dun & bradstreet

Market Insight

Excelsior 2 Module

Training Manual v1.1

Excelsior 2 Module

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Contents

Introduction to Excelsior	1
The Example Data	2
Using This Manual	2
How to Login	3
Opening a Report	3
Connecting to the Market Insight System	3
Viewing an Existing Excelsior Report	4
Viewing the Report	4
Refresh the Report	5
Logoff	5
Developing an Excelsior Report	6
Starting a new Excelsior Report	7
Creating an Excelsior Report	8
Working with Market Insight Objects	9
Refresh	9
Delete	9
Find	10
Apply	10
Reset	10
Working with Cubes and Trees	11
Inserting Cube Data	11
Inserting a Cube as a Pivot Table	14
Inserting a Tree	16
Inserting a Venn	. 18
Inserting a Data Grid	. 19
Inserting a Selection Count	20
Inserting Variable Categories and Counts	21
Inserting a Word Cloud Image	22
Inserting a Refresh Date/System Build Date	23
Finishing Touches	23
Using Parameterized Selections	24
Refreshing the Whole Report	26
Development Considerations	26
Appendix 1 – Excel Functionality	. 27

Named Ranges	27
Useful Functions	29

Introduction to Excelsior

Market Insight Excelsior provides a reporting environment which combines the analytical power of Market Insight to process huge marketing databases with the flexibility of Excel to manipulate and present data driven results.

Market Insight Excelsior has two licensing levels:

- Excelsior Developer small number of individuals who actually assemble the Excelsior reports in tandem with Market Insight
- Excelsior Viewer larger number of individuals who can view and refresh the Excelsior reports with the latest results, but cannot alter the structure of the report

An Excelsior report is based on a number of embedded **Market Insight Objects** (e.g. a cube), which are linked to the Market Insight system and can be refreshed with the latest results.

Typically the Developer would use Excel functionality (e.g. formulae and charts) to manipulate the raw data and present it in an attractive format for the Viewers.

There is the opportunity to incorporate external data within the Excelsior workbook, for example, using some budget or target figures.

The Excelsior Report maintains a link to the Market Insight system so that the report can be refreshed to reflect the latest data.

The link between Market Insight and Excelsior is held as part of the plugin to Excel. Therefore when the report is saved it can be shared as a snapshot of the results, as there is no longer a link with the Market Insight system. An unlimited number of individuals throughout the business can use Excel, without the Excelsior plugin to view a report in this way.

	Report Functionality		Market Insight Requirements		
	Create	Refresh	View	Excelsior License	Market Insight Access Required?
Excelsior Developer	✓	✓	✓	Full	Yes
Excelsior Viewer	×	~	~	Partial	Yes
Excel User	×	×	✓	None	No

The Example Data

The structure of your Market Insight system can vary. The elements shown here are typical – each Site may be simply flagged with Customer data or can have many related Contacts. A Site may also have many matched Customer Accounts, and / or many other types of related data (such as one or more URLs, UCC Filings and Corporate Family Linkage Plus entries, etc.) The data loaded for each matched Customer Account is configurable – for example you may have multiple Transactions or Divisional Summaries or Product Summaries etc.

The detail present on each table of data depends on the Market Insight Administrator. The data is arranged into folders to assist the user to navigate and find data items.

The structure used in the Training System, illustrated in this manual, uses a simple structure that has sample customer data and contact tables that are linked to a Sites table and these sites are in turn linked to the Global Ultimate Sites table (e.g. worldwide headquarters).

N.B. The counts and displays in this manual may well differ to the results you obtain due to the changing nature of the data.

Using This Manual

This manual is designed to act as a self-directed training course using the data described above or as a reference guide. Therefore you will not necessarily see the same figures as shown in this manual when working through the examples.

Tables	
🔺 🖳 Market Insight Training System	
Records	
Ustomers	
Policies	
▷ IIII names	
<	>

Training System Table Level Structure

N.B. This manual is <u>not</u> designed to provide Excel training.

How to Login

Opening a Report

As a Developer or Viewer you can open an existing Excelsior report by opening it up through a version of Excel that has the Excelsior plugin installed. As a Developer you can create a new Excelsior report by logging in to the Excelsior plugin of Excel:

Open Excel and click on the Market Insight Excelsior ribbon bar tab and then click on the Show Task Pane button

Connecting to the Market Insight System

The Excelsior Report is essentially an Excel workbook, with links to a Market Insight system in order to retrieve the latest data. The contents of the report when opening it will be a snapshot of the results when the report was last saved. A connection to the Market Insight system is required in order to refresh the results. There is a task pane on the right hand side of the workbook which connects the Excelsior report to the Market Insight system on which it is based.

Remote Login

Typically multiple users will view Excelsior reports that connect to a Market Insight system stored remotely. Your Market Insight Administrator will be able to set you up with an Excelsior Username and Password and provide you with the login details of the System name and Web Service address. This username will determine your level of access as a Developer or a Viewer.

DNB MI Excelsion	- 3	×»
Login		
Enterprise		
Username :		~
Password :		
System :	Training	v
Web service :	https://www.dnbmi.com/FastStatsWebService/F	¥
	Lo	ogin
		_

Enterprise Login

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Viewing an Existing Excelsior Report

To view an Excelsior report you have been sent (or created yourself) as an Excel file, you will need to save it on your local hard drive.

