

# Oracle Financial Services

## Forecast Rates



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# 1

## Get Help

### Topics:

- [Get Help in the Applications](#)
- [Learn About Accessibility](#)
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- [Share Your Feedback](#)
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### 1.1 Get Help in the Applications

Use Help icons to access help in the application.

Note that not all pages have Help icons. You can also access the [Oracle Help Center](#) to find guides and videos.

#### Additional Resources

- Community: Use [Oracle Cloud Customer Connect](#) to get information from experts at Oracle, the Partner Community, and other users.
- Training: Take courses on Oracle Cloud from [Oracle University](#).

### 1.2 Learn About Accessibility

For information about Oracle's commitment to accessibility, visit the [Oracle Accessibility Program](#). Videos included in this guide are provided as a media alternative for text-based topics also available in this guide.

### 1.3 Get Support

You can get support at [My Oracle Support](#).

For accessible support, visit Oracle Accessibility Learning and Support.

### 1.4 Get Training

Increase your knowledge of Oracle Cloud by taking courses at [Oracle University](#).

## 1.5 Join Our Community

Use [Cloud Customer Connect](#) to get information from industry experts at Oracle and in the Partner Community. You can join forums to connect with other customers, post questions, and watch events.

## 1.6 Share Your Feedback

We welcome your feedback about Oracle Applications User Assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we did like to hear from you.

You can email your feedback to [My Oracle Support](#).

Thanks for helping us improve our User Assistance!

## 1.7 Before You Begin

Refer to following Documents:

- [See What's New](#)

# 2

## Forecast Rates

Forecast Rate Scenario Assumptions allow you to define future interest rates, future economic indicators, future currency exchange rates, future interest rate volatility, and select behavior pattern rule for cash flow calculation. Interest rate forecasts are used to project cash flows, including pricing new business, repricing existing business, calculating prepayments, and determining discount methods. Interest rate volatility forecast are used for option valuation. Economic Indicator forecasts are used to calculate cash flow for inflation-indexed instruments, included in Behavioral Modeling and scenario or stress analysis. Currency Exchange Rate Forecasts are used to account for the effects of currency fluctuations on income.

The Forecast Rate Assumptions use interest rate curve, volatility surface, economic indicator, active and reporting currencies, and behavior pattern rule.

This module describes how to create a Forecast Rates Assumption Rule to forecast Cash Flows and, if you work with multiple currencies, to model relationships between Interest Rates and Exchange Rates.

### Topics:

- [Forecast Rates Rule Summary Page](#)
- [Search Forecast Rate Rule](#)
- [Create Forecast Rate Rule](#)
- [View and Edit Forecast Rate Rule](#)
- [Copy Forecast Rate Rule](#)
- [Delete Forecast Rate Rule](#)
- [Dependency Check](#)

## 2.1 Forecast Rates Rule Summary Page

This page holds all Forecast Rate Rules and related functionality. You can navigate to other pages relating to the Forecast Rate Rule from this page.

The Forecast Rate Summary Page displays the following columns.

**Table 2-1 Forecast Rate Rule Summary– Fields and Descriptions**

| Column             | Description                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Code               | Displays the System ID of Forecast Rate Rule.                                                                                              |
| Name               | Displays the Forecast Rate Rule's short name.                                                                                              |
| Reporting Currency | Displays the Reporting Currency selected in the Forecast Rates Rule.                                                                       |
| IRRBB Shock        | Displays Yes if IRRBB (Interest Rate Risk in Banking Book) scenario type is defined in the Forecast Rates Rule, Otherwise No is displayed. |

**Table 2-1 (Cont.) Forecast Rate Rule Summary– Fields and Descriptions**

| Column             | Description                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| No. of Scenario    | Displays number of scenarios defined in the Forecast Rates Rule                                                                                 |
| Folder             | Displays the Folder name where the Forecast Rate Rule is saved.                                                                                 |
| Last Modified By   | Displays the Name of the user who last modified the Forecast Rate Rule.                                                                         |
| Last Modified Date | Displays the Date and Time when Forecast Rate was modified last.                                                                                |
| Access Type        | Displays the access type of rule. It can be Read-Only or Read/Write.                                                                            |
| Action             | Displays the list of actions that can be performed on the Forecast Rate Rule. For more information, see Forecast Rule – Icons and Descriptions. |

**Figure 2-1 Forecast Rate Summary Page**

| Forecast Rate Summary        |               |          |                    |             |                 |        |                  |                     |             |        |
|------------------------------|---------------|----------|--------------------|-------------|-----------------|--------|------------------|---------------------|-------------|--------|
| Folder: CFSEGE               |               |          |                    |             |                 |        |                  |                     |             |        |
| Field Search                 |               |          |                    |             |                 |        |                  |                     |             |        |
| Page 1 of 1 (1-3 of 3 items) |               |          |                    |             |                 |        |                  |                     |             |        |
| <input type="checkbox"/>     | Code          | Name     | Reporting Currency | IRRBB Shock | No Of Scenarios | Folder | Last Modified By | Last Modified Date  | Access Type | Action |
| <input type="checkbox"/>     | 1652098876066 | FCAST101 | US Dollar          | NO          | 1               | CFSEGE | CFETEST          | 12/05/2022 09:03:25 | Read/Write  | ...    |
| <input type="checkbox"/>     | 1653910996271 | Test     | US Dollar          | NO          | 1               | CFSEGE | CFETEST          | 30/05/2022 11:43:16 | Read/Write  | ...    |
| <input type="checkbox"/>     | 1652359692629 | test123  | US Dollar          | NO          | 1               | CFSEGE | CFETEST          | 12/05/2022 12:48:12 | Read/Write  | ...    |

The Action column on the Forecast Rate Summary Page offers several actions that allow you to perform different functions. The following actions are available for the Forecast Rate Summary Page.

