



Nasdaq Calypso

On Demand Analysis

Version 18

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February 2024
Approved

1. On Demand Analysis

The On Demand Analysis window allows running risk analyses on-the-fly based on trade selections and/or trade filters, and allows creating speed buttons for various applications: Trade Blotter, Calypso Activity Browser, Trade Windows, Pricing Sheet, Calypso Workstation. The output can be viewed in the Calypso Workstation or can be saved to a file.

The On Demand Analysis window can be used in multiple ways:

- You can run "Ad Hoc" risk analyses on-the-fly - "Ad Hoc" indicating that you select the parameters of the risk analysis on-the-fly.
- You can run "On Demand" risk analyses on-the-fly - "On Demand" indicating that you select pre-defined parameters. This requires the configuration of pre-defined parameters.
- You can define speed buttons to be used in other applications.

From the Calypso Navigator, navigate to **Position & Risk > On Demand Analysis** to access the On Demand Analysis window. It can also be invoked from the Trade Blotter, Calypso Activity Browser, Trade windows, Pricing Sheet, and Calypso Workstation.

Revision Date	Comment
February 2024	First edition for version 18

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1.1 Before you Begin

1.1.1 Adhoc Risk Server

The On Demand Analysis window requires an adhoc Risk Server to be running.

► Please refer to the Calypso Installation Guide for details on setting up adhoc Risk Servers.

1.1.2 Access Permissions

The following access permission functions are specific to the On Demand Analysis window.

ConfigureODAServers

Permission to modify the selection of default Calculation Server, Presentation Server, Market Data Server, Dispatcher.

ConfigureODAShortcuts

Permission to configure input shortcuts and analysis shortcuts.

DistributeODAShortcuts

Permission to distribute input shortcuts and analysis shortcuts to other users.

DistributeODASpeedButtons

Permission to distribute speed buttons to other users.

ODAAdhocAnalysis

Permission to run Ad Hoc analyses.

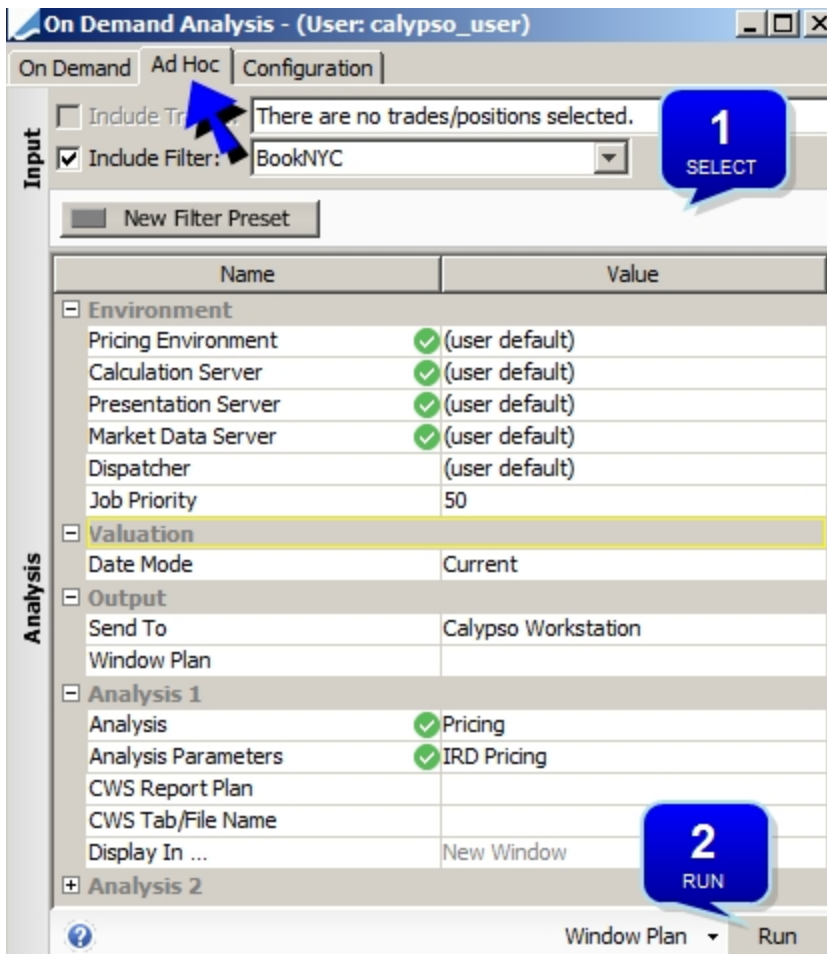
ODAAdhocTradeFilter

Permission to select a trade filter in the Ad Hoc and On Demand panels.