An Excelsior Viewer is able to log in to the Market Insight system and refresh the contents of the report at any time.

- From the File menu of Excel locate the .xlsm file that you wish to open (you may not have one yet)
- > Open the file

Viewing the Report

The contents of the report when opened will be a snapshot of the results when the report was last saved.

The report layout and display will be dependent upon the Excel skills of the Excelsior Developer. The aim will be to present clearly information found or derived from Market Insight. How these Market Insight objects are created and selected for use in Excelsior is shown later in this manual.

An Excelsior Viewer has two main options when using Excelsior:

- **Refresh** to retrieve the current figures
- Save to obtain a standalone copy of the report

The final option is to Log off from Excelsior which breaks the connection with the Market Insight system with which the report was generated.



Refreshed Excelsior Report

Refresh	
	No items available
	Delete Refresh Refresh all
	Log off

Refresh & Log off Buttons

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Refresh the Report

You are already aware that your Excelsior report is a snapshot in time. Therefore when the Market Insight database has been refreshed you will want to see this reflected in your report.

To achieve this action:

Click the **Refresh all** button

The various Market Insight objects used within the report will be listed in the Refresh window. As the refresh takes place you will notice the report display change as new figures are inserted and graphs updated.

Logoff

To disconnect from the Market Insight system:

Click the Log off button

The Excelsior Report will remain open so that normal Excel functionality can still be used.

The report can be saved (as a snapshot in time) and shared with Excel users who do not have the Excelsior plugin.



Excelsior Panel

Developing an Excelsior Report

To be able to create an Excelsior Report you will need an Excelsior Developer license. The following information gives you an overview of what is available to an Excelsior Developer.

The Excelsior panel is split into 2 sections, Insert and Refresh. The Insert section gives the Developer access to the data in the associated Market Insight system.

- File This option gives you access to the My Market Insight Folders of your Market Insight system. Here you can locate any saved items you need e.g. cube, venn etc.
- Variable This option gives you access to the System Explorer of your Market Insight system. Here you can locate any variables you wish to gain access.
- Other This option allows you to insert 2 useful dates into your report; the refresh date of your report and the date of system build.



Insert Section of Excelsior Panel

The Refresh section allows you to refresh, delete and amend options on the items in your report. The label to the left of the vertical line indicates the sheet of your workbook (even those that are hidden). The items listed to the right of the vertical line relate to the sheet selected.

- DeleteClicking on this button will delete the highlighted item. You will
also need to delete the actual display on the report.
- **Refresh** Clicking on this button will refresh the display for the highlighted item.
- **Refresh All** Clicking on this button will refresh all the items, on all the sheets of the report.
- Log off Clicking this button will sever the link between the Excelsior plugin and the Market Insight system.



Refresh Section of Excelsior Panel

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Starting a new Excelsior Report

To create a new Excelsior Report you will need to open a new blank workbook.

➢ From the File menu select New → Blank workbook and then click Create

The Excelsior Developer can use the powerful analysis tools available in Market Insight to prepare the report.

- In Market Insight you can create any of the Market Insight Objects listed opposite and save them in the My Market Insight Folders. (These objects will need to be saved in the Public folders if the Excelsior report is to be accessed by multiple users).
- In Excelsior, the saved objects are visible in the File section of the Insert panel.
- You can select a cell in a worksheet where the object is to be inserted, and double-click on the reportable or use the Insert button.

The latest results from the Market Insight system are inserted on to the selected worksheet. Excel functionality can then be used to manipulate and present the results inserted from the Market Insight system. The results can be updated at any time keeping the reports up to date with the latest data in the system.

The Market Insight objects shown opposite can be embedded in an Excelsior report:



New Excelsior Window

- Cubes/Trees
- Word Clouds
- Venn diagrams
- Data Grids
- Selections (saved as a Query)
- Maps
- Profiles

Creating an Excelsior Report

To guide you through the developing process a series of Market Insight Objects have been created and placed into a folder called Reportables. The following pages will demonstrate how you can insert objects into the Excelsior Report and use some basic Excel functionality to create a simple dashboard.

N.B. This is not an Excel training course so you will need to use your own skill and knowledge to manipulate and display the data to the required standard when creating your own reports.

When using the various Market Insight Objects you may want to manipulate them within Excel. Therefore you may want to insert different objects into different worksheets before displaying the end results.

- Right click on the Excel Sheet1 tab
- Select **Rename** and type **Dashboard**
- Click on cell B1 and type Company Product A Dashboard in font Calibri 24
- Save your Excelsior Report on the Desktop as My Excelsior Dashboard.xlsm



Logged in Excelsior Panel

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Working with Market Insight Objects

Before using some predefined Market Insight Objects, create a cube in Market Insight to demonstrate the start to end process. (You will require access to the Market Insight Training system to do this.)