**Table 2-2 Forecast Rate rule – Icons and Descriptions**

| Fields          | Description                                                                                                                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add             | Click Add icon at the top right of the Summary Page to build a new Forecast Rate Rule.                                                                                                                                                    |
| Multiple Delete | Select one or more rules in the table and then click the (-) icon at the top right of the Summary Page to delete more than one rule at the same time.                                                                                     |
| Help            | Click icon to view the Holiday Calendar Rule Help.                                                                                                                                                                                        |
| View/Edit       | Click on the Action icon against the Forecast Rate Rule Name and select View/Edit to view or edit the contents of a Forecast Rate Rule in Read/Write format. Depending on user privileges the rule will open in either View or Edit Mode. |

**Table 2-2 (Cont.) Forecast Rate rule – Icons and Descriptions**

| Fields           | Description                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Save As          | Click on the Action icon against the Forecast Rate Rule Name and select Save As to create a copy of an existing Forecast Rate Rule.                                  |
| Delete           | Click on the Action icon against the Forecast Rate Rule Name and select Delete to delete an existing Forecast Rate Rule.                                             |
| Dependency Check | Click on the Action icon against the Forecast Rate Rule Name and select Dependency Check to generate a report on all rules that utilize your selected Forecast Rate. |

## 2.2 Search Forecast Rate Rule

Search for a Forecast Rate Rule to perform any of the following tasks:

- View
- Edit
- Copy
- Delete
- Check Dependencies

### Prerequisites

Predefined Forecast Rate Rule

### Procedure

To search for a new Forecast Rate Rule, follow these steps:

1. Navigate to the **Forecast Rates Summary** Page.
2. Enter the **Code**, **Name**, and **Description** of the Forecast Rate Rule and click **Search** . Only Forecast Rate Rules that match the search criteria are displayed.

## 2.3 Create Forecast Rate Rule

To create a new Forecast Rate Rule, follow these steps:

1. Navigate to **Forecast Rates Summary** Page.
2. Click **Add** icon. The **Forecast Rates Details** Page is displayed.
3. Enter the following Details

**Table 2-3 Forecast Rate Rule – Fields and Descriptions**

| Field       | Description                                                                 |
|-------------|-----------------------------------------------------------------------------|
| Name        | Enter the name of the Forecast Rate Rule.                                   |
| Description | Enter the description of the Forecast Rate Rule. This is an optional field. |

**Table 2-3 (Cont.) Forecast Rate Rule – Fields and Descriptions**

| Field              | Description                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Folder             | Select the Folder where the Forecast Rate Rule needs to be saved.                                                                                                                                                          |
| Access Type        | Select the Access Type as Read-Only or Read/Write.                                                                                                                                                                         |
| IRRBB Shock        | Select this checkbox if you want to define IRRBB Scenario. This option is available only in Asset Liability Management Cloud Service. If selected, IRRBB standardized and enhanced approach scenario types can be created. |
| Reporting Currency | Currencies that were marked as 'Reporting Currency' in Rate Management appear for selection here. Select one Reporting Currency.                                                                                           |

- Scenario 1 is selected by default. You can change the name of scenario. Click + to add more scenario, if needed. More than one scenario can be created only in Asset Liability Management Cloud Service.
- Scenario Type is 'None' by default. When IRRBB Shock is enabled then you can select one of the available values from second scenario onwards.
- Click **Save**, if you want to save the Forecast Rate Rule and update it later.

## 2.3.1 Interest Rate Forecast Methods

The IRCs for all active currencies are listed under Interest Rate Curve Section. The options under Interest Rate Curve Forecast Method provide multiple ways to model the effects on portfolio Cash Flows due to Interest Rate changes.

**Figure 2-2 Interest Rate Curve Forecast Rates**

As Of Date : 25-Jun-2015 Forecast Rate Update Save As Cancel

Name: FR\_SAVE\_AS Folder: ALMSEG IRRBB Shocks: ☐ Description: descriptio Access Type: ☐ Read Only ☒ Read/Write Reporting Currency: US Dollar

| Scenario | Name      | Scenario Type |
|----------|-----------|---------------|
| 1        | Scenario1 | None          |

Interest Rate Curve

| Code                                    | Name          | Currency | Curve Type | Forecast Method    | Interpolation Method  | Minimum Rate | Definition Status |
|-----------------------------------------|---------------|----------|------------|--------------------|-----------------------|--------------|-------------------|
| <input checked="" type="checkbox"/> 101 | RT-IRC-101    | USD      | Standard   | Structured Chan... | Linear Interpolati... | 1.0000       | Defined           |
| <input type="checkbox"/> 102            | SaveAsAPI_102 | USD      | Standard   | Flat               | Linear Interpolati... | 0            | UnDefined         |

Buttons: Define, Copy Across, Restore Default, View

You can define Interest Rate Forecast for the following methods:

**Table 2-4 Forecast Rate rule – Methods and Descriptions**

| Method                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flat                               | Forecast no change in the Interest Rate for all dates beginning with the As-of Date.                                                                                                                                                                                                                                                                                                                                               |
| Direct Input                       | Type Interest Rates directly for any modeling period or Interest Rate term.                                                                                                                                                                                                                                                                                                                                                        |
| Structured Change                  | Forecast exchange rates as an incremental change from the previous period. Forecast rate changes in terms of absolute or percent change, for any modeling period or interest rate term, such as:<br>+100 basis points on Day 1<br>-200 basis points over the first 6 months<br>Yield curve rotation (short point decreasing, long point increasing).<br>This option is available only in Asset Liability Management Cloud Service. |
| Implied Forward                    | Forecast interest rates based on the yield-curve interest rates in effect at the as-of date and consistent with the modeling bucket definitions.<br>This option is available only in Asset Liability Management Cloud Service.                                                                                                                                                                                                     |
| Yield Curve Twist                  | Flatten or steepen the yield curve around a specific point on the curve.<br>This option is available only in Asset Liability Management Cloud Service.                                                                                                                                                                                                                                                                             |
| Change from Base                   | Make incremental changes to an existing forecast scenario.<br>This option is available only in Asset Liability Management Cloud Service.                                                                                                                                                                                                                                                                                           |
| IRRBB Standardized Approach Shocks | Forecast an interest rate shock according to one of the BCBS IRRBB Standardized Approach shock specifications (Scenario-level specification).<br>This option is available only in Asset Liability Management Cloud Service.                                                                                                                                                                                                        |
| IRRBB Enhanced Approach Shocks     | Forecast an interest rate shock according to user specifications that will flow into IRRBB Table B reporting.<br>This option is available only in Asset Liability Management Cloud Service.                                                                                                                                                                                                                                        |

For more information, see the [Cash Flow Engine Reference Guide](#).