1.2 Running Ad Hoc Risk Analyses

Select the Ad Hoc panel.

1.2.1 Ad Hoc Request



[Sample Ad Hoc request](#)

Step 1 - Select the input parameters and analysis parameters.

Input Parameters

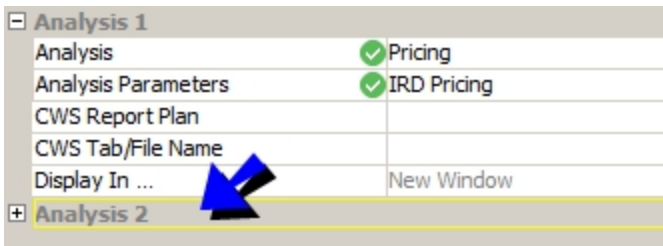
Select the input parameters: You can run the analysis on selected trades and/or trade filters.

- Check "Include Trades" to include the trades currently selected in the application from which you have requested On Demand Analysis.
- Check "Include Filter" to select a trade filter, or click an input shortcut to select the corresponding input parameters - Input shortcuts are created in the Configuration panel.
▶ See [Configuring Pre-Defined Parameters](#) for details.

Analysis Parameters

Select the analysis parameters - They are described below.

Parameters	Description
Pricing Environment	<p>The pricing environment specified in the User Defaults is used by default.</p> <p>You can select "(trade source)" to use the pricing environment specified in the application from which you have requested On Demand Analysis. Only applies when the input parameters include selected trades.</p> <p>When using "(trade source)", you should also use Date Mode = Trade Source.</p> <p>You can also select a specific pricing environment as applicable.</p>
Calculation Server	<p>The Calculation Server specified in the User Defaults is used by default.</p> <p>You can select another Calculation Server as applicable.</p>
Presentation Server	<p>The Presentation Server specified in the User Defaults is used by default.</p> <p>You can select another Presentation Server as applicable.</p>
Market Data Server	<p>The Market Data Server specified in the User Defaults is used by default.</p> <p>You can select "(trade source)" to use the Market Data Server specified in the application from which you have requested On Demand Analysis. Only applies when the input parameters include selected trades.</p> <p>You can select another Market Data Server as applicable.</p>
Dispatcher	<p>The Dispatcher specified in the User Defaults is used by default.</p> <p>You can select another Dispatcher as applicable, or none.</p>
Job Priority	<p>You can change the job priority to bypass jobs currently running with a lower priority. The highest priority is 1.</p> <p>Default is 50.</p>
Date Mode	<p>The valuation date defaults to "Current", the current date and time. You can also select "Trade Source", "Offset", or "Specific".</p> <p>Trade Source</p> <p>Select "Trade Source" to use the valuation date and time specified in the application from which you have requested On Demand Analysis.</p> <p>Offset</p> <p>Select "Offset" to run on a number of business days in the past.</p> <ul style="list-style-type: none"> » Enter the number of days. » Select holiday calendars to determine business days. » Select the time mode: <ul style="list-style-type: none"> – Specific - Enter the valuation time. There is no trade undo. – Snapshot - Select the snapshot time.