- Create a Cube of the entire Training database. Display as a breakdown of Banded Company Employee Model by Country Code at the Records table
- Save the Cube as Number of Employees by Country in your Private folder (generally save your objects in your Reportables folder)
- In Excelsior click on cell A1 in Sheet2
- In the Insert panel click on the Refresh button then highlight the Banded Company Employee Model file
- Click Insert as Data

The results found in Market Insight are now represented in the Excelsior Report. In the Refresh panel there are buttons to:

Refresh

This option will retrieve the latest results from the Market Insight system and display them in the same position the object was placed on the Excelsior report.

Delete

With the Market Insight Object highlighted in the Refresh panel, pressing the Delete button will remove it from the report. (Do <u>not</u> do this now)

ube	Σ Country Cod	le 🔻 Drop your var	iable here				1
		Unclassified	England	Scotland	Wales	Northern Ireland	TOTAL
odel	Employees Data Not I	89	860,859	69,453	38,659	18,490	987,550
ee M	1 to 5 employees	1,452	3,962,592	293,558	160,061	77,815	4,495,478
^{blo}	6 to 10 employees	30	269,664	23,597	13,116	8,856	315,263
5	11 to 25 employees	33	168,873	15,458	8,404	5,723	198,491
pan	26 to 50 employees	10	65,095	5,815	2,908	1,996	75,824
5	51 to 100 employees	6	32,385	2,738	1,326	989	37,444
ded	101 to 250 employee	6	22,440	1,735	820	605	25,606
Ba	251 to 500 employee	1	8,347	640	251	195	9,434
	501 to 1000 employe	2	4,413	314	151	93	4,973
e e	>1000 employees	1	5,221	305	135	96	5,758
ableh	TOTAL	1,630	5,399,889	413,613	225,831	114,858	6,155,821
p your var		i i	I				





Insert Panel

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When the mouse pointer is over the Market Insight Object in the Refresh panel a small arrow is revealed. Clicking on this arrow will present you with the Options screen for that object.

Find

Clicking on this button will highlight the object's display in the report.

Apply

Use this button to activate the options once a mark has been placed in the relevant tick boxes.

Reset

Click this button to restore the default options, as seen in the screen shot opposite.

Click on the arrow at the top of the screen to return to the Refresh panel.

> Delete this object and return to the **Dashboard** tab

DNB MI Excelsion	× »
Coptions	
EHR by Continent.xml <i>Private:\</i>	Find
Refresh priority : 50	•
Calculate before refresh : 🔲	
Calculate after refresh : 🔲	
Do not refresh : 🔲	
Use Excelsior version 1 formatting : 🔲	
Clear formatting from body : 🔲	
	Apply Reset

Market Insight Object - Options

Working with Cubes and Trees

Cubes and Trees provide a powerful tool for aggregating your data. By using Market Insight Excelsior further data manipulation can be performed on the results (e.g. indexing, cumulating, and averaging) or results can be combined with data from external sources. Excel charts can be applied to Cubes or Trees to present results visually.

Inserting Cube Data

Any cube saved in Discoverer can be inserted into an Excelsior report either as an Excel Pivot Table, Source or the Cube Data (static table layout).

- > Click on cell **J5** on the **Dashboard** where you want to insert the cube
- Select the cube saved in Discoverer from the Insert panel Public → Reportables → Mean Customer Revenue.xml
- Choose Data (static table) rather than Pivot (dynamic Excel Pivot Table) and click Insert

The latest results of this cube will be inserted at the selected cell. The Refresh panel will also list the cube that has been inserted.

To tidy up the display it would be useful to <u>hide</u> the Unclassified row and wrap the Mean (Customer Leve Revenue) text.

Right click on the Row(s) and select Hide

N.B. You cannot just delete elements of your Market Insight Object because when you refresh the display the original columns/rows, plus any new ones will be reinstated into that same position.



Insert Cube Data

		Mean(Customer
	Records	Level Revenue)
North	193,230	£10,603.57
North West (Excluding Greater Manchester)	329,517	£13,039.25
South East (Outside M25)	1,106,572	£13,434.28
South West	481,677	£8,596.81
East Midlands	334,178	£12,056.32
West Midlands	454,641	£12,217.20
East Anglia	190,250	£12,699.67
Yorkshire and Humberside	393,117	£10,887.39
South East (Inside M25)	1,374,916	£21,088.80
Scotland	388,665	£13,942.96
Wales	209,031	£9,747.56
Northern Ireland	107,595	£18,456.80
Greater Manchester	229,529	£14,450.17
Channel Islands	24,091	£18,676.65
TOTAL	5,817,986	£13,726.65

Cube Results in Excelsior

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- Click on Mean (Customer Level Revenue) and wrap text, also from the Home button change the number on this from General to Currency if necessary
- Resize Column J and on Row 5 type Region
- Highlight the entire table remove the Coral shading and from the Styles group on the Home tab click on Format as Table
- > Click on the Table Style you prefer and click OK

The formatting you have applied to these cells will be retained the next time a refresh takes place.

N.B. This method is best used for objects where the number of categories is unlikely to change. Otherwise insert as a pivot table so you can always find the same categories. See the examples on the following pages.