The following Interpolation Methods are available.

**Table 2-5 Forecast Rate Rule – Interpolation Methods and Descriptions**

| Method                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linear Interpolation   | Linear interpolation uses Linear Yield Curve smoothing. Linear Yield Curves are continuous but not smooth; at each knot point, there is a kink in the yield curve. You may not want to use a Linear Yield Curve with a model that assumes the existence of a continuous Forward Rate Curve, due to the nonlinear and discontinuous knot points of a Linear Yield Curve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cubic Spline of Yields | <p>A cubic spline is a series of third-degree polynomials that have the form:</p> $y = a + bx + cx^2 + dx^3$ <p>These polynomials are used to connect the dots formed by observable data. The polynomials are constrained so they fit together smoothly at each knot point (the observable data point.) This means that the slope and the rate of change in the slope with respect to time to maturity have to be equal for each polynomial at the knot point where they join. If this is not true, there is a kink in the yield curve and they are continuous but not differentiable.</p> <p>Two more constraints make the Cubic Spline Curve unique. The first restricts the zero-maturity yield to equal the 1-day interest rate. The second restricts the yield curve at the longest maturity to be either straight (<math>y''=0</math>) or flat (<math>y'=0</math>).</p>         |
| Quartic Spline         | <p>Quartic interpolation requires a minimum of 4 knot points. The quartic interpolation equation can be represented as:</p> $Y = a + bX + cX^2 + dX^3 + eX^4$ <p>The end knot points satisfy equations for one curve and all intermediate points satisfy two curves. Therefore, in a scenario with a minimum number of knot points, there are 6 equations. For n number of knot points, the number of equations is <math>2n-2</math>. If n is the number of points to be interpolated, the order of the matrix to be formed is <math>5*(n-1) \times 5*(n-1)</math>. The matrix is formed according to the following logic:</p> <p>The second derivative at the endpoints and the first derivative of the last point is Zero. At the points other than the endpoints, the value of the first derivatives, second derivatives, and the third derivatives of the function are equal.</p> |

In looking up the Forecast Rates, the Cash Flow Engine (where necessary) performs an interpolation between yield curve term points. For example, in determining a three-month rate from a yield curve that contains only a one-month rate and a six-month

rate, the Cash Flow Engine performs an interpolation to determine the implied three-month rate. The Interpolation method used is defined by the selected interpolation method for the Interest Rate Curve.

Forecast rates for 360 calendar months starting from As-of-Date are generated.

Following options are available for Interest Rate Curve Forecast Rule:

- [Define](#)
- [Copy Across](#)
- [Restore Default](#)
- [View](#)

### Define

- **Flat Method**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Select the Interpolation method.
  3. Input Minimum Rate, if required.
  4. Click **Define**.  
The status of the Interest Rate Curve is changed to **Defined**.
- **Direct Input**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Direct Input**.
  2. Select the **Interpolation Method**.
  3. Input Minimum Rate, if required.
  4. Click **Define**.  
The **Direct Input** window is displayed:

Figure 2-3 Direct Input

| Forecast Period | 1M    | 2M     | 3M     | 6M    | 1Y   | 2Y     | 3Y     | 5Y     | 7Y    | 10Y    | 20Y    |
|-----------------|-------|--------|--------|-------|------|--------|--------|--------|-------|--------|--------|
| 0               | 1.136 | 2.0544 | 2.8712 | 3.264 | 4.04 | 4.1704 | 4.2808 | 4.9768 | 5.168 | 5.5168 | 6.0344 |
| 1               |       |        |        |       |      |        |        |        |       |        |        |
| 2               |       |        |        |       |      |        |        |        |       |        |        |
| 3               |       |        |        |       |      |        |        |        |       |        |        |
| 4               |       |        |        |       |      |        |        |        |       |        |        |
| 5               |       |        |        |       |      |        |        |        |       |        |        |
| 6               |       |        |        |       |      |        |        |        |       |        |        |
| 7               |       |        |        |       |      |        |        |        |       |        |        |
| 8               |       |        |        |       |      |        |        |        |       |        |        |
| 9               |       |        |        |       |      |        |        |        |       |        |        |
| 10              |       |        |        |       |      |        |        |        |       |        |        |

5. Enter data and click **Apply**. Right click on data grid and select 'Export to Excel' to save visible data to excel file. You can also copy directly from the grid and paste data from an excel file to the grid.
  6. The status of the Interest Rate Curve is changed to **Defined**.
- **Structured Change**

1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Structured Change**.
2. Select the **Interpolation Method**.
3. Input Minimum Rate, if required.
4. Click **Define**.  
The **Structured Change** window is displayed:

Figure 2-4 Structured Change

The screenshot shows the 'Forecast Rate' window with the title 'As Of Date : 10-09-2015'. The 'Shock Type' is set to 'Rate'. The table below shows the forecast rate data for various periods.

| Start Period | End Period | From Date  | To Date    | 1M    | 2M     | 3M     | 6M    | 1Y   | 2Y     | 3Y     | 5Y     |
|--------------|------------|------------|------------|-------|--------|--------|-------|------|--------|--------|--------|
| 0            | 0          | 0          | 0          | 1.136 | 2.0544 | 2.8712 | 3.264 | 4.04 | 4.1704 | 4.2808 | 4.9768 |
| 1            | 1          | 10-10-2015 | 11-09-2015 |       |        |        |       |      |        |        |        |

Buttons: Apply, Cancel

5. Select the Shock Type as Rate or Percent. Shock Type as Rate designates to absolute rate change and Shock Type as Percent designates to percent rate change.
  6. Enter a shock amount to apply to the IRC in absolute rate or percentage change. Enter Start and End period from 1 to 360 months and corresponding shock amount to apply to the IRC. Right click on data grid to all more rows or delete rows. Use the Excel Import or Export feature to add the interest rate changes.
  7. Click **Apply** to save.
  8. The status of the Interest Rate Curve is changed to **Defined**.
- **Implied Forward**
    1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Implied Forward.
    2. Select the **Interpolation Method**.
    3. Input Minimum Rate, if required.
    4. Click **Define**.  
The Implied Forward window is displayed:

Figure 2-5 Implied Forward

The screenshot shows the 'Forecast Rate' window with the title 'As Of Date : 10-09-2015'. The 'Shock Type' is set to 'Rate'. The table below shows the implied forward rate data for various periods.

|            | 1M    | 2M     | 3M     | 6M    | 1Y   | 2Y     | 3Y     | 5Y     | 7Y    | 10Y    | 20Y    |
|------------|-------|--------|--------|-------|------|--------|--------|--------|-------|--------|--------|
| Base Rate  | 1.136 | 2.0544 | 2.8712 | 3.264 | 4.04 | 4.1704 | 4.2808 | 4.9768 | 5.168 | 5.5168 | 6.0344 |
| Shock Rate |       |        |        |       |      |        |        |        |       |        |        |

Buttons: Apply, Cancel

5. Select the Shock Type as Rate or Percent. Shock Type as Rate designates to absolute rate change and Shock Type as Percent designates to percent rate change.
6. Enter a shock amount to apply to the IRC in absolute rate or percentage change. If no change is required to the base curve, leave at 0.0, and click **Apply**.

7. The status of the Interest Rate Curve is changed to Defined.
- **Yield Curve Twist**
    1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Yield Curve Twist.
    2. Select the **Interpolation** Method.
    3. Input Minimum Rate, if required.
    4. Click **Define**.  
The Yield Curve Twist window is displayed:

Figure 2-6 Yield Curve Twist

5. Select Start and End Period. Start Period must 1 or higher while highest End Period can be 360.
  6. Select the tenors using the Short Point, Mid Point, and Long Point.
  7. Add the required shock amounts for each tenor. At runtime and display time, the rate changes are added to the as-of-date rates to create a future scenario.
  8. Click **Apply**.  
The status of the Interest Rate Curve is changed to Defined.
- **Change From Base**

**Note:**

This method is available from second scenario onwards.

1. Select Scenario 2 or higher as Scenario.

Figure 2-7 Change From Base

2. Select Interest Rate Code using corresponding checkbox and select Forecast Method as Change from Base.

3. Select the Interpolation Method.
4. Input Minimum Rate, if required.
5. Click Define. The Change From Base window is displayed.

**Figure 2-8 Change From Base**

| Forecast Period | 1M    | 2M     | 3M     | 6M    | 1Y   | 2Y     | 3Y     | 5Y     | 7Y    | 10Y    | 20Y    | 30Y |
|-----------------|-------|--------|--------|-------|------|--------|--------|--------|-------|--------|--------|-----|
| 0               | 1.136 | 2.0544 | 2.8712 | 3.264 | 4.04 | 4.1704 | 4.2808 | 4.9768 | 5.168 | 5.5168 | 6.0344 | 6   |
| 1               |       |        |        |       |      |        |        |        |       |        |        |     |

6. Scenario 1 is used as base scenario.
  7. Enter the Forecast Period from 1 to 360 months and the corresponding change amount to apply to the base forecasts IRC. Right click on data grid to add more rows or delete rows. Use the **Excel Import or Export** feature to add the interest rate changes.
  8. The status of the Interest Rate Curve is changed to Defined.
- **Standardized Approach Shocks**  
Standardized Approach shocks are different than other Interest Rate Rules as these are applied at the scenario level instead of at the IRC level. When you create a new Forecast Rates rule, the default Scenario 1 is always the base scenario for Standardized Approach purposes and cannot have a Standardized Approach shock definition.
    1. In Forecast Rates window, select the IRRBB Shocks. This allows you to define either Standardized or Enhanced Approach Scenarios, or both for a single Forecast Rates Rule. Once a forecast rates rule is designated as IRRBB Shocks, this check box cannot be unselected unless there are no defined scenarios as either Standardized or Enhanced Approach scenario type.
    2. To apply a Standardized Approach scenario, click the Add Scenario.
    3. In the Add Forecast Rates Scenario section, select the Scenario Type to apply the scenario. The following are the shock scenarios:
      - Standardized Approach Shock - Parallel UP
      - Standardized Approach Shock - Parallel DOWN
      - Standardized Approach Shock - Short UP
      - Standardized Approach Shock - Short DOWN
      - Standardized Approach Shock - Flattenner
      - Standardized Approach Shock - Steppener
    4. Only one Standardized Approach shock can be applied to a single scenario, and no two SA shocks of the same type may be applied to the same Forecast Rates rule. All qualifying IRCs will inherit this SA shock and cannot be changed except for their interpolation method and minimum rate.
    5. Click Apply to make scenario as Standardized Approach shock.
  - **Enhanced Approach Shocks**  
Like Standardized Approach shocks, Enhanced Approach shocks are scenario-level rules, and Scenario 1 is always referred to as the Base scenario for reporting

purposes. However, unlike Standardized Approach shocks, the Forecast method for each IRC is not pre-established. This means that users must define the Forecast method, interpolation method and minimum rate for all Interest Rates in each scenario. Once defined and processed, the results will flow through into the Table B reporting.

1. In the Forecast Rates window, select the IRRBB Shocks. This allows you to define either Standardized or Enhanced Approach scenarios, or both for a single Forecast Rate rule. After a Forecast Rate rule is designated as IRRBB Shocks, this check box cannot be unselected unless there are no defined scenarios as either Standardized or Enhanced Approach Scenario Type.
2. To apply an Enhanced Approach scenario, click the Add Scenario. The following are the shock scenarios:
  - a. Enhanced Approach Shock - Parallel UP
  - b. Enhanced Approach Shock - Parallel DOWN
  - c. Enhanced Approach Shock - Short UP
  - d. Enhanced Approach Shock - Short DOWN
  - e. Enhanced Approach Shock - Flattener
  - f. Enhanced Approach Shock - Steppener
3. Only one Enhanced Approach shock can be applied to a single scenario, and no two EA shocks of the same type can be applied to the same Forecast Rates rule. All IRCs in this scenario remain fully editable for the Forecast method, Interpolation method, and Minimum Rate.
4. Click Apply to make the scenario as Enhanced Approach shock.