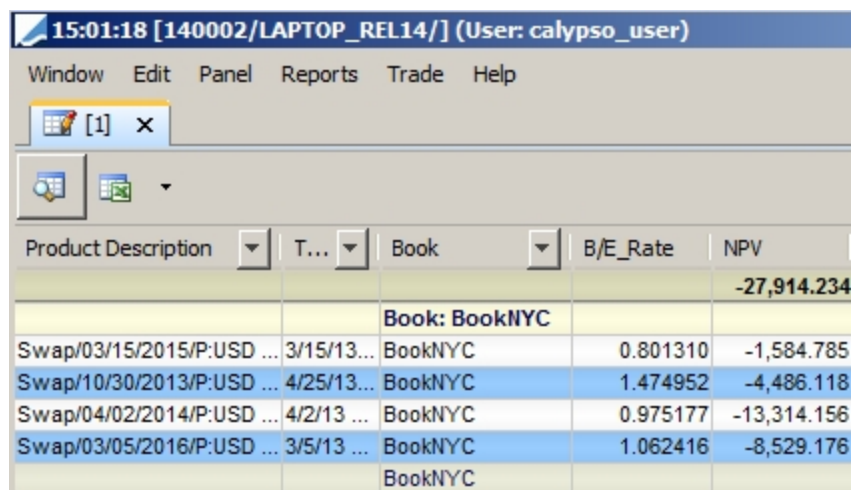
Parameters	Description
	<p>If you are running the risk analysis on a trade-based trade filter, the system performs trade undo.</p> <p>If you are running the risk analysis on a position-based trade filter, the risk analysis is based on the position snapshot at the selected date and time.</p> <p>Position snapshots are created using the scheduled task CREATE_POSITION_SNAPSHOT.</p> <p>Snapshot times are set in the VALUATION_TIMES engine parameter for the Position engine.</p> <p>► Refer to Calypso Position Management documentation for information on creating position snapshots.</p> <p>If you are running the risk analysis on selected trades, there is no trade undo on the selected trades.</p> <p>Specific</p> <p>Select "Specific" to run on a specific date.</p> <ul style="list-style-type: none"> » Enter the valuation date. » Select the time mode as for the "Offset" option. It follows the same logic.
Send To	<p>By default, the results are displayed in a Calypso Workstation window, or you can save the results to a file.</p> <p>Calypso Workstation</p> <p>You can select a Calypso Workstation window plan.</p> <p>You can create a window plan using Window Plan > New at the bottom of the window.</p> <p>File</p> <p>You can also select "File" to save the results to a file. You can enter the file name in the Analysis section.</p> <p>You can enter an email address to which the file will be sent.</p>
Analysis	<p>Select the analysis you want to run.</p> <p>The On Demand Analysis window supports the risk reports defined in the domain "riskPresenter".</p> <p>You can run multiple analyses. An "Analysis #" area is added each time you add a new analysis.</p> 
Analysis Parameters	Select the corresponding analysis parameters.

Parameters	Description
	<p>Analysis parameters can be created from the Risk Config window, or from the Calculation Server Configuration window.</p> <p>► Refer to Calypso Risk Analyses documentation for details on configuring risk analyses.</p>
CWS Report Plan	<p>You can select a CWS report plan if any exists, otherwise you will be prompted to configure a report plan when the report is displayed the Calypso Workstation.</p> <p>For the output file, the selection of a CWS report plan is mandatory.</p>
File Format	<p>Only applies if the results are sent to a file.</p> <p>Select the file format.</p>
CWS Tab/File Name	<p>You can enter a name for the Calypso workstation window.</p> <p>For the output file, enter a file name. By default it is stored in the Default Directory defined in the User Defaults.</p>
Display In	<p>Only applies if the results are sent to the Calypso Workstation.</p> <p>It is "New Window" by default for all analyses.</p> <p>For the Multi-Sensitivity analysis, you can select "Hedging Window" if the Multi-Sensitivity is associated with hedge parameters to display the results in the Hedge Recommendation window directly.</p>

Step 2 - Click **Run** to run the report.

The results are displayed in a Calypso Workstation window, or saved to a file, based on the selected parameters.