To present some of this information as a chart:

- Highlight the Regions and Mean (Customer Level Revenue) for North, West Midlands and South East (Inside M25)
- > Click on the **Insert** ribbon

Region 🔽	Records 💌	Mean(Customer Level Revenue)
North	193230	10603.57
North West (Excluding Greater Manchester)	329517	13039.25
South East (Outside M25)	1106572	13434.28
South West	481677	8596.81
East Midlands	334178	12056.32
West Midlands	454641	12217.2
East Anglia	190250	12699.67
Yorkshire and Humberside	393117	10887.39
South East (Inside M25)	1374916	21088.8
Scotland	388665	13942.96
Wales	209031	9747.56
Northern Ireland	107595	18456.8
Greater Manchester	229529	14450.17
Channel Islands	24091	18676.65
TOTAL	5817986	13726.65

Cube Data with Formatting

	_	
Region 🔽	Records 💌	Mean(Customer Level Revenue)
North	193230	£10,603.57
North West (Excluding Greater Manchester)	329517	£13,039.25
South East (Outside M25)	1106572	£13,434.28
South West	481677	£8,596.81
East Midlands	334178	£12,056.32
West Midlands	454641	£12,217.20
East Anglia	190250	£12,699.67
Yorkshire and Humberside	393117	£10,887.39
South East (Inside M25)	1374916	£21,088.80
Scotland	388665	£13,942.96
Wales	209031	£9,747.56
Northern Ireland	107595	£18,456.80
Greater Manchester	229529	£14,450.17
Channel Islands	24091	£18,676.65
TOTAL	5817986	£13,726.65

Continent & Mean Spend Highlighted

User Training Manual

- > From the **Charts** group click on the **Bar** button
- Select your preferred option
- Format the chart as you wish
- > Highlight Chart Title and **name** the chart **Selected Regions**

You can now resize and position the chart to an appropriate place on the report.

> Drag the chart so it sits to the left of the table of figures



Chart of Selected Regions

Selected Regions	Region	Records 💌	Mean(Customer Level Revenue) 💌
	North	193230	£10,603.57
	North West (Excluding Greater Manchester)	329517	£13,039.25
	South East (Outside M25)	1106572	£13,434.28
South East (Inside M25)	South West	481677	£8,596.81
	East Midlands	334178	£12,056.32
	West Midlands	454641	£12,217.20
West Midlands	East Anglia	190250	£12,699.67
	Yorkshire and Humberside	393117	£10,887.39
	South East (Inside M25)	1374916	£21,088.80
North	Scotland	388665	£13,942.96
	Wales	209031	£9,747.56
	Northern Ireland	107595	£18,456.80
£0.00 £5,000.00 £10,000.00 £15,000.00 £20,000.00 £25,000.00	Greater Manchester	229529	£14,450.17
	Channel Islands	24091	£18,676.65
	TOTAL	5817986	£13,726.65

Chart & Data Displayed Side by Side

Inserting a Cube as a Pivot Table

Any cube saved in Market Insight can be inserted into an Excelsior report either as an Excel Pivot Table or the Cube Data (static table layout).

- > Click on cell A1 on Sheet2 where you want to insert the cube
- Select the cube saved in Discoverer from the Insert panel Public → Reportables → Region by Product.xml
- Choose Pivot table (dynamic Excel Pivot Table) rather than Data (static Cube table) and click Insert

A Pivot Table will be inserted at the selected cell to display the latest results.

Configuring the Pivot Table

The Pivot Table may need configuring (see Excel help for more details on this functionality). For example:

- Change Field Value Settings to display values as Sum or Count.
- Change Field Value Settings to display values as % Row or Column etc.
- Change the orientation of rows and columns.
- Use Filters to hide certain categories.

These configurations will be maintained when the Pivot Table is refreshed.



Insert Panel

A	В	C	D	E	F
Sum of Records	Policy Product Type 🗊				
Economic Region	 PRODUCT A 	PRODUCT B	PRODUCT C	PRODUCT D	Grand Total
Unclassified	2	2	3	1	8
North	1047	508	777	465	2797
North West (Excluding Greater Manchester)	1548	857	1257	743	4405
South East (Outside M25)	5837	2840	4081	2331	15089
South West	3258	1443	1551	1245	7497
East Midlands	2014	1101	1311	1270	5696
West Midlands	2389	1171	1780	1265	6605
East Anglia	1222	747	890	489	3348
Yorkshire and Humberside	2291	1018	1540	1021	5870
South East (Inside M25)	4612	2383	3828	1585	12408
Scotland	2630	2320	1769	783	7502
Wales	1383	818	674	556	3431
Northern Ireland	670	1237	783	549	3239
Greater Manchester	952	479	872	436	2739
Channel Islands	42	36	51	23	152
Grand Total	29897	16960	21167	12762	80786

Cube Displayed as a Pivot Table

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To create a simple, but flexible chart:

- Click within the pivot table and then from the **Options** ribbon click on the **Pivot Chart** from the **Tools** group
- Select the Clustered Column chart and click OK

You now have the opportunity to choose which items you would like to display on your chart:

- On the PivotTable Field List click on the drop down arrow on the Economic Region field. Deselect all destinations except North, West Midlands, and South East(Inside M25)
- On the PivotTable Field List click on the drop down arrow on the Policy Product Type field. Deselect No Policies
- Click on the chart, the Design ribbon should now be displayed. From the Charts Layouts – Quick Layouts select Layout 3
- > Click on the title and amend as shown in the screen shot opposite
- Click on the Move Chart button on the ribbon bar, select Object in: Dashboard and click OK

You can now drag the chart to an appropriate place on the dashboard.

