Report Viewer User Guide

Version 9.0

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1. Introduction to ELEMENTS Report Viewer

Report Viewer is a tool which allows users to view the Exposure and PML reports and maps generated by ELEMENTS.

2. Installation and Setup Procedures
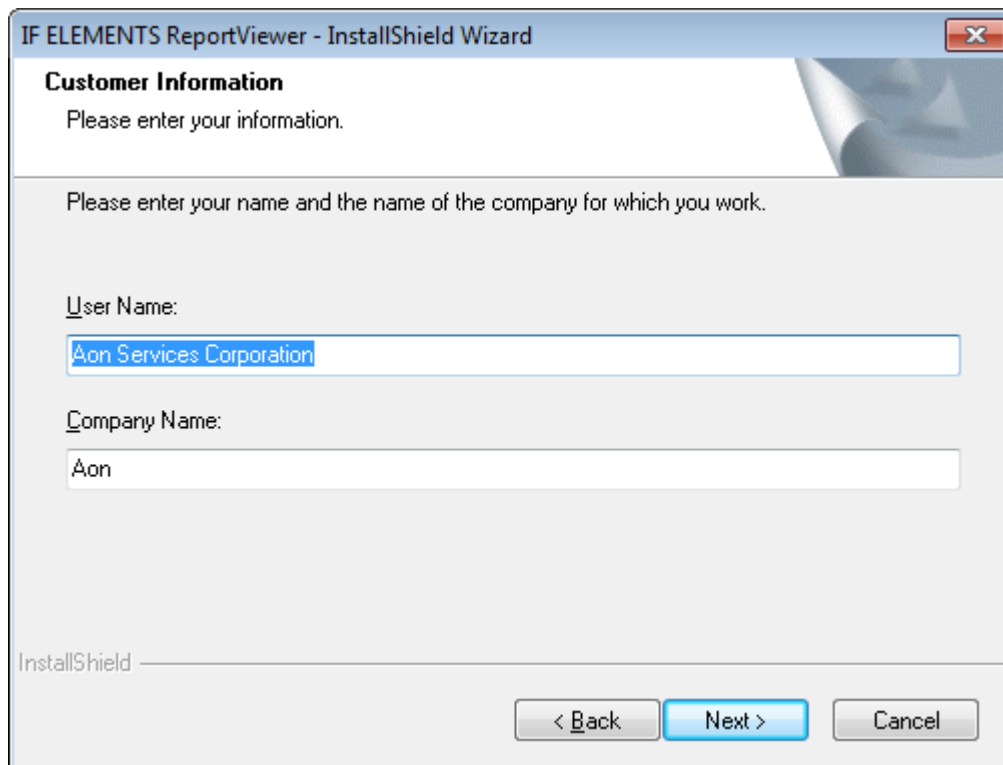
Report Viewer setup uses an easy to follow InstallShield Wizard for installation. The user running this installation must have administrative rights. If a 64 bit machine is being used, select the 64 bit installer; if a 32 bit machine is being used, select the 32 bit installer. To begin installation, launch the executable, **setup.exe**.

The following set of screen captures can be used as a guide to install the Report Viewer. The screen captures provided below appear in the order in which they occur during installation. Select the **Next** button to continue the installation process.
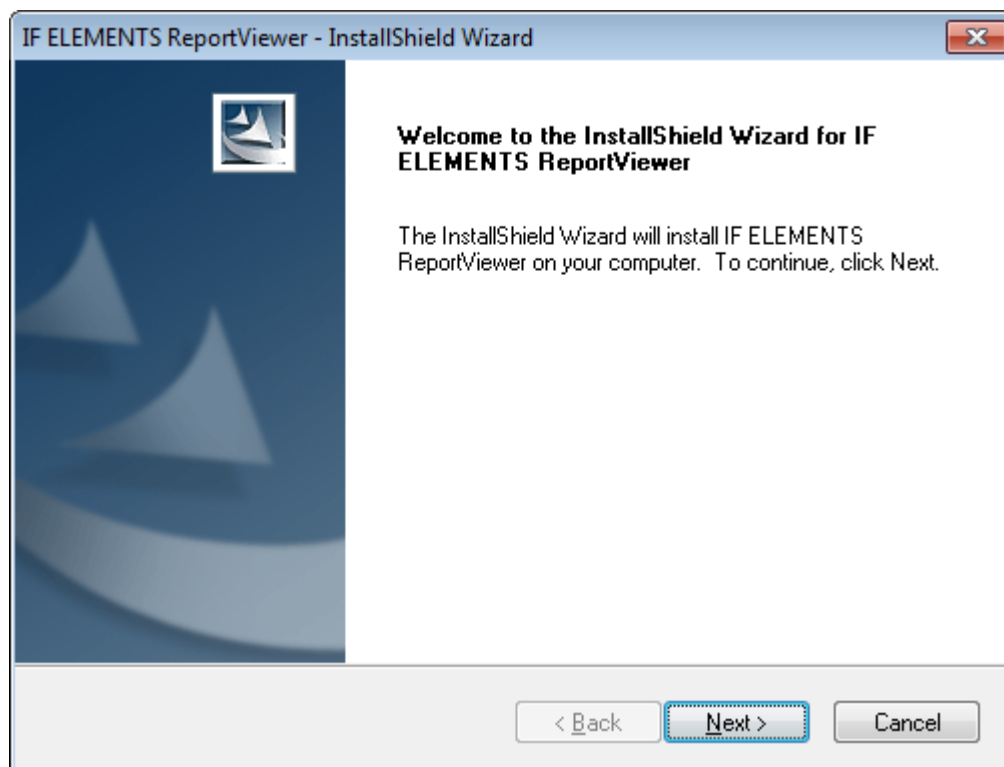
In the Customer Information Screen, enter a **User Name** and **Company Name**, then click **Next** to continue.

Allow the InstallShield Wizard to install Report Viewer in the default directory shown in this screen capture or specify a different location by selecting the **Browse…** button and browsing to a new directory.
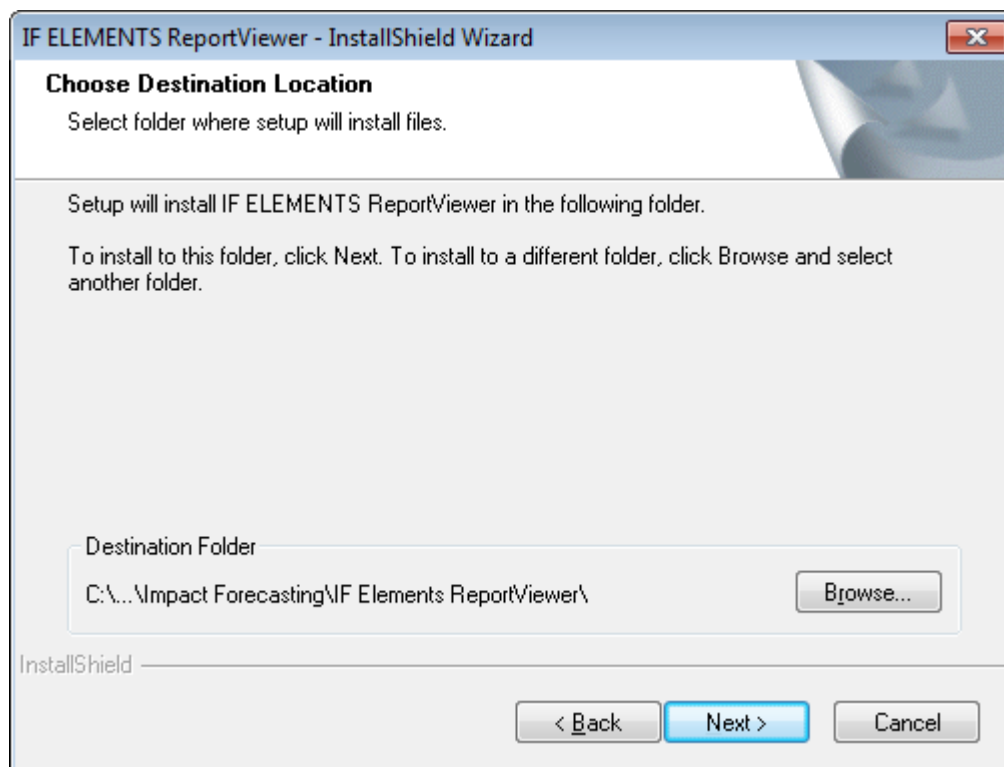
After the installation location has been specified, the following screen will be displayed. Select **Install ReportViewer.** Click **Next** to continue.
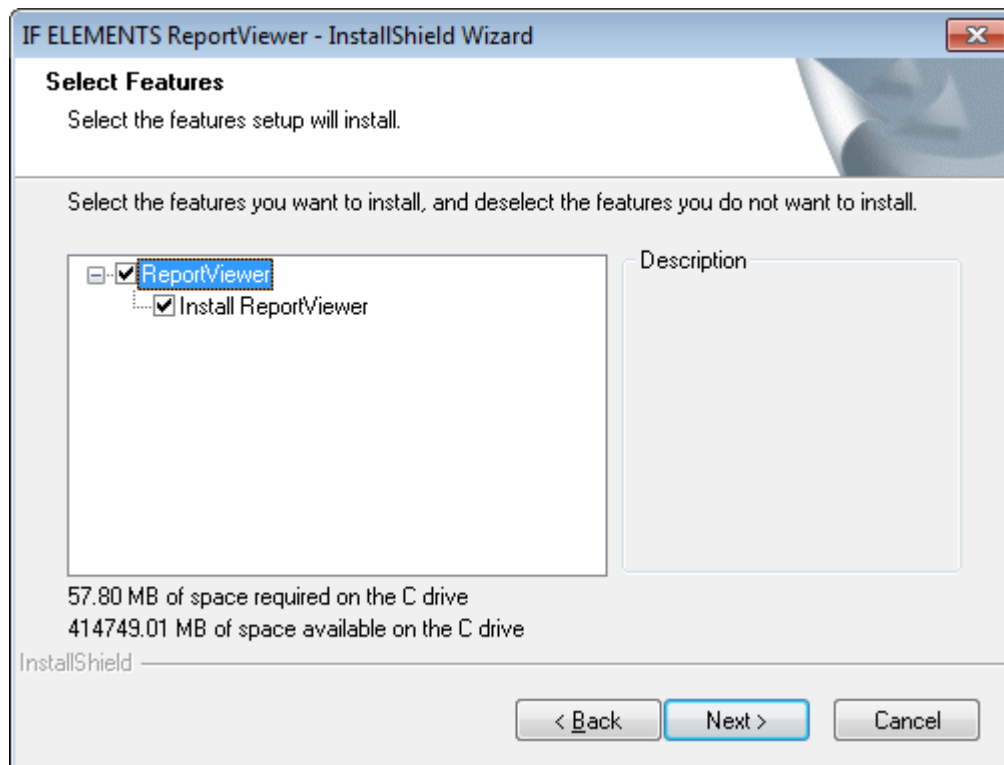
Select the **Install** button to continue with the installation.
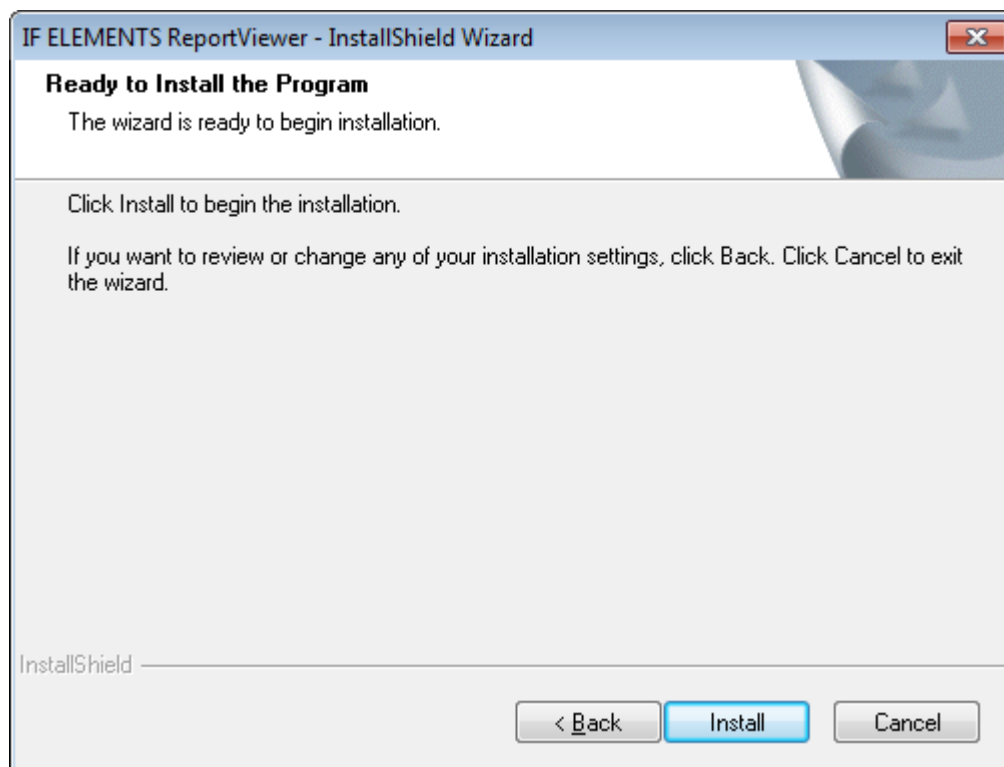
Click on the **Finish** button.
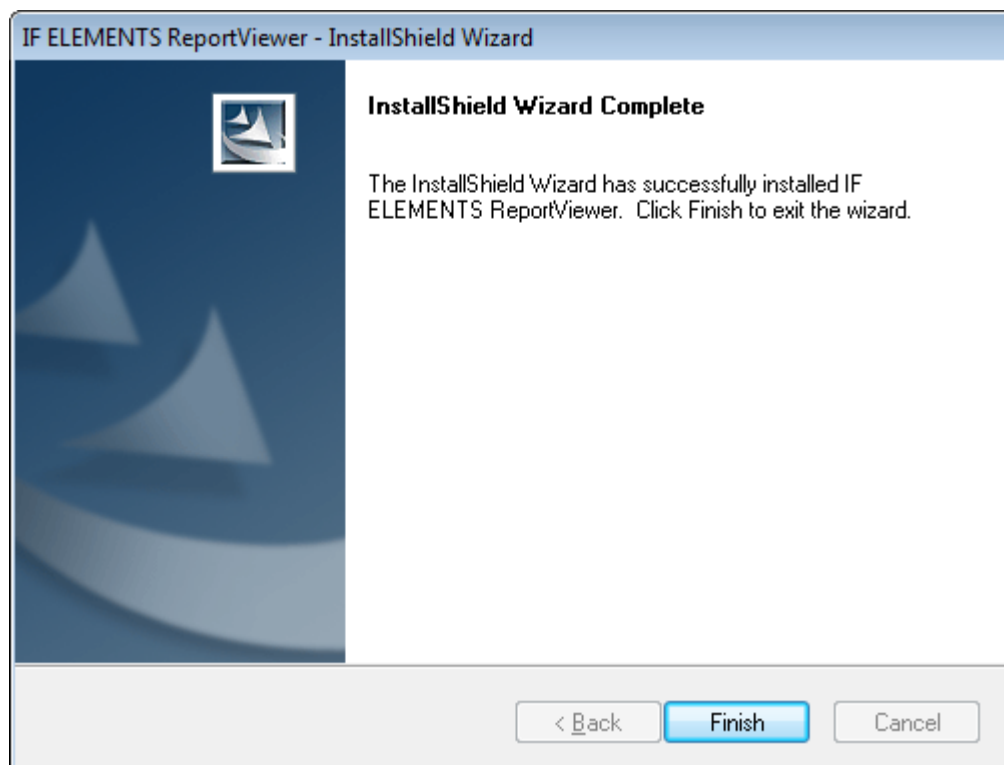
Note:

To view the reports, you need to attach IF_RESOURCES folder in the same place where Exposure and Result DBs are located.

To view maps, user need to attach IF_MAP_ELEMENTS from the mdf files kept in the databases folder in the same place where Exposure and Result DBs are located.

3. Attaching Database to View Reports

After installing the Report Viewer, users need to attach IF_MAP_ELEMENTS and IF_RESOURCES databases to the SQL Server from the location where the databases are stored. Report Viewer will connect to the SQL Server to retrieve the data and will present them in the form of maps.

To attach a database to the SQL Server, follow the steps below:

1) First, invoke **SQL Server Management Studio**. To invoke, go to **Start** Icon → **All Programs** → **Microsoft SQL Server 2005** → **SQL Server Management Studio**.

   Connect to Server dialogue box appears.

2) In the **Server Name** field, enter the name of the server where the database has been stored.

3) In the **Authentication** field, choose either **Windows Authentication** or **SQL Server Authentication**.

   Enter **User name** and **Password** in the **Authentication** column to connect using SQL Server Authentication option.

   For **Windows Authentication** option, **User name** and **Password** columns are disabled as login credentials are not required.

4) Click on the **Connect** button.

5) **SQL Server Management Studio** will show a list of attached databases on the left hand side tree view.

6) Right click on the **Databases** folder and click on **Attach** option.

   Attach Databases dialogue box opens.

7) Click on the **Add** button and browse to the location where the Exposure and Results files are stored.

8) Select the database mdf file and click on the **OK** button.

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4. Launching Report Viewer

There are two ways to launch the Report Viewer. Report Viewer can be launched from the **Windows Start** icon and from the desktop shortcut created by the setup program during the installation process.

Report Viewer Desktop Icon

To launch from the Windows Start Icon, follow the path: **Windows Start** Icon → **All Programs** → **Impact Forecasting** → **IF ELEMENTS ReportViewer** → **Report Viewer**.
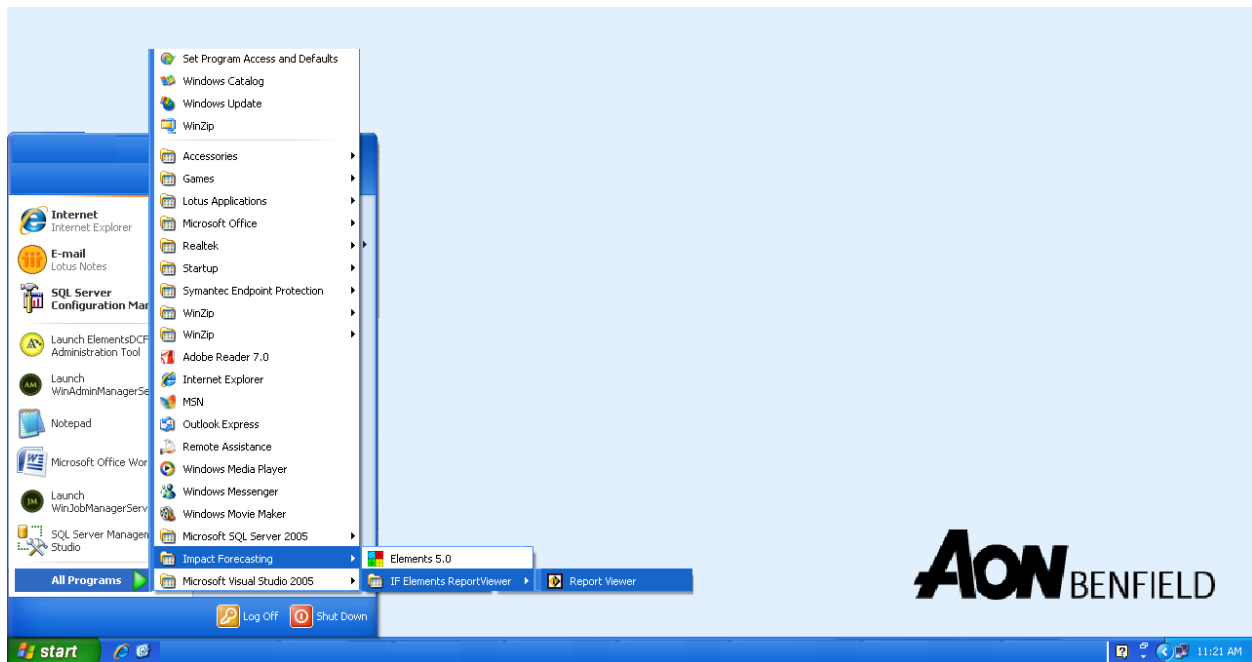
5. Connecting to Database

Once the Report Viewer is launched, the following screen appears.
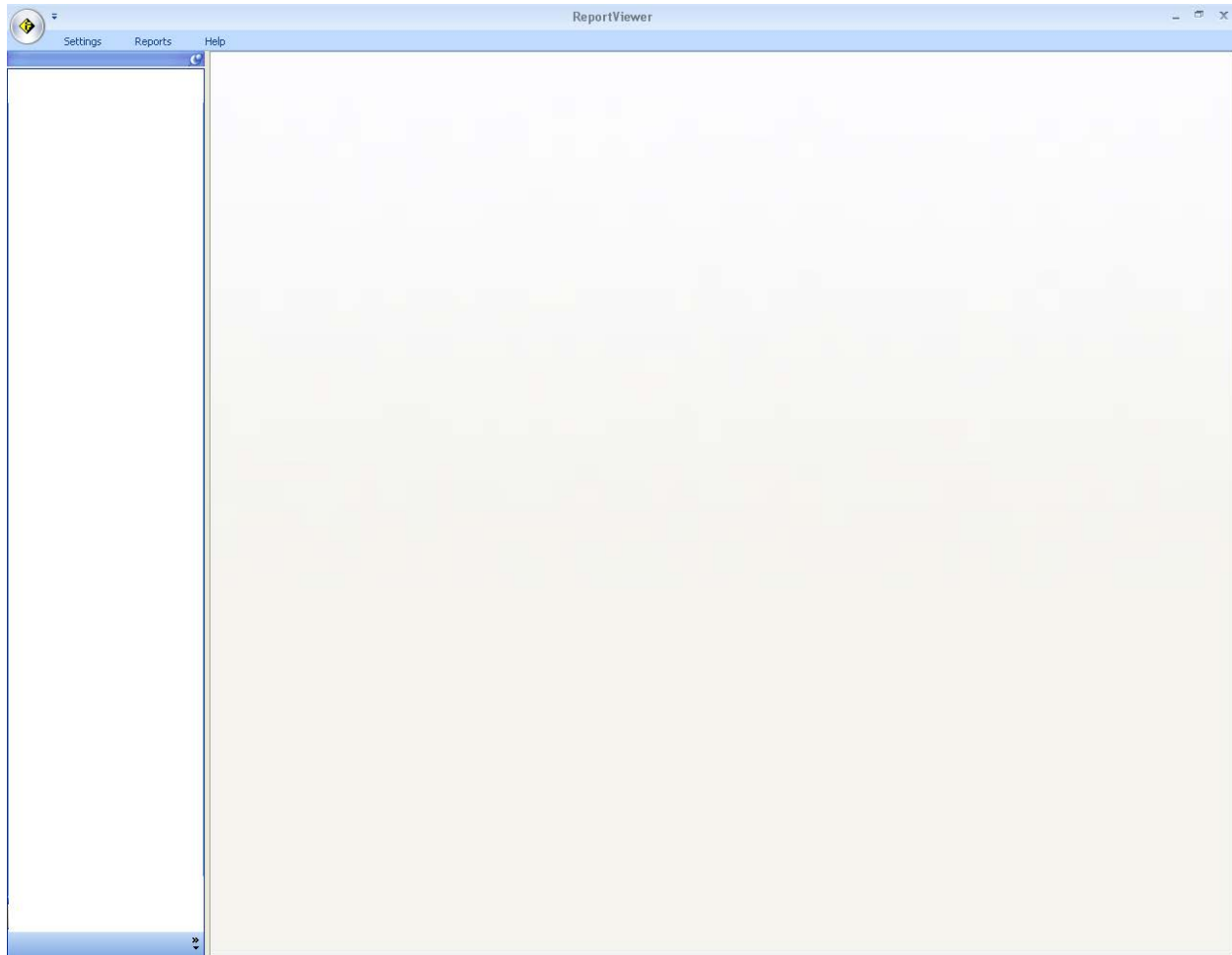
To view the reports, Report Viewer needs to be connected to a database where the Exposure and Results databases are attached.

