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DataRaker
Configuration Guide
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Chapter 1

Typographical Conventions

The following represents the styles applied to this guide.

Convention	Meaning
Bold	Bold text indicates a user interface element. Examples include window/page titles, keywords, and interactive elements such as menus, buttons, etc.
Hyperlink	A link to another section of the document or to an external document or website.
Add this text	Indicates something the user should enter in a field. Typically rendered as constant width font with a shaded background.
<i>varname</i>	Constant width italic indicates a user interface choice.
<code>constant width type in a shaded block.</code>	Used for code examples.
<code>constant width</code>	Example code in the midst of regular text.
NOTE: Note	A note providing a tip, suggestion, or a general information.
IMPORTANT: Note	A note with additional important information.
CAUTION: Note	A note of caution.

Chapter 2

DataRaker Overview

DataRaker is a SaaS offering (Software as a Service, aka Cloud Services) that provides analytical insight into the most critical business areas of a utility. DataRaker unlocks smart grid data and turns it into actionable insight for electric, gas, and water utilities.

The DataRaker platform has unmatched depth and breadth of proven support for utilities' most critical business areas. The rapidly expanding availability of smart grid data allows for powerful applications that extend far beyond meter data analytics. DataRaker provides Utilities with quick answers to most pressing questions regarding Meter to Bill, Revenue Protection, Distribution Planning, Demand Response, and Energy Efficiency.

Utilities are also faced with an evolving industry, fast growing Smart meter deployment, aging infrastructure, dispersed energy generation, and increasing expectations from their customers. Adapting to these factors with existing resources and systems likely requires significant modification to the current business model. The DataRaker application offers utilities a complete toolkit to gain insight into critical business areas and provides actionable results to address, improve, or mitigate a situation. DataRaker renders high-level snapshots of the meter install base's health, exceptions that are available for review, and detailed information about a specific attribute (such as, a meter, transformer, rate, or read route). DataRaker also supports customized analytics that are built to meet distinct customer needs.

This documentation describes the features and functionality of the DataRaker system.

Chapter 3

Configuration Overview

Some components in the DataRaker user interface are configured by editing XML that is accessible from the **Administer Configuration** page. The component configuration determines the options and views available to the user based on their group permissions and the role that is selected in the **Role** list in the **Global Filters** panel.

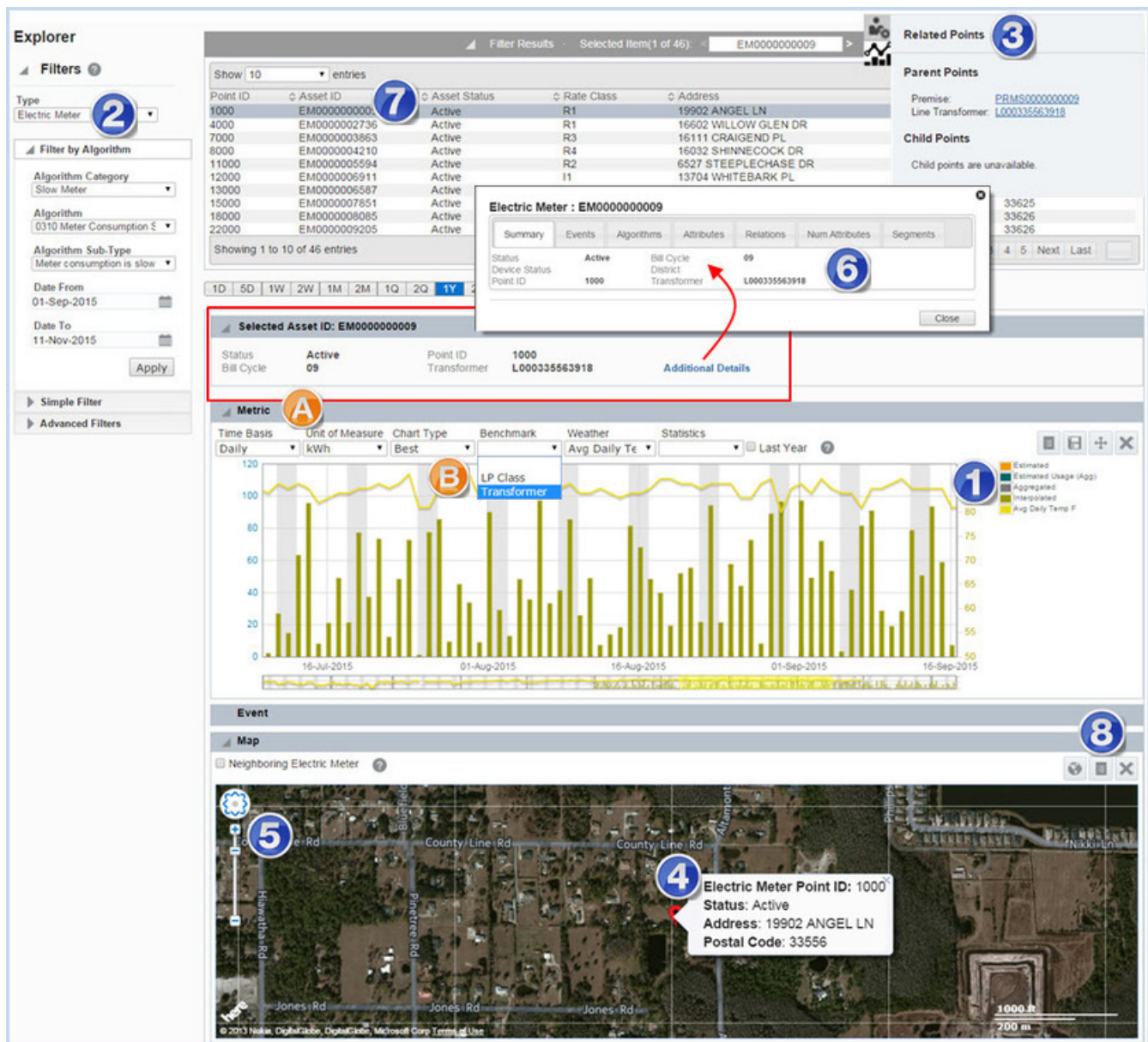
User Types and Roles

User permissions are based on the group to which they are assigned. There are two primary permission categories: non-power user and power user. Business class users are typically assigned to a non-power user group, which provides them with a streamlined user interface having only those features that they would need. More technical users are assigned to a power user group and given access to all user interface features.

NOTE: Only power users have access to view or edit configuration options.

Illustrated Configuration Settings

The **Administer Configuration** settings allow you to define certain user interface views and options. Each configuration option has a specific name that the user interface recognizes and applies based on the role and point type selected.



The following configuration settings are available:

Component Configured	Configuration Name	Description
1. Chart Colors	CHART_SETTING	Chart color settings configuration defines coloring for chart data.
2. Search Filter	FILTER_CONFIG	Defines the search options for each type.
3. Related Data	GOTO_INFO	The related data configuration defines the related types that should be displayed for the selected type (e.g., an electric meter could have a line transformer and a premise as related points).
4. Map Point Information Pop-up	MAPS_INFO_POPUP	Settings for the point information pop-up balloons in the map.
5. Map Rendering	MAPS_RENDER_AS	Settings for the map based on role and point type.
6. Point Detail Information	POINT_INFO	Point information configuration defines the layout and data that appears in the point information tables.
7. Configuring Point Search Columns	POINT_SEARCH_COLUMN	Settings for the data columns that appear in the Explorer Filter Results grid.

Component Configured	Configuration Name	Description
8. Chart Panels (Rakes)	RAKE	<p>Rake configuration defines the following: Chart labels on the panel title bar [A]. Which options are available in the chart panel drop-down lists [B]. Which chart panels are available based on the (user) Role and the (point) Type [C]. Which rakes open by default.</p> <p>NOTE: RAKE configuration determines what panels appear, but the appearance and behavior of some panels (e.g., Text) is not configurable. See Configuring Chart Panels (Rakes) for details.</p>

NOTE:

The **Explorer** page is accessed by selecting **Explore > Point > Data**. See the **Explore** section in the *OracleDataRaker Users Guide* for information.

Chapter 4

Configuring Color Settings

The data visualization charts can be customized by color and information displayed for specific roles and fact types (please know that each role must have its color setting configured individually.)

This section describes the options available to configure how facts, events, metrics, segments, and highlight colors appear within charts.

Creating CHART_SETTINGS Configuration

Chart coloring configuration is defined in the CHART_SETTINGS configuration setting.

Chart coloring is configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the CHART_SETTINGS configuration. If it already exists, skip to *Accessing CHART_SETTING XML*.
-

Click **Add** .

The **Create Configuration** dialog will open.

4. Complete the following fields:

- a) **Config Name:** select CHART_SETTINGS from the drop-down menu.
The **Config Name** list only contains the configuration settings that have not yet been defined.
- b) **Config Description:** enter a description; for example, "CHART_SETTINGS configuration for the Billing Role."
- c) **Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring CHART_SETTINGS XML](#) for more information about the configuration options.
- d) **Status:** select **Active**.

5. Click **Save**.

Accessing CHART_SETTING XML

Chart settings may be configured from the **Administer Configuration** page. Only administrative users can change configuration settings.

Each Role has its own configuration.

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **CHART_SETTING**
3. Click **Get Config**.

The configuration will be displayed in a data table.

Table 1: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Config** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.

Column Name	Description
	<ul style="list-style-type: none"> • Config Name: the name of the selected configuration. • Config Description: the description for the configuration. • Config XML: a link to the XML for the configuration; the XML may be viewed or edited by following the link. • Status: states whether the configuration is currently active or inactive. • Create Time: the date and time when the configuration was created. • Update Time: the date and time when the configuration was last updated. <p>Buttons:</p> <ul style="list-style-type: none"> • Edit: changes the dialog to the Manage Config view, which allows you to change the description and status. • Cancel: closes the View Config dialog. <p>Edit: opens the Manage Configuration dialog, which allows you to change the description and status.</p> <p>XML: opens the Config XML dialog.</p>

4. In the data table row, click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring CHART_SETTINGS XML

When configuring chart settings, it is important to note that chart configuration uses a default overwrite methodology for specific fact based colors. Therefore, if no color is given for a specific fact name, it will use a default color. Both default and non-default colors are defined in the same configuration file. Key colors have comments to the right of them separated by the “#” symbol. It is advised to leave the comments in and only alter the color codes themselves when making changes. The colors are defined using an RBG (Red/Blue/Green) color system.

NOTE: RBG pallet color selector tools are widely available online or through typical desktop applications such as Paint. These applications provide the RGB codes for selected colors.

code block	description
<pre> COLORS: factBasedColors: Aggregated: "rgb(0, 114, 169)" # blue Derived: "rgb(120, 120, 120)" # grey Estimated: "rgb(120, 120, 90)" # greyish green Interpolated: "rgb(238, 154, 0)" # orange </pre>	<p>Beginning of the COLORS: definition.</p> <p>factBasedColors: This section controls the specific fact color definitions. These are <i>optional</i>, and will overwrite the default colors for the facts. In the above example, any fact containing Aggregated will be blue. If it is desired to have consistent colors, factBasedColors should be given colors for each fact name following the example.</p>
<pre> eventColors: - "rgb(0, 0, 102)" - "rgb(0, 102, 0)" - "rgb(102, 0, 0)" - "rgb(32, 32, 32)" - "rgb(153, 0, 76)" - "rgb(153, 153, 0)" - "rgb(0, 102, 102)" </pre>	<p>eventColors: This section is relevant for events, relations, and segments in the Fact Data Viewer, as well as flag panels in the Explorer page. It is advised to keep many colors defined in this section, because a chart will often contain many different events at once, which requires a large collection of colors. These are listed linearly along the chart's Y axis and legend, meaning that the order is maintained from top to bottom of the configuration list as it is within the chart itself. If</p>

red is defined first, the first event type on the chart will be red.

```
metricColors:  
- "rgb(236, 219, 24)" # yellow for chart (weather)  
- "rgb(181, 168, 24)" # yellow for Y labels (weather axis)  
- "rgb(135, 206, 250)" # blue for last year  
- "rgb(0, 114, 169)" # color1 for chart  
- "rgb(120, 120, 120)" # alt color: color2 for chart  
- "rgb(238, 154, 0)" # alt color: color3 for chart  
- "rgb(120, 120, 90)" # alt color: color4 for chart  
- "rgb(238, 130, 0)" # alt color: color5 for chart  
- "rgb(120, 90, 120)" # alt color: color6 for chart  
- "rgb(215, 154, 0)" # alt color: color7 for chart  
- "rgb(77, 77, 77)" # MIN color  
- "rgb(77, 77, 77)" # MAX color  
- "rgb(77, 77, 77)" # MEDIAN color  
- "rgb(77, 77, 77)" # AVERAGE color  
- "rgb(190, 42, 42)" # 10th percentile color  
- "rgb(0, 238, 0)" # 90th percentile color  
- "rgb(190, 42, 42)" # low std dev color  
- "rgb(0, 238, 0)" # high std dev color
```

metricColors: This section contains the 'default' colors for metric based charts. Examples of metric based charts include the Benchmark and Metric panels, as well as all Metric type views in the Fact Data Viewer. It is important to note that the length of this list should remain constant. **Do not add or remove from this list**, only make changes to the colors themselves. The order of this list should not change. To adjust the colors, follow the comments to the right following the "#" symbol and change the RGB codes as desired. The second half of these are for chart Aggregates options like min, max, std dev, etc. The color of these aggregate lines is defined here.

```
bottomChartColors:  
- "rgb(9, 129, 154)" # light blue color for bottom chart series 1  
- "rgb(178, 34, 34)" # red color for bottom chart series 2  
- "rgb(0, 255, 127)" # green color for bottom chart series 3  
- "rgb(147, 112, 219)" # purple color for bottom chart series 4  
- "rgb(0, 0, 0)" # black for power outs
```

bottomChartColors: This is specific to the Benchmark and Load Profile panels, as these panels have 2 charts (top and bottom). Additions and removals should typically not be necessary. To adjust the colors of the bars, simply change the RGB color codes for series 1-4. In the above example, element #5 is for power outs, which is specific to Benchmark. Items 1-4 are for bars, and #5 is for the event that can appear in the bottom chart.

```
segmentColors:  
- "rgb(0, 238, 0)"  
- "rgb(190, 42, 42)"  
- "rgb(0, 238, 0)"  
- "rgb(190, 42, 42)"
```

segmentColors: This section defines the colors for segments within many different chart types. These follow the same ordering rules as eventColors, meaning that whatever appears first in the list will appear first on the chart. To make changes, simply change the RGB color codes.

```
highlightColor:  
- "#FFFF00" # yellow color when dragging on a chart
```

highlightColor: Charts can be zoomed into by dragging on the chart face. The color that 'highlights' during this dragging action can be customized using this configuration line. In the above example it is yellow, but can be changed to any RGB color code.