Sample results:



15:01:18 [140002/LAPTOP_REL14/] (User: calypso_user)

Window Edit Panel Reports Trade Help

[1] X

Product Description	T...	Book	B/E_Rate	NPV
				-27,914.234
		Book: BookNYC		
Swap/03/15/2015/P:USD ...	3/15/13...	BookNYC	0.801310	-1,584.785
Swap/10/30/2013/P:USD ...	4/25/13...	BookNYC	1.474952	-4,486.118
Swap/04/02/2014/P:USD ...	4/2/13 ...	BookNYC	0.975177	-13,314.156
Swap/03/05/2016/P:USD ...	3/5/13 ...	BookNYC	1.062416	-8,529.176
		BookNYC		

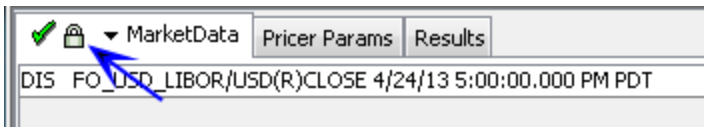
When saving to a file, the On Demand Analysis Job Status dialog appears.

► See [On Demand Analysis Job Status](#) for details.

1.2.2 Ad-Hoc Request with Market Data Modified Locally

① [NOTE: This only applies if a Market Data Server is running - If you do not have a Market Data Server running, and you modify the market data for the trade, the local modifications will not be propagated to any On Demand Analysis request with (trade source) parameters]

Step 1 - In the Trade window: Lock the Market Data Server.



Step 2 - Double-click the market data you want to modify or choose **Pricing > Market Data Manager**, and modify as needed. Click **Apply** (or **F8** in the Market Data Manager) to apply the modifications to the trade.

Step 3 - Run an Ad Hoc analysis with the following parameters:

Pricing Environment = (trade source)

Market Data Server = (trade source)

Date Mode = Trade Source

On Demand

Ad Hoc

Configuration

☒ Include Trades: 1 trade: Trade Window - StructuredFlows -PO is Default Processing O...

☐ Include Filter:

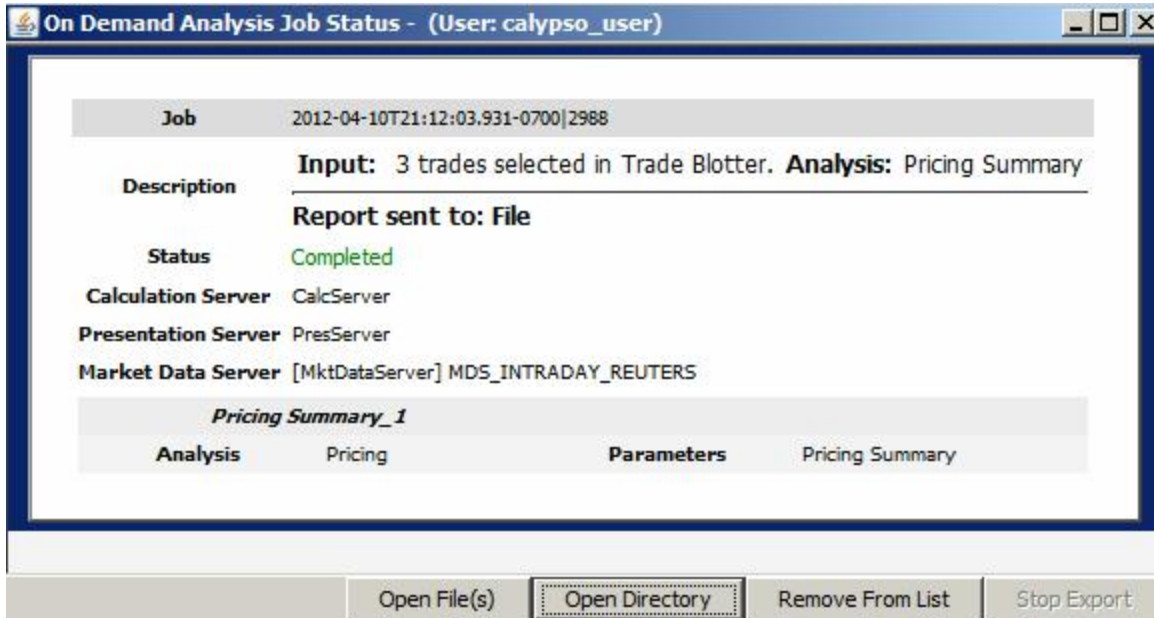
New Filter Preset

Name	Value
Environment	
Pricing Environment	✓ (trade source)
Calculation Server	✓ (user default)
Presentation Server	✓ (user default)
Market Data Server	✓ (trade source)
Dispatcher	(user default)
Job Priority	50
Valuation	
Date Mode	Trade Source
Output	
Send To	Calypso Workstation
Window Plan	(ad hoc)
Analysis 1	
Analysis	✓ Pricing
Analysis Parameters	✓ IRD Pricing
CWS Report Plan	IRD Pricing