### Copy Across

This allows you to copy Forecast Method and related details from one IRC to another.

For example, if you have 10 IRCs enabled in the application and you must input only one set of assumptions, then copy those assumptions across all enabled IRCs, instead of having to input 10 full sets, thereby saving a significant amount of input time.



#### Note:

You must select a defined IRC to Copy Across. For more information, see the [Define](#) section of Interest Rate Curve.

- **Flat Method**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **Structured Change**
  1. Select Interest Rate Curve using the corresponding checkbox and select **Forecast Method** as **Structured Change**.

2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **Implied Forward**
    1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Implied Forward.
    2. Click Copy Across.
    3. Click Apply Copy Across.
    4. You can click Cancel Copy Across to cancel the Copy Across function.
  - **Change From Base**
    1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Change From Base.
    2. Click Copy Across.
    3. Click Apply Copy Across.
    4. You can click Cancel Copy Across to cancel the Copy Across function.

#### **Restore Default**

Use this action to reset previously entered details to Undefined status.

- **Flat Method**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Click **Restore Default**.
  3. The status of the Interest Rate Curve is changed to **Undefined**.
- **Direct Input**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Direct Input**.
  2. Click **Restore Default**.
  3. The status of the Interest Rate Curve is changed to **Undefined**.
- **Structured Change**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Structured Change.
  2. Click **Restore Default**.
  3. The status of the Interest Rate Curve is changed to Undefined.
- **Implied Forward**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Implied Forward.
  2. Click **Restore Default**.
  3. The status of the Interest Rate Curve is changed to Undefined.
- **Yield Curve Twist**

1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Yield Curve Twist.
  2. Click **Restore Default**.
  3. The status of the Interest Rate Curve is changed to Undefined.
- **Change From Base**
    1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as Change From Base.
    2. Click **Restore Default**.
    3. The status of the Interest Rate Curve is changed to Undefined.

## View

After defining Forecast Method and other parameters for an IRC you can view the forecasted interest rates by clicking this button.

- **Flat Method**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Click **View** to see the output table.
- **Direct Input**
  1. Select Interest Rate Curve using corresponding checkbox and select **Forecast Method** as **Direct Input**.
  2. Click **View** to see the Output Table.
- **Structured Change**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as **Structured Change**.
  2. Click **View** to see the Output Table.
- **Yield Curve Twist**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as **Yield Curve Twist**.
  2. Click **View** to see the Output Table.
- **Implied Forward**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as **Implied Forward**.
  2. Click **View** to see the Output Table.
- **Change From Base**
  1. Select Interest Rate Curve using corresponding checkbox and select Forecast Method as **Change From Base**.
  2. Click **View** to see the Output Table.

## 2.3.2 Define Currency Forecast Methods

The following Currency Forecast methods are available when you select a currency (other than the reporting currency) from the **Currency Codes** list. Currency forecast methods is available in Asset Liability Management Cloud Service only.

**Figure 2-9 Currency Forecast Methods**

**Table 2-6 Currency Forecast Methods**

| Method            | Description                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flat              | Forecast no change in the exchange rate for all dates beginning with the as-of date.                                                                                                                                                                                                                                           |
| Structured Change | Forecast exchange rates as an incremental change from the previous period.                                                                                                                                                                                                                                                     |
| Direct Input      | Type exchange rates to use in forecasting.                                                                                                                                                                                                                                                                                     |
| Parity            | Forecast the exchange rate between two currencies based on forecasted interest rate associated with the currencies. The parity method can be used only if both the reporting currency and the selected currency have a Reference IRC. If reference IRC is not available for both or any one currency then flat method is used. |
| No Arbitrage      | Forecast the exchange rate required to maintain a no-arbitrage condition between two currencies. The No Arbitrage method can be used only if both the reporting currency and the selected currency have a Reference IRC. If reference IRC is not available for both or any one currency then flat method is used.              |

Following options are available for Currency Forecast Rule:

- [Define](#)
- [Copy Across](#)
- [Restore Default](#)

- [View](#)

## Define

- **Flat Method**

1. Select Currency Code using corresponding checkbox and select Forecast Method as **Flat**.
2. Input Minimum Rate, if required.
3. Click **Define**.
4. The status of the Currency Code is changed to **Defined**.

- **Direct Input**

1. Select Currency Code using corresponding checkbox and select Forecast Method as **Direct Input**.
2. Input Minimum Rate, if required.
3. Click **Define**. The **Direct Input** window is displayed:

**Figure 2-10 Direct Input window**

| Forecast Period | Rate Value |
|-----------------|------------|
| 0               | 0          |
| 1               |            |
| 2               |            |
| 3               |            |
| 4               |            |
| 5               |            |
| 6               |            |
| 7               |            |
| 8               |            |
| 9               |            |
| 10              |            |
| 11              |            |
| 12              |            |
| 13              |            |
| 14              |            |

4. Right click on data grid and select 'Export to excel' to save visible data to excel file. You can also copy directly from the grid and paste data from an excel file to the grid. Enter data and click **Apply**.
5. The status of the Currency Code is changed to **Defined**.

- **Structured Change**

1. Select Currency Code using corresponding checkbox and select Forecast Method as **Structured Change**.
2. Input Minimum Rate, if required.
3. Click **Define**. The **Structured Change** window is displayed:

**Figure 2-11 Structured Change window**

| Start Period | End Period | From Date  | To Date    | 1M    | 2M     | 3M     | 6M    | 1Y   | 2Y     | 3Y     | 5Y     |
|--------------|------------|------------|------------|-------|--------|--------|-------|------|--------|--------|--------|
| 0            | 0          | 0          | 0          | 1.136 | 2.0544 | 2.8712 | 3.264 | 4.04 | 4.1704 | 4.2808 | 4.9768 |
| 1            | 1          | 10-10-2015 | 11-09-2015 |       |        |        |       |      |        |        |        |

4. Select the Shock Type as Rate or Percent. Shock Type as Rate designates to absolute rate change and Shock Type as Percent designates to percent rate change.
  5. Enter Start and End period from 1 to 360 months and corresponding shock amount to apply to the Currency. Right click on data grid to all more rows or delete rows. Use the **Excel Import or Export** feature to add the interest rate changes. Click **Apply**.
  6. The status of the Currency Code is changed to **Defined**.
- **Parity**
    1. Select Currency Code using corresponding checkbox and select Forecast Method as **Parity**.
    2. Input Minimum Rate, if required.
    3. Click **Define**.
    4. The status of the Currency Code is changed to **Defined**.
  - **No Arbitrage**
    1. Select Currency Code using corresponding checkbox and select Forecast Method as **No Arbitrage**.
    2. Input Minimum Rate, if required.
    3. Click **Define**.
    4. The status of the Currency Code is changed to **Defined**.