Chapter 5

Configuring Search Filters

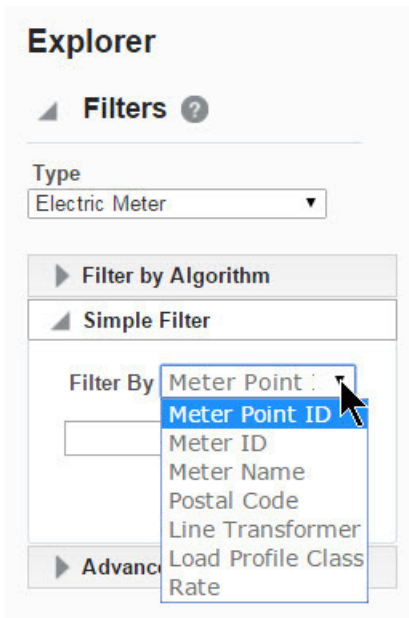
Filters configuration controls the drop-down list options for a standard search.

Search filter drop-down list options are defined in the *FILTER_CONFIG* configuration. Each role has its own filter configuration, which defines the filter options by point type. The configuration allows the user to search by point type facts and related points.

NOTE: It is not possible to search by attributes such as address or customer name.

For example, an electric meter search could have the following options:

- Electric Meter (Point) ID
- Electric Meter Lookup
- Electric Meter Tag
- Electric Meter Name
- Line Transformer
- Bill Cycle



When configuring the point types and options, it is important to remember to make the labels business-related and easy for the end-user to understand; for example, the `Point ID` is commonly mapped to the Meter Tag or Badge Number, `ID` is typically the system-assigned identifier, and `Name` is commonly the utility's name for that entity. Finally, it is also possible to configure the entity relations that are available; for example, it is possible to make `Transformer` and `Bill Cycle` relations to a meter instead of information directly associated to the meter. See [Configuring Related Data](#) for more information about configuring relationships.

Search queries the database point table, which allows you to search for a point and facts that are related to it. Parent relationships are not available in the point table, which precludes a search for a parent object (such as, account).

NOTE: The additional fact filters are not configurable.

Creating FILTER_CONFIG Configuration

Standard search filters are configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the `FILTER_CONFIG` configuration. If it already exists, skip to [Accessing FILTER_CONFIG XML](#).
-

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:

a) **Config Name**: select FILTER_CONFIG from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

b) **Config Description**: enter a description; for example, "FILTER_CONFIG configuration for the Billing Role."

c) **Config XML**: enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring FILTER_CONFIG XML](#) for more information about the configuration options.

d) **Status**: select **Active**, if necessary.

5. Click **Save**.

Accessing FILTER_CONFIG XML

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **FILTER_CONFIG**

3. Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 2: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.

Column Name	Description
	<ul style="list-style-type: none"> • Config Description: the description for the configuration. • Config XML: a link to the XML for the configuration; the XML may be viewed or edited by following the link. • Status: states whether the configuration is currently active or inactive. • Create Time: the date and time when the configuration was created. • Update Time: the date and time when the configuration was last updated. <p>Buttons:</p> <ul style="list-style-type: none"> • Edit: changes the dialog to the Manage Configuration view, which allows you to change the description and status. • Cancel: closes the View Configuration dialog. <p>Edit: opens the Manage Configuration dialog, which allows you to change the description and status.</p> <p>XML: opens the Config XML dialog.</p>

4. Click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring FILTER_CONFIG XML

The Search filters configuration XML defines the options that will appear on the drop-down list in **Standard** search tab.

Configuration Code Structure

The configuration code has the following general structure:

```
PointTypeCode1
configuration settings...

PointTypeCode2
configuration settings...
```

code block

```
EM:
- table: POINT
  label: 'Electric Meter Point ID'
  column: point_id
- table: POINT
  label: 'Electric Meter ID'
  column: point_tag
- table: POINT
  label: 'Electric Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE
- table: FACT
  label: 'Line Transformer'
  column: fact_lookup|LINE_TX
```

description

EM: search options provides search by:

- Electric Meter Point ID
- Electric Meter ID
- Electric Meter Name
- Bill Cycle
- Line Transformer

NOTE:

When the table is **FACT**, specify **column:** by `fact_lookup | LOOKUP_VALUE`

code block**description**

When the table is POINT, specify column: by
column_name

GM:

```
- table: POINT
  label: 'Gas Meter Point ID'
  column: point_id
- table: POINT
  label: 'Gas Meter ID'
  column: point_tag
- table: POINT
  label: 'Gas Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE
```

GM: search options provides search by:

- Gas Meter Point ID
- Gas Meter ID
- Gas Meter Name
- Bill Cycle

WM:

```
- table: POINT
  label: 'Water Meter Point ID'
  column: point_id
- table: POINT
  label: 'Water Meter ID'
  column: point_tag
- table: POINT
  label: 'Water Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE
```

WM: search options provides search by:

- Water Meter Point ID
- Water Meter ID
- Water Meter Name
- Bill Cycle

LINE_TX:

```
- table: POINT
  label: 'Line Transformer Point ID'
  column: point_id
- table: POINT
  label: 'Line Transformer ID'
  column: point_tag
- table: POINT
  label: 'Line Transformer Name'
  column: point_name
```

LINE_TX: search options provides search by:

- Line Transformer Point ID
- Line Transformer ID
- Line Transformer Name

FEEDER:

```
- table: POINT
  label: 'Feeder Point ID'
  column: point_id
- table: POINT
  label: 'Feeder ID'
  column: point_tag
- table: POINT
  label: 'Feeder Name'
  column: point_name
```

FEEDER: search options provides search by:

- Feeder Point ID
- Feeder ID
- Feeder Name

BILL_CYCLE:

```
- table: POINT
  label: 'Bill Cycle Point ID'
  column: point_id
- table: POINT
  label: 'Bill Cycle ID'
  column: point_tag
- table: POINT
  label: 'Bill Cycle Name'
  column: point_name
```

BILL_CYCLE: search options provides search by:

- Bill Cycle Point ID
- Bill Cycle ID
- Bill Cycle Name

LP_CLASS:

```
- table: POINT
  label: 'Load Profile Class Point ID'
  column: point_id
- table: POINT
  label: 'Load Profile Class ID'
```

LP_CLASS: search options provides search by:

- Load Profile Class Point ID
- Load Profile Class ID

code block	description
<pre> column: point_tag - table: POINT label: 'Load Profile Class Name' column: point_name </pre>	<ul style="list-style-type: none"> • Load Profile Class Name
<pre> PRMS: - table: POINT label: 'Premise Point ID' column: point_id - table: POINT label: 'Premise ID' column: point_tag - table: POINT label: 'Premise Name' column: point_name </pre>	<p>PRMS: search options provides search by:</p> <ul style="list-style-type: none"> • Premise Point ID • Premise ID • Premise Name
<pre> ZIP: - table: POINT label: 'Zip Code Point ID' column: point_id - table: POINT label: 'Zip Code ID' column: point_tag - table: POINT label: 'Zip Code Name' column: point_name </pre>	<p>ZIP: search options provides search by:</p> <ul style="list-style-type: none"> • Zip Code Point ID • Zip Code ID • Zip Code Name
<pre> RATE: - table: POINT label: 'Rate Point ID' column: point_id - table: POINT label: 'Rate ID' column: point_tag - table: POINT label: 'Rate Name' column: point_name </pre>	<p>RATE: search options provides search by:</p> <ul style="list-style-type: none"> • Rate Point ID • Rate ID • Rate Name

Chapter 6

Configuring Related Data

The **GoTo: Related Points** component provides links, in the *drawer menu*, to points types related to the point being analyzed in the main pane. For example, if the point type in the main pane is an electric meter, the related points could be a Premise, a Line Transformer, etc. depending on the data and the configuration.

Creating GOTO_INFO Configuration

The **GoTo: Related Points** configuration is defined in the GOTO_INFO configuration setting.

The page is configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the GOTO_INFO configuration. If it already exists, skip to *Accessing GOTO_INFO XML*.
-

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:
 - a) **Config Name:** select GOTO_INFO from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

- b) **Config Description:** enter a description; for example, "GOTO_INFO configuration for the Billing Role."
- c) **Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring GOTO_INFO XML](#) for more information about the configuration options.
- d) **Status:** select **Active**.

5. Click **Save**.

Accessing GOTO_INFO XML

GoTo links are configured from the **Administer Configuration** page. Only administrative users can change configuration settings.

Each Role has its own configuration.

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **GOTO_INFO**
3. Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 3: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.

Column Name	Description
	<ul style="list-style-type: none"> Config Description: the description for the configuration. Config XML: a link to the XML for the configuration; the XML may be viewed or edited by following the link. Status: states whether the configuration is currently active or inactive. Create Time: the date and time when the configuration was created. Update Time: the date and time when the configuration was last updated.
	<p>Buttons:</p> <ul style="list-style-type: none"> Edit: changes the dialog to the Manage Configuration view, which allows you to change the description and status. Cancel: closes the View Configuration dialog.
	<p>Edit: opens the Manage Configuration dialog, which allows you to change the description and status.</p>
	<p>XML: opens the Config XML dialog.</p>

4. In the data table row, click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring GOTO_INFO XML

Configuring GoTo links allows you to define the relationships between point type codes that can be used to quickly jump to related point information; such as parent or child points through the *Drawer Menu*.

Like the other configurations, these are based on point type codes. The point type codes are broken into separate sections for parent and children points. These will create links to the parent or child of the point currently being viewed. The format is:

Point Type Code|Fact Type Code|Fact Lookup: Pretty Name.

code block	description
<pre>PARENT_POINTS: EM: - EM RELATION PRMS: 'Premise' - EM RELATION LINE_TX: 'Transformer' GM: - GM RELATION PRMS: 'Premise' - GM RELATION ACCNT: 'Account' LINE_TX: - LINE_TX RELATION FEEDER: 'Feeder'</pre>	<p>Any defined relationship can be added. Therefore, if you wish to have a link to the meter's parent City, you would add the following:</p> <pre>PARENT_POINTS: - EM RELATION CITY: 'City'</pre> <p>The Explorer page would display links to the premise, line transformer, and city when viewing an electric meter.</p>

code block**description**

```
PRMS:  
- PRMS|RELATION|ZIP: 'Postal Code'
```

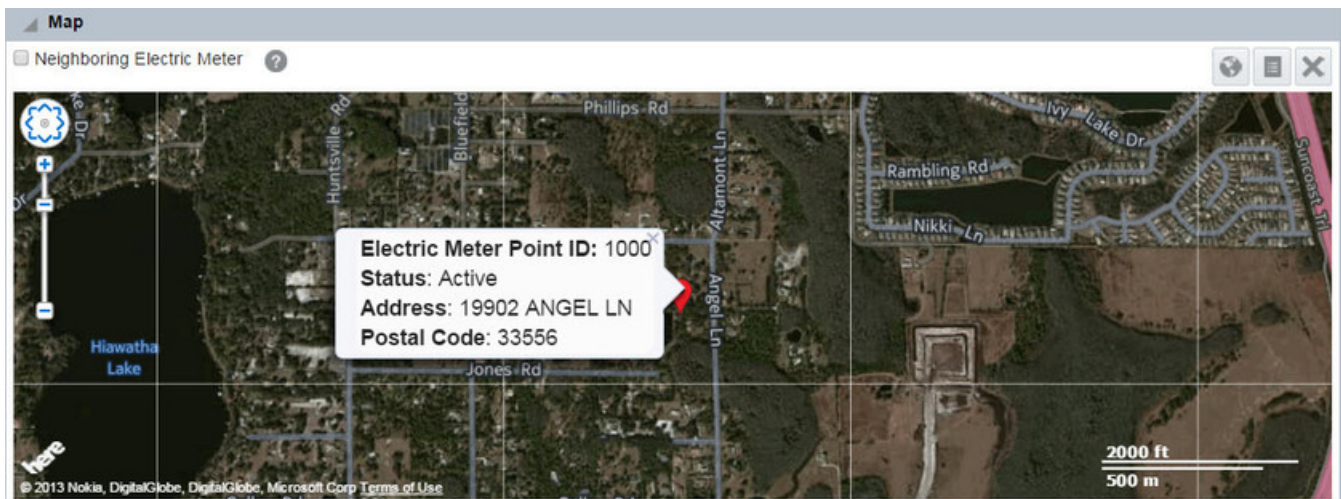
```
CHILDREN_POINTS:  
LINE_TX:  
- EM|RELATION|LINE_TX: 'Electric Meter'
```