In this case, the analysis will run with the locally modified market data.

1.2.3 On Demand Analysis Job Status

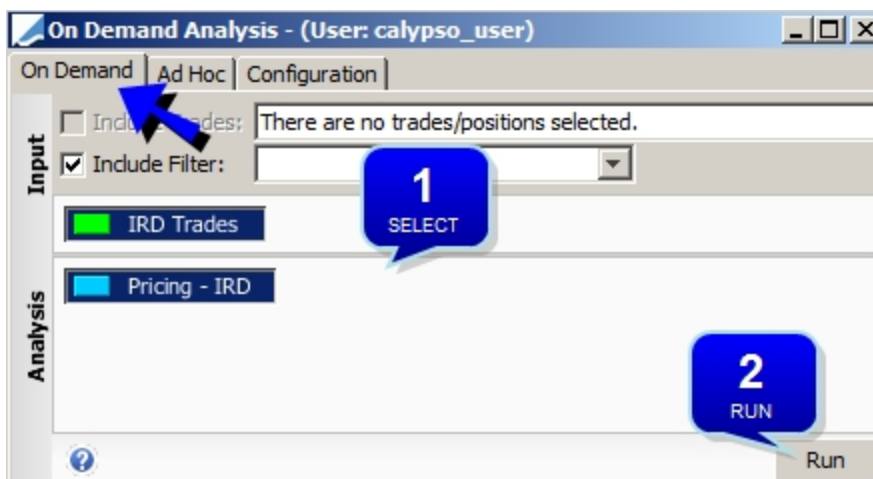
When saving to a file, the On Demand Analysis Job Status dialog appears as shown below.



- » You can click **Open File(s)** to open the created file.
- » You can click **Open Directory** to open the directory where the file has been saved. By default, it is the Default Directory defined in the User Defaults.

1.3 Running On Demand Risk Analyses

Select the On Demand panel.



Sample On Demand request

Step 1 - Select the input parameters: You can run the analysis on selected trades and/or trade filters.

- Check "IncludeTrades" to include the trades currently selected in the application from which you have requested On Demand Analysis.

- Check "Include Filter" to select a trade filter, or click an input shortcut to select the corresponding input parameters - Input shortcuts are created in the Configuration panel.
- ▶ See [Configuring Pre-Defined Parameters](#) for details.

Click an analysis shortcut to select the corresponding analysis parameters - Analysis shortcuts are created in the Configuration panel.

- ▶ See [Configuring Pre-Defined Parameters](#) for details.

Step 2 - Click **Run** to run the report.

The results are displayed in a Calypso Workstation window, or saved to a file, based on the selected parameters.