To connect to a database, follow the steps below:

1) Go to **Settings** menu and click on the **Database Connection** option. A dialogue box appears.
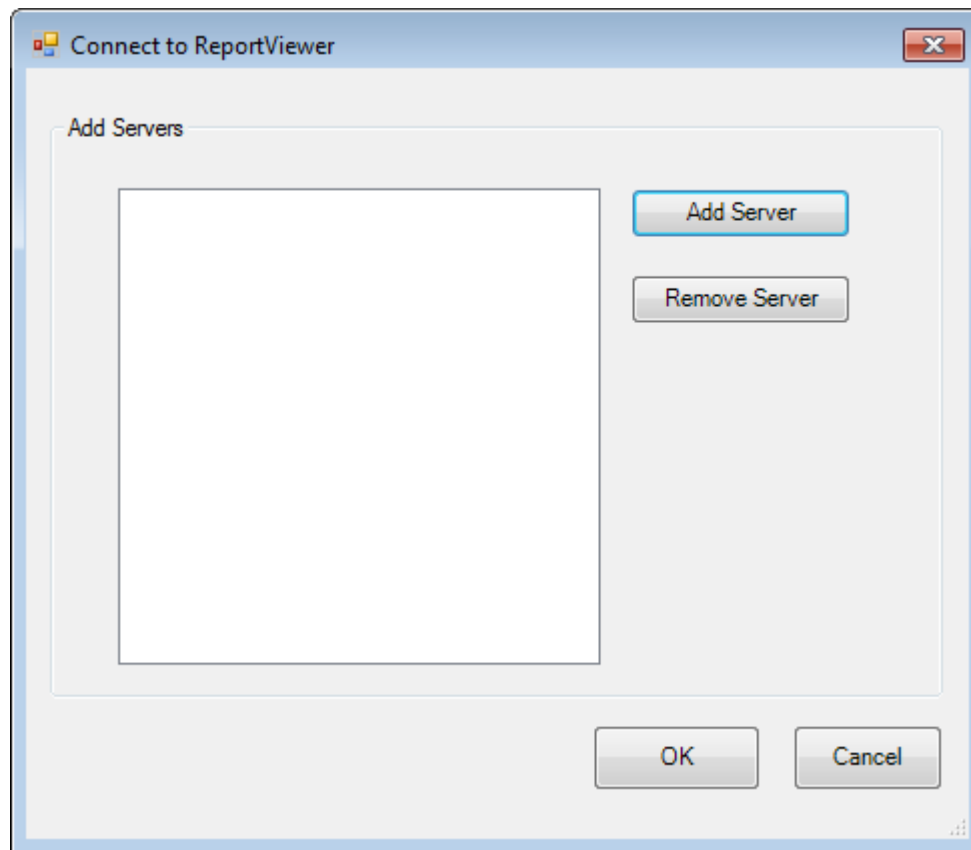
2) Click on the **Add Server** button.
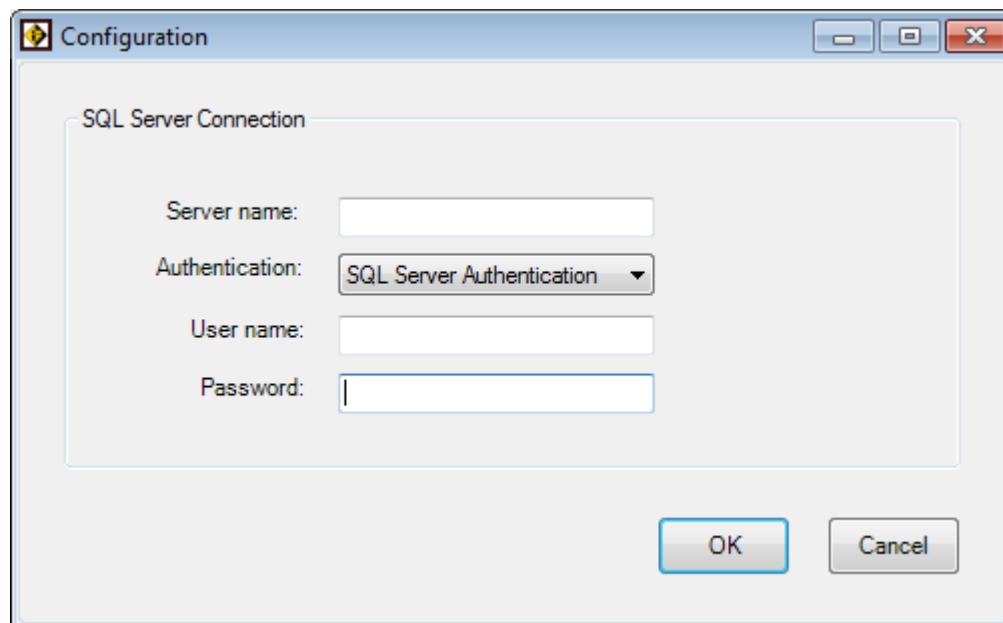
3) Enter the name of the server.

4) Select either **SQL Server Authentication** or **Windows Authentication** option.

5) Enter **User name** and **Password** in the **Authentication** column to connect using **SQL Server Authentication** option.

   For **Windows Authentication** option, **User name** and **Password** columns are disabled as login credentials are not required.

6) Click **OK** to make the connection.

Upon successful connection, the main screen of Report Viewer will display the databases in the tree view.

6. Report Viewer Screen Controls

The image below is a screen capture of the main screen which is displayed immediately after connecting to the database.
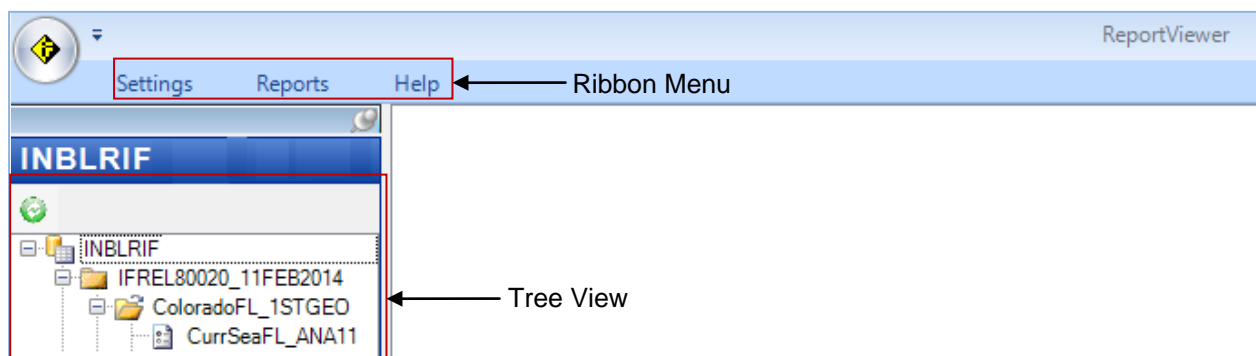
The main screen contains a **Ribbon Menu** on the top that provides three options: **Settings**, **Reports** and **Help**.

On the left hand side of the main screen is the Server tree view that lists all the available Exposure and Results database projects under the selected server.

6.1.   Tree View

On the left hand side of the main screen is the Server tree view that lists all the available exposure and results databases of the selected Server. A database server may have one or more **Projects**. Each Project may have one or more **Portfolios** and within each Portfolio there may be multiple **Analysis** items.
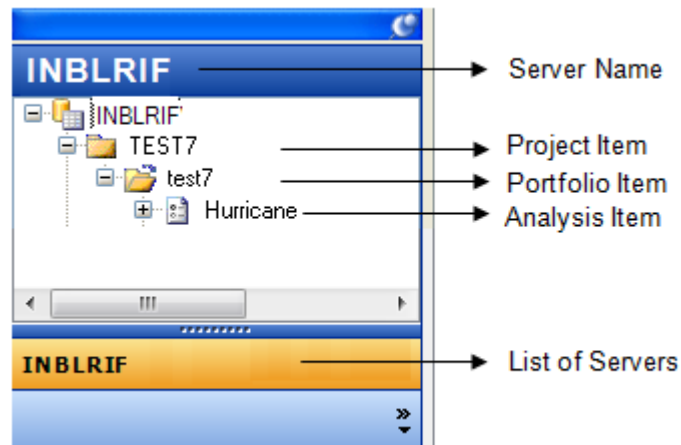
6.2.   Ribbon Menu

The Ribbon Menu contains three options: **Settings**, **Report** and **Help**.

6.2.1.   Settings

The **Database Connection** option in the **Setting** menu allows the user to connect to the server where the exposure and results databases have been stored. Refer to section 5, "Connecting to Database" for more information.

6.2.2.   Reports

Reports menu has four sub menus:

- View Exposure Reports F4,
- View Report F3,
- View Annual Aggregate F4
- View Terrorism Report F9

These menus will get activated only when the relevant report is highlighted in the Tree View.

For example, if Portfolio Item is selected in the Tree View, only View Exposure Reports option will be activated. If Analysis Item is selected in the Tree View, both View Report and View Annual Aggregate options will remain active. The below image illustrates the example.

View Exposure Reports tab is activated

Portfolio item is highlighted
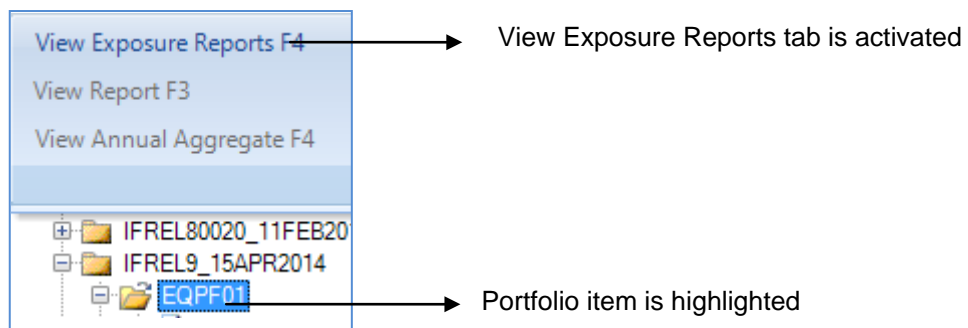
6.2.3.   Help

Help option has three sub menus: **Help Topics**, **About ReportViewer** and **ShortCut Keys**

Help Topics screen provides online help on the various Report Viewer   topics.   **About ReportViewer** option provides product version information and contact details to get telephonic or email support.

ShortCut Keys option lists all the available Shortcuts:

Keys	Portfolio Level	Analysis Level
F3		View PML Report
F4	View Exposure Reports	View Annual Aggregate
F9		View Terrorism Report
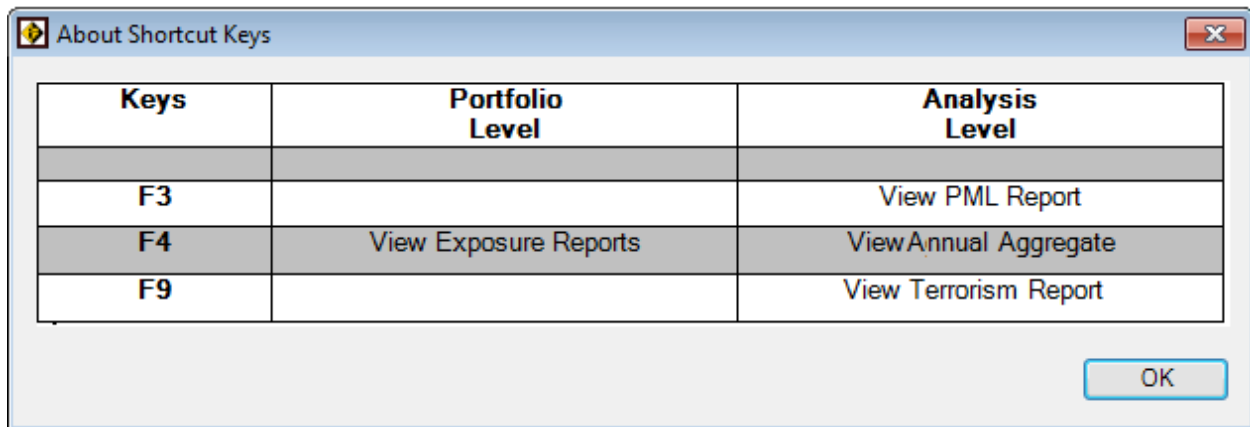
7. View Exposure Reports

An Exposure is a summary of the client data in terms of insured properties, their values and their distribution. The Exposure Report shows client insured values, reinsurance treaties applied, their locations and breakouts with respect to administrative levels (State/County/Zip code).