Resize the chart and place the top left corner around cell **124** on the dashboard

As mentioned above, once a Market Insight object has been inserted into an Excel worksheet as a Pivot Table you have a great deal of functionality available to you. Unfortunately these further options are outside the scope of this training course.

	A	В	С	D	
1	Sum of Records P	Policy Product Type 团			
2	Economic Region 🗸 P	PRODUCT A	PRODUCT B	PRODUCT C	PRO
3	Ur Ž↓ Sort A to Z	2	2	3	
4	N Z Sort Z to A	1047	508	777	
5	N Mars Sect Options	1548	857	1257	
6	Sc	5837	2840	4081	
7	Sc 📡 Clear Filter From "Economic Region"	3258	1443	1551	
8	Ea Label Filters →	2014	1101	1311	
9	W Value Filters	2389	1171	1780	
10	Ea	1222	747	890	
11	Yc Search 2	2291	1018	1540	
12	Sc (Select All)	4612	2383	3828	
13	Sc North	2630	2320	1769	
14	W North West (Excluding Greater Ma	1383	818	674	
15	Ne South East (Outside M25)	670	1237	783	
16	Gr South West	952	479	872	
17	Cr West Midlands	42	36	51	
18	Gr East Anglia	29897	16960	21167	
19					
20					
21	OK Cancel				
22					



PivotTable Field List

Pivot Chart of Target Regions

Inserting a Tree

A tree has the same underlying structure as a cube, but is usually displayed in hierarchical form. The advantage of a Tree is that it is more efficient at storing multi-dimensional data where there are large numbers of unpopulated combinations.

A Discoverer Tree can be inserted in the same way as a Cube, with the following options: "Tree" (flattened form) or "Pivot" (dynamic Excel Pivot Table).

The examples shown above could equally apply to Trees, as would the following example apply to using a Cube.

- > Click on cell A1 on Sheet3 where you want to insert the Tree cube
- Select the Tree saved in Market Insight from the Insert panel Public → Reportables → Region Lapsed or Live.xml
- Choose Pivot table (dynamic Excel Pivot Table) rather than Data (static table) and click Insert
- > Use the **filters** to deselect regions not of immediate interest

Calculations based on Cube or Tree results

The difficulty of formatting and presenting some data is that the source information location on a worksheet might change when an update takes place. New categories or variables may be included so that the position of figures may now be in a different position to when you originally set up your display.

The GetPivotData function provides a useful way to extract data from a Pivot Table by naming the information you want so it can be found despite changes made by a Refresh.

Economic Region 🖵	Policy Product Type	Policy Status	Total
■North		Lapsed	101
		Live	1004
	PRODUCT A Total	2.7.2	1105
	PRODUCT B	Lapsed	51
		Live	485
	PRODUCT B Total		536
	PRODUCT C	Lapsed	105
		Live	721
	PRODUCT C Total	1	826
	■ PRODUCT D	Lapsed	19
		Live	454
	PRODUCT D Total		473
North Total	1		2940
■North West (Exclud	PRODUCT A	Lapsed	152
		Live	1487
	PRODUCT A Total		
	B PRODUCT B	Lapsed	109
		Live	808
	PRODUCT B Total		
	PRODUCT C	Lapsed	176
		Live	1161
	PRODUCT C Total		
	PRODUCT D	Lapsed	38
		Live	723
	PRODUCT D Total		761

Tree Displayed as a Pivot Table

- Click on cell **B28** on the **Dashboard** and type **North**
- > Complete the remainder of the table headings as shown opposite

You have now setup the format of the display you would like to see on your Dashboard. Next you need to associate each cell with where the data is held within the Pivot table on Sheet3.

- In cell C28 type = and then click on the cell in Sheet3 that gives the North, Product A, Live figure. Press Return
- Click on cell C28 and in the Excel formulae bar change the section "North" with the cell reference for the heading North – B28

=GETPIVOTDATA("Records",Sheet3!\$A\$1,"Economic Region",B28,"Policy Product Type","PRODUCT A","Policy Status","Live")

This action has now referenced the name North so it will find this data anywhere in the pivot table.

- Click on the small black box on the bottom right of the cell and drag down to populate West Midlands and South East (inside M25)
- > Repeat the above process for the **Product B, C and D** columns
- > Add a title and formatting to your table

The figures shown opposite will be different to what you see.

	Product A	Product B	Product C	Product D
North				
West Midlands				
South East (inside M25)				

	Product A	Product B	Product C	Product D
North	1004	485		
West Midlands	2280	1101		
South East (inside M25)	4284	2173		

Targeted Regions				
Region 🔽	Product A 💌	Product B 💌	Product C 💌	Product D 💌
North	1004	485	721	454
West Midlands	2280	1101	1625	1247
South East (inside M25)	4284	2173	3445	1525

Table with formatted figures

Inserting a Venn

A Venn diagram can be inserted into an Excelsior report as an image.

