

# 1.1. Forecast & Simulation

Availability: Solution Manager 7.10 (SP12)

The Forecast & Simulation application allows you to adjust various parameters to simulate the future size of your landscape (or individual system). It also allows you to determine the potential cost saving by reducing the current and future DB size i.e. by implementing the DVM recommendations. Further, you can also simulate the impact of planned business changes and determine the size of DB required if you move to a HANA DB.

## 1.1.1. Forecast & Simulation – Accessing the tool.



## 1.1.2. Forecast & Simulation - Versions

There are two versions available.

- 1) **Basic** version – the system prefills most fields based on your selections.
- 2) The **Expert** version – you get more fields to populate so as to be more specific about the forecast.

In this document we will focus on the basic version.

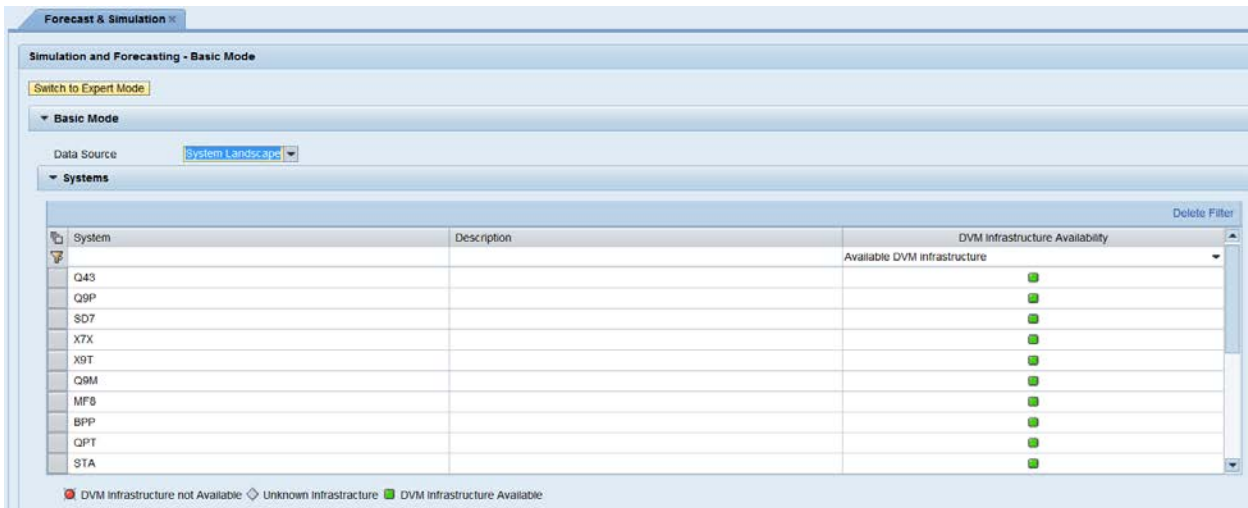
To begin, you need to decide between inputting the system data manually or by letting the application get it directly from the system landscape.


### 1.1.3. Forecast & Simulation – Basic version

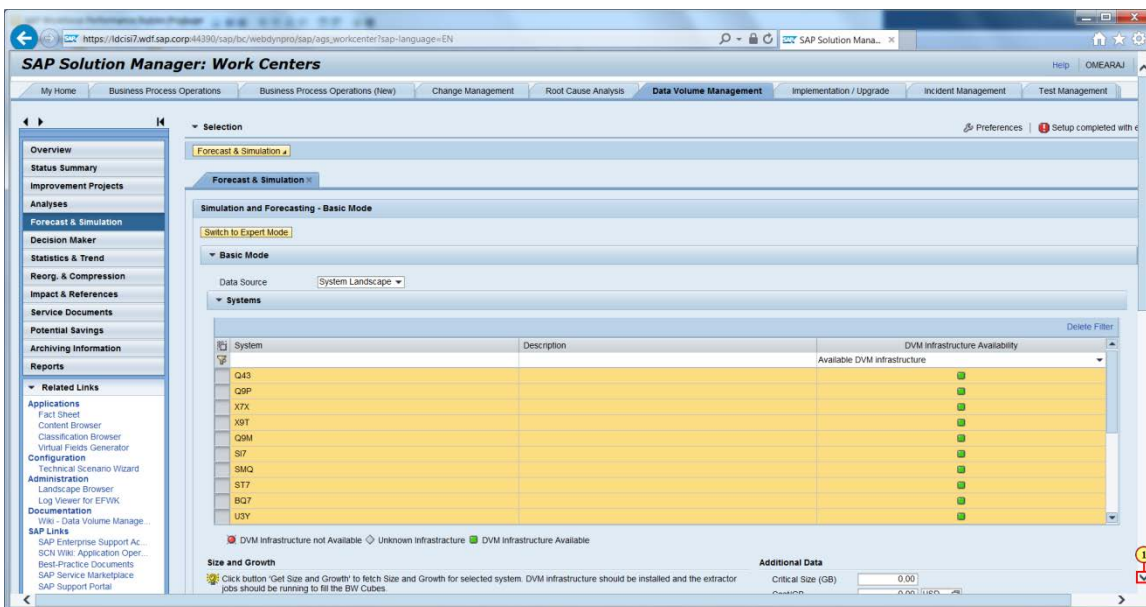
Clicking the **Data Source** opens a drop-down list.