Note: Exposure data is stored in IF_EXP_<Project Name> format *(project name can vary)*

Exposure reports can be accessed in two ways. Select a Portfolio Item in the Reports tree view, go to **Reports** option in the Ribbon Menu and click on the **View Exposure Reports** option.
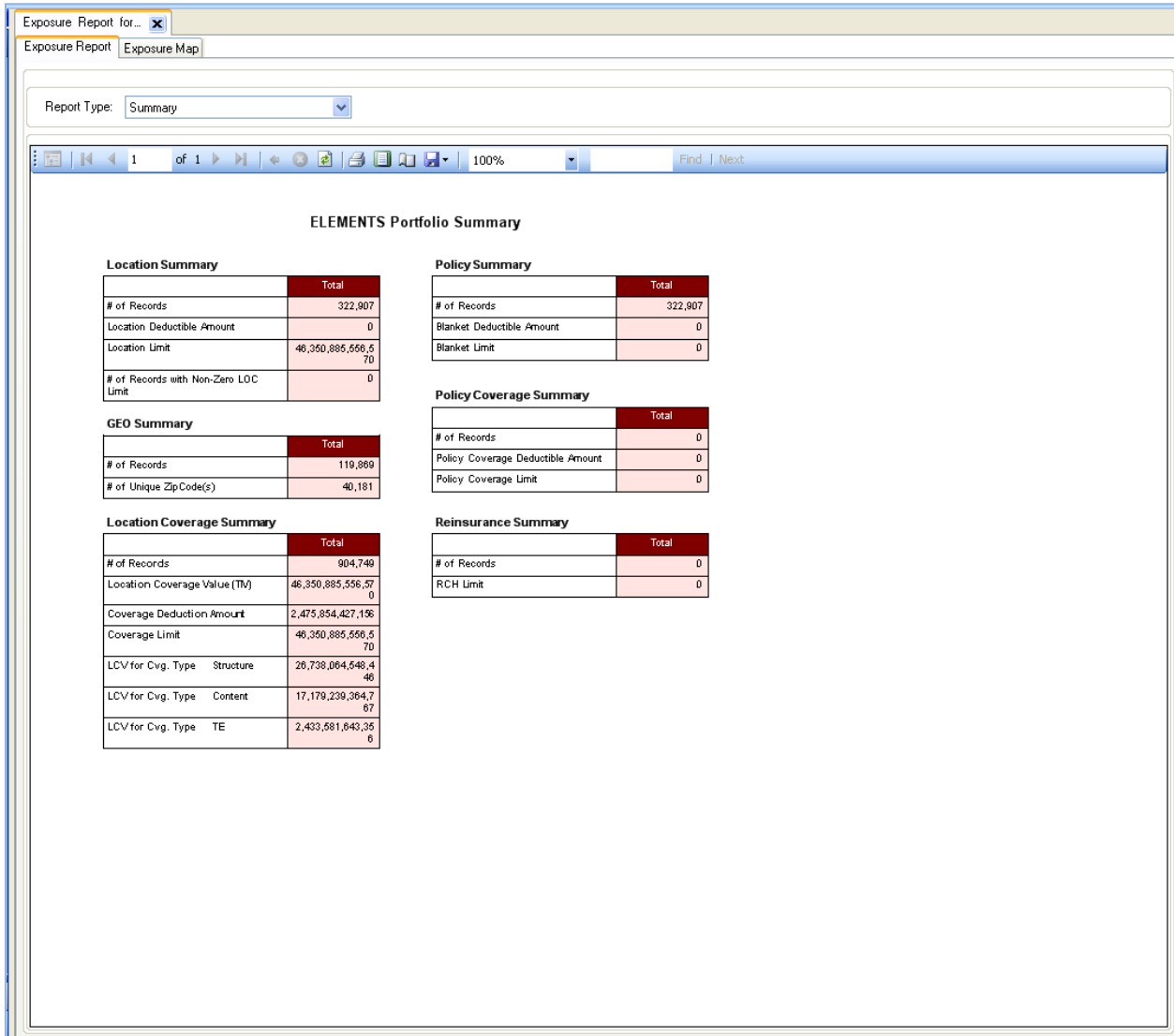
Second method is to right-click on the selected Portfolio Item in the Reports tree view and select **View Exposure Reports** from the contextual menu as shown in the figure.

Alternatively, users can select the portfolio in the tree view and press the F4 button on their computer keyboard to view the Exposure reports.
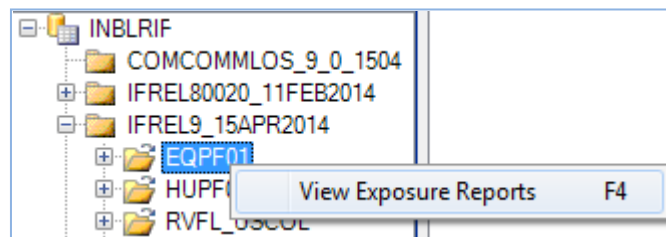
7.1. Exposure Reports

This tab displays Exposure Reports in the form of Tabular Report. Reports can also be exported in both Excel and PDF formats. By default the exposure report displays the Summary report.

The following breakouts are available for **Exposure** reports.

- Summary
- Zip Code
- County
- State

- Location

Summary Report is an overall view of the client exposure. It gives a summary of Location/Policy/Policy Coverage/Reinsurance/GEO/Location Coverage.

ELEMENTS Portfolio Summary

Location Summary

	Total
# of Records	715
Location Deductible Amount	2,630,445
Location Limit	817,301,740
# of Records with Non-Zero LOC Limit	0

GEO Summary

	Total
# of Records	731
# of Unique Zip Code(s)	300

Location Coverage Summary

	Total
# of Records	875
Location Coverage Value (TIV)	817,331,740
Coverage Deduction Amount	0
Coverage Limit	817,331,740
LCV for Cvg. Type Structure	86,217,111
LCV for Cvg. Type Content	706,512,870
LCV for Cvg. Type TE	24,601,759

Policy Summary

	Total
# of Records	2
Blanket Deductible Amount	0
Blanket Limit	0

Policy Coverage Summary

	Total
# of Records	0
Policy Coverage Deductible Amount	0
Policy Coverage Limit	0

Reinsurance Summary

	Total
# of Records	4
RCH Limit	70,000,000

Location Coverage Summary: Location Coverage summary gives details about Location Coverage Value (TIV – Total Insured Value), Coverage Deduction Amount and the Coverage Limit Values.

The Location Coverage summary also gives the breakout of values in terms of Coverage types such as Structure, Content and Time Element(TE).

Location Summary: Location Coverage summary gives details about location deductible amount, location limit and number of records with non-zero LOC limit.

Policy Summary: Policy Summary gives details about policy applied to the portfolio.

Policy Coverage Summary: Policy Coverage summary gives details about coverage deductible amount and coverage limit values.

Each of the other exposure report breakouts show TIV (Total Insured Value), LOC Deductible (Location Deductible), LCV Deductible (Location Coverage Deductible), LOC Limit (Location Limit) and LCV Limit (Location Coverage Value Limit).

ELEMENTS Summary: By Zip Code

	Zip Code	County	County Name	TIV	LCV Deductible	LOC Deductible	LCV Limit	LOC Limit	Avg. Longitude	Avg. Latitude
19	50535	161	Sac	6,858,223	342,911	0	6,858,223	6,858,223	-95.1968	42.4426
19	50536	147	Palo Alto	320,175,317	16,008,766	0	320,175,317	320,175,317	-94.6794	43.0827
19	50538	25	Calhoun	24,757,212	1,237,860	0	24,757,212	24,757,212	-94.4555	42.2527
19	50539	109	Kossuth	6,217,042	310,852	0	6,217,042	6,217,042	-94.3886	43.2624
19	50540	151	Pocahontas	40,149,161	2,007,458	0	40,149,161	40,149,161	-94.8164	42.6319
19	50541	91	Humboldt	17,168,489	858,424	0	17,168,489	17,168,489	-94.3840	42.6887
19	50542	197	Wright	36,244,194	1,812,210	0	36,244,194	36,244,194	-93.9124	42.8048
19	50543	187	Webster	46,018,558	2,300,928	0	46,018,558	46,018,558	-94.3377	42.2533
19	50544	187	Webster	11,870,979	593,549	0	11,870,979	11,870,979	-94.2216	42.2523
19	50545	91	Humboldt	2,361,849	118,092	0	2,361,849	2,361,849	-94.0308	42.7756

ELEMENTS Summary: By Location

LOC ID	TIV	LCV Deductible	LOC Deductible	LCV Limit	LOC Limit
1	483,104	0	0	483,104	483,104
2	6,070	0	0	6,070	6,070
3	6,169,970	0	0	6,169,970	18,509,910
4	1,992,600	0	0	1,992,600	5,977,800
5	5,031,000	0	0	5,031,000	10,062,000
6	2,350,000	0	0	2,350,000	7,050,000
7	100,000	0	0	100,000	100,000
8	240,000	0	0	240,000	480,000
9	2,454,594	0	0	2,454,594	7,363,782
10	812,000	0	0	812,000	1,624,000

ELEMENTS Summary: By County

Pennsylvania	County	County Name	TIV	LCV Deductible	LOC Deductible	LCV Limit	LOC Limit
42	0		1,634,663,480	0	5,260,890	1,634,663,480	86,000
42	7	Beaver	817,331,740	0	5,260,890	817,331,740	120,000
42	29	Chester	817,331,740	0	5,260,890	817,331,740	172,420
42	49	Erie	817,331,740	0	5,260,890	817,331,740	1,192,756
42	79	Luzerne	817,331,740	0	5,260,890	817,331,740	38,400
42	125	Washington	1,634,663,480	0	5,260,890	1,634,663,480	1,600,000

California	County	County Name	TIV	LCV Deductible	LOC Deductible	LCV Limit	LOC Limit
6	1	Alameda	3,269,326,960	0	5,260,890	3,269,326,960	9,964,010
6	13	Contra Costa	1,634,663,480	0	5,260,890	1,634,663,480	7,936,900
6	29	Kern	1,634,663,480	0	5,260,890	1,634,663,480	204,000
6	37	Los Angeles	6,538,653,920	0	5,260,890	6,538,653,920	23,667,910
6	41	Marin	2,451,995,220	0	5,260,890	2,451,995,220	3,025,000
6	59	Orange	16,346,634,800	0	5,260,890	16,346,634,800	41,422,630
6	61	Placer	817,331,740	0	5,260,890	817,331,740	149,320
6	65	Riverside	817,331,740	0	5,260,890	817,331,740	6,000,000
6	71	San Bernardino	4,086,658,700	0	5,260,890	4,086,658,700	3,785,230
6	73	San Diego	13,894,639,580	0	5,260,890	13,894,639,580	59,773,888
6	75	San Francisco	817,331,740	0	5,260,890	817,331,740	23,667,516
6	111	Ventura	4,086,658,700	0	5,260,890	4,086,658,700	4,330,000

ELEMENTS Summary: By State

Arizona (4)	Total LOC Deductible :		25,500
	Total LOC Limit :		14,864,598
Cov Type	TIV	LCV Deductible	LCV Limit
Total	1,634,663,480	0	1,634,663,480
California (6)	Total LOC Deductible :		261,300
	Total LOC Limit :		183,946,404
Cov Type	TIV	LCV Deductible	LCV Limit
Total	56,395,890,060	0	56,395,890,060