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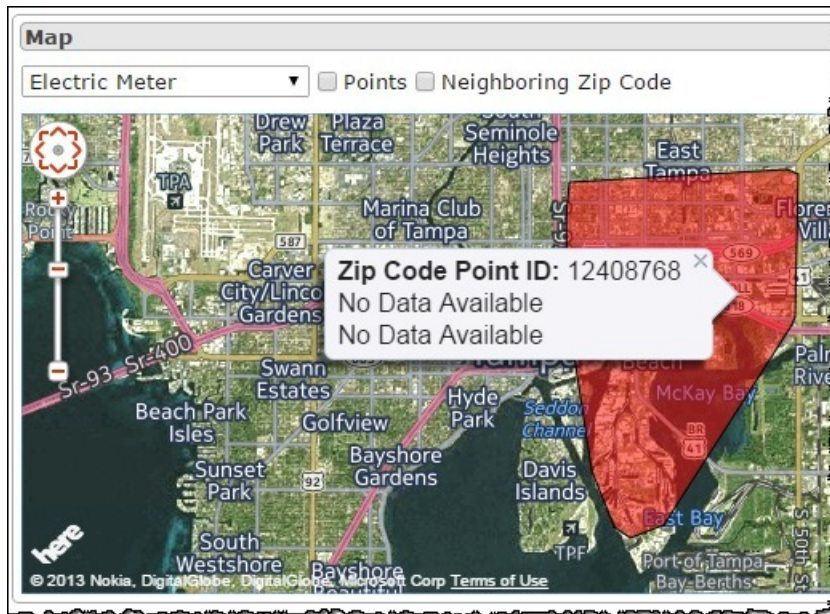
Configuring Map Popup Information

Map Popup Information provides configuration for the balloons that open when the object of focus is clicked in the map. The configuration consists of the balloon background color, text color, border color, and what data is displayed.

NOTE: The table view will also display the same information as configured in the pop-up.



Only fact data can be displayed in the popup. For example, in contrast to the electric meter above, if a zip code did not have fact data, it could not display any data and the Point ID would be displayed along with No Data Available messages.



Creating MAPS_INFO_POPUP Configuration

Point type code information pop-ups are configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the MAPS_INFO_POPUP configuration. If it already exists, skip to [Accessing MAPS_INFO_POPUP XML](#).

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:

a) Config Name: select MAPS_RENDER_AS from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

b) Config Description: enter a description; for example: "MAPS_RENDER_AS configuration for the Billing Role."

c) Config XML: enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring MAPS_INFO_POPUP XML](#) for more information about the configuration options.

d) **Status**: select **Active**.

5. Click **Save**.

Accessing MAPS_INFO_POPUP XML

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **MAPS_INFO_POPUP**.

3. Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 4: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Config** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.
- **Config Description:** the description for the configuration.
- **Config XML:** a link to the XML for the configuration; the XML may be viewed or edited by following the link.
- **Status:** states whether the configuration is currently active or inactive.
- **Create Time:** the date and time when the configuration was created.
- **Update Time:** the date and time when the configuration was last updated.

Buttons:

- **Edit:** changes the dialog to the **Manage Config** view, which allows you to change the description and status.
- **Cancel:** closes the **View Config** dialog.

Column Name	Description
	Edit : opens the Manage Configuration dialog, which allows you to change the description and status.
	XML : opens the Config XML dialog.

4. Click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring MAPS_INFO_POPUP XML

Configuration Code Structure

The configuration code has the following general structure:

code block	description
<pre> PointTypeCode1 GENERAL_SETTINGS: background_color: text_color: font: POINT_INFO: PTC RELATION RELATION_NAME: PTC LABEL LABEL_NAME: PointTypeCode2 configuration settings... </pre>	<p>Each Point Type Code configuration includes five groupings of options:</p> <ul style="list-style-type: none"> • General Settings <ul style="list-style-type: none"> • <code>background_color</code>: popup background color. The color can be defined by a hex color code or a standard color name. • <code>text_color</code>: popup text color. color can be defined by a hex color code or a standard color name. • <code>font</code>: size and font face for the popup text. • Point Information <ul style="list-style-type: none"> • Relations: point type relations, as applicable. • Label: point type label, as applicable

code block	description
<pre> GM: GENERAL_SETTINGS: background_color: '#ffffff' text_color: '#000000' font: '14px arial' POINT_INFO: STATUS: FTC: 'RELATION' Label: "Status" ADDRESS1: FTC: 'ATTRIBUTE' Label: "Address" ZIP: FTC: 'RELATION' Label: 'Postal Code' BILL_CYCLE: FTC: 'RELATION' </pre>	<p>GM: gas meter popup dialog display instructions.</p>

code block	description
<pre> Label: "Bill Cycle" LINE_TX: GENERAL_SETTINGS: popup_background_color: 'light blue' popup_text_color: 'black' popup_font: '14px arial' POINT_INFO: CNT_DAILY_KWH_USAGE_AGG_TEST: Label: 'Meters per Transformer' FTC: 'NUM_ATTR' FEEDER: FTC: 'RELATION' Label: "Feeder" PHASE: FTC: 'ATTRIBUTE' Label: "Phase" </pre>	LINE_TX: line transformer popup dialog display instructions.
<pre> EM: GENERAL_SETTINGS: popup_background_color: 'light blue' popup_text_color: 'black' popup_font: '14px arial' POINT_INFO: STATUS: FTC: 'RELATION' Label: "Status" ADDRESS1: FTC: 'ATTRIBUTE' Label: "Address" ZIP: FTC: 'RELATION' Label: 'Postal Code' </pre>	EM: electric meter popup dialog display instructions.
<pre> BILL_CYCLE: GENERAL_SETTINGS: background_color: '#ffffff' text_color: '#000000' font: '14px arial' POINT_INFO: LINE_TX: FTC: 'RELATION' Label: "Transformer" </pre>	BILL_CYCLE: electric popup dialog display instructions.
<pre> ZIP: GENERAL_SETTINGS: background_color: '#ffffff' text_color: '#000000' font: '14px arial' POINT_INFO: ZIP RELATION LINE_TX: "Line Transformer" ZIP RELATION ZIP: "Zip Code" </pre>	ZIP: zip code popup dialog display instructions.
<pre> PRMS: GENERAL_SETTINGS: background_color: '#ffffff' text_color: '#000000' font: '14px arial' POINT_INFO: STD_PLACE: FTC: 'RELATION' Label: "STD_PLACE" </pre>	PRMS: premise popup dialog display instructions.

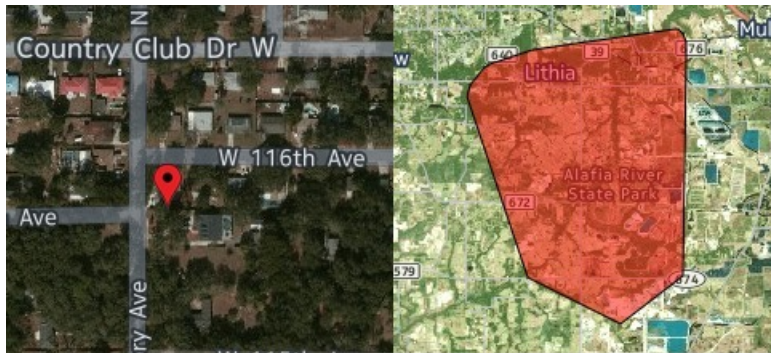
Chapter 8

Configuring Map Rendering

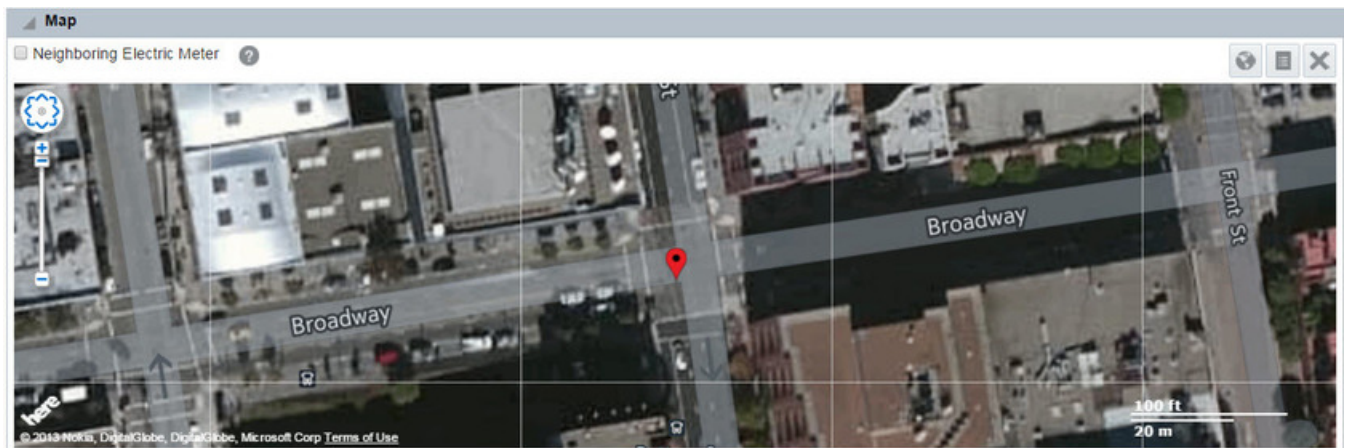
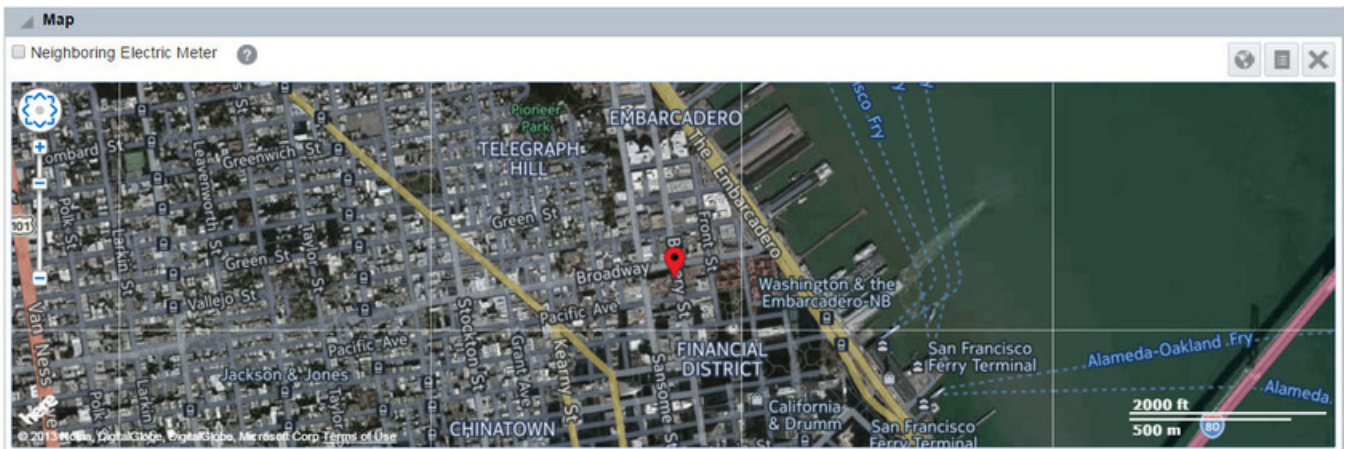
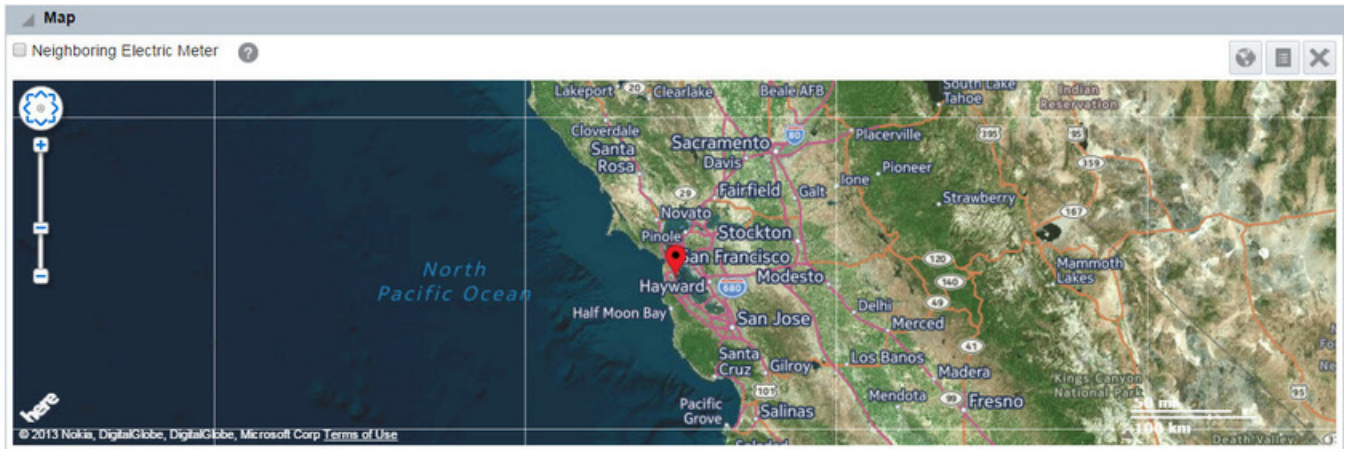
Map rendering configuration determines how a point type code is displayed in the map panel. Point type codes with a discrete location are displayed as a pin-like pointer and point type codes that cover an area are displayed with a polygon. In this section outlines the options to configure display limits, area sizing, and default map options.