### Copy Across

This allows you to copy Forecast Method and related details from one Currency to another.

For example, if you have 10 Currency codes enabled in the application and you must input only one set of assumptions, then copy those assumptions across all enabled Currency codes, instead of having to input 10 full sets, thereby saving a significant amount of input time.

You must select a defined Currency to use Copy Across. For more information, see the [Define](#) section of Currency.

- **Flat Method**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Flat**.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **Structured Change**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Structured Change**.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.

- **Parity**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Parity**.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **No Arbitrage**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **No Arbitrage**.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.

### Restore Default

Use this action to reset previously entered details to Undefined status.

- **Flat Method**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Flat**.
  2. Click **Restore Default**.
  3. The status of the Currency Code is changed to **Undefined**.
- **Direct Input**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Direct Input**.
  2. Click **Restore Default**.
  3. The status of the Currency Code is changed to **Undefined**.
- **Structured Change**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Structured Change**.
  2. Click **Restore Default**.
  3. The status of the Currency Code is changed to **Undefined**.
- **Parity**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Parity**.
  2. Click **Restore Default**.
  3. The status of the Currency Code is changed to **Undefined**.
- **No Arbitrage**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **No Arbitrage**.
  2. Click **Restore Default**.
  3. The status of the Currency Code is changed to **Undefined**.

## View

After defining Forecast Method and other parameters for a Currency you can view the forecasted Currency by clicking this button.

- **Flat Method**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Flat**.
  2. Click **View** to see the output table.
- **Direct Input**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Direct Input**.
  2. Click **View** to see the Output Table.
- **Structured Change**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Structured Change**.
  2. Click **View** to see the Output Table.
- **Parity**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **Parity**.
  2. Click **View** to see the Output Table.
- **No Arbitrage**
  1. Select Currency Code using corresponding checkbox and select Forecast Method as **No Arbitrage**.
  2. Click **View** to see the Output Table.

## 2.3.3 Define Economic Indicator Forecast Rule

The Economic Indicators (EI) defined previously are listed under EI Section. The options under EI Forecast Method provide multiple ways to model the effects on Portfolio Cash Flows due to changes in inflation index and other micro or macro-economic parameters.

The following Economic Indicator Methods are available.

**Table 2-7 Forecast Rate Rule – Economic Indicator Methods and Descriptions**

| Method            | Description                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flat              | Forecast no change in the EI rate for all dates beginning with the As-of Date.                                                                            |
| Direct Input      | Type-specific Economic Index Rates to use in forecasting.                                                                                                 |
| Structured Change | Forecast the economic index as an incremental change from the previous period. This option is available only in Asset Liability Management Cloud Service. |

Figure 2-12 Economic Indicator Forecast Rates

As Of Date : 25-Jun-2015Forecast RateUpdateSave AsCancel

NameFR\_SAVE\_AS

FolderALMSEG

☐ IRRBB Shocks

Descriptiondescriptio

Access TypeRead OnlyRead/Write

Reporting CurrencyUS Dollar

Scenario Name Scenario Type

1 Scenario1 None

Interest Rate CurveCurrencyEconomic IndicatorVolatility SurfaceBehaviour Pattern Rule

Search

DefineCopy AcrossRestore DefaultView

EI Code FilterEI Name Filter

| <input type="checkbox"/> Code   | Name      | Forecast Method | Minimum Rate | Definition Status |
|---------------------------------|-----------|-----------------|--------------|-------------------|
| <input type="checkbox"/> 203101 | EIAPITest | Flat            | 0.25         | Defined           |

Following options are available for Economic Indicator Forecast Rule:

- Define
- Copy Across
- Restore Default
- View

Define

- Flat Method**
  - Select Economic Indicator Code using corresponding checkbox, select **Forecast Method** as **Flat** and enter minimum rate.
  - Click **Define**. The status of Economic Indicator Code is changed to **Defined**.
- Direct Input**
  - Select Economic Indicator Code using corresponding checkbox, select Forecast Method as **Direct Input** and enter minimum rate.
  - Click **Define**. The **Direct Input** window is displayed:

Figure 2-13 Direct Input window

As Of Date : 10-09-2015Forecast RateSaveCancel

EIAPITest: Direct Input

| Forecast Period | Rate Value |
|-----------------|------------|
| 0               | 237.945    |
| 1               |            |
| 2               |            |
| 3               |            |
| 4               |            |
| 5               |            |
| 6               |            |
| 7               |            |
| 8               |            |
| 9               |            |
| 10              |            |
| 11              |            |
| 12              |            |
| 13              |            |
| 14              |            |
| 15              |            |

ApplyCancel

3. Right click on data grid and select 'Export to Excel' to save visible data to excel file. You can also copy directly from the grid and paste data from an excel file to the grid. Enter data and click **Apply**.
  4. The status of Economic Indicator Code is changed to **Defined**.
- **Structured Change**
    - 1.
    2. Select Economic Indicator Code using corresponding checkbox, select Forecast Method as **Structured Change** and enter minimum rate.
    3. Click **Define**. The **Structured Change** window is displayed:

Figure 2-14 Structured Change window

| Start Period | End Period | From Date  | To Date    | Total Rate Change |
|--------------|------------|------------|------------|-------------------|
| 1            | 1          | 10-10-2015 | 11-09-2015 | 237.945           |

4. Enter Start and End period from 1 to 360 months and corresponding shock amount to apply to the Currency. Right click on data grid to all more rows or delete rows. Use the **Excel Import or Export** feature to add the interest rate changes. Enter data and click Apply.
5. The status of Economic Indicator Code is changed to Defined.