View of breakouts in tabular exposure reports

7.2.   Exposure Map

This tab displays Exposure Reports in the form of maps. This option is automatically enabled only if IF MAP Elements are configured on the user's machine. Exposure maps are available at **State**, **County and Postal Code** level for US Regions and at **Country**, **Cresta**, **Municipality**, **District** and **Postal Code** level for Non-US Regions.
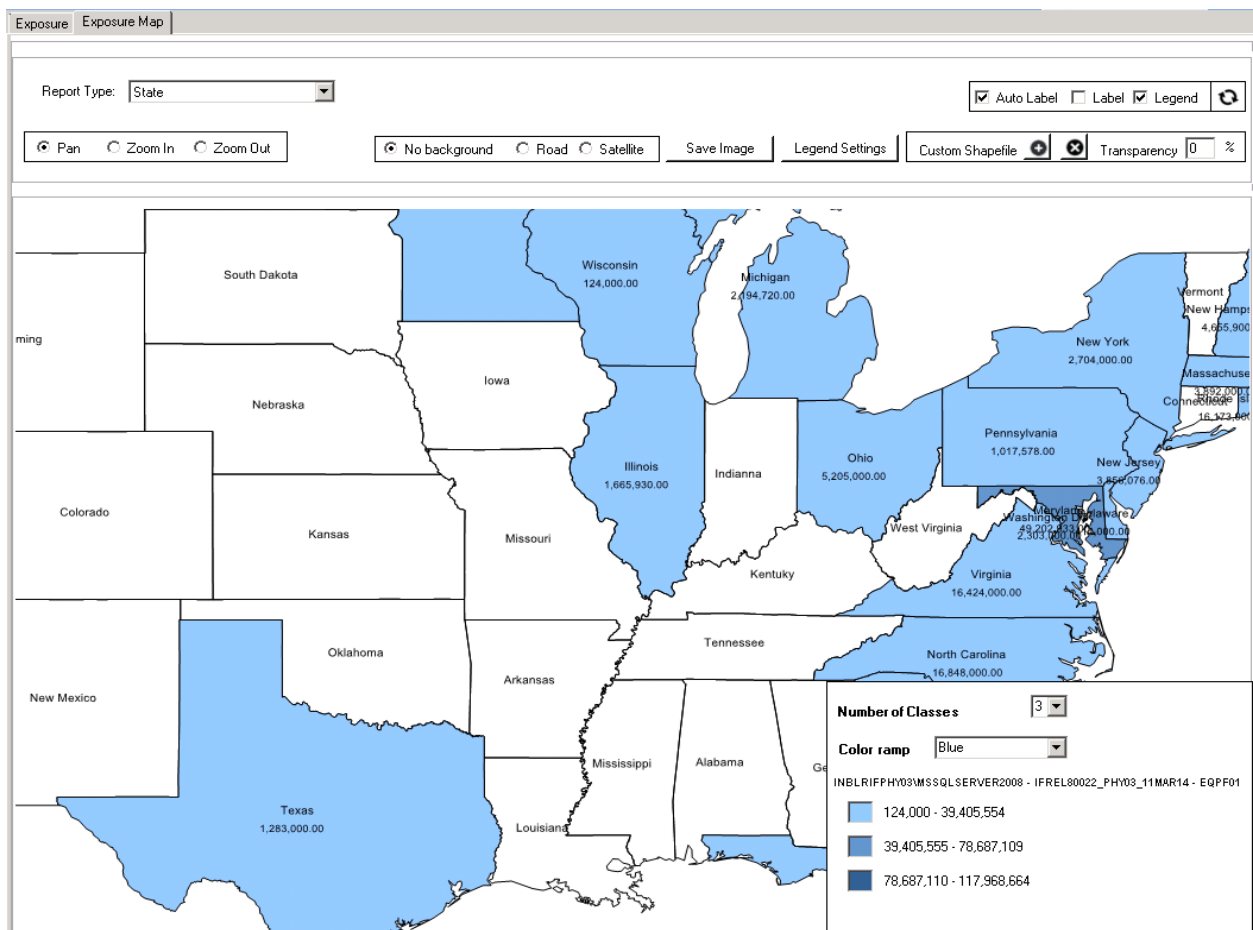
Report Type: List of available breakout options.

Auto Label: If enabled, the state or county names will be shown only when the user zooms into the map beyond particular zoom level.

Label: If enabled, shows the state or county name at all zoom levels.

Legend: Shows legend settings on the map.

Pan: To pan the map

Zoom in: To Zoom in

Zoom Out: To Zoom out
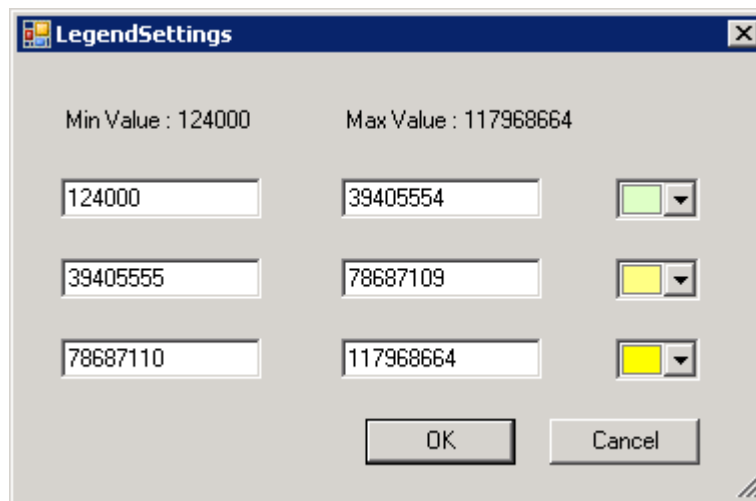
No Background: Enable this option if background map is not needed.

Road: It shows Bing map road layers for Exposure Maps.

Satellite: It shows Bing map satellite layers for Exposure Maps.

Save Image: To save the map as an image.

Legend Settings: To define the colors for every range of values.

Custom Shape file: If user wants to overlay a custom shape file over the map. The shape file needs to be projected in **WGS_1984_Web_Mercator.**If the shapefile should display labels, it should have a column by name "Value" and the contents of value column will be displayed on the map.

The custom shapefile and label will be colored in red.

Transparency: To set transparency percentage for maps.

8. View Report

Reports can be either PML or AAL or Scenario Reports. According to the option chosen while creating the analysis, reports will be displayed.

Reports can be accessed in two ways. Select the specific Analysis Item in the Reports tree view, go to **Reports** option in the Ribbon Menu and click on the **View Report** sub option.

Second method is to right-click on the Analysis Item in the Reports tree view and select **View Report** from the contextual menu.

Alternatively, users can select the analysis in tree view and press the F3 button on their computer keyboard to view the reports.
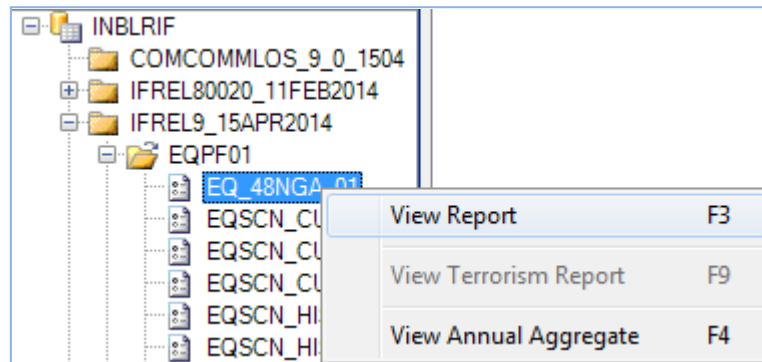
8.1.   PML Reports

The PML (Probable Maximum Loss) is the random variable that describes the loss to the portfolio for a single occurrence for a given return period. The probable maximum loss results provide an estimate of how frequently a loss of a given severity is expected. PMLs are usually referred to as a loss for a given return period. The return period is used as a measure of frequency (the annual frequency of a given loss is approximately equal to the reciprocal of the return period); while the loss estimate itself is a measure of severity.

Probable maximum loss curves are calculated for all loss types (e.g., GU, Gross, NTY, etc.) and for all loss aggregation options. PML tables may be computed at default or user-defined return periods. More detailed loss exceedance curves may be requested for specific loss aggregations. Further event level loss data is available for detailed analysis if desired.
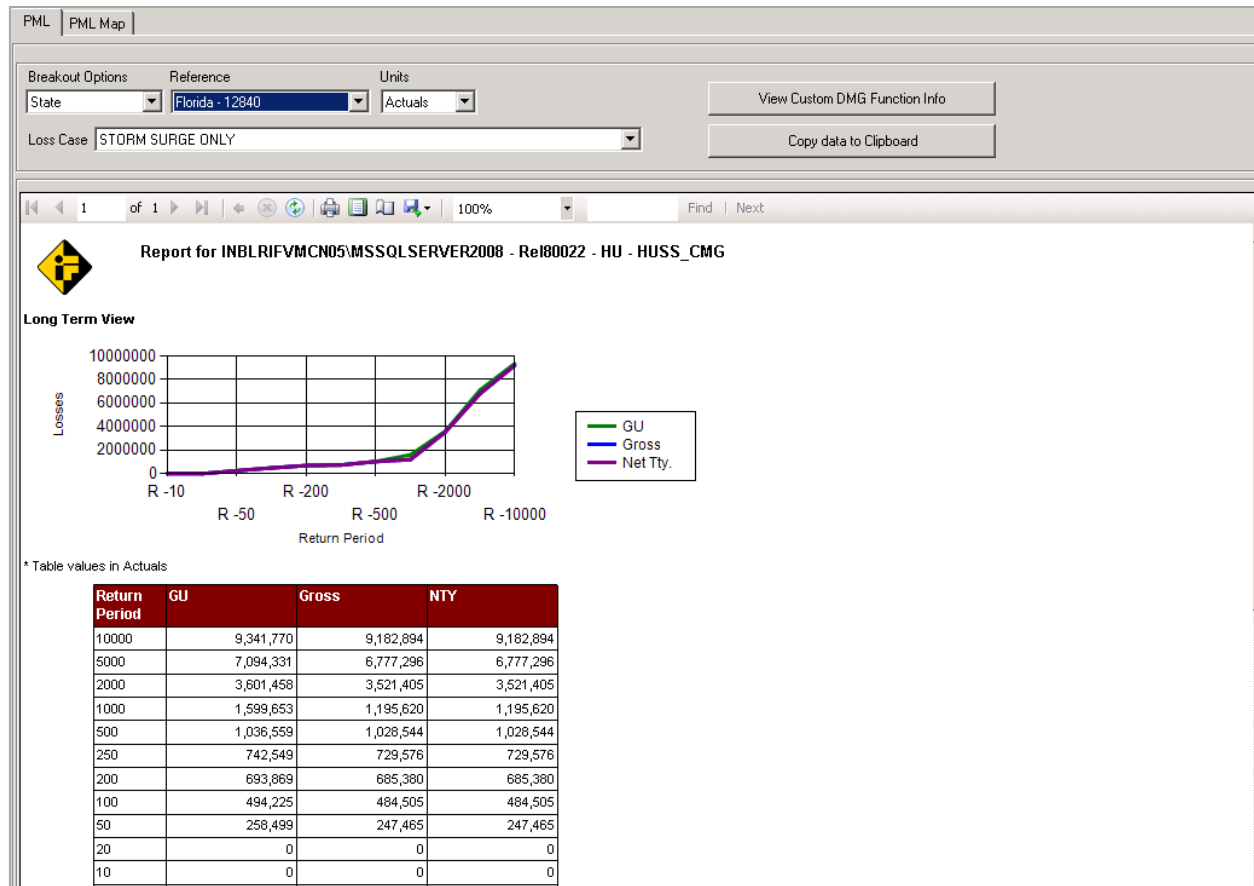
PML Report Breakout Options:

> **PML Level**: This option allows the user to obtain graphical results for different PML breakouts. For example, if the user selected **County** in the Loss Parameters control form for PML breakouts, **County** would be an option under the **PML Level** drop-down box. Here is a list of all the available PML breakout options:

- Portfolio
- Country
- State
- County
- District
- Municipality
- CRESTA
- Zip Code
- Line of Business
- Coverage Type
- Zone (Primary)

- Zone (Secondary)
- User Defined Coverage

> **Note**: **Account** and **Location** breakouts are not available for selection under the PML breakout options list inside the tool as the data size for these breakouts is huge. However, users can view these breakouts in the detailed reports available in the database.

Reference: This is a sub-option to PML Level. If the user has selected **County** and **State** as the **PML Level** breakout option, then in the **Reference** dropdown, the user could select the FIPS code for a particular county and see the PMLs for that specific county.

Loss Case: This option allows the user to obtain graphical results for different loss case analyses. Select the desired **Loss Case** option from the drop-down box.

Note: Loss Case options differ according to peril types.

Units: The Units option allows the user to select how the values are displayed in the analysis results table of the PML report. The available units are **Actuals**, **Thousands**, **100,000**, **Millions** and **Billions**. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Copy Data to Clipboard: Copy Data to Clipboard functions as a general copy command that permits the user to copy the data from the PML report and paste it into programs such as Microsoft Excel, Microsoft Word or Notepad.

View Custom DMG Function Info: If the user had imported damage function information while creating the analysis, this button will be enabled above the **Copy Data to Clipboard** button. Users can view the custom damage function information by clicking on this button.

> **Note**: IF_USERDATA database needs to be attached to view the custom damage function information. To learn how to attach a database, see Section 3, "Attaching Database to View Reports"

PML Report Form:

The expected loss results can be viewed on the PML Reports form. The screen snapshot below shows a sample PML results from a completed portfolio analysis. The various PML return period values are shown in table format and plotted on an X-Y chart.

> **Ground Up Loss (GU):** "GU" represents the total amount of losses before any insurance and reinsurance terms are applied. These losses are estimated by using damage functions for building, contents and business interruption or additional living expenses.

> **Gross Loss (Gross):** "Gross" represents the gross insured losses after all coverage, location and policy deductibles and limits are applied, but before any reinsurance recoveries.

> **Net of Treaty (NTY):** "NTY" represents the gross insured losses net of all reinsurance recoveries (facultative and treaty).

For **Tropical Cyclone** and **Storm Surge** projects, two PML reports will be displayed upon the completion of the Loss calculation. These reports are the **Long Term View** or **Nea**r **Term View** results. Long Term

View results are those based upon historic data while the Near Term View results provide an "extreme" view of the near term future. Near Term View results are higher in loss value and are based upon current frequency predictions which include research factors such as trends in global warming.