- Click on cell B43 on the Dashboard where you want to insert the Venn file
- Select the Venn file saved in Discoverer from the Insert panel Public → Reportables → Policy Crossover.xml
- Click Insert
- Add a title and borders as desired

You can now drag the image around the report and resize if required. When the Venn is updated the latest counts will be displayed and the Venn diagram optimized for the new size.

Insert			
File Variable Other		 Number of Employees Policy A by Region.xml Policy Crossover.xml Region by Product.xml Regional Lapsed or Liv Top 5 Businesses by Re Settings Birmingham.xml 	by Cour ^
	<		>
	tì	Image ¥	Insert

Insert Panel



Inserting a Data Grid

A Data Grid can be inserted into an Excelsior report as a table of data.

- Click on cell H2 on the Sheet2 where you want to insert the Data Grid cube
- Select the Data Grid saved in Market Insight from the Insert panel Public → Reportables → Top 5 Businesses by Revenue.xml
- Click Insert

To present this information on the main Dashboard you may want to pick and choose certain items of data

- Click on cell J43 on the Dashboard where you want to insert the information
- > Type = and click on the first **Business Name** cell on **Sheet2**
- Press Return to see the result
- Click on the small black box on the bottom right of the cell and drag down a further 4 cells

The Top 5 Business Names are now displayed.

- Type = in the cell next to your first Business Name. Click on the appropriate Town and County name in Sheet2. Press Return
- Click on the small black box on the bottom right of the cell and drag down a further 4 cells to replicate the formulae and show the figures
- Repeat for Customer Level Revenue and then add some appropriate headings and a title and format the figures



Insert Panel

Top 5 Businesses by Revenue		
Business Name	City 🔽	Revenue 💌
Willis Ltd	London	681094.99
Dunhills (Pontefract) P L C	Pontefract	630570.28
Hacking & Paterson Management Services	Glasgow	802287.81
Burke Berkeley & Company Ltd	Leicester	718706.84
Cbre Global Investors (Uk Funds) Ltd	London	618950.61

Formatted Details of Top 5 Businesses

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Inserting a Selection Count

The count from a selection can be inserted into a single cell anywhere on the report. In the following example you will insert a count of the total number of Sites currently licensed by the organization.

- > Click on cell J2 on the Dashboard where you want to insert the count
- Select the count saved in Discoverer from the Insert panel Public
 → Reportables → Current Live Customers
- Click Insert

You may want to give your figure a label:

Click on cell J1 and type Live Customers

Use the Format Cells option in Excel to make the best display of the label and figure.

Right click on the cell and select Format cells...



Insert Panel



Count Figure Inserted in Excelsior

D&B Market Insight

Inserting Variable Categories and Counts

A list of categories and the full system counts can be inserted anywhere on the report. In the following example you will insert the Destination variable.

- Click on cell O2 on the Dashboard where you want to insert the variable
- Select the variable in Market Insight from the Variable section of the Insert panel – Sample Customer Data → Customer Data Status
- Click Insert

You can now format the display using Excel and Excelsior options.

- Click on the arrow which appears when you mouse over the Customer Status variable in the Refresh panel
- > Deselect the **Show codes** check box
- Click Apply
- > Refresh the Customer Status variable in the Refresh panel
- > Add an appropriate title i.e. **Breakdown of Licensed Sites**

Insert	
File	Market Insight Training System
Variable	B D&B Universe Status
Other	Customer Data status Customer Data status Client Data Client Data Contact Details Contact Det
	Decodes *

Insert Panel

• Options	
😵 Customer Data status	Find
Refresh priority : 50 🔹 Calculate before refresh : 🗌 Calculate after refresh : 🔲 Do not refresh : 🔲	
Clear formatting from body : Show codes : Show descriptions : Show counts : Descriptions before codes : Orientation : Vertical ~	
Apply	Reset Refresh

Variable Options Window

D&B Market Insight

Inserting a Word Cloud Image

A Word Cloud image can be inserted anywhere on your report.

- Click on cell **I51** on the **Dashboard** where you want to insert the Word Cloud image
- Select the Word Cloud saved in Market Insight from the Insert panel
 Public → Reportables → Policy A by Channel.xml
- Click Insert

You can now drag the image to an appropriate place on the report and add a title.

Insert	
File Variable Other	
	Top 5 Businesses by Revenue xml

Insert Panel



Word Cloud Image

Inserting a MapPoint Image

A Microsoft MapPoint image can be inserted anywhere on your report. In the same manner as described above for the Word Cloud.

N.B. Using Venn, Word Cloud and MapPoint objects will always result in an image of the item

D&B Market Insight

Inserting a Refresh Date/System Build Date

An Excelsior Tool available to insert into a report is the Refresh Date. This date tells you the last time you updated the report. However, if the Market Insight database has not been refreshed then the same figures will be returned. In addition you may wish to also display the System Build date

- Click on cell L2 on the Dashboard where you want to insert the Refresh Date
- Select the option Excelsior refresh date from the Other section of the Insert panel
- Click Insert
- Add a title in cell L1 Refresh Date

Apply formatting to the title and date as appropriate.

Finishing Touches

To complete your report for final presentation you may want to hide the gridlines or even change the color of the background:

- > In Excel go to the View ribbon and then the Show group
- Untick the Gridlines box
- Highlight the whole worksheet, right click and select Format Cells
- From the Fill tab select a light color and click OK

You may need to readjust other colored headings already applied.