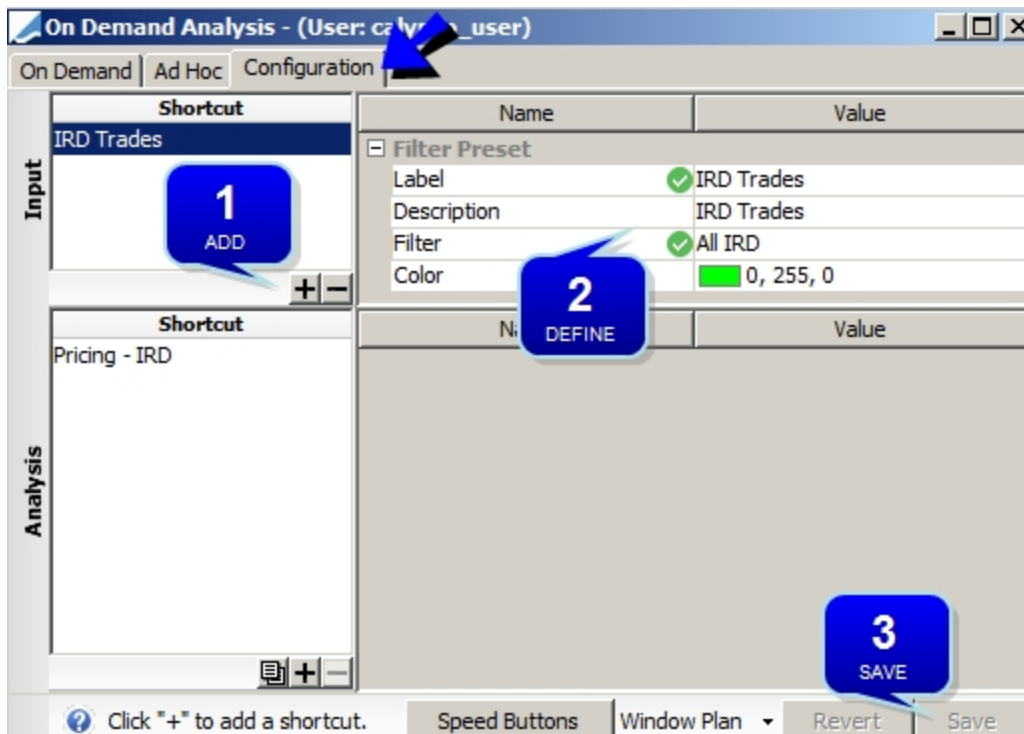
When saving to a file, the On Demand Analysis Job Status dialog appears as shown below.

- ▶ See [On Demand Analysis Job Status](#) for details.

1.4 Configuring Pre-Defined Parameters

Select the Configuration panel.

Creating an Input Shortcut



Sample Input Shortcuts configuration

Step 1 - Click **+** in the Input Shortcut area to add an input shortcut.

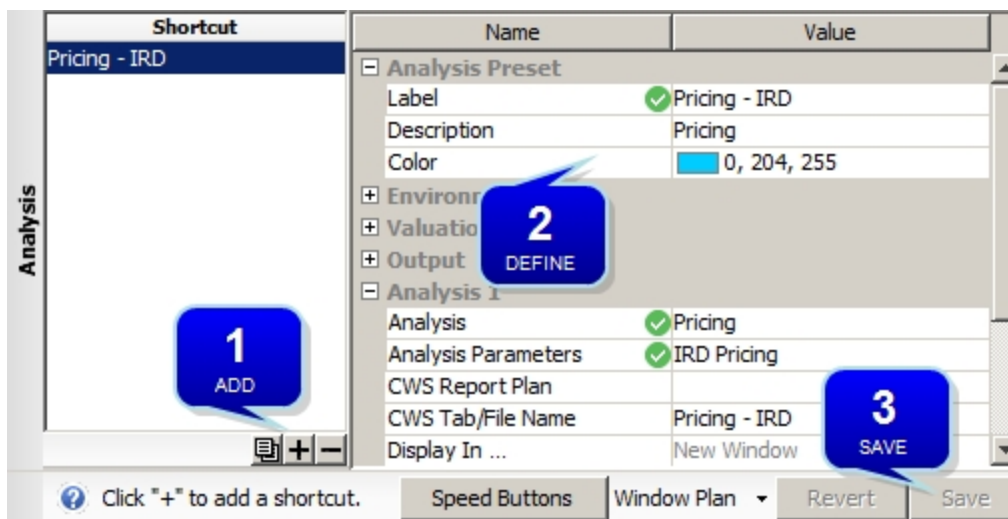
Step 2 - Define its parameters:

- Enter a label to identify the shortcut throughout the system.
- Enter a description as needed.
- Select a trade filter.
- Select a color as needed.

Step 3 - Click **Save** to save the shortcut.

It can be used to run ad-hoc analyses and on demand analyses, and to define risk speed buttons.