The loss results are shown for specific return period intervals.

Report for **Server 01** - TEST7 - test7 - **Hurricane_Wind**

Long Term View

* Table values in Actuals

Return Period	GU	Gross	NTY
10000	50,883,800	50,174,700	50,174,700
5000	50,320,657	49,656,343	49,656,343
2000	42,213,723	41,519,356	41,519,356
1000	30,267,988	29,708,526	29,708,526
500	24,743,136	24,228,792	24,228,792
250	18,132,003	17,753,129	17,753,129
100	10,768,071	10,487,297	10,487,297
50	7,002,401	6,730,487	6,730,487
20	3,195,144	3,132,194	3,132,194
10	1,506,794	1,482,517	1,482,517
AAL	748,977	730,975	730,975
STDDEV	2,549,081	2,497,106	2,497,106

Near Term View

8.2.　PML Map

Breakout Options: List of available breakout options.

Return Period: Filter by the available return periods for this analysis.

Loss Value: Filter by GU, Gross, NTY values.

Loss Case: This option allows the user to obtain graphical results for different loss case analyses. Select the desired **Loss Case** option from the drop-down box.

>Note: Loss Case options differ according to peril types.

Units: The Units option allows the user to select how the values are displayed in the analysis results table of the PML report. The available units are **Actuals**, **Thousands**, **100,000**, **Millions** and **Billions**. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Auto Label: If enabled, the label will automatically zoom when user zooms into the map beyond particular zoom level.

Label: If enabled, shows labels at all zoom levels.

Legend: Shows legend settings on the map.

Pan: To pan the map

Zoom in: To Zoom in

Zoom Out: To Zoom out
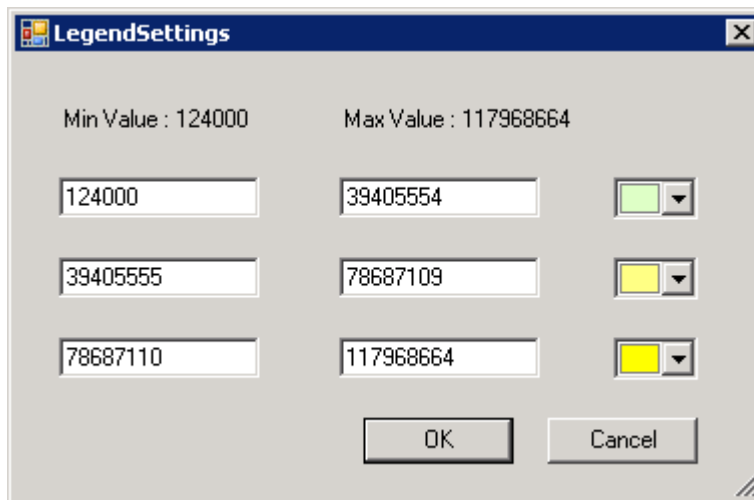
No Background: Enable this option if background is not needed.
Road: It shows Bing map road layers for Exposure Maps.

Satellite: It shows satellite layers for Exposure Maps.

Save Image: To save the map as image.

Legend Settings: To set the legends.

Custom Shapefile: If user wants to overlay a custom shape file over an Exposure map, the shape needs to be projected in **WGS_1984_Web_Mercator** and if the shapefile should display labels it should have a column by name "Value" and the contents of value column will be displayed on the map.

The custom shapefile and label will be colored in red.
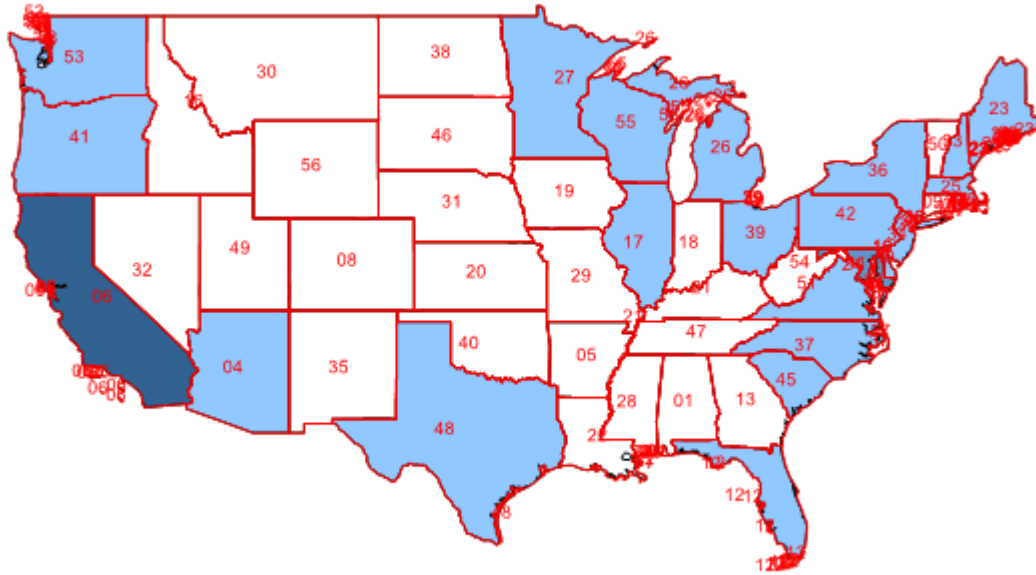
Transparency: To set transparency percentage for maps.

8.3.   PML Report for Terrorism Portfolios

PML Level		Loss Case	Frequency	Units	
Portfolio ▼		PROPERTY+BI ▼	1 Attack in 1 Years. ▼	Actuals ▼	Copy data to Clipboard

Report for INBLR - USReI7037 - Terr_Pro - Pro

* Table values in Actuals

Return Period	GU	Gross	NTY
10000	27,909,017	26,266,599	26,266,599
5000	11,178,291	10,579,612	10,579,612
2000	4,895,796	4,514,613	4,514,613
1000	3,008,947	2,817,711	2,817,711
500	1,508,949	1,467,703	1,467,703
250	835,046	775,149	775,149
100	314,092	281,954	281,954
50	138,123	122,888	122,888
20	22,915	17,833	17,833
10	0	0	0
AAL	23,465	21,188	21,188
STDDEV	700,525	619,431	619,431

PML Report Breakout Options:

PML Level: This option allows the user to obtain graphical results for different PML breakouts. **Portfolio** is the default and the only break out option available.

Loss Case: This option allows the user to obtain graphical results for different loss case analyses. Select the desired **Loss Case** option from the drop-down box.

The available Loss Case options for **Terrorism Property** are **PROPERTY + BI**, **PROPERTY ONLY**, **BI ONLY. BI** stands for **Business Interruption.**

The available Loss Case options for **Terrorism Life** and **Workers Comp** are **DEATH**, **INJURY** and **DEATH+INJURY**.

Frequency: This column displays the frequency of attack choices chosen while creating the analysis.

Units: The Units option allows the user to select how the values are displayed in the analysis results table of the AAL report. The available units are **Actuals**, **Thousands**, **100,000**, **Millions** and **Billions**. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Copy Data to Clipboard: Users can use this option to copy the data from the report and paste it into programs such as Microsoft Excel, Microsoft Word or Notepad.

View Custom DMG Function Info: If the user had imported damage function information while creating the analysis, this button will be enabled above the **Copy Data to Clipboard** button. Users can view the custom damage function information by clicking on this button.

> **Note**: IF_USERDATA database needs to be attached to view the custom damage function information. To learn how to attach a database, see Section 3, "Attaching Database to View Reports"

Note: PML reports for Terrorism portfolios **Life at Work** and **Life at Home** are only available to be viewed in the **Compilation** tool**.**

8.4.   AAL Only Report

AAL refers to Annual Aggregate Loss. If the user had selected **AAL Only** during analysis creation, only AAL reports will be displayed for all breakout options except Portfolio option. AAL will be calculated for GU, Gross, and NTY loss types. AAL Reports do not have maps.

Note: By default PML reports will be displayed for Portfolio breakout option.

Breakout Options:

PML Level: This option allows the user to obtain graphical results for different PML breakouts. For example, if the user selected **County** in the Loss Parameters control form for PML breakouts, **County** would be an option under the **PML Level** drop-down box. Here is a list of all the available PML breakout options:

- Portfolio
- Country
- State
- County
- District
- Municipality
- CRESTA
- Postal Code
- Line of Business
- Coverage Type
- Zone (Primary)
- Zone (Secondary)
- User Defined Coverage

Note: **Account** and **Location** breakouts are not available for selection under the PML breakout options list inside the tool as the data size for these breakouts is huge. However, users can view these breakouts in the detailed reports available in the database.

Loss Case: This option allows the user to obtain graphical results for different loss case analyses. Select the desired **Loss Case** option from the drop-down box.

Note: Loss Case options differ according to peril types.

Units: The Units option allows the user to select how the values are displayed in the analysis results table of the AAL report. The available units are **Actuals**, **Thousands**, **100,000**, **Millions** and **Billions**. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Copy Data to Clipboard: Users can use this option to copy the data from the Current Season Tropical Cyclone report and paste it into programs such as Microsoft Excel, Microsoft Word or Notepad.

View Custom DMG Function Info: If the user had imported damage function information while creating the analysis, this button will be enabled above the **Copy Data to Clipboard** button. Users can view the custom damage function information by clicking on this button.

Note: IF_USERDATA database needs to be attached to view the custom damage function information. To learn how to attach a database, see Section 3, "Attaching Database to View Reports"

8.5.   Scenario Report

If the user had selected any of the **Tropical Cyclone** or **Earthquake Scenario** peril types during analysis creation, Scenario reports will be available for the **Portfolio** breakout option by default. User has the option of selecting results in terms of **Loss Case** and **Units**. Scenario Reports do not have maps.

Scenario Results display Average NetTreaty (AvgNTY) and Standard Deviation NetTreaty (StdDev NTY) against each event.

Breakout Options:

Breakout Options: Scenario Report is generated for **Portfolio** breakout option only, and no other breakout option will be available for selection.

Loss Case: This option allows the user to obtain graphical results for different loss case analyses. Select the desired **Loss Case** option from the drop-down box.

Note: Loss Case options differ according to peril types.

Units: The Units option allows the user to select how the values are displayed in the analysis results table of the Scenario report. The available units are Actuals, Thousands, 100,000, Millions and Billions. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Copy Data to Clipboard: Users can use this option to copy the data from the Current Season Tropical Cyclone report and paste it into programs such as Microsoft Excel, Microsoft Word or Notepad.
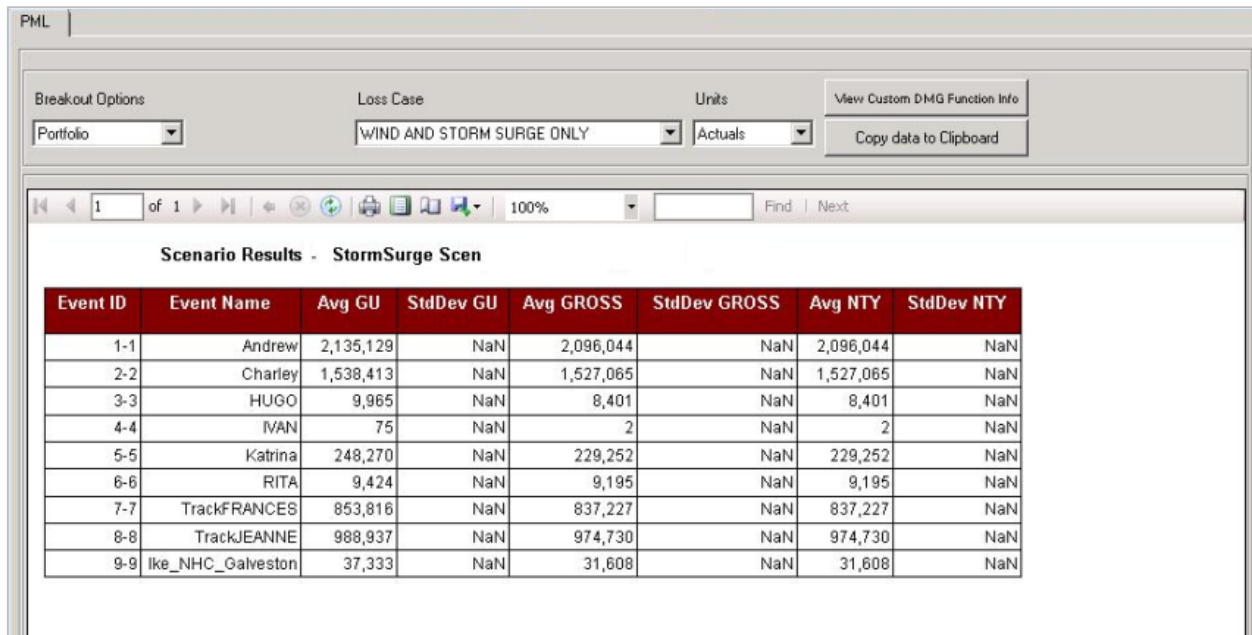
View Custom DMG Function Info: If the user had imported damage function information while creating the analysis, this button will be enabled above the **Copy Data to Clipboard** button. Users can view the custom damage function information by clicking on this button.

