”)
  o Choose the appropriate style sheet (say MyReportStyle1.xls)
• When you click the Ok button, the new EVDRE function will import all formatting definitions from the selected style sheet.

Note that all the following Excel definitions will be imported automatically from the style workbook:

• The Format range of the EVDRE function
• All BPC for Excel workbook options
• All Excel-defined styles
• The workbook color palette
• The range of cells to the right of the page key range and above the column headings (which might contain some “title” for the report)

Remarks

Currently an EVDRE style may only be imported when a new report is being built using the EvDRE Builder. This means that if the style workbook is later modified, the reports already built using the older version of the style will NOT be automatically updated to use the new style definitions (this might be implemented in a future release).

A style workbook may contain formatting instructions defining what cells should be locked and what not. However the style workbook cannot be saved as protected. The protection, if desired, will need to be manually turned on in each one of the new schedules built using such style.

New “Insert Member” functionality

There is a new UI option to allow inserting BEFORE the current row/column.

The Insert action triggered by the “Y” keyword has become dimension-specific as opposed to the previous axis-specific behavior. This means that the insert parameter “Y” may be replaced with an explicit set of members that are valid for insertion. The set may be defined using the same syntax available in the MemberSet fields (comma-delimited list, BAS, DEP, etc.)

Important remark: currently you might define a (suppressed) expansion on one set of members (like Cash, AccRec, Inventory) but at the same time allow for the insertion of a
different set of members (like Banks, AccPay, OtherLiabs). While such inconsistency is not prevented by the product, it is strongly discouraged, as you might end up sending values to cells you do not have on the screen, without knowing if some other value already exists in the database for these cells. Basically, it is important to keep the member set in synch with the list of insert-able members.

The FormattedRange is now inserted if present in the report design. When a formatted member set range has been defined, the insert action will automatically trigger the insertion of the entire set.

Note that this behavior can be disabled if the INSERT option is also activated in the dimension using a formatted range (INTCO). In such case, you will also be allowed to select individual inter-company members, even if the INTCO range is defined using a formatted range.

Note also that the automatic insertion of the entire set will NOT be activated if the member set is not formatted, i.e., if the set is defined with a one-column range (or, obviously, directly defined in the MemberSet field).

The Insert operation is no longer allowed on rows (or columns) containing EV_BEFORE or EV_AFTER placeholders.

The insert mechanism can also be activated on COLUMN keys, enabling the user to insert on the fly some new column into the sheet.

**Using Level-based MemberSets**

The "Level-based keywords" (LBAS, LDEP, LALL, LMEMBERS and LBASMEMBERS) also support a third parameter "Y" (or "Yes") which makes them generate only the list of members of the selected level, skipping the members of all intermediate levels.

Example:

LDEP(2,2005.TOTAL) will give all quarters and all months of 2005
LDEP(2,2005.TOTAL, Y) will give only all months of 2005

**Using EvSUM and EVSUB**

A special instruction “EVSUM” can be placed in the data range portion of a before- or after-range. When the expansion is performed, this keyword will be automatically turned into an Excel formula that calculates the sum of the members of the related expansion.

EVSUMs can be nested together with their related before- or after-ranges.

A newer variation of the EVSUM keyword is the **EVSUB keyword**. This keyword has a similar behavior as EVSUM, but it provides more flexibility to the mathematical operations being available for use in the expanded range. The EVSUB basically inserts the Excel function SUBTOTAL (instead of the SUM or SUMIF functions) in the appropriate cells, with the possibility to pass to it an identifier of the type of mathematical operation the user wants to be performed on the range of cells.

For example, the instruction EVSUB(2) will insert the Excel function SUBTOTAL(2,{range}) in the sheet, and the function will return the number of elements in the {range} (using the COUNT operation, as triggered by the value 2 of the identifier).
Passing no parameter to EVSUB will correspond to passing a 9, which represents the SUM operation.

Here is an excerpt of the Excel documentation describing the SUBTOTAL function:

**Syntax**

\[ = \text{SUBTOTAL}(\text{function\_num}, \text{ref1}, \text{ref2}, \ldots) \]

Function\_num is the number 1 to 11 (includes hidden values) or 101 to 111 (ignores hidden values) that specifies which function to use in calculating subtotals within a list.