Configuration options include:

- Whether to render as point, area, or both.



- Default zoom value that sets the zoom level when the map opens for a selected object. Larger zoom values result in a view that is zoomed in. For example, the following image shows electric meter default values (from top to bottom) of 20, 16, and 8:

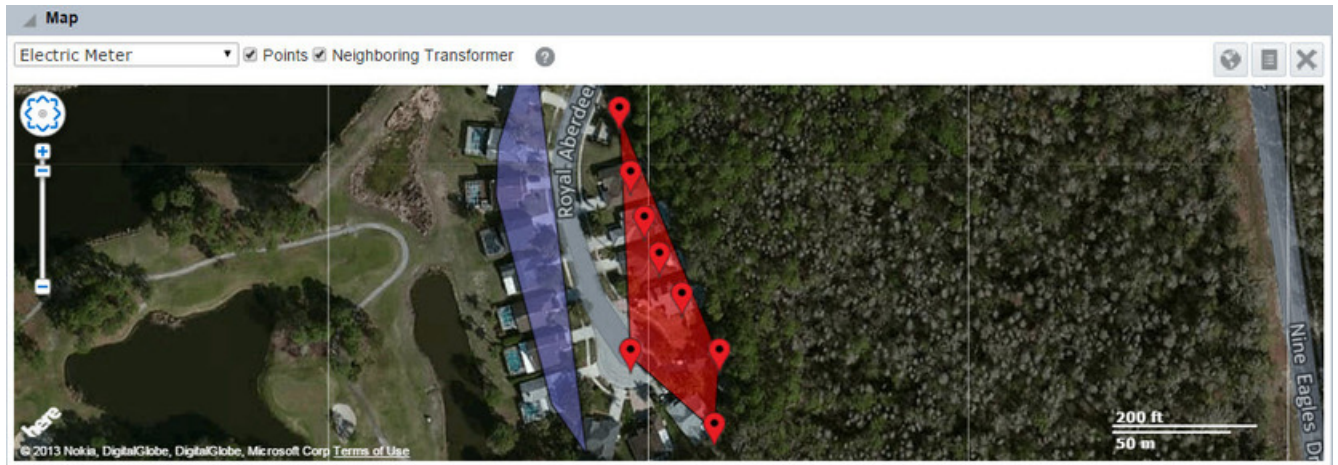


A zoom level of 16 is generally appropriate for discrete point types such as electric meters.

NOTE: The map scale control is not configurable

- Related point type codes.
- Background and border coloring for a selected object and its peers. For example, a line transformer is configured to be displayed as a red polygon, its related meters displayed as red pins, and its neighboring transformer is a purple polygon.

NOTE: The colors for pins, transformers, and neighboring transformers cannot be configured.



Creating MAPS_RENDER_AS Configuration

Map rendering options are configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the MAPS_RENDER_AS configuration. If it already exists, skip to [Accessing MAPS_RENDER_AS XML](#).

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:

a) **Config Name:** select MAPS_RENDER_AS from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

b) **Config Description:** enter a description; for example: "MAPS_RENDER_AS configuration for the Call Center Role."

c) **Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring MAPS_RENDER_AS XML](#) for more information about the configuration options.

d) **Status:** select **Active**.

5. Click **Save**.

Accessing MAPS_RENDER_AS XML

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **MAPS_RENDER_AS**.
3. Click **Submit** or click the **Get Config** button.

The configuration will be displayed as a row in a data table.

Table 5: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.
- **Config Description:** the description for the configuration.
- **Config XML:** a link to the XML for the configuration; the XML may be viewed or edited by following the link.
- **Status:** states whether the configuration is currently active or inactive.
- **Create Time:** the date and time when the configuration was created.
- **Update Time:** the date and time when the configuration was last updated.

Buttons:

- **Edit:** changes the dialog to the **Manage Configuration** view, which allows you to change the description and status.
- **Cancel:** closes the **View Configuration** dialog.

Column Name	Description
	Edit : opens the Manage Configuration dialog, which allows you to change the description and status.
	XML : opens the Config XML dialog.

4. Click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring MAPS_RENDER_AS XML

Configuration Code Structure

The configuration code has the following general structure:

NOTE: The code structure has been elongated in the left column so that the descriptions can remain near the associated code.

code block	description
<pre> PointTypeCode1 GENERAL_SETTINGS: metrics: related_point_types: default_zoom: peer_point_limit: peer_polygon_limit: polygon_point_limit: radius: show_point: show_area: </pre>	<p>Each Point Type Code configuration includes four groupings of options:</p> <ul style="list-style-type: none"> • General Settings <ul style="list-style-type: none"> • metrics: what consumption values are available. This option is for future use. • related_point_types: provides list of related point type codes, if applicable. • default_zoom: defines what the map zoom should be for the point type. • peer_point_limit: the maximum limit of peers points to display. • peer_polygon_limit: the maximum limit of peer polygons that can be rendered on the map at given time. • polygon_point_limit: the maximum limit of points within a polygon than can be rendered on the map at a given time. • radius: In miles, the radius for which the map looks for peers around the center point. Currently not in use. • show_point: whether a point should be displayed for the selected point type (true false); mutually exclusive with show_area. • show_area: whether an area should be displayed for the selected point type (true false).

code block**description**

false); mutually exclusive with `show_point`.

```
CURRENT_POINT_RENDER_AS:  
  style:  
  background_color:  
  border_color:  
  text_color:  
  font_size:
```

- **Current Point Rendering**
 - `style`: style of bubble that will appear for the PTC. Currently not in use.
 - `background_color`: background color of the point. The color can be defined by a hex color code or a standard color name. Currently not in use.
 - `border_color`: point border color. The color can be defined by a hex color code or a standard color name. Currently not in use.
 - `text_color`: color of text in bubble. Currently not in use.
 - `font_size`: font face and size of text in bubble. Currently not in use.
-

```
PEER_POINT_RENDER_AS:  
  style:  
  background_color:  
  border_color:  
  text_color:  
  font_size:
```

- **Peer Point Rendering**
 - `style`: style of bubble that will appear for peer points. Currently not in use.
 - `background_color`: background color of the peer point. The color can be defined by a hex color code or a standard color name. Currently not in use.
 - `border_color`: peer point border color. The color can be defined by a hex color code or a standard color name. Currently not in use.
 - `text_color`: color of text in bubble. Currently not in use.
 - `font_size`: font face and size of text in bubble. Currently not in use.
-

```
RELATED_POINT_RENDER_AS:  
  style:  
  background_color:  
  border_color:  
  text_color:  
  font_size:
```

- **Related Point Rendering**
 - `style`: style of bubble that will appear for the related point. Currently not in use.
 - `background_color`: background color of the related point. The color can be defined by a hex color code or a standard color name. Currently not in use.
 - `border_color`: point border color. The color can be defined by a hex color code or a standard color name. Currently not in use.
-

code block**description**

- `text_color`: color of text in bubble. Currently not in use.
- `font_size`: font face and size of text in bubble. Currently not in use.

```
PointTypeCode2
configuration settings...
```

code block**description**

```
EM:
GENERAL_SETTINGS:
  metrics:
  related_point_types:
  default_zoom: '14'
  peer_point_limit: 5000
  peer_polygon_limit: 1000
  polygon_point_limit: 3000
  radius: '50'
  show_point: 'true'
  show_area: 'false'
CURRENT_POINT_RENDER_AS:
  style: 'bar_chart'
  background_color: '#ffffff'
  border_color: '#000000'
  text_color: 'red'
  font_size: '10'
PEER_POINT_RENDER_AS:
  style: 'circle'
  background_color: '#ffffff1'
  border_color: '#000000'
  text_color: 'black'
  font_size: '10'
RELATED_POINT_RENDER_AS:
  style: 'circle'
  background_color: '#FF0000'
  border_color: '#000000'
  text_color: 'white'
  font_size: '10'
```

- EM: electric meter point rendering instructions.
- `metrics`: metrics are not in use.
 - `related_point_types`: Electric Meters are related types.
 - `default_zoom`: Default zoom is 14.
 - `peer_point_limit`: Peer point limit is 5000 points.
 - `peer_polygon_limit`: polygon limit is 1000 points.
 - `polygon_point_limit`: polygon point limit is 3000 points.
 - `radius`: Radius for neighboring points is 50 miles.
 - `show_point`: It is a point.
 - `show_area`: It is not a polygon

```
LINE_TX:
GENERAL_SETTINGS:
  metrics:
  related_point_types:
    EM|LINE_TX|POINT:
      Electric Meter
  default_zoom: '14'
  peer_point_limit: 5000
  peer_polygon_limit: 1000
  polygon_point_limit: 3000
  radius: '50'
  show_point: 'false'
  show_area: 'show'
CURRENT_POINT_RENDER_AS:
  style: 'bar_chart'
  background_color: '#FF0000'
  border_color: '#000000'
  text_color: 'red'
  font_size: '10'
PEER_POINT_RENDER_AS:
  style: 'circle'
  background_color: '#7171d6'
  border_color: '#000000'
  text_color: 'black'
  font_size: '10'
RELATED_POINT_RENDER_AS:
  style: 'circle'
```

- LINE_TX: line transformer polygon and related point map rendering instructions.
- `metrics`: metrics are not in use.
 - `related_point_types`: No related types.
 - `default_zoom`: Default zoom is 14.
 - `peer_point_limit`: Peer point limit is 5000 points.
 - `peer_polygon_limit`: polygon limit is 1000 points.
 - `polygon_point_limit`: polygon point limit is 3000 points.
 - `radius`: Radius for neighboring points is 50 miles.
 - `show_point`: It is not a point.
 - `show_area`: It is a polygon

code block**description**

```
background_color: '#7171d6'  
border_color: '#000000'  
text_color: 'white'  
font_size: '10'
```

Chapter 9

Configuring Detailed Point Information

Detailed point information configuration controls which point metadata options will be displayed when viewing point details. These are global settings and will apply everywhere points are viewed.

Point information is defined in the *POINT_INFO* configuration, which uses an HTML table format to allow customization for data displayed and layout. The HTML is used in two primary interface sections: point details and the point detail dialog box **Summary** tab.

Selected Asset ID: L000335565708

Line Transformer : L000335565708

Phase	Point ID	Feeder ID	Rating	# of Meters
C	121048	F000003355657	75	

Close

Creating POINT_INFO Configuration

The point information is configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the POINT_INFO configuration. If it already exists, skip to *Accessing POINT_INFO XML*.
-

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:
 - a) **Config Name:** select POINT_INFO from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.
 - b) **Config Description:** enter a description; for example, "POINT_INFO configuration for the Billing Role."
 - c) **Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See *Configuring POINT_INFO XML* for more information about the configuration options.
 - d) **Status:** select **Active**.
5. Click **Save**.

Accessing POINT_INFO XML

Point Information is configured from the **Administer Configuration** page. Only administrative users can change configuration settings.

Each Role has its own configuration.

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **POINT_INFO**
3. Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 6: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.
- **Config Description:** the description for the configuration.
- **Config XML:** a link to the XML for the configuration; the XML may be viewed or edited by following the link.
- **Status:** states whether the configuration is currently active or inactive.
- **Create Time:** the date and time when the configuration was created.
- **Update Time:** the date and time when the configuration was last updated.

Buttons:

- **Edit:** changes the dialog to the **Manage Configuration** view, which allows you to change the description and status.
- **Cancel:** closes the **View Configuration** dialog.

Edit: opens the **Manage Configuration** dialog, which allows you to change the description and status.

XML: opens the **Config XML** dialog.

4. In the data table row, click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring POINT_INFO XML

The point information configuration specifies the table structure and data requirements for each point type code.

Configuration Code Structure

The configuration code has the following general structure:

```

PointTypeCode1
options:
  FACTS
options_popup:
  SUMMARY
  FACTS

PointTypeCode2
options:
  FACTS
options_popup:
  SUMMARY
  FACTS
  
```

Selected Asset ID: EM000000009

Status	Active	Point ID	1000	Additional Details 
Bill Cycle	09	Transformer	L000335563918	

Electric Meter : EM000000009

Summary	Events	Algorithms	Attributes	Relations	Num Attributes	Segments
Status	Active	Bill Cycle	09			
Device Status	Enabled	District	Hillsborough			
Point ID	1000	Transformer	L000335563918			

The options sections (under each point type code) control what is in the point details table on the pages [1]. Likewise, the options_popup sections control what is in the point details dialog box **Summary** tab [2].