> **Note**: IF_USERDATA database needs to be attached to view the custom damage function information. To learn how to attach a database, see Section 3, "Attaching Database to View Reports"

9. View Annual Aggregate

Annual Aggregate reports will be available for all peril types except for Scenario and US Flood peril types. Annual Aggregate will be calculated for GU, Gross, and NTY loss types. Annual Aggregate reports do not have maps.

Annual Aggregate Reports can be accessed in two ways. Select the specific Analysis item in the tree view, go to **Reports** option in the Ribbon Menu and click on the **View Annual Aggregate** sub option.

Second method is to right-click on the Analysis Item in the tree view and select **View Annual Aggregate** from the contextual menu.

Alternatively, users can just select the name of the desired analysis from the Tree View and press F4 key on the computer keyboard to view the annual aggregate reports.
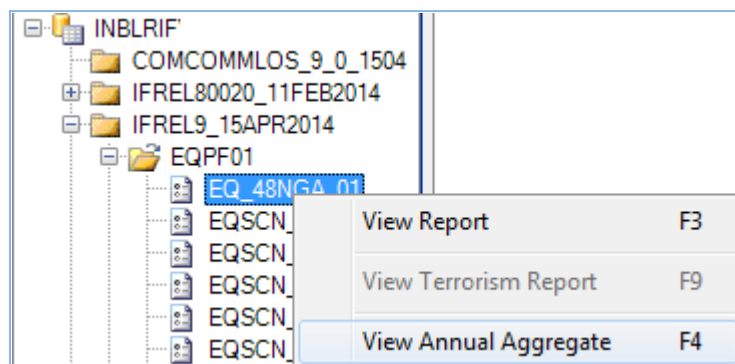
Sample Annual Aggregate Report:
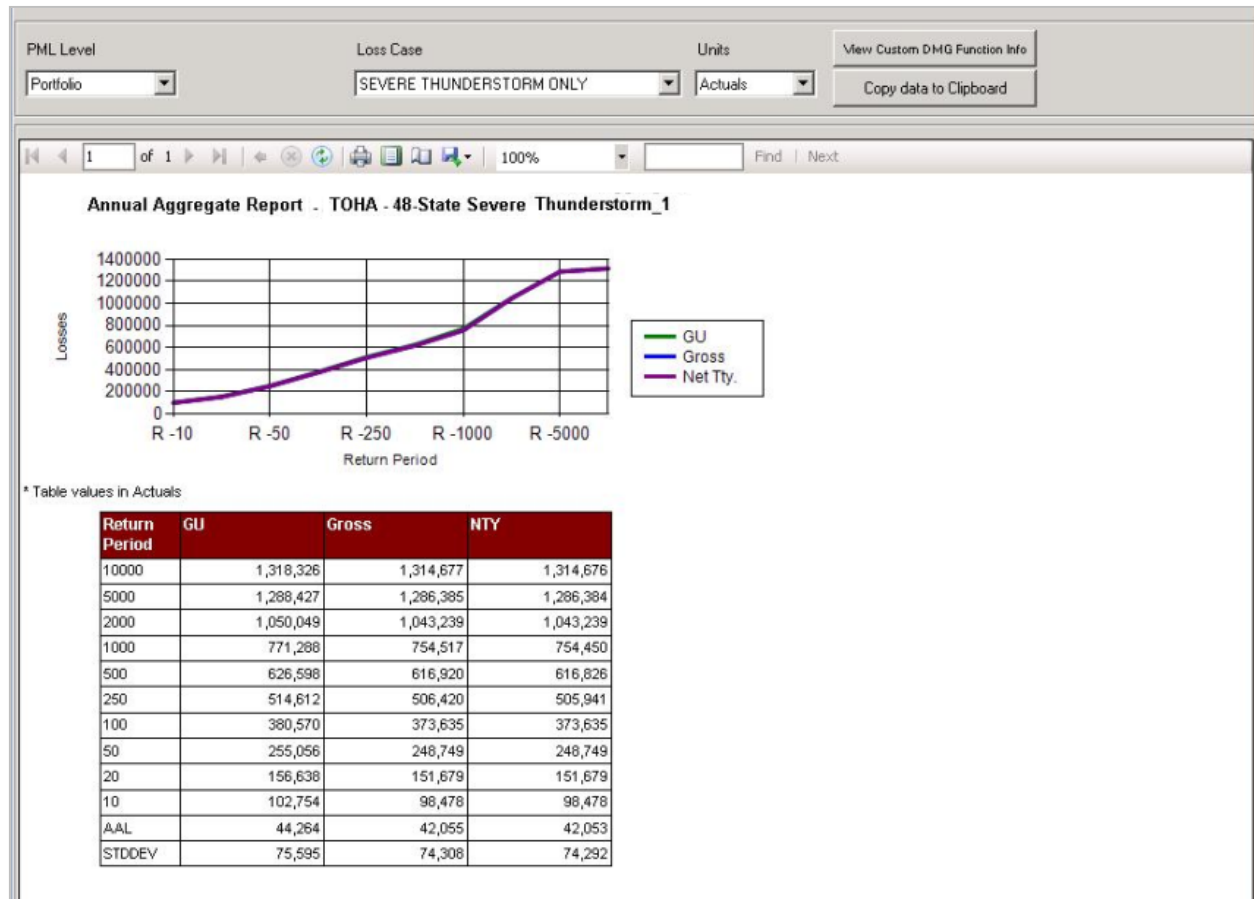
Breakout Options:

> **PML Level**: Annual Aggregate is generated for Portfolio breakout option only, and no other breakout option will be available for selection.

> **Loss Case**: This option allows the user to obtain graphical results for different loss case analyses. Select the desired Loss Case option from the drop-down box.

> **Note**: Loss Case options differ according to peril types.

> **Units**: The Units option allows the user to select how the values are displayed in the analysis results table of the Annual Aggregate report. The available units are Actuals, Thousands, 100,000, Millions and Billions. If the unit selected is greater than the calculated values reported in the analysis results table, the displayed values will be 0.

Copy Data to Clipboard: Users can use this option to copy the data from the report and paste it into programs such as Microsoft Excel, Microsoft Word or Notepad.

View Custom DMG Function Info: If the user had imported damage function information while creating the analysis, this button will be enabled above the **Copy Data to Clipboard** button. Users can view the custom damage function information by clicking on this button.

> **Note**: IF_USERDATA database needs to be attached to view the custom damage function information. To learn how to attach a database, see Section 3, "Attaching Database to View Reports"

10. View Terrorism Report

Terrorism portfolios are of three types; **Property**, **Life** and **Worker's Compensation**. Terrorism reports are not available for Terrorism portfolio types **Life at Work** and **Life at Home** for US Region.

Terrorism reports can be accessed in two ways. Select the specific Analysis item in the tree view, go to **Reports** option in the Ribbon Menu and click on the **View Terrorism Report** sub option.

Second method is to right-click on the Analysis Item in the tree view and select **View Terrorism Report** from the contextual menu.

Alternatively, users can just select the name of the desired analysis from the Tree View and press F9 key on the computer keyboard to view the terrorism reports.
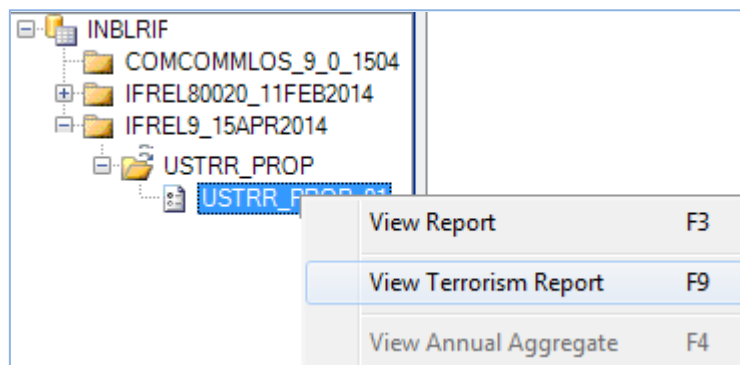
Terrorism report is displayed in four Excel sheets:
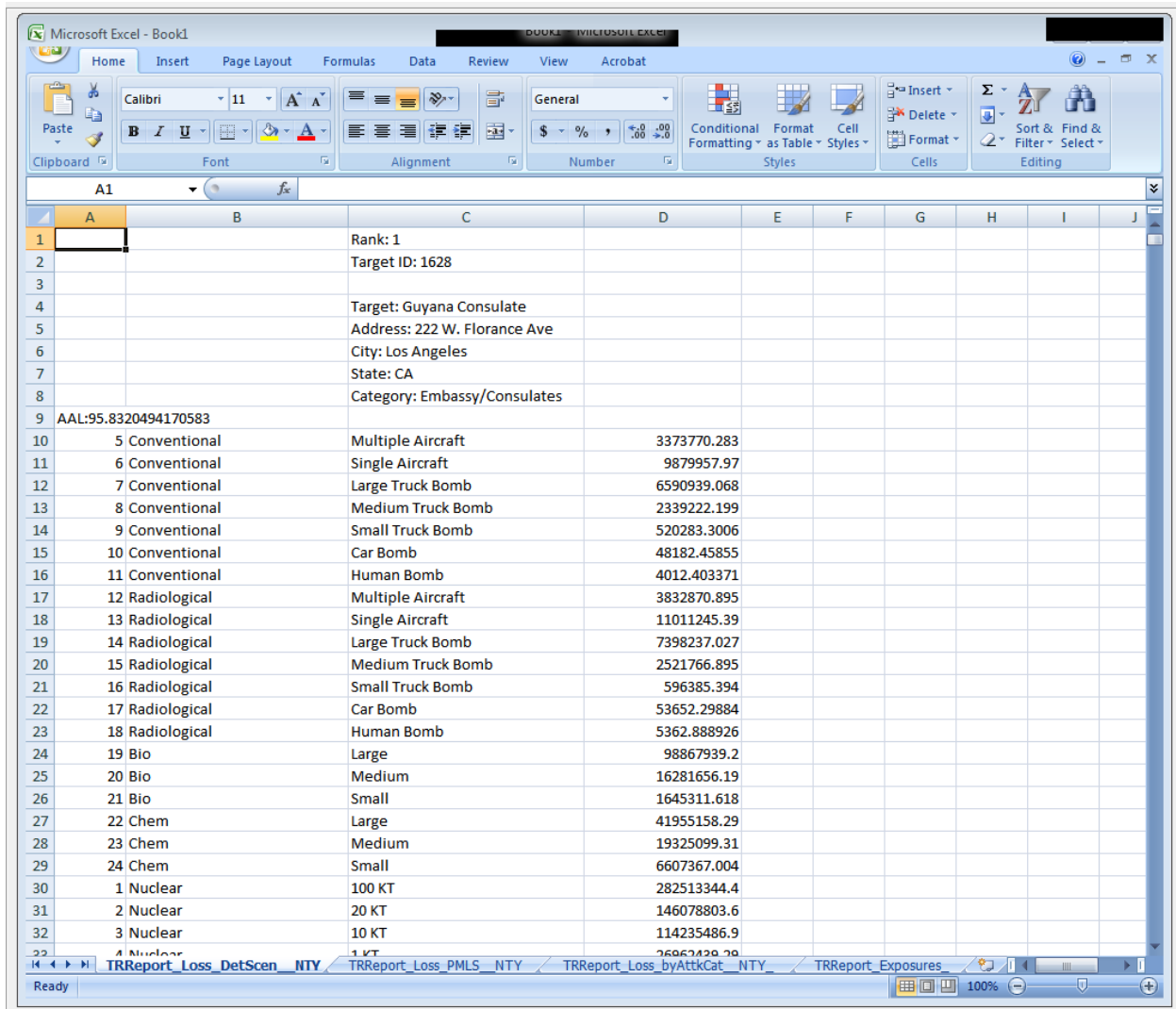
- TRReport_Loss_DetScen_NTY

- TRReport_Loss_PMLS_NTY

- TRReport_Loss_byAttkCat_NTY

- TRReport_Exposures

ELEMENTS produces the terrorism reports for the below loss cases by default.