### Copy Across

This allows you to copy Forecast Method and related details from one Economic Indicator Code to another.

For example, if you have 10 Economic Indicator Codes enabled in the application and you must input only one set of assumptions, then copy those assumptions across all enabled Economic Indicator Codes, instead of having to input 10 full sets, thereby saving a significant amount of input time.



#### Note:

You must select a defined Economic Indicator Code to use Copy Across. For more information, see the [Define](#) section of Economic Indicator.

- **Flat Method**
  1. Select Economic Indicator Code using corresponding checkbox and select Forecast Method as Flat.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **Direct Input**

1. Select Economic Indicator Code using corresponding checkbox and select Forecast Method as Direct Input.
  2. Click **Copy Across**.
  3. Click **Apply Copy Across**.
  4. You can click **Cancel Copy Across** to cancel the Copy Across function.
- **Structured Change**
    1. Select Economic Indicator Code using corresponding checkbox and select Forecast Method as **Structured Change**.
    2. Click **Copy Across**.
    3. Click **Apply Copy Across**.
    4. You can click **Cancel Copy Across** to cancel the Copy Across function.

#### Restore Default

Use this action to reset previously entered details to Undefined status.

- **Flat Method**
  1. Select Economic Indicator Code using the corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Click **Restore Default**.
  3. The status of the Economic Indicator Code is changed to **Undefined**.
- **Direct Input**
  1. Select Economic Indicator Code using the corresponding checkbox and select **Forecast Method** as **Direct Input**.
  2. Click **Restore Default**.
  3. The status of the Economic Indicator Code is changed to **Undefined**.
- **Structured Change**
  1. Select Economic Indicator Code using the corresponding checkbox and select **Forecast Method** as **Structured Change**.
  2. Click **Restore Default**.
  3. The status of the Economic Indicator Code is changed to **Undefined**.

#### View

After defining forecast method and other parameters for an Economic Indicator Code you can view the forecasted interest rates by clicking this button.

- **Flat Method**
  1. Select Economic Indicator Code using corresponding checkbox and select **Forecast Method** as **Flat**.
  2. Click **View** to see the output table.
- **Direct Input**
  1. Select Economic Indicator Code using corresponding checkbox and select **Forecast Method** as **Direct Input**.
  2. Click **View** to see the output table.

- **Structured Change**
  1. Select Economic Indicator Code using corresponding checkbox and select **Forecast Method** as **Structured Change**.
  2. Click **View** to see the output table.

## 2.3.4 Define Volatility Surface Forecast Methods

The following Volatility Surface Forecast methods are available when you select a Volatility Surface from the **Volatility Surface Codes** list. Volatility Surface forecast method is available in Asset Liability Management Cloud Service only.

**Figure 2-15 Volatility Surface Forecast Methods**

The screenshot shows the 'Forecast Rate' configuration window. At the top, it displays 'As Of Date : 25-Jun-2015' and 'Forecast Rate'. Below this, there are input fields for 'Name' (FR\_SAVE\_AS), 'Folder' (ALMSEG), 'Description' (descriptio), 'Access Type' (Read/Write), and 'Reporting Currency' (US Dollar). A section on the left lists scenarios, with 'Scenario1' selected. The main area is titled 'Volatility Surface' and contains a table of forecast methods. The table has columns for Code, Name, Currency, Forecast Method, Shock Percentage, and Definition Status. One method is listed: '11001 Volatility.Test USD Flat 0 Defined'. Above the table are filters for 'VS Code Filter' and 'VS Name Filter', and buttons for 'Define', 'Copy Across', 'Restore Default', and 'View'.

**Table 2-8 Volatility Surface Forecast Methods**

| Method       | Description                                                                          |
|--------------|--------------------------------------------------------------------------------------|
| Flat         | Forecast no change in the exchange rate for all dates beginning with the as-of date. |
| Global Shock | Single shock rate is defined and applied to base volatility matrix                   |
| Detail Shock | Shock rate is defined for every intersection of Strike & Expiry Date                 |
| Direct Input | Implied volatility is given as input for every intersection of Strike & Expiry Date  |

Following options are available for Volatility Surface Forecast Rule:

- [Define](#)
- [Copy Across](#)
- [Restore Default](#)
- [View](#)

### Define

- **Flat Method**
  1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Flat.

2. Click Define.
  3. The status of the Volatility Surface Code is changed to Defined.
- **Global Shock**
    1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Global Shock.
    2. Input Shock Percentage, if required.
    3. Click Define.
    4. The status of the Volatility Surface Code is changed to Defined.
  - **Detail Shock**
    1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Detail Shock.
    2. Click Define. The Detail Shock window is displayed:

**Figure 2-16 Detail Shock window**

| Strike Rate | 23-Oct-2015 | 30-Nov-2015 |
|-------------|-------------|-------------|
| 4           |             |             |
| 5           |             |             |
| 6           |             |             |

3. Right click on data grid and select 'Export to Excel' to save visible data to excel file. You can also copy directly from the grid and paste data from an excel file to the grid. Enter data and click Apply.
  4. The status of the Volatility Surface Code is changed to Defined.
- **Direct Input**
    1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Direct Input.
    2. Click Define. The Direct Input window is displayed:

**Figure 2-17 Direct Input window**

| Strike Rate | 23-Oct-2015 | 30-Nov-2015 |
|-------------|-------------|-------------|
| 4           |             |             |
| 5           |             |             |
| 6           |             |             |

3. Enter a shock amount to apply to the Volatility Surface. Right click on data grid and select 'Export to Jexcel' to save visible data to excel file. You can also copy directly from the grid and paste data from an excel file to the grid.
4. Click Apply.
5. The status of the Volatility Surface Code is changed to Defined.

**Copy Across**

This allows you to copy Forecast Method and related details from one Volatility Surface to another.