Point Details on Pages

Variations in these elements can allow different placements of point data information elements. The “Label” items are the bold label that appears to the left of the information, and the “Value ID” is the fact lookup.

code block	description
EM:	The configuration begins with the name of the point type code (e.g., EM).
options:	The options: section contains a table that defines the structure of the Point Details information on a page (View Point Facts, Explore Point Data, and Point Data Export).
POINT_ID: Label: 'Point ID' FTC: 'POINT'	The table's POINT_ID: attribute is a target for scripts and stylesheets that produce the tables in the pages and dialog boxes.
STATUS: Label: 'Status' FTC: 'RELATION'	STATUS:, LINE_TX:, and BILL_CYCLE: brings in these details to the point's information.
LINE_TX: Label: 'Transformer' FTC: 'RELATION'	
BILL_CYCLE: Label: 'Bill Cycle'	

code block**description**

```
FTC: 'RELATION'
```

Point Information on Popup**code block****description**

```
options_popup:
```

The `options_popup:` section contains a table that defines the structure of the Point Detail dialog box. It is configured the same way as Point Details. The

```

POINT_ID:
  Label: 'Point ID'
  FTC: 'POINT'
STATUS:
  Label: 'Status'
  FTC: 'RELATION'
LINE_TX:
  Label: 'Transformer'
  FTC: 'RELATION'
BILL_CYCLE:
  Label: 'Bill Cycle'
  FTC: 'RELATION'
DISTRICT:
  Label: 'District'
  FTC: 'RELATION'
SSN_DEVICE_STATUS:
  Label: 'Device Status'
  FTC: 'RELATION'

```

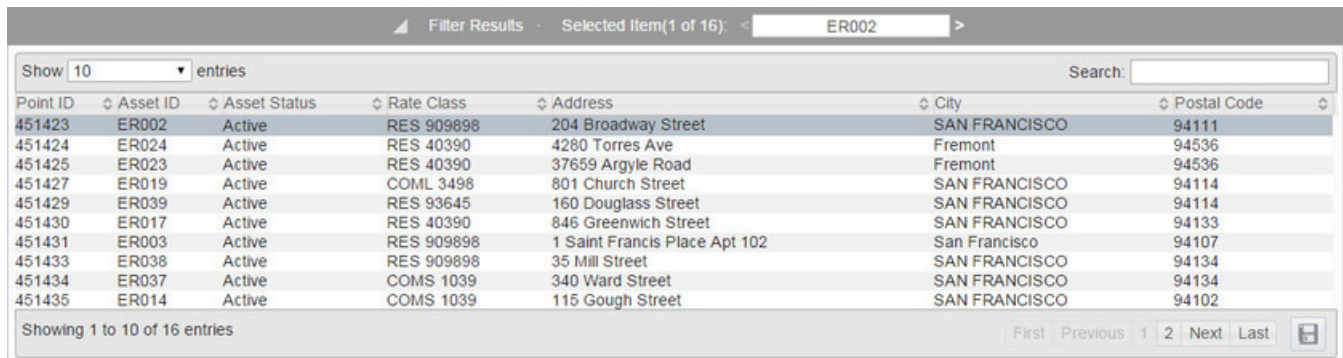
The remainder of the `options_popup:` section defines the associated information that will be displayed; including:

- POINT_ID:
- STATUS:
- LINE_TX:
- BILL_CYCLE:
- DISTRICT:
- SSN_DEVICE_STATUS:

Chapter 10

Configuring Point Search Columns

By updating the `POINT_SEARCH_COLUMNS` and applying it to a specific role(s), the Filter Results pane in the Explorer page can be configured to display specific fact data columns. As well, the order that the columns appear with the grid is specified through the structure of the code.



Point ID	Asset ID	Asset Status	Rate Class	Address	City	Postal Code
451423	ER002	Active	RES 909898	204 Broadway Street	SAN FRANCISCO	94111
451424	ER024	Active	RES 40390	4280 Torres Ave	Fremont	94536
451425	ER023	Active	RES 40390	37659 Argyle Road	Fremont	94536
451427	ER019	Active	COML 3498	801 Church Street	SAN FRANCISCO	94114
451429	ER039	Active	RES 93645	160 Douglass Street	SAN FRANCISCO	94114
451430	ER017	Active	RES 40390	846 Greenwich Street	SAN FRANCISCO	94133
451431	ER003	Active	RES 909898	1 Saint Francis Place Apt 102	San Francisco	94107
451433	ER038	Active	RES 909898	35 Mill Street	SAN FRANCISCO	94134
451434	ER037	Active	COMS 1039	340 Ward Street	SAN FRANCISCO	94134
451435	ER014	Active	COMS 1039	115 Gough Street	SAN FRANCISCO	94102

The following section describes the options available.

Creating `POINT_SEARCH_COLUMN` Configuration

The Filter Results data table column information is configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

- NOTE:** This step is only necessary if the **Config Name** list does not display the **POINT_SEARCH_COLUMN** configuration. If it already exists, skip to [Accessing POINT_INFO XML](#).
-

Click **Add**.

The **Create Configuration** dialog will open.

- Complete the following fields:

- Config Name:** select **POINT_SEARCH_COLUMN** from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

- Config Description:** enter a description; for example, "POINT_SEARCH_COLUMN configuration for the Billing Role."

- Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring POINT_INFO XML](#) for more information about the configuration options.

- Status:** select **Active**.

- Click **Save**.

Accessing POINT_SEARCH_COLUMN XML

Point Information is configured from the **Administer Configuration** page. Only administrative users can change configuration settings.

Each Role has its own configuration.

- Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

- From the **Config Name** drop-down list, select: **POINT_SEARCH_COLUMN**

- Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 7: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Analytics" role has a Role Type Code of ANALYTICS. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.

Column Name	Description
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Role Type Code:** the role's role type code.
- **Config Name:** the name of the selected configuration.
- **Config Description:** the description for the configuration.
- **Config XML:** a link to the XML for the configuration; the XML may be viewed or edited by following the link.
- **Status:** states whether the configuration is currently active or inactive.
- **Create Time:** the date and time when the configuration was created.
- **Update Time:** the date and time when the configuration was last updated.

Buttons:

- **Edit:** changes the dialog to the **Manage Configuration** view, which allows you to change the description and status.
- **Cancel:** closes the **View Configuration** dialog.

Edit: opens the **Manage Configuration** dialog, which allows you to change the description and status.

XML: opens the **Config XML** dialog.

4. In the data table row, click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring POINT_SEARCH_COLUMN XML

The Explore page Filter Results column configuration specifies the table structure and data requirements for each grid column. The point search results column can be customized to show fact data as columns in the grid.

Point ID	Asset ID	Asset Status	Rate Class	Address	City	Postal Code
451423	ER002	Active	RES 909898	204 Broadway Street	SAN FRANCISCO	94111
451424	ER024	Active	RES 40390	4280 Torres Ave	Fremont	94536
451425	ER023	Active	RES 40390	37659 Argyle Road	Fremont	94536
451427	ER019	Active	COML 3498	801 Church Street	SAN FRANCISCO	94114
451429	ER039	Active	RES 93645	160 Douglass Street	SAN FRANCISCO	94114
451430	ER017	Active	RES 40390	846 Greenwich Street	SAN FRANCISCO	94133
451431	ER003	Active	RES 909898	1 Saint Francis Place Apt 102	San Francisco	94107
451433	ER038	Active	RES 909898	35 Mill Street	SAN FRANCISCO	94134
451434	ER037	Active	COMS 1039	340 Ward Street	SAN FRANCISCO	94134
451435	ER014	Active	COMS 1039	115 Gough Street	SAN FRANCISCO	94102

Column Details within the Grid

Variations in these elements can allow different placements of point data information elements in the grid. The columns are organized, from left to right in the grid, in the order that they are declared. The “Label” items are the bold label that appears to the left of the information, and the “Value ID” is the fact lookup. The `POINT_SEARCH_COLUM` configuration format is as follows:

code block	description
<pre>EM:</pre>	<p>The configuration begins with the name of the point type code (e.g., EM).</p>
<pre>- STANDARD: pointID: 'Point ID' pointName: 'Asset ID'</pre>	<p>The <code>STANDARD:</code> section controls base point items such as <code>pointID</code>, <code>pointName</code>, <code>pointLookup</code>, <code>pointTag</code>, etc.</p> <p>This section allows the grid to display these items and label them as needed. In this example, we name <code>pointName</code> as <code>Asset ID</code> because customers are more familiar with that name.</p>
<pre>- STATUS: Label: 'Asset Status' FTC: 'RELATION' - RATE: Label: 'Rate Class' FTC: 'RELATION' - ADDRESS1: Label: 'Address' FTC: 'ATTRIBUTE' - GEO_CITY: Label: 'City' FTC: 'ATTRIBUTE' - GEO_ZIP: Label: 'Postal Code' FTC: 'RELATION'</pre>	<p>After <code>STANDARD:</code>, the configuration lists fact lookups with nested label and FTC sections.</p> <p>In this sample, <code>STATUS</code> is a fact lookup, <code>Label</code> defines the logical column name, and <code>FTC</code> is relation because <code>STATUS</code> is a relation type fact.</p> <p>The grid supports both <code>ATTRIBUTES</code> and <code>RELATIONS</code>.</p> <p>NOTE: <code>STANDARD:</code> should always be first, but the order that the facts are declared defines to the order of the columns of the UI grid.</p>
<pre>LINE_TX: - STANDARD: pointID: 'Point ID' pointName: 'Asset ID' - RATING: Label: 'Rating' FTC: NUM_ATTR - PHASE: Label: 'Phase' FTC: 'ATTRIBUTE' - INSTALLATION_DT: Label: 'Installation Date' FTC: 'ATTRIBUTE' - FEEDER: Label: 'Feeder' FTC: 'RELATION'</pre>	<p>The same format is then applied to all other required PTCs.</p> <p>NOTE: This configuration is optional. If it does not exist, or is not defined properly, the grid will default to base options of <code>pointID</code>, <code>pointLookup</code>, etc.</p>

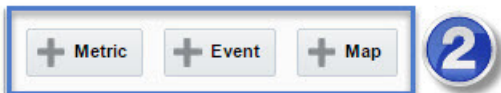
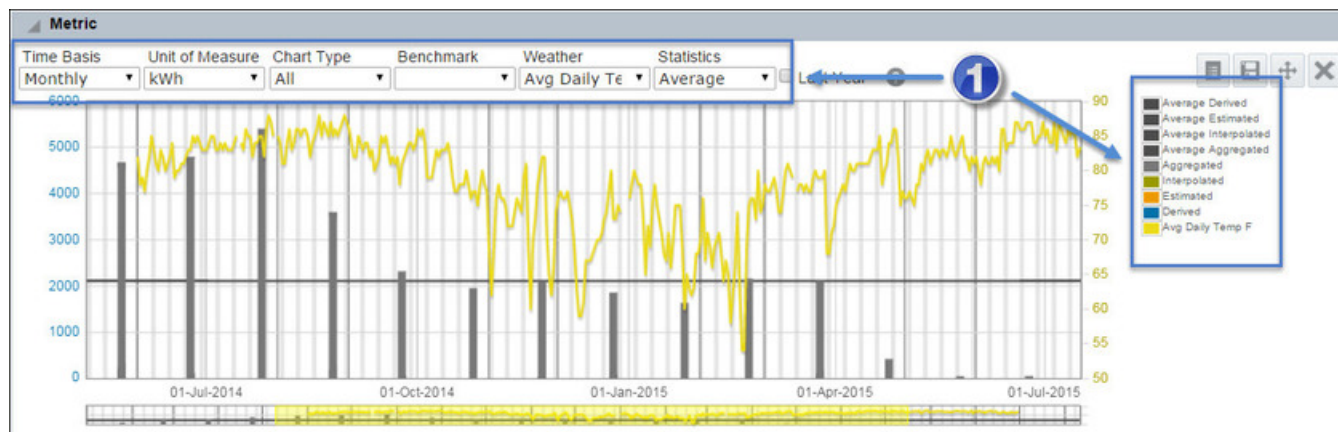
Chapter 11

Configuring Chart Panels (Rakes)

Administrative users can configure which chart panels (rakes) and options are displayed on the [Explorer page](#) for each role, as selected in the [Drawer Menu](#). **Explorer** configuration is defined in the *RAKE* configuration XML.

For a selected role, a point type code may have its own configuration definition, may share a configuration with another point type code, or, if not specifically defined, inherit the default configuration. For example, a Premise could have separate panel types and drop-down options than an Electric Meter while a Rate Class and a Supplier Rate Class might share a configuration and all may be different depending on the role that is selected.

Rake Components



Legend

1. Drop-down lists and corresponding data are determined by point type. The drop-down lists may be configurable or may automatically pull data based on the rake type. See individual rake descriptions for details.

2. The available rakes are defined by Role and Type.

Roles and Rakes

Since each role is configured separately, it is possible that the rakes available for a point type code (for example, an electric meter) would be different in number and kind between roles. This flexibility allows the system to be tailored to the needs of different users.

Available Panels

The panels that are provided for a selected role and point type code may be chosen from the available rake types.

Name	Description	User Types
Metric	The metric panel supports between one and five charts. The first main chart is controlled by the drop-down selections. The remainder of the charts are optional and are controlled directly from the configured facts. In addition to configuring facts, this panel's dropdown label and drop-down content is also configurable.	
Event	The event panel supports between one and five charts. The first main chart is controlled by the drop-down selections. The remainder of the charts are optional and are controlled directly from the configured facts. In addition to configuring facts, this panel's drop-down label and dropdown content is also configurable.	
Map	The Map panel displays a geospatial representation of the data points. Point type codes with discrete locations (e.g., a meter) are indicated by a pin at the location; area point type codes (e.g., zip code, feeder, line transformer) are represented by a polygon. Configuration options: <ul style="list-style-type: none">• Map appearance and behavior are configured with <code>MAPS_RENDER_AS</code> and <code>MAPS_INFO_POPUP</code> configuration.	All

Creating RAKE Configuration

The Explore page configuration is defined in the RAKE configuration setting.