Clicking the entry **System Landscape** selects it.

If you choose the *landscape* option the system proposes a list of those system defined within the landscape and you can then choose to include all or a selection of those in your forecast.



Click  to make your selection (select all) or click on the individual lines (while holding the shift or control key) to include them in your selection.



### 1.1.3.1. Forecast & Simulation – Size and Growth

Once you have made your system(s) selection the next step is to get the Size and growth figures of those system(s). Click on the **Get Size and Growth** button to start the retrieval. The mandatory parameters are marked with an asterisk (\*).

Size and Growth		Additional Data	
<p>Click button 'Get Size and Growth' to fetch Size and Growth for selected system. DVM infrastructure should be installed and the extractor jobs should be running to fill the BW Cubes.</p>			
Size (GB): *	2.448,84	Critical Size (GB)	2600,00
Growth (GB): *	12,55 Monthly	Cost/GB	100,00 x USD
Anticipated Growth Factor (%): *	1,50	<b>Data Reduction % (Archiving)</b>	
Initial Savings (%) with respect to DB Size:	0,00	Moderate Approach	25,00
		Aggressive Approach	50,00
<b>Get Size and Growth</b>			

Once the data has been retrieved you can add more data for the simulation or you can accept the defaults.

Note in the Additional Data section you have two fields.

Critical Size – if you have a hard limit on the size of your landscape this is important information to know. The system will use this information to show when you will reach or exceed this value.

Cost/GB – if you know what it costs to keep and support one GB of Data on your live DB, you can insert this value here and use that in the forecast step to determine future costs or potential savings.

### 1.1.3.2. Forecast & Simulation – Forecast

Having entered your parameters the next step is to generate the forecast.

Important fields here are:

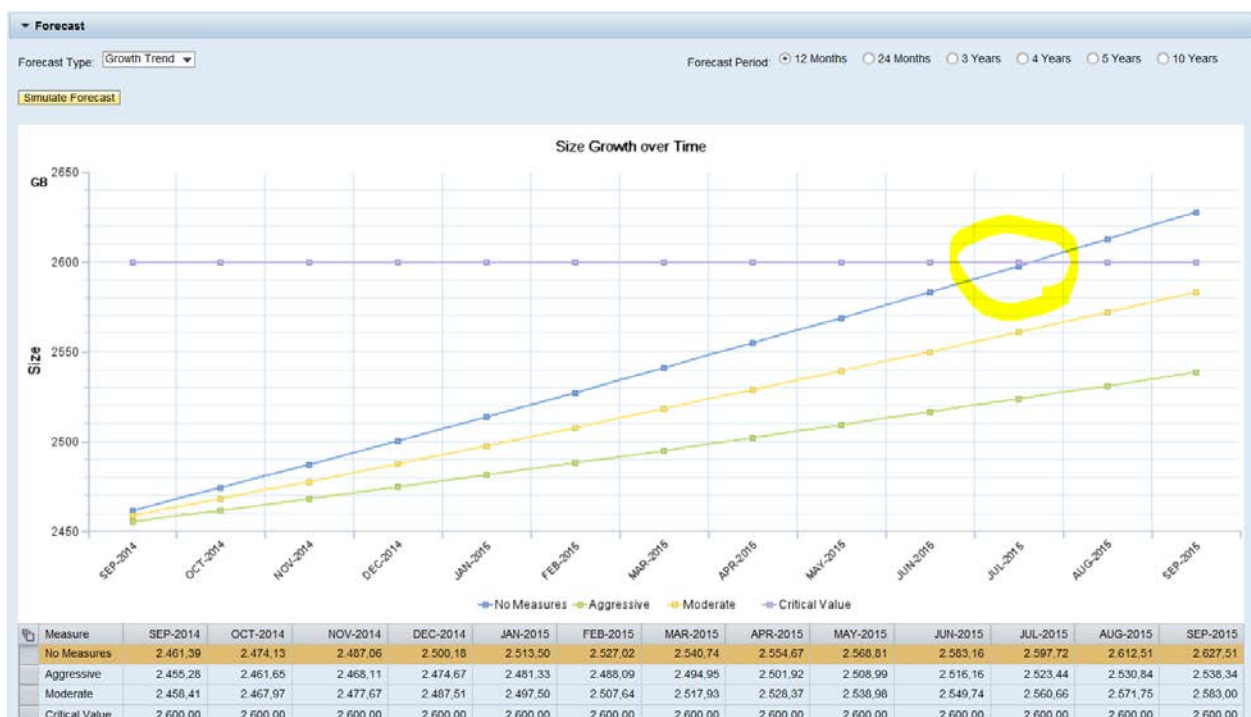
- 1- Forecast Type – currently the application supports
  - a. Growth Trend
  - b. Cost Savings
- 2- Forecast Period – supports the time horizon you want to simulate – up to ten years.