For example, if you have 10 Volatility Surface codes enabled in the application and you must input only one set of assumptions, then copy those assumptions across all enabled Volatility Surface codes, instead of having to input 10 full sets, thereby saving a significant amount of input time.

You must select a defined Volatility Surface to use Copy Across. For more information, see the [Define](#) section of Volatility Surface.

- **Flat Method**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Flat.
2. Click Copy Across.
3. Click Apply Copy Across.
4. You can click Cancel Copy Across to cancel the Copy Across function.

- **Global Shock**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Global Shock.
2. Click Copy Across.
3. Click Apply Copy Across.
4. You can click Cancel Copy Across to cancel the Copy Across function.

- **Detail Shock**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Detail Shock.
2. Click Copy Across.
3. Click Apply Copy Across.
4. You can click Cancel Copy Across to cancel the Copy Across function.

- **Direct Input**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Direct Input.
2. Click Copy Across.
3. Click Apply Copy Across.
4. You can click Cancel Copy Across to cancel the Copy Across function.

### **Restore Default**

Use this action to reset previously entered details to Undefined status.

- **Flat Method**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Flat.
2. Click Restore Default.
3. The status of the Volatility Surface Code is changed to Undefined.

- **Global Shock**

1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Global Shock.

2. Click Restore Default.
  3. The status of the Volatility Surface Code is changed to Undefined.
- **Detail Shock**
    1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Detail Shock.
    2. Click Restore Default.
    3. The status of the Volatility Surface Code is changed to Undefined.
  - **Direct Input**
    1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Direct Input.
    2. Click Restore Default.
    3. The status of the Volatility Surface Code is changed to Undefined.

### View

After defining Forecast Method and other parameters for a Volatility Surface you can view the forecasted Volatility Surface by clicking this button.

- **Flat Method**
  1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Flat.
  2. Click View to see the output table.
- **Global Shock**
  1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Global Shock.
  2. Click View to see the Output Table.
- **Detail Shock**
  1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Detail Shock.
  2. Click View to see the Output Table.
- **Direct Input**
  1. Select Volatility Surface Code using corresponding checkbox and select Forecast Method as Direct Input.
  2. Click View to see the Output Table.

## 2.4 Map Behavior Pattern Rule

The Behavior Pattern Rule section allows you to map a existing Behavior Pattern Rule to current forecast scenario.

The BP Rule drop-down list shows the list of existing Behavior Pattern Rule. Select any behavior pattern rule to map with the current forecast scenario. To map a Behavior pattern to all the forecast scenarios, use the Apply to All Scenarios check box (applicable only to Asset Liability Management Cloud Service). For more information about the Behavior Pattern Rule, see the Behavior Pattern Rule section.

To map Behavior Pattern Rule with Forecast Scenario, follow these steps:

1. Navigate to **Forecast Rate Summary** Page.
2. Navigate to the Behavior Pattern Rule section.
3. Select Behavior Pattern Rule from **BP Rule To Be Applied To Current Scenario** drop-down list. Enable **Apply to All Scenarios** check box if you want to apply the selected Behavior Pattern Rule to all scenarios.

**Figure 2-18 Map Behavior Pattern Rule**

The screenshot shows the 'Forecast Rate' configuration interface. At the top, there's a header with 'As Of Date : 25-Jun-2015' and 'Forecast Rate'. Below this, there are input fields for 'Name' (FR\_SAVE\_AS), 'Folder' (ALMSEG), 'Description' (descriptio), 'Access Type' (Read/Write), and 'Reporting Currency' (US Dollar). A table on the left lists scenarios, with 'Scenario1' highlighted. On the right, the 'Behaviour Pattern Rule' tab is active, showing a dropdown for 'BP Rule To Be Applied To Current Scenario' set to 'None' and an unchecked 'Apply to All Scenario' checkbox. An 'Apply' button is at the bottom.

4. Click **Apply**.

## 2.5 View and Edit Forecast Rate Rule

You can view existing Forecast Rate Rule, and edit existing Forecast rules, provided you have Read/Write privileges.

To view and edit a Forecast Rate Rule, follow these steps:

1. Navigate to the **Assumption** and select **Forecast Rate**.
2. Search for a Rule. For further information, see the [Searching for Rules](#) section.
3. Click on the **Action** icon against the Forecast Rate Rule Name and select **View/Edit** to open the rule you want to update.
4. Update the rule details.
5. Click **Apply** or **Save**, depending on the rule type.

## 2.6 Copy Forecast Rate Rule

You can copy Forecast Rate rules to avoid having to enter data multiple times. This saves time and effort and also reduces mistakes.

To copy a Forecast Rate Rule, follow these steps:

1. Navigate to the **Assumption** and select **Forecast Rate**.
2. Search for a Rule.  
For more information, see the [Searching for Rules](#) section.
3. Click on the **Action** icon against the Forecast Rate Rule Name and select **Save As** to duplicate the rule.

4. Select a folder where you want to save the rule copy.
5. Enter a unique Name for the new rule.
6. Enter a brief Description of the rule.
7. Click **Save**.

## 2.7 Delete Forecast Rate Rule

You can delete Forecast Rate Rules that are no longer required.



### Note:

A Forecast Rate Rule cannot be retrieved after deletion.

Restrictions on deleting Rules are:

- You cannot delete Forecast Rate Rules if you have only Read privileges. Only users with read/write privileges and Rule owners can delete Rules.
- You cannot delete a Forecast Rate that has a dependency.

To delete a Forecast Rate, follow these steps:

- Navigate to the **Assumption** and select **Forecast Rate**.
- Search for a Rule. For more information, see the [Searching for Rules](#) section.
- Click on the **Action** icon against the Forecast Rate Rule Name and select **Delete**.

## 2.8 Dependency Check

You can check dependencies for rules to know where a particular Forecast Rate Rule has been used. This also prevents accidental deletion of rules having dependencies.

To check the dependency of a rule, follow these steps:

1. Navigate to the Assumption and select Forecast Rate.
2. Search for a rule. For further information, see the [Searching for Rules](#) section.
3. Click on the **Action** icon against the Forecast Rate Rule Name and select **Dependency Check** to the rule that you want to check for.