The page is configured from the **Administer Configuration** page.

NOTE: Each Role must be configured separately.

1. Select the role to configure from the **Role** option in the *Drawer Menu*.
2. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

3. **NOTE:** This step is only necessary if the **Config Name** list does not display the RAKE configuration. If it already exists, skip to *Accessing RAKE XML*.

Click **Add**.

The **Create Configuration** dialog will open.

4. Complete the following fields:

a) **Config Name:** select RAKE from the drop-down menu.

The **Config Name** list only contains the configuration settings that have not yet been defined.

b) **Config Description:** enter a description; for example: "RAKE configuration for the Billing Role."

c) **Config XML:** enter configuration XML in the field. If this code isn't complete, enter initial XML in the field as a placeholder while you develop the final version. See [Configuring Rakes to Open by Default](#) and [Configuring Standard and Combo Rakes](#) for more information about the configuration options.

d) **Status:** select **Active**

5. Click **Save**.

Accessing RAKE XML

1. Navigate through **Administer > Metadata > Configuration**.

The system will display the Administer Configuration page and display the results from the first Config Name menu option.

NOTE: The **Config Name** list contains configuration definitions that are available for the selected role; therefore, if the role that was selected doesn't have any definitions available, the system will return a message stating that no data was found.

2. From the **Config Name** drop-down list, select: **RAKE**

3. Click **Get Config**.

The configuration will be displayed as a row in a data table.

Table 8: Administer Configuration Data Table

Column Name	Description
ID	Contains the system-generated identification number for the configuration.
Environment	The server environment name.
Role Type Code	The selected role's role type code. For example, the "Safety" role has a Role Type Code of SAFETY. The role and role type codes may vary by implementation. To see the available roles and role type codes, select Roles under Security in the Administer menu.
Config Name	The name of the selected configuration.
Description	The description from the configuration definition.
Active	Shows whether the selected configuration is active or inactive
Create Time	The date and time when the configuration setting was created.
Update Time	The date and time when the configuration setting was last updated.

Contains the following links:

View: opens the **View Configuration** popup dialog that allows you to view the configuration description.

NOTE: The popup displays the same information as displayed in the data table row.

Fields:

- **Config ID:** the system-generated identification number for the configuration.
- **Environment Name:** the server environment name.
- **Config Name:** the name of the selected configuration.
- **Config Description:** the description for the configuration.
- **Config XML:** a link to the XML for the configuration; the XML may be viewed or edited by following the link.

Column Name	Description
	<ul style="list-style-type: none"> • Status: states whether the configuration is currently active or inactive. • Create Time: the date and time when the configuration was created. • Update Time: the date and time when the configuration was last updated.
	<p>Buttons:</p> <ul style="list-style-type: none"> • Edit: changes the dialog to the Manage Configuration view, which allows you to change the description and status. • Cancel: closes the View Configuration dialog.
	<p>Edit: opens the Manage Configuration dialog, which allows you to change the description and status.</p>
	<p>XML: opens the Config XML dialog.</p>

4. Click the **XML** link.

The **Config XML** popup window will open with the configuration XML.

5. Click **Edit** to enable edit mode.

Configuring RAKE XML

The RAKE configuration XML defines the panels (*i.e.*, rakes) that will appear for a point type code and the associated data and options for each rake.

Configuration Code Structure

The configuration code has the following general structure:

```
default:
  configuration settings...

PointTypeCode1
  configuration settings...

PointTypeCode2
  configuration settings...
```

The default configuration is for any point type code that has not been configured. Every point type code that is configured may have unique settings.

For example, if electric meters have a point type code of EM and gas meters have a point type code of GM, then the configuration would have this structure:

```
default:
  configuration settings...

EM:
  configuration settings...

GM:
  configuration settings...
```

If, for example, *FEEDER* was not listed separately, it would inherit the default configuration.

Default Configuration for Unspecified Point Type Codes

The `default` section defines the panels that will be displayed for point type codes that do not have defined configuration settings. For example, if there is no specific configuration called out for the Gas Meter type, it will inherit the default configuration.

Table 9: Default Block

code block	description
<pre>default: dropdown_view: label: 'View' options: - metricSuper: 'Metric' - eventSuper: 'Event' - map: 'Map'</pre>	<p>The default configuration is required. Add it above any point type code definitions.</p> <ul style="list-style-type: none">• The <code>dropdown_viewoptions</code> lists the panels that will be displayed. The buttons to open the panels will be placed (from left to right) in the order listed.

Configuring Rakes to Open by Default

It is also possible to define the panels to open when a point is selected. This can be defined on a per role basis to allow different user types (such as, non-power users vs. power users) to have different views. The `default_open` settings follows the `drop-down_view` heading.

Table 10: Default Block with Default Open

code block	description
<pre>default_open: - metricSuper - eventSuper - map</pre>	<ul style="list-style-type: none">• Under the <code>dropdown_view</code> heading in the default section, add a <code>default_open</code> section and list the panel names that you want to automatically be seen when opening the page or selecting a point. In this case, the <code>metric</code> panel will open automatically.• There is no limit to how many panels can be opened.• Also note that the order in which they are listed is the order in which they will be added.

Default Section including the Default Open Subsection

code block	description
<pre>dropdown_view: label: 'View' options: - metricSuper: 'Metric' - eventSuper: 'Event' - map: 'Map' default_open: - metricSuper - eventSuper - map</pre>	

Configuring Standard and Combo Rakes

Standard Rake Configuration

After the default section, you need to define the configuration for every point type code that requires specific rakes. Additionally, you need to define the settings for the panels, as applicable.

Table 11: Configuration Settings and Description for an Electric Meter (Example)

code block	description
EM:	The configuration begins with the name of the point type code (such as, EM).
<pre>dropdown_view: label: 'View' options: - metricSuper: 'Metric' - eventSuper: 'Event' - map: 'Map'</pre>	The dropdown_view: and its corresponding options are no longer being used.
<pre>default_open: - metricSuper - eventSuper - map</pre>	Defines the rakes that will open by default. See Configuring Rakes to Open by Default for more information.

Combo Rake Configuration

In addition to the standard panels, it is possible to configure combination panels that combine the charts and data into a single view. This is useful in combination with the default_open setting to allow users to quickly see relevant information.

Event Panel

The Event panel displays a combination of event flags and relations for the selected object. Events are categorized as Meter Events, which are received from data collection, Derived Events, which are identified by DataRaker core processes, or Lists, which are the results of an analytic calculation or test. The panel displays all available flags (top chart) and total flags observed (bottom chart) over time (weekends are shaded in grey).

NOTE: Flags are indicated by diamonds.

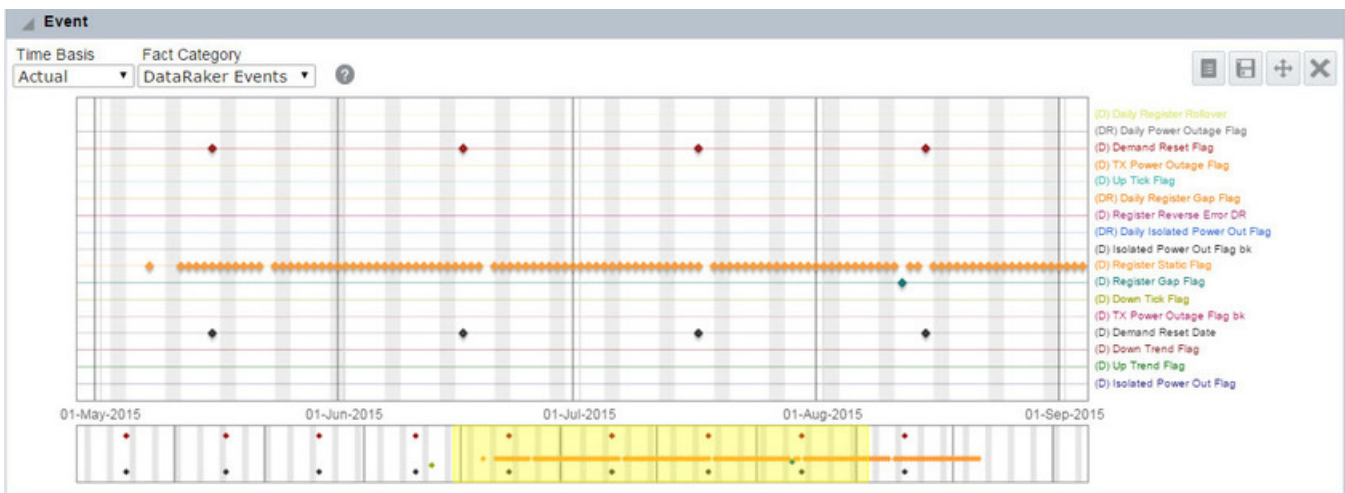
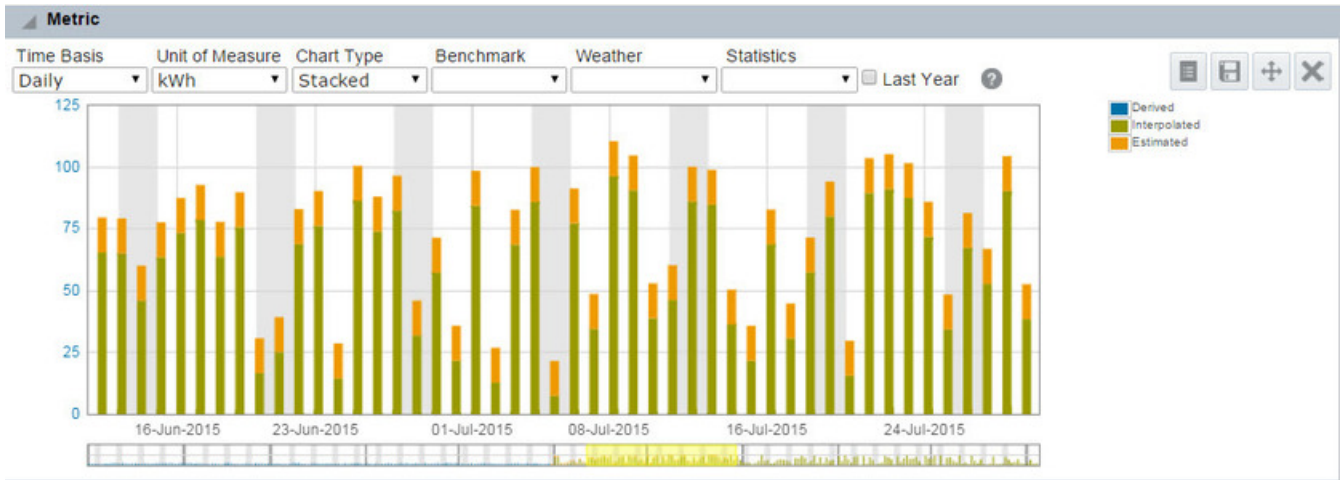


Table 12: Event Combo Panel

code block	description
<pre> Event : Labels: Visible: True timeBasis: 'Time Basis' actCategory: 'Fact Category' viewMode: 'View' fact_1: 'Fact Name' DAILY: Selected: True Daily Chart1: View: Single: Enabled: True All: Selected: True Enabled: True Fact_Categories: kWh Register Validation: Name: 'kWh Register Validation Set' FTC: 'EVENT' # Fact Type Code, Required CUSTOM_SETS: My_Set: Name: 'My Events' EVENT: Lookup1: 'Event1 Name' Lookup2: 'Event2 Name' chart2: EVENT: DAILY_KWH_REGISTER_STATIC: 'Register Static' RELATION: ZIP: 'Zip' SEGMENT: chart3: EVENT: RELATION: LINE_TX: 'Line TX' SEGMENT: </pre>	<p>The Labels : section allows you to define how the drop-down labels appear.</p> <p>The left parts are keys and should not be changed or removed.</p> <p>The texts in quotes can be changed to whatever is desired to label the dropdown. The visible flag can be either true or false and defines whether any dropdown labels should be visible at all.</p> <p>DAILY: The sets of options are tiered by time basis (Second, Hourly, Daily, Etc)</p> <ul style="list-style-type: none"> Selected determines whether Name : defines what appears in the drop-down menu. Name : the name that will be displayed as an option. <p>There are a possibly total of five charts. Chart 1 is mandatory, but charts 2-5 are optional. For Chart 1, there are two types of fact sets that can be defined: Fact_Categories and CUSTOM_SETS.</p> <ul style="list-style-type: none"> Fact_Categories: use the fact category lookup as the first key, then nested under it define a friendly name and the Fact Type Code for FTC. CUSTOM_SETS: declare each fact individually by lookup and friendly name. Each fact should be nested under its fact type; in the example here we place them under EVENT, but if they were relation type we would nest them under RELATION. Charts 2-5 are declared by fact type code, fact lookup, and friendly name.

Metric Panel

The Metric combo panel is a "super panel" that displays consumption and register data for the selected point. The consumption chart (top) displays daily data; the register data (middle) displays the register value reported or calculated for the day.



code block

description

Metric:

Metric: begins the configuration section.

Labels:

```
Visible: True
timeBasis: 'Time Basis'
factCategory: 'Unit of Measure'
viewMode: 'Chart Type'
fact_1: 'Data Type 1'
fact_2: 'Data Type 2'
benchmark: 'Benchmark'
factTypeW: 'Weather'
agg: 'Statistics'
```

The Labels: section allows you to define how the drop-down labels appear.