Forecast

Forecast Type: Growth Trend
Forecast Period: 12 Months 24 Months 3 Years 4 Years 5 Years 10 Years

Simulate Forecast

Click the **Simulate Forecast** button to see your results.



Based on the above parameters the system forecasts that the critical size will be breached in July 2015. This is useful information in terms of planning resources.

By changing to the *Cost Savings* forecast type we can see the results based on both a Moderate and Aggressive approach to DVM.



If you extend the forecast period the results become more compelling.



The figures shown in this document are examples only and should not be relied upon when making decisions about your own potential savings.

## 1.1.4. Forecast & Simulation – Expert Mode

The *expert mode* provides you with additional selection parameters to maintain.

The first step is to choose the system or systems to be analysed. Once you select a system or systems ensure that you press the [Apply](#) button as this impacts **Step 2: Enter Details**.

Fill in the generic data such as Critical Size and Cost/GB. If the [Apply](#) button in step 1 has been pressed then the [Get Data](#) button becomes active.



**Step 2: Enter Details** Save Project

**Generic Data Applicable for All Systems**

Critical Size (GB)  Cost/GB  USD

**System**

Click 'Get Data' to fetch Size, Growth, Reorganization(%), Compression(%) and Hana Migration(%). DVM infrastructure should be available and the extractor jobs should be running.

Choose System

Size (GB) \*  Growth (GB) \*

Anticipated Growth Factor (%) \*  Initial Savings (%) with respect to DB Size:

**Technical Savings**

Reorganization (%)  Realization Date

Compression (%)  Realization Date

Hana Migration (%)  Realization Date

Other Techniques (%)  Realization Date

**Data Reduction % (Archiving)**

Moderate Approach  Realization Date

Aggressive Approach  Realization Date

**Expected Data Growth**

Application Area   Add Row

Application Area	Description	Size (GB)	Current Monthly Growth (GB)	Expected Additional Growth (%)	Realization Date
BC	Basis Components	662,484.00	81.00	0.00	
PY	Payroll	289,273.00	95.00	0.00	
CA	Cross-Application Basis Components	162,763.00	850.00	0.00	
OTHER	OTHER	151,933.00	149.00	0.00	
FI	Financial Accounting	145,374.00	20.00	0.00	

Select a system and then choose *Get Data* to automatically input data from the selected system. Alternatively, you can enter the values for *Size*, *Growth*, and *Anticipated Growth Factor* manually. Repeat this step for each system you want to analyze.

The **Technical Savings** fields allow you to enter values for specific activities you may be considering such as:

- Reorganization (see the Reorganization and Compression Analysis tool for more information)
- Compression (see the Reorganization and Compression Analysis tool for more information)
- Hana Migration
- Other techniques (dropping a table, discontinuing an application etc.,)

Specify a realization date for each measure; that is, the date by which you want to achieve this savings percentage.

In the **Data Reduction % (Archiving)** area, enter percentage values for both a moderate and aggressive reduction approach. The default values are 25% and 50%. In addition, specify a realization date for each approach.

In the **Expected Data Growth** table, you can specify the expected growth of application areas, document types, and tables in the system due to planned projects. Select *Application Area*, *Document Type*, or *Tables* and choose *Get Details*. Enter the expected additional growth and the realization date for each object. Alternatively, choose *Add Row* and enter the data manually.

Under **Step 3: Forecast** you can select a *Forecast Type*. Select whether you want to forecast the *Growth Trend* or the potential *Cost Savings*. Alternatively, to compare the impact of measures on the selected systems, select *System Related*.

Then you need to select a forecast period.

**Step 3: Forecast**

Forecast Type:

Forecast Period: ☒ 12 Months ☐ 24 Months ☐ 3 Years ☐ 4 Years ☐ 5 Years ☐ 10 Years

☒ Impact of combined measures (choose any combination)  
☐ All measures individual for the selected items

Data Reduction Measure: ☒ No Measures ☒ Aggressive ☒ Moderate

Technical savings: ☐ Reorganization ☐ Other Techniques

Compression: ☒ DB Compression ☐ HANA Migration

You have the following options:

To simulate the impact of all measures, select ***Impact of combined measures*** and one or more reduction approaches.

To simulate the impact of each measure individually, select ***All measures individual for the selected items***. Select whether to simulate a reorganization and other measures, as well as whether to simulate either a database compression or HANA migration.

Choose **Simulate Forecast** *Simulate Forecast*.

A graph and table display the forecast according to the criteria you specified.