Creating an Analysis Shortcut



Sample Analysis Shortcuts configuration

Step 1 - Click **+** in the Analysis Shortcut area to add an analysis shortcut.

You can also select an existing analysis shortcut, and click **⌘** to duplicate it.

Step 2 - Define its parameters:

- Enter a label to identify the shortcut throughout the system.
 - Enter a description as needed.
 - Select a color as needed.
 - Then select the analysis parameters as described in "Running Ad Hoc Risk Analyses".
- See [Analysis Parameters](#) for details.

Step 3 - Click **Save** to save the shortcut.

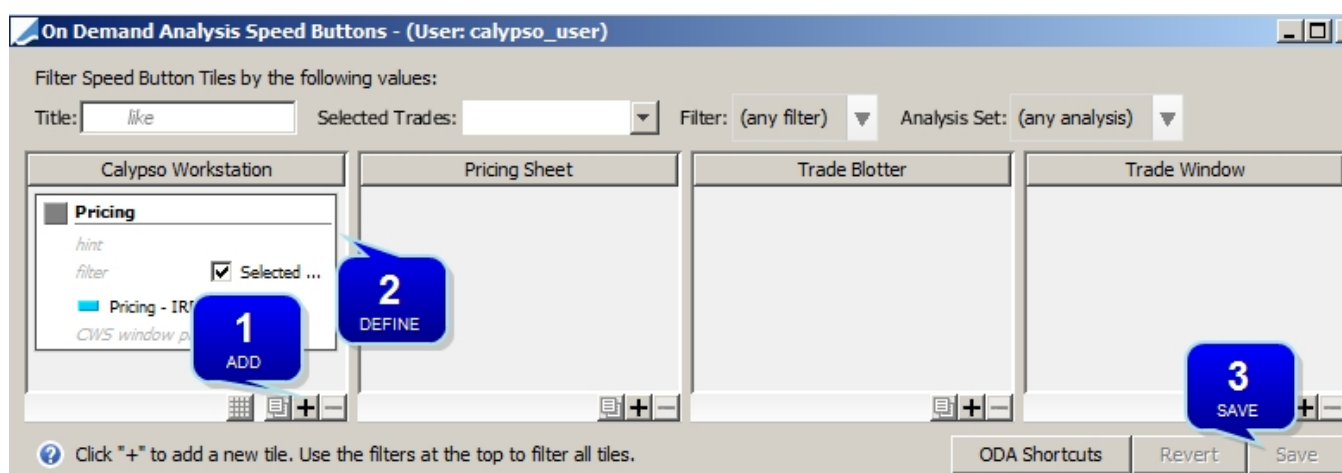
It can be used to run on demand analyses, and to define risk speed buttons.

1.5 Defining Speed Buttons

You can click **Speed Buttons** in the Configuration panel, or bring up the Speed Buttons application independently from the following menu items:

- Trade Blotter - **Blotter > On Demand Analysis Speed Buttons**
- Calypso Workstation - **Reports > On Demand Analysis Speed Buttons**
- Trade Window - **Analytics > On Demand Analysis Speed Buttons**
- Pricing Sheet - **Analysis > On Demand Analysis Speed Buttons**
- Front Office - Right-click on a Security Position > **On Demand Analysis Speed Buttons**

[NOTE: Make sure that the search criteria are empty when you add speed buttons, otherwise, you will not be able to see them]

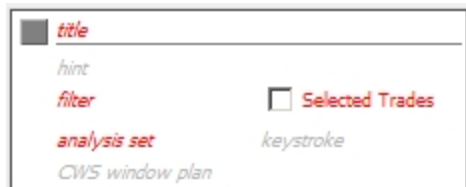


Sample Speed Buttons definition

Step 1 - Click **+** in the application where you want to add a speed button.

You can also select an existing speed button, and click  to duplicate it.

Step 2 - Define its parameters:



- You can click the gray square to select a color for speed button.
- Enter a title to identify the speed button.
- You can enter a screen tip in the "hint" field.
- Check "Selected Trades" to run the risk analysis on the trades currently selected in the corresponding application, and / or click an input shortcut from the "filter" field to select the corresponding input parameters - Input shortcuts are created in the Configuration panel of On Demand Analysis.