- Property portfolio = "Property+ BI" as the default loss case

- Life Portfolio = "Death and Injury" as the default loss case

- Workers Comp = "Injury Only" as the default loss case

TRReport_Loss_DetScen_NTY:

	A	B	C	D
1			Rank: 1	
2			Target ID: 1628	
3				
4			Target: Guyana Consulate	
5			Address: 222 W. Florance Ave	
6			City: Los Angeles	
7			State: CA	
8			Category: Embassy/Consulates	
9	AAL:95.8320494170583			
10	5	Conventional	Multiple Aircraft	3373770.283
11	6	Conventional	Single Aircraft	9879957.97
12	7	Conventional	Large Truck Bomb	6590939.068
13	8	Conventional	Medium Truck Bomb	2339222.199
14	9	Conventional	Small Truck Bomb	520283.3006
15	10	Conventional	Car Bomb	48182.45855
16	11	Conventional	Human Bomb	4012.403371
17	12	Radiological	Multiple Aircraft	3832870.895
18	13	Radiological	Single Aircraft	11011245.39
19	14	Radiological	Large Truck Bomb	7398237.027
20	15	Radiological	Medium Truck Bomb	2521766.895
21	16	Radiological	Small Truck Bomb	596385.394
22	17	Radiological	Car Bomb	53652.29884
23	18	Radiological	Human Bomb	5362.888926
24	19	Bio	Large	98867939.2
25	20	Bio	Medium	16281656.19
26	21	Bio	Small	1645311.618
27	22	Chem	Large	41955158.29
28	23	Chem	Medium	19325099.31
29	24	Chem	Small	6607367.004
30	1	Nuclear	100 KT	282513344.4
31	2	Nuclear	20 KT	146078803.6
32	3	Nuclear	10 KT	114235486.9
33	4	Nuclear	1 KT	26962429.29

Sheet tabs: TRReport_Loss_DetScen__NTY / TRReport_Loss_PMLS__NTY / TRReport_Loss_byAttkCat__NTY / TRReport_Exposures_

TRReport_Loss_PMLS_NTY:

	A	B	C	D	E	F	G	H	I
1	FGU	All Attacks							
2		Return Period	Average 1 in 15 Yrs	Average 1 in 10 Yrs	Average 1 in 5 Yrs	Average 1 in 3 Yrs	Average 1 in 2 Yrs	Average 1 in 1 Yrs	Average 2 in 1 Yrs
3		1000	213787.99	318623.3	673750.11	1107040.45	1509048.36	3008946.91	4885088.54
4		500	90154.27	142350.99	318585.55	560342.87	835114.42	1508949.23	3008922.11
5		250	6759.13	58307.78	140935.41	259082.42	423952.04	835046.26	1508750.88
6		100	0	0	24451.41	90135.19	138963.69	314091.6	673744.83
7		50	0	0	0	6513.94	56502.43	138122.74	311476.17
8		20	0	0	0	0	0	22915.36	113328.6
9		10	0	0	0	0	0	0	19468.61
10		Std Dev:	221525.534	313284.4147	404448.4382	495346.1529	700525.2475	990692.3058	1213345.321
11									
12	FGU	Conventional Attacks							
13		Return Period	Average 1 in 15 Yrs	Average 1 in 10 Yrs	Average 1 in 5 Yrs	Average 1 in 3 Yrs	Average 1 in 2 Yrs	Average 1 in 1 Yrs	Average 2 in 1 Yrs
14		1000	149377.17	237183.01	417687.54	579213.4	782995.82	1304737.1	1823224.68
15		500	66768.49	115011.32	237176.14	358346.37	519509.42	782943.32	1304563.57
16		250	0	32755.45	115007.97	196316.7	264884.02	519342.21	782838.27
17		100	0	0	9840.7	66653.66	114997.9	236813.76	417549.22
18		50	0	0	0	0	32519.56	114981.08	235631.5
19		20	0	0	0	0	0	7692.48	87614.26
20		10	0	0	0	0	0	0	6522.34
21		Std Dev:	30221.7134	42739.95697	55177.04691	67577.80556	95569.44913	135155.6111	165531.1415
22									
23	FGU	Non-Conventional Attacks							
24		Return Period	Average 1 in 15 Yrs	Average 1 in 10 Yrs	Average 1 in 5 Yrs	Average 1 in 3 Yrs	Average 1 in 2 Yrs	Average 1 in 1 Yrs	Average 2 in 1 Yrs
25		1000	0	0	122256.01	472753.32	934078.98	2402747.63	4488221.29
26		500	0	0	0	77798.44	219919.79	934062.27	2401836.32
27		250	0	0	0	0	4557.77	219907.58	934028.84
28		100	0	0	0	0	0	0	121913.68
29		50	0	0	0	0	0	0	0
30		20	0	0	0	0	0	0	0
31		10	0	0	0	0	0	0	0
32		Std Dev:	219454.3467	310355.3134	400666.9847	490714.8371	693975.5779	981429.6743	1202000.96

Sheet tabs: TRReport_Loss_DetScen__NTY | **TRReport_Loss_PMLS__NTY** | TRReport_Loss_byAttkCat__NTY_ | TRReport_Exposures_

TRReport_Loss_byAttkCat_NTY:

	A	B	C	D	E	F	G	H	I	J
1		Domestic + Foreign								
2		FGU						FGU		
3		PROPERTY+BI						PROPERTY+BI		
4		Deterministic Scenario by Target Type						Conditional Probability by Target		
5				Average Loss	Maxiumum Loss					Condition Cl
6	26	Private Buildings	Business District	3633885.74	159179783.5		26	Private Bu	Business I	0.020255
7	30	Private Buildings	Financial Institutions	1174052.12	8882479.396		30	Private Bu	Financial I	0.030382
8	27	Private Buildings	Fortune 500 Headqua	3552793.883	166372063.4		27	Private Bu	Fortune 5(	0.101275
9	24	Private Buildings	Major Media Compan	6849276.559	174747635.9		24	Private Bu	Major Mer	0.050637
10	21	Private Buildings	Major Medical Faciliti	2072511.871	173537708		21	Private Bu	Major Me	0.005064
11	1	Private Buildings	Major Skyscrapers (To	11392472.49	150154682.4		1	Private Bu	Major Sky	0.20255
12	2	Private Buildings	Other Skyscrapers (10	4268751.949	154420060.1		2	Private Bu	Other Sky	0.101275
13	37	Private Buildings	Convention Centers	1089557.869	10414578.65		37	Private Bu	Conventic	0.005064
14	10	Utilities	Electric Power Faciliti	1604381.337	100382527.8		10	Utilities	Electric Pc	0.0045
15	11	Utilities	Natural Gas Facilities	844851.8199	16551818.61		11	Utilities	Natural Ga	0.0045
16	8	Utilities	Major Dams	67092.37125	492244.0859		8	Utilities	Major Dan	0.0045
17	3	Utilities	Nuclear Power Plants	35440.3468	201723.509		3	Utilities	Nuclear Pr	0.045
18	29	Utilities	Oil Systems	3947778.753	151270496.7		29	Utilities	Oil Systen	0.019332
19	36	Utilities	Chemical Plants	5655640.269	192804830.7		36	Utilities	Chemical	0.014499
20	5	Public Buildings	Embassy and Consula	6650455.859	302208366.5		5	Public Bui	Embassy a	0.030382
21	25	Public Buildings	Major Federal Buildin	4601503.516	101015081.2		25	Public Bui	Major Fed	0.050637
22	14	Public Buildings	Military Installations	864362.8601	46384547.67		14	Public Bui	Military In	0.025319
23	28	Public Buildings	Major Places of Worsl	8760503.449	263043416.3		28	Public Bui	Major Plac	0.020255
24	32	Public Buildings	Monuments	7950310.104	208150954.5		32	Public Bui	Monumer	0.0009
25	23	Public Buildings	Presidential Offices a	0	0		23	Public Bui	President	0.00045
26	6	Public Buildings	State Capitols	1154417.85	6873300.548		6	Public Bui	State Capi	0.015191
27	13	Recreation	Amusement Venues	3086830.348	190515025.9		13	Recreatio	Amuseme	0.010127
28	31	Recreation	Casinos	163883.4361	1305261.872		31	Recreatio	Casinos	0.020255
29	17	Recreation	Major Malls	1964042.133	177169136.3		17	Recreatio	Major Mal	0.010127
30	22	Recreation	Nightclub Districts	8703852.735	284842777.8		22	Recreatio	Nightclub	0.030382
31	34	Recreation	Outdoor Venues	6763777.344	237272326.8		34	Recreatio	Outdoor V	0.002025
32	4	Recreation	Sports Venues	6772723.067	250852955.2		4	Recreatio	Sports Ver	0.050637
33	16	Trans	Bus Stations	3426285.399	156831710.1		16	Trans	Bus Statio	0.005064

Sheet tabs: TRReport_Loss_DetScen__NTY | TRReport_Loss_PMLS__NTY | **TRReport_Loss_byAttkCat__NTY_** | TRReport_Exposures_

TRReport_Exposures:

FIPS	State	Insureds	Exposure	FIPS	State	Insureds	Exposure	Target ID	Rank	Target	Address	City	State	Insured
	Exposure by Region								Top Insureds Concentrations at Targets					
6	California	0	2.6E+10	10	Delaware	0	447384	1628	1	Guyana Co	222 W. Flc	Los Angel	CA	
					Total	0	2.6E+10	1633	2	St. Vincen	231 W. Ve	Los Angel	CA	
								4893	3	Mount St.	12001 Cha	Los Angel	CA	
								6436	4	West Ang	3045 Cren	Los Angel	CA	
								7580	5	Air Prods.	3305 E 26t	Vernon	CA	
								1646	6	Banglades	4201 Wilsl	Los Angel	CA	
								5458	7	Sky Bar	8440 Suns	Los Angel	CA	
								5459	8	The Come	8433 Suns	Los Angel	CA	
								1654	9	Denmark (	12444 Ver	Studio Cit	CA	
								990	10	Philippine	4322 Wilsl	Los Angel	CA	
								6434	11	Crenshaw	7901 S Ver	Los Angel	CA	
								7392	12	Northrop	980 W Cer	Los Angel	CA	
								6410	13	Muhamm:	8713 S. Ve	Los Angel	CA	
								1018	14	Kenya Cor	9150 Wilsl	Beverly H	CA	
								6435	15	First Afric	2270 S Har	Los Angel	CA	
								7271	16	Hollywoo	2301 N Hig	Los Angel	CA	
								1035	17	Thailand C	611 N Larc	Los Angel	CA	
								6642	18	Bais Naftc	221 S La Bı	Los Angel	CA	
								6649	19	Temple Is	7300 Holly	Los Angel	CA	
								1160	20	Armenia C	50 N La Cie	Los Angel	CA	
								6420	21	Islamic So	20 Jones S	San Franci	CA	
								5451	22	Forty Deu	5574 Melr	Los Angel	CA	
								7583	23	Custom Al	2805 Los F	Lynwood	CA	
								4654	24	Beverly Ce	8500 Beve	Los Angel	CA	
								7825	25	Internatio	233 Kansa	El Segund	CA	

Sheet tabs: TRReport_Loss_DetScen__NTY | TRReport_Loss_PMLS__NTY | TRReport_Loss_byAttkCat__NTY_ | **TRReport_Exposures**

11. Exporting Exposure, PML and Annual Aggregate Reports to Document

Exposure and PML reports can be exported as a Word document, as an Excel sheet and as a PDF. In the screen snapshot given below Export button has been marked for easy identification. Click on this button in your Exposure/PML tab, select either Excel or PDF option from the dropdown list, enter a File Name, select the location to save the report and click on the **Save** button.

Note: Results are not stored directly in the any table in the database for Scenario Report.

ELEMENTS Portfolio Summary

Location Summary

	Total
# of Records	174
Location Deductible Amount	1,430,200
Location Limit	295,564,111
# of Records with Non-Zero LOC Limit	0

GEO Summary

	Total
# of Records	174
# of Unique ZipCode(s)	135

Location Coverage Summary

	Total
# of Records	0
Location Coverage Value (TIV)	295,564,111
Coverage Deduction Amount	0
Coverage Limit	295,564,111
LCV for Cvg. Type Structure	28,014,647
LCV for Cvg. Type Content	238,967,018
LCV for Cvg. Type TE	28,582,446

Policy Summary

	Total
# of Records	2
Blanket Deductible Amount	0
Blanket Limit	0

Policy Coverage Summary

	Total
# of Records	522
Policy Coverage Deductible Amount	0
Policy Coverage Limit	0

Reinsurance Summary

	Total
# of Records	0
RCH Limit	0