<table>
<thead>
<tr>
<th>Function_num (includes hidden values)</th>
<th>Function_num (ignores hidden values)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>101</td>
<td>AVERAGE</td>
</tr>
<tr>
<td>2</td>
<td>102</td>
<td>COUNT</td>
</tr>
<tr>
<td>3</td>
<td>103</td>
<td>COUNTA</td>
</tr>
<tr>
<td>4</td>
<td>104</td>
<td>MAX</td>
</tr>
<tr>
<td>5</td>
<td>105</td>
<td>MIN</td>
</tr>
<tr>
<td>6</td>
<td>106</td>
<td>PRODUCT</td>
</tr>
<tr>
<td>7</td>
<td>107</td>
<td>STDEV</td>
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<tr>
<td>8</td>
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<td>9</td>
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</tr>
<tr>
<td>10</td>
<td>110</td>
<td>VAR</td>
</tr>
<tr>
<td>11</td>
<td>111</td>
<td>VARP</td>
</tr>
</tbody>
</table>

**Expansions across sheets (“3D expansions”)**

A special case of expansion is an expansion where the member set must be enumerated across sheets.

Here is an example of the result of a 3D expansion performed on Entity SalesEurope and its children:

<table>
<thead>
<tr>
<th>App</th>
<th>FINANCE</th>
<th>Financial Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNT</td>
<td>NetIncome</td>
<td>Net Income</td>
</tr>
<tr>
<td>CATEGORY</td>
<td>ACTUAL</td>
<td>Actual from GL</td>
</tr>
<tr>
<td>DATASRC</td>
<td>Input</td>
<td>Input</td>
</tr>
<tr>
<td>ENTITY</td>
<td>SALESEUROPE</td>
<td>Sales Europe</td>
</tr>
<tr>
<td>INTCO</td>
<td>Non_InterCo</td>
<td>Non-Inter-company</td>
</tr>
<tr>
<td>MEASURES</td>
<td>PERIODIC</td>
<td>Periodic</td>
</tr>
<tr>
<td>RPTCURRENCY</td>
<td>EUR</td>
<td>EURO</td>
</tr>
<tr>
<td>TIME</td>
<td>2005.Q1</td>
<td>2005.Q1</td>
</tr>
</tbody>
</table>
The expansion has basically replicated the sheet defining the expansion in several sheets (one sheet per expanded member), generating a “book” of reports for the desired set of members.

The generated sheets will be named after the member being expanded in the sheet. The page key defining the page member of the sheet dimension will also contain the hard coded ID of the current member.

Technically speaking, each of the resulting tabs contains a replica of the starting EVDRE function, where the ENTITY member specified in the PAGEKEY is the (hard-coded) member ID associated with the current sheet.

It is important to remark that the starting sheet defining the expansion will become the first sheet of the expanded set. As a result, also the starting sheet will have the entity ID hard-coded in the page key, even if initially it contained a reference to the current view (by the use of EVCVW, for example)

For the above reason, the member set defining the sheet expansion cannot be specified as relative to the content of the page key (because it will become hard-coded), otherwise the workbook will not be re-usable for further expansions on different current views (of the dimension expanded in SHEET).

To overcome this limitation, the member set of the sheet expansion can be either self-defined (with something like BAS(Europe) or CURRENCY="EUR") or made relative to what defined in the current view bar by pointing to some other cell in the sheet.

Note that the following restrictions apply, when the expansion is performed across sheets:

- There must be only one EVDRE function in the sheet defining the expansion
- Only one dimension can be expanded across sheets (no nested SHEET expansions)
- The BeforeRange and the AfterRange parameters for the SHEET expansion are ignored
- The Insert parameter for the SHEET expansion is ignored

New “Sorting” range

The Keys range of an EVDRE function may contain an optional range called SortRange, pointing to a range of cells defining how the rows of the report should be sorted. This range must be made of 4 columns and 4 rows.

The first column of such range must contain the name of the sorting parameter and the remaining 3 columns will define up to 3 possible sorting methods (the limit of 3 is what Excel natively supports in its current version).

The first parameter ("column") may contain the following:

- A column identifier (for example “J”), indicating the column on which the sorting must be based
- A \{dimension\}.\{property\} identifier (for example ENTITY.CURRENCY) indicating that the rows must be sorted according to the alphabetical order of the value of some property of a given dimension

The second parameter ("order") specified the order of the sorting and it can be any word beginning with “D” (for “Descending”) or “A” (for “Ascending”). A blank field will default to ascending.
The third and fourth parameters ("BeforeRange" and "AfterRange") can be used to define a range of cells that should be inserted in the report above (BeforeRange) or below (AfterRange) each change of value in the sorting criteria.

In the definition of the AfterRange the keyword %KEY% can be used. This keyword returns the value of the sorting element (the currency) for which a break total is being inserted. The EVSUB keyword can also be used in the data cell to create subtotals by currency.

It is important to note that sorting on the currency of the entities can be performed without the need to retrieve in the sheet the value of the currency property. Everything can be taken care of automatically by the function.

It must also be noted that the sorting action is performed after the data can be refreshed, even if NO EXPANSION has been performed. If Before- or After-ranges have been defined on the sorting criteria, these ranges will be automatically removed from the report and re-applied to its content after the data have been refreshed. This will also happen if no EXPANSION has been triggered.
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