You can click **ODA Shortcuts** to bring up the Configuration panel.

► See [Configuring Pre-Defined Parameters](#) for details.

- Click an analysis shortcut from the "analysis set" field to select the corresponding analysis parameters - Analysis shortcuts are created in the Configuration panel of On Demand Analysis.

You can click **ODA Shortcuts** to bring up the Configuration panel.

► See [Configuring Pre-Defined Parameters](#) for details.

- You can enter a keystroke sequence in the "keystroke" field, for example "Ctrl+Shift+F6". You can then use "Ctrl+Shift+F6" in the application to invoke the corresponding risk speed button.
- You can select a Calypso Workstation window plan from the "CWS window plan" field.

Step 3 - Click **Save** to save the speed button.

Once a speed button is defined, you can drag it and drop it in another application as needed.

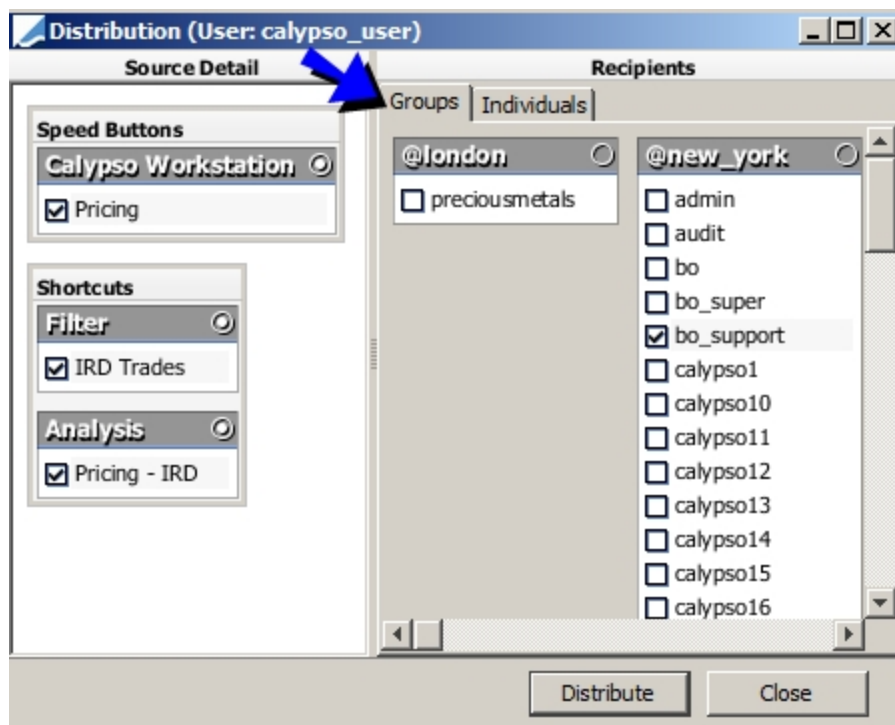
It can be used to run risk analyses on-the-fly, from the following menu items, or using the specified keystroke sequence, if any.

- Trade Blotter - Click a risk speed button.
- Calypso Workstation - Click a risk speed button in the "On Demand Analysis" window.
- Trade Window - [Analytics > On Demand Analysis Shortcuts](#)
- Pricing Sheet - [Analysis > On Demand Analysis Shortcuts](#)

The results are displayed in a Calypso Workstation window, or saved to a file, based on the selected parameters.

1.6 Distributing Shortcuts and Speed Buttons

In order to distribute shortcuts and / or speed buttons to other users, from the Calypso Navigator, navigate to [Configuration > Reporting & Risk > On Demand Analysis Distribution](#) (menu action `risk.oda.LaunchODADistribution`).



Shortcuts and speed buttons distribution

Select the speed buttons and / or shortcuts you want to distribute. Then select user groups and / or individual users, and click **Distribute**.

The selected speed buttons and shortcuts will be made available to the corresponding users.

[NOTE: If Calypso Workstation report plans are configured in the analysis shortcuts, they need to be distributed from the Calypso Workstation]