Insert Panel – Other Section

Company Po	licy Pro	oduct D	ashbo	ard		Live Customers	Re	fresh Date
						53645	:	26/08/2016
						Region	Records 💌 Mean(Cu	stomer Level Revenue) 💌
	6.0	lastad Pagis				North	193,230	£10,603.57
	36	elected Regic	JIIS			North West (Excluding Greater Manchester)	329,517	£13,039.25
						South East (Outside M25)	1,106,572	£13,434.28
						South West	481,677	£8,596.81
South East (Inside M25)						East Midlands	334,178	£12,056.32
						West Midlands	454,641	£12,217.20
_						East Anglia	190,250	£12,699.67
West Midlands			·			Yorkshire and Humberside	393,117	£10,887.39
						South East (Inside M25)	1,374,916	£21,088.80
Number of Street						Scotland	388,665	£13,942.96
North						Wales	209,031	£9,747.56
en 00		610 000 00	017 000 00	eno 000 00		Northern Ireland	107,595	£18,456.80
E0.00	15,000.00	£10,000.00	115,000.00	220,000.00	E25,000.00	Greater Manchester	229,529	£14,450.17
						Channel Islands	24,091	£18,676.65
						TOTAL	5,817,986	£13,726.65
Targeted Regions						Sum of Records 8000 6000	rget Regions	
Region	Product A P	roduct B 💌 Pro	duct C 🎽 Pro	duct D		4000		
North	1004	485	/21	454			late and late [1]	In the state of the state.
West Midlands	2280	1101	1625	1247			N O N N	3 5 11 5
South East (inside M25)	4284	2173	3445	1525		understate work we said to said we want the said of th	Her rat hold votentil south tar	politer were horther creat cri
						Policy Product Type	DUCT B PRODUCT C	PRODUCT D
						Economic Region 💌		

Company Policy Product Dashboard

Using Parameterized Selections

Parameterization in Market Insight allows a User to determine the values used within a selection. This function can be taken advantage of within Excelsior to allow the Viewer to filter the display by the parameterized variable categories.

In this example you are going to use the Region variable as a mechanism to filter a Data Grid representing a selection of bookings.

- > On Sheet 3 of the report click on cell J12
- Select the State variable in Market Insight from the Insert panel Variable section → Geography → Region and click the Insert button
- Hide column J and L (this will tidy up the display)
- > Highlight the cells in column **M** next to the **Region** descriptions
- In the Name Box enter Region as the name for the range of cells and press Return (N.B. This must be the same name as the parameterized item)

To select a Region or Regions the Viewer could just type the relevant Region code in one of the cells just defined. To make this process more User friendly we will use the following formula to test for an entry in column G next to the relevant State to select the relevant code.

> Highlight cell **M13** and type the following in the Formula Bar:

=IF(I13<>"",TEXT(J13,"00"),"")

Copy the cell down against the other regions

File	 Circlic Data Englishess ID and Contact Details
Variable	 Geography
Other	✓ Town and County Interpret County Level
	 Economic Region Region
	Country Code
	▷ 🚞 PostCode

Insert Panel – Variable Section



Parameterized Formula

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- > Hide column **M** and then put an **x** in cell **I3** against **Scotland**
- Click on cell **013** and then highlight the **Top 10 Records by Premium Volume** Data Grid from the **Insert** panel. Click **Insert**

Each time you add or change the range selected you will have to highlight the item in the Refresh panel and click on the Refresh button to see the updated results.

To use this functionality for all of the Market Insight Objects in your Report, you will need to ensure that the variable (State in this case) is parameterized in the selection of each item.

Insert	
File Variable Other	 Private Reportables Current Live Customers.xml Mean Customer Revenue.xml Number of Employees by Country.xml Policy A by Channel.xml Policy Crossover.xml Region by Product.xml Regional Lapsed or Live.xml Top 10 Records by Premium.xml Top 5 Businesses by Revenue.xml

Enter X	Region	Top 10 Re	Top 10 Records by Premium	
	North		Business Name	
	North West (Excluding Greater Manchester)			
	Sout East (Outside M25)		Willis Ltd	
	South West		The British Land Company Plc	
	East Midlands		Dunhills (Pontefract) P L C	
	West Midlands		Trelleborg Offshore Uk Ltd	
	East Anglia		Lhoist Uk Ltd	
	Yorkshire and Humberside		Liberty International Holdings Ltd	
	South East (Inside M25)		Hacking & Paterson Management Services	
x	Scotland		Burke Berkeley & Company Ltd	
	Wales		Cbre Global Investors (Uk Funds) Ltd	
	Northern Ireland			
	Greater Manchester			
	Channel Islands			

Refreshing the Whole Report

The Refresh All button can be used to refresh all the Market Insight Objects in the report.

The Refresh panel displays each object and shows the progress as they are updated.

Development Considerations

You need to ensure that the refreshed results do not clash with any Excel functionality you add to the Excelsior report. For example, you need to ensure that a change in the number of rows or columns in the results does not over-write any of your own formulae. The safest way to do this is to use separate sheets for the inserted Market Insight objects.

Formulae

Standard Excel functionality will ensure that any formulae based on data in Market Insight Objects are updated automatically.

Pivot Tables

All pivot tables in an Excelsior report are automatically updated whenever you do a Refresh.

Filters

Unfortunately Excel does not refresh filters when the underlying data changes. Some simple Visual Basic can be used to achieve this.



Refresh Panel

Appendix 1 – Excel Functionality

Named Ranges

Individual cells and groups of cells can be given descriptive names. These can be used in formulae to refer to the cells instead of using the row-column notation, such as A1:E1.

Advantages

Formulae are more readable.

 For example "Sum(product_sales)" is more meaningful than "Sum(C1:C20)"

Formulae automatically adjust if the number of cells changes in a named range.

 If the number of products change, such that they are now in cells C1:C25, the named range can be redefined and formulae such as "Sum(product_sales)" need not be changed

Reference data (e.g. the name of a system table, such as "Holidays") can be easily modified.

- Instead of writing formulae such as "vlookup("Holidays", \$A1:\$C10, 2) it would be better to use vlookup(Transaction_Table_Name, \$A1:\$C10, 2) where Transaction_Table_Name is the name of a cell whose contents is the word "Holidays"
- If the table name is changed, then it is only necessary to update this single cell, rather than all individual formulae

Using Named Ranges

Create the named range:

- Select the cell or cells to name
- A useful short cut is to select the cell you wish to name and also an adjacent cell containing the text to be used as the name. More powerfully, you can select say a whole table including the column headers, to name each column with the column header. Click Ctrl-Shift-F3

You can now use the name in a formula instead of the cell reference. You can click on the cell name in the formula bar and Excel will highlight the cell or cells that the name relates to.

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The example opposite shows the range of cells that relate to the inserted cube. This block of cells has the name:

"FSO_Table_Todays_Destinations_652..." (which is the name of the Market Insight Object with a unique identifier appended).

This named range can be used for example in formulae or as the source data for a chart. For example:

- Sum(FSO_Table_Todays_Destinations_65265de6578b47b9b0df1e571fdf4295)
- Or paste the Reference in the Source Data box for a chart.

Any changes in the size of the data inserted by Market Insight will be picked up by formulae or charts referring to the data via the named range.

FSO_Table_Todays_Destinations_65265de6 👻 🧃						
	А	В	С	D		
1	Destination	Statistics	TOTAL			
2	Unclassified	People	3			
3	Mali	People	1			
4	Namibia	People	2			
5	Senegal	People	0			
6	Sierra Leone	People	0			
7	South Africa	People	1			
8	Jamaica	People	1			
9	United States	People	32			
10	Kuwait	People	5			
11	Mongolia	People	0			
12	Australia	People	31			
13	New Zealand	People	0			
14	Denmark	People	0			
15	France	People	18			
16	Germany	People	17			
17	Greece	People	16			
18	ltaly	People	2			
19	Latvia	People	0			
20	Portugal	People	4			
21	Sweden	People	3			
22	TOTAL	People	78			
23						

Useful Functions

The following functions are useful for creating reports to look up and reference areas of a workbook.

Function	Description
GetPivotData()	Extracts the value of a specific data field from a pivot table, matching a number of criteria based on the rows and columns. =GETPIVOTDATA("Sum(Cost)",A\$1, Year",2007,"Destination","Sweden")
Match()	Finds the position of a value within an array of cells =Match(\$C\$19,Month_Names,FALSE) [C19 contains month to find, Aug]
Index()	Picks a value from an array of cells, according to its position. =INDEX(Field_Names,C20) [C20 contains value 3 = 3 rd item]
Vlookup()	Picks a value from a block of cells according to a lookup value and an offset value. =VLOOKUP("Aug",Target_Values,3,FALSE) [Use False for exact match]
Offset()	Picks a value from a block of cells according to 2 offset values. =OFFSET(Table_Corner,8,3) [Row first, then Column]
Indirect()	Picks a value from a cell using the name of the cell. =INDIRECT(C25) [C25 contains the name or reference of a cell]

	А		В	С	D
1					
2		Total	Value	Number of Transactions	Number of Customers
3	Jan	£	21,245,121	60,256	35,235
4	Feb	£	27,141,320	71,343	44,891
5	Mar	£	32,141,835	88,217	55,961
6	Apr	£	34,866,978	81,862	51,252
7	May	£	50,000,000	70,634	41,723
8	Jun	£	29,565,395	72,939	44,504
9	Jul	£	30,985,360	75,817	45,891
10	Aug	£	30,256,636	76,320	45,331
11	Sep	£	24,884,018	56,384	34,456
12	Oct	£	19,774,984	31,076	20,012
13	Nov	£	16,002,958	25,251	16,587
14	Dec	£	13,889,383	21,198	14,362
15	Total	£	330,753,988	731,298	450,203
16					
17					
18		Func	tion	Parameter	Result
19		Matc	h	Aug	8
20		Index	ĸ	3	Number of Customers
21		Vloo	kup	Aug	45,331
22				4	
23		Offse	t	8	45,331
24				3	
25		Indir	ect	\$C\$2	Number of Transactions
26		Indir	ect	Named Cell	Total Value
27				_	
28					

29