The left parts are keys and **should not** be changed or removed.

The text in quotes **can** be changed to whatever is desired to label the dropdown. The visible flag can be either true or false and defines whether any dropdown labels should be visible at all.

DAILY:

```
Selected: True
Name: 'Daily'
```

The sets of options are tiered by time basis (Second, Hourly, Daily, Etc).

Selected: determines whether Name: defines what appears in the drop-down menu.

Name: the name that will be displayed as an option.

Chart1:

```
Height: 250
View:
  Enabled: True
Double:
  Enabled: True
All:
  Enabled: True
Best:
  Selected: True
  Enabled: True
Stacked:
  Enabled: True
Fact_Categories:
  kWh:
    Selected: True
    Name: 'kWh'
  Facts:
    DAILY_KWH_USAGE_DERIVED: 'Derived'
    DAILY_KWH_USAGE_AGG: 'Aggregated'
    DAILY_KWH_USAGE_EST: 'Estimated'
    DAILY_KWH_USAGE_INTER: 'Interpolated'
  Vrms:
    Name: 'Volt'
    Facts:
      DAILY_VRMS: 'Vrms'
      DAILY_VRMS_AGG: 'Aggregated Vrms'
```

- Chart1: has many options to configure.

- Height: controls the vertical height of the chart.

- View: controls the mode of the chart.

- Single: allows the section of one fact.

Double: allows two different facts.

- All: shows every fact for a selected fact category in a side-by-side bar chart display.

- Best defines the "Best" option for the selected fact category.

- Stacked: is similar to All in that it shows all the facts for a given fact category, except the bars are displayed stacked on top of each other rather than side by side.

NOTE:

Each of these options can be disabled by setting Enabled to False. The 'selected' one will be the default.

code block**description**

```

Benchmark:
  LINE_TX:
    Name: 'Transformer'
    Facts:
      P90_DAILY_KWH_USAGE_DERIVED:
        Name: 'P95 Daily kWh Usage Derived'
        Color: 'Red'
      P10_DAILY_KWH_USAGE_DERIVED:
        Name: 'P5 Daily kWh Usage Derived'
        Color: 'Green'
    LP_CLASS:
      Name: 'LP Class'
      Facts:
        P90_DAILY_KWH_USAGE_AGG:
          Name: 'P90 Daily kWh Usage Aggregated'
          Color: 'Red'
        P10_DAILY_KWH_USAGE_AGG:
          Name: 'P10 Daily kWh Usage Aggregated'
          Color: 'Green'

```

- `Fact_Categories` contains a nest of fact category look-ups. Afterward, there is a set of options; such as whether it should be default selected. There is also the fact category's accessible name and a list of fact look-ups that are children of the fact category.
- `Benchmark`, or `level`, shows relationship data to a parent point, such as `line_tx` from a meter level. The friendly name is configured along with the fact lookup of the parent relation, friendly name, as well as what color the benchmark line should use.

```

Chart2:
  Height: 100
  METRICS:
    ACTUAL_KWH_REGISTER:
      Name: 'Actual kWh Register'
      Color: 'Blue'
    ACTUAL_KWH_REGISTER_OVERLAP:
      Name: 'Actual kWh Register'
      Color: 'Green'

```

After Chart 1 is defined, there is an optional set of charts 2-5, all declared in a similar fashion. The `Height` is set and is followed by `METRICS`, which contain fact lookup coupled with a friendly name and color.

Appendix: Code Templates

CHART_SETTING Code Template

COLORS:

```
factBasedColors:
  Aggregated: "rgb(0, 114, 169)" # blue
  Derived: "rgb(120, 120, 120)" # grey
  Estimated: "rgb(120, 120, 90)" # greyish green
  Interpolated: "rgb(238, 154, 0)" # orange

eventColors:
- "rgb(0, 0, 102)"
- "rgb(0, 102, 0)"
- "rgb(102, 0, 0)"
- "rgb(32, 32, 32)"
- "rgb(153, 0, 76)"
- "rgb(153, 153, 0)"
- "rgb(0, 102, 102)"

metricColors:
- "rgb(236, 219, 24)" # yellow for chart (weather)
- "rgb(181, 168, 24)" # yellow for Y labels (weather axis)
- "rgb(135, 206, 250)" # blue for last year
- "rgb(0, 114, 169)" # color1 for chart
- "rgb(120, 120, 120)" # alt color: color2 for chart
- "rgb(238, 154, 0)" # alt color: color3 for chart
- "rgb(120, 120, 90)" # alt color: color4 for chart
- "rgb(238, 130, 0)" # alt color: color5 for chart
- "rgb(120, 90, 120)" # alt color: color6 for chart
- "rgb(215, 154, 0)" # alt color: color7 for chart
- "rgb(77, 77, 77)" # MIN color
- "rgb(77, 77, 77)" # MAX color
- "rgb(77, 77, 77)" # MEDIAN color
- "rgb(77, 77, 77)" # AVERAGE color
- "rgb(190, 42, 42)" # 10th percentile color
- "rgb(0, 238, 0)" # 90th percentile color
- "rgb(190, 42, 42)" # low std dev color
- "rgb(0, 238, 0)" # high std dev color

bottomChartColors:
- "rgb(9, 129, 154)" # light blue color for bottom chart series 1
- "rgb(178, 34, 34)" # red color for bottom chart series 2
- "rgb(0, 255, 127)" # green color for bottom chart series 3
- "rgb(147, 112, 219)" # purple color for bottom chart series 4
```

```

- "rgb(0, 0, 0)" # black for power outs

segmentColors:
- "rgb(0, 238, 0)"
- "rgb(190, 42, 42)"
- "rgb(0, 238, 0)"
- "rgb(190, 42, 42)"

highlightColor:
- "#FFFF00" # yellow color when dragging on a chart

```

FILTER_CONFIG Code Template

```

EM:
- table: POINT
  label: 'Electric Meter Point ID'
  column: point_id
- table: POINT
  label: 'Electric Meter ID'
  column: point_tag
- table: POINT
  label: 'Electric Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE
- table: FACT
  label: 'Line Transformer'
  column: fact_lookup|LINE_TX

GM:
- table: POINT
  label: 'Gas Meter Point ID'
  column: point_id
- table: POINT
  label: 'Gas Meter ID'
  column: point_tag
- table: POINT
  label: 'Gas Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE

WM:
- table: POINT
  label: 'Water Meter Point ID'
  column: point_id
- table: POINT
  label: 'Water Meter ID'
  column: point_tag
- table: POINT
  label: 'Water Meter Name'
  column: point_name
- table: FACT
  label: 'Bill Cycle'
  column: fact_lookup|BILL_CYCLE

LINE_TX:
- table: POINT
  label: 'Line Transformer Point ID'
  column: point_id
- table: POINT
  label: 'Line Transformer ID'
  column: point_tag
- table: POINT
  label: 'Line Transformer Name'
  column: point_name

FEEDER:

```

```

- table: POINT
  label: 'Feeder Point ID'
  column: point_id
- table: POINT
  label: 'Feeder ID'
  column: point_tag
- table: POINT
  label: 'Feeder Name'
  column: point_name

BILL_CYCLE:
- table: POINT
  label: 'Bill Cycle Point ID'
  column: point_id
- table: POINT
  label: 'Bill Cycle ID'
  column: point_tag
- table: POINT
  label: 'Bill Cycle Name'
  column: point_name

LP_CLASS:
- table: POINT
  label: 'Load Profile Class Point ID'
  column: point_id
- table: POINT
  label: 'Load Profile Class ID'
  column: point_tag
- table: POINT
  label: 'Load Profile Class Name'
  column: point_name

PRMS:
- table: POINT
  label: 'Premise Point ID'
  column: point_id
- table: POINT
  label: 'Premise ID'
  column: point_tag
- table: POINT
  label: 'Premise Name'
  column: point_name

ZIP:
- table: POINT
  label: 'Zip Code Point ID'
  column: point_id
- table: POINT
  label: 'Zip Code ID'
  column: point_tag
- table: POINT
  label: 'Zip Code Name'
  column: point_name

RATE:
- table: POINT
  label: 'Rate Point ID'
  column: point_id
- table: POINT
  label: 'Rate ID'
  column: point_tag
- table: POINT
  label: 'Rate Name'
  column: point_name

```

GOTO_INFO Code Template

```

PARENT_POINTS:
  EM:
    - EM|RELATION|PRMS: 'Premise'
    - EM|RELATION|LINE_TX: 'Transformer'

  GM:
    - GM|RELATION|PRMS: 'Premise'
    - GM|RELATION|ACCNT: 'Account'

  LINE_TX:
    - LINE_TX|RELATION|FEEDER: 'Feeder'

  PRMS:
    - PRMS|RELATION|ZIP: 'Postal Code'

CHILDREN_POINTS:
  LINE_TX:
    - EM|RELATION|LINE_TX: 'Electric Meter'

```

MAPS_INFO_POPUP Code Template

```

## Point Popup Info ##
GM:
  GENERAL_SETTINGS:
    background_color: '#ffffff'
    text_color: '#000000'
    font: '14px arial'
  POINT_INFO:
    STATUS:
      FTC: 'RELATION'
      Label: "Status"
    ADDRESS1:
      FTC: 'ATTRIBUTE'
      Label: "Address"
    ZIP:
      FTC: 'RELATION'
      Label: 'Postal Code'
    BILL_CYCLE:
      FTC: 'RELATION'
      Label: "Bill Cycle"

  LINE_TX:
    GENERAL_SETTINGS:
      popup_background_color: 'light blue'
      popup_text_color: 'black'
      popup_font: '14px arial'
    POINT_INFO:
      CNT_DAILY_KWH_USAGE_AGG_TEST:
        Label: 'Meters per Transformer'
        FTC: 'NUM_ATTR'
      FEEDER:
        FTC: 'RELATION'
        Label: "Feeder"
      PHASE:
        FTC: 'ATTRIBUTE'
        Label: "Phase"

  EM:
    GENERAL_SETTINGS:
      popup_background_color: 'light blue'
      popup_text_color: 'black'
      popup_font: '14px arial'
    POINT_INFO:
      STATUS:
        FTC: 'RELATION'
        Label: "Status"
      ADDRESS1:
        FTC: 'ATTRIBUTE'
        Label: "Address"
      ZIP:

```

```

        FTC: 'RELATION'
        Label: 'Postal Code'

BILL_CYCLE:
  GENERAL_SETTINGS:
    background_color: '#ffffff'
    text_color: '#000000'
    font: '14px arial'
  POINT_INFO:
    LINE_TX:
      FTC: 'RELATION'
      Label: "Transformer"

ZIP:
  GENERAL_SETTINGS:
    background_color: '#ffffff'
    text_color: '#000000'
    font: '14px arial'
  POINT_INFO:
    LINE_TX:
      FTC: 'RELATION'
      Label: "Transformer"

PRMS:
  GENERAL_SETTINGS:
    background_color: '#ffffff'
    text_color: '#000000'
    font: '14px arial'
  POINT_INFO:
    STD_PLACE:
      FTC: 'RELATION'
      Label: "STD_PLACE"

```

MAPS_RENDER_AS Code Template

```

## Render As ##
EM:
  GENERAL_SETTINGS:
    metrics:
      related_point_types:
      default_zoom: '14'
      peer_point_limit: 5000
      peer_polygon_limit: 1000
      polygon_point_limit: 3000
      radius: '50'
      show_point: 'true'
      show_area: 'false'
  CURRENT_POINT_RENDER_AS:
    style: 'bar_chart'
    background_color: '#ffffff'
    border_color: '#000000'
    text_color: 'red'
    font_size: '10'
  PEER_POINT_RENDER_AS:
    style: 'circle'
    background_color: '#ffffff1'
    border_color: '#000000'
    text_color: 'black'
    font_size: '10'
  RELATED_POINT_RENDER_AS:
    style: 'circle'
    background_color: '#FF0000'
    border_color: '#000000'
    text_color: 'white'
    font_size: '10'

LINE_TX:
  GENERAL_SETTINGS:

```

```

metrics:
  related_point_types:
    EM|LINE_TX|POINT:
      Electric Meter
  default_zoom: '14'
  peer_point_limit: 5000
  peer_polygon_limit: 1000
  polygon_point_limit: 3000
  radius: '50'
  show_point: 'false'
  show_area: 'show'
CURRENT_POINT_RENDER_AS:
  style: 'bar_chart'
  background_color: '#FF0000'
  border_color: '#000000'
  text_color: 'red'
  font_size: '10'
PEER_POINT_RENDER_AS:
  style: 'circle'
  background_color: '#7171d6'
  border_color: '#000000'
  text_color: 'black'
  font_size: '10'
RELATED_POINT_RENDER_AS:
  style: 'circle'
  background_color: '#7171d6'
  border_color: '#000000'
  text_color: 'white'
  font_size: '10'

```

POINT_INFO Code Template

```

EM:
  options:
    POINT_ID:
      Label: 'Point ID'
      FTC: 'POINT'
    STATUS:
      Label: 'Status'
      FTC: 'RELATION'
    LINE_TX:
      Label: 'Transformer'
      FTC: 'RELATION'
    BILL_CYCLE:
      Label: 'Bill Cycle'
      FTC: 'RELATION'

  options_popup:
    POINT_ID:
      Label: 'Point ID'
      FTC: 'POINT'
    STATUS:
      Label: 'Status'
      FTC: 'RELATION'
    LINE_TX:
      Label: 'Transformer'
      FTC: 'RELATION'
    BILL_CYCLE:
      Label: 'Bill Cycle'
      FTC: 'RELATION'
    DISTRICT:
      Label: 'District'
      FTC: 'RELATION'
    SSN_DEVICE_STATUS:
      Label: 'Device Status'
      FTC: 'RELATION'

LINE_TX:

```

```

options:
  PHASE:
    Label: 'Phase'
    FTC: 'ATTRIBUTE'
  POINT_ID:
    Label: 'Point ID'
    FTC: 'POINT'
  FEEDER:
    Label: 'Feeder ID'
    FTC: 'RELATION'
  RATING:
    Label: 'Rating'
    FTC: 'NUM_ATTR'
  CNT_DAILY_KWH_USAGE_AGG_TEST:
    Label: '# of Meters'
    FTC: 'NUM_ATTR'
  INSTALLATION_DT:
    Label: 'Installation Date'
    FTC: 'ATTRIBUTE'

options_popup:
  PHASE:
    Label: 'Phase'
    FTC: 'ATTRIBUTE'
  POINT_ID:
    Label: 'Point ID'
    FTC: 'POINT'
  FEEDER:
    Label: 'Feeder ID'
    FTC: 'RELATION'
  RATING:
    Label: 'Rating'
    FTC: 'NUM_ATTR'
  CNT_DAILY_KWH_USAGE_AGG_TEST:
    Label: '# of Meters'
    FTC: 'NUM_ATTR'

```

POINT_SEARCH_COLUMN Code Template

```

EM:
- STANDARD:
  pointID: 'Point ID'
  pointName: 'Asset ID'

- STATUS:
  Label: 'Asset Status'
  FTC: 'RELATION'

- RATE:
  Label: 'Rate Class'
  FTC: 'RELATION'

- ADDRESS1:
  Label: 'Address'
  FTC: 'ATTRIBUTE'

- GEO_CITY:
  Label: 'City'
  FTC: 'ATTRIBUTE'

- GEO_ZIP:
  Label: 'Postal Code'
  FTC: 'RELATION'

LINE_TX:
- STANDARD:
  pointID: 'Point ID'
  pointName: 'Asset ID'

- RATING:
  Label: 'Rating'
  FTC: NUM_ATTR

```

```

- PHASE:
  Label: 'Phase'
  FTC: 'ATTRIBUTE'
- INSTALLATION_DT:
  Label: 'Installation Date'
  FTC: 'ATTRIBUTE'
- FEEDER:
  Label: 'Feeder'
  FTC: 'RELATION'

```

RAKE Code Template

```

#### EM ####
EM:
  # 'Add Panel' dropdown options - These are available panels for this ptc
  dropdown_view:
    label: 'View'
    options:
      - metricSuper: 'Metric'
      - eventSuper: 'Event'
      - map: 'Map'
    default_open:
      - metricSuper
      - eventSuper
      - map
  # Super Metric Panel Config
  Metric:
    Labels:
      Visible: True
      timeBasis: 'Time Basis'
      factCategory: 'Units of Measure'
      viewMode: 'Chart Type'
      fact_1: 'Data Type 1'
      fact_2: 'Data Type 2'
      benchmark: 'Benchmark'
      factTypeW: 'Weather'
      agg: 'Statistics'

  DAILY:
    Selected: True
    Name: 'Daily'
    Chart1:
      Height: 250
      View:
        Single:
          Enabled: True
        Double:
          Enabled: True
        All:
          Enabled: True
        Best:
          Selected: True
          Enabled: True
        Stacked:
          Enabled: True
      Fact_Categories:
        kWh:
          Selected: True
          Name: 'kWh'
          Facts:
            DAILY_KWH_USAGE_DERIVED: 'Derived'
            DAILY_KWH_USAGE_AGG: 'Aggregated'
            DAILY_KWH_USAGE_EST: 'Estimated'
            DAILY_KWH_USAGE_INTER: 'Interpolated'
        Vrms:
          Name: 'Volt'
          Facts:
            DAILY_VRMS: 'Vrms'
            DAILY_VRMS_AGG: 'Aggregated Vrms'

```

```

Benchmark:
  LINE_TX:
    Name: 'Transformer'
    Facts:
      P90_DAILY_KWH_USAGE_DERIVED:
        Name: 'P95 Daily kWh Usage Derived'
        Color: 'Red'
      P10_DAILY_KWH_USAGE_DERIVED:
        Name: 'P5 Daily kWh Usage Derived'
        Color: 'Green'
  LP_CLASS:
    Name: 'LP Class'
    Facts:
      P90_DAILY_KWH_USAGE_AGG:
        Name: 'P90 Daily kWh Usage Aggregated'
        Color: 'Red'
      P10_DAILY_KWH_USAGE_AGG:
        Name: 'P10 Daily kWh Usage Aggregated'
        Color: 'Green'
Chart2:
  Height: 100
  METRICS:
    #ACTUAL_KWH_REGISTER:
    #   Name: 'Actual kWh Register'
    #   Color: 'Blue'
    #ACTUAL_KWH_REGISTER_OVERLAP:
    #   Name: 'Actual kWh Register Overlap'
    #   Color: 'Green'
  COUNTS:
    DAILY_POWER_OUT_CNT:
    Name: 'Power Outages'
    Color: 'Black'
Chart3:
  Height: 50
  METRICS:
    #ACTUAL_VRMS:
    #   Name: 'Actual VRMS'
    #   Color: 'Purple'
MONTHLY:
  Name: 'Monthly'
  Chart1:
    Height: 250
    View:
      Single:
        Enabled: True
      Double:
        Enabled: True
      All:
        Selected: True
        Enabled: True
      Best:
        Enabled: True
      Stacked:
        Enabled: True
    Fact_Categories:
      kWh:
        Selected: True
        Name: 'kWh'
        Facts:
          MONTHLY_SUM_DAILY_KWH_USAGE_DERIVED: 'Derived'
          MONTHLY_SUM_DAILY_KWH_USAGE_AGG: 'Aggregated'
  Chart2:
    Height: 50
    METRICS:
WEEKLY:
  Name: 'Weekly'
  Chart1:
    Height: 250
    View:

```

```

    Single:
      Enabled: True
    Double:
      Enabled: True
    All:
      Selected: True
      Enabled: True
    Best:
      Enabled: True
    Stacked:
      Enabled: True
  Fact_Categories:
    kWh:
      Selected: True
      Name: 'kWh'
      Facts:
        WEEKLY_SUM_DAILY_KWH_USAGE_DERIVED: 'Derived'
        WEEKLY_SUM_DAILY_KWH_USAGE_AGG: 'Aggregated'

  Chart2:
    Height: 50
    METRICS:

INT_3600:
  Name: 'Hourly'
  Chart1:
    Height: 300
    View:
      Single:
        Enabled: True
      Double:
        Enabled: True
      All:
        Enabled: True
      Best:
        Selected: True
        Enabled: True
      Stacked:
        Enabled: True
    Fact_Categories:
      kWh:
        Name: 'kWh'
        Facts:
          # INT_3600_KWH_USAGE: 'Usage'
          # INT_3600_KWH_USAGE_DERIVED: 'Derived'

  Chart2:
    Height: 150
    METRICS:
      #INT_3600_KWH_USAGE_RAW:
        # Name: 'Hourly kWh Raw Consumption'
        # Color: 'Blue'

INT_1800:
  Name: '30 Minute'
  Chart1:
    Height: 300
    View:
      Single:
        Enabled: True
      Double:
        Enabled: True
      All:
        Enabled: True
      Best:
        Selected: True
        Enabled: True
      Stacked:
        Enabled: True
    Fact_Categories:
      kWh:
        Name: 'kWh'
        Facts:

```

```

                                INT_1800_KWH_USAGE: 'Usage'
    Chart2:
      Height: 50
      METRICS:

INT_900:
  Name: '15 Minute'
  Chart1:
    Height: 300
    View:
      Single:
        Enabled: True
      Double:
        Enabled: True
      All:
        Enabled: True
      Best:
        Selected: True
        Enabled: True
      Stacked:
        Enabled: True
    Fact_Categories:
      kWh:
        Name: 'kWh'
        Facts:
          INT_900_KWH_USAGE_DEP: 'Usage'

    Chart2:
      Height: 50
      METRICS:

# Super Event/Relation/Segment Panel Config
Event:
  Labels:
    Visible: True
    timeBasis: 'Time Basis'
    factCategory: 'Fact Category'
    viewMode: 'View'
    fact_1: 'Fact Name'

SECOND:
  Selected: True
  Name: 'Actual'
  Chart1:
    View:
      Single:
        Enabled: True
      All:
        Selected: True
        Enabled: True
    Fact_Categories:
      #Event:
        #Name: 'Event'
        #FTC: 'EVENT' # Fact Type Code, Required

CUSTOM_SETS:
  Meter_Set:
    Name: 'Meter Events'
    EVENT:
      (GS)_STANDBY_ACCUMULATION_ERROR: '(GS) Standby Accumulation Error'
      (GS)_ENDPOINT_TIME_SYNCHRONIZATION: '(GS) Endpoint Time Synchronization'
      (GS)_LEADING_KVARH: '(GS) Leading kvarh'
      (GS)_VOLTAGE_MAX_THRESHOLD: '(GS) Voltage Max Threshold'
      (GS)_RECEIVED_KWH: '(GS) Received kWh'
      (GS)_FIRMWARE_DEBUG_1: '(GS) Firmware Debug 1'
      (GS)_TIME_ADJUSTMENT_ERROR: '(GS) Time Adjustment Error'
      (GS)_VOLTAGE_MIN_THRESHOLD: '(GS) Voltage Min Threshold'
      (GS)_EXCEEDS_THE_MAXIMUM_ALLOWABLE_LAYERS_EVENT: '(GS) Exceeds the maximum al
      (GS)_DCW_PRE-EMPTED_OR_REMOVED: '(GS) DCW pre-empted or removed'
      (GS)_ENDPOINT_POWER_OUTAGE: '(GS) Endpoint Power Outage'
      (GS)_RF_SYSTEM_STATUS_UPDATED: '(GS) RF System status updated'

```



```
(GS) RF System status updated: '(GS) Demand Reset Occurred'  
(GS)_LARGE_DCW_INSTALLED: '(GS) Large DCW installed'  
(GS)_SMALL_DCW_INSTALLED: '(GS) Small DCW installed'  
(GS)_ENDPOINT_POWER_RESTORE: '(GS) Endpoint Power Restore'  
(GS)_RESIDENTIAL_ENERGY_THRESHOLD_EXCEEDED: '(GS) Residential Energy Threshold'  
(GS)_PRIMARY_POWER_DOWN: '(GS) Primary Power Down'  
(GS)_SCHEDULED_DEMAND_RESET_SUCCESS: '(GS) Scheduled Demand Reset Success'  
(GS)_ENDPOINT_COLLECTOR_ASSOCIATION_CHANGED: '(GS) Endpoint Collector Association'  
(GS)_NEXT_DEMAND_RESET_DATE_CHANGED: '(GS) Next Demand Reset Date Changed'
```

```
RELATION:  
SEGMENT:
```

```
Account_Set:
```

```
Name: 'Account Events'  
EVENT:
```

```
CONTACT_110_-  
HIGH_BILL_INQUIRY: 'Contact: 110 - High Bill Inquiry'  
CONTACT_112_-  
METER_READ_QUESTIONS: 'Contact: 112 - Meter Read Questions'  
CONTACT_120_-  
CUSTOMER_INFORMATION_UPDATE: 'Contact: 120 - Customer Information Update'  
CONTACT_301_-CLOSE_ACCOUNT: 'Contact: 301 - Close Account'  
CONTACT_302_-DEMOLITION: 'Contact: 302 - Demolition'  
CONTACT_304_-NEW_SERVICE: 'Contact: 304 - New Service'  
CONTACT_306_-OPEN_ACCOUNT: 'Contact: 306 - Open Account'  
CONTACT_307_-OWNER_QUESTIONS: 'Contact: 307 - Owner Questions'  
CONTACT_313_-  
TEMPORARY_DISCONNECT: 'Contact: 313 - Temporary Disconnect'  
CONTACT_314_-ACCOUNT_TRANSFER: 'Contact: 314 - Account Transfer'
```

```
RELATION:  
SEGMENT:
```

```
DR_Set:
```

```
Name: 'DataRaker Events'  
EVENT:
```

```
(D)_ISOLATED_POWER_OUT_FLAG: '(D) Isolated Power Out Flag'  
(D)_TX_POWER_OUTAGE_FLAG_BK: '(D) TX Power Outage Flag bk'  
(D)_DEMAND_RESET_DATE: '(D) Demand Reset Date'  
(D)_UP_TREND_FLAG: '(D) Up Trend Flag'  
(D)_ISOLATED_POWER_OUT_FLAG_BK: '(D) Isolated Power Out Flag bk'  
(D)_DAILY_REGISTER_ROLLOVER: '(D) Daily Register Rollover'  
(D)_UP_TICK_FLAG: '(D) Up Tick Flag'  
(D)_REGISTER_REVERSE_ERROR_DR: '(D) Register Reverse Error DR'  
(D)_TX_POWER_OUTAGE_FLAG: '(D) TX Power Outage Flag'  
(D)_DEMAND_RESET_FLAG: '(D) Demand Reset Flag'  
(D)_DOWN_TREND_FLAG: '(D) Down Trend Flag'  
(D)_DOWN_TICK_FLAG: '(D) Down Tick Flag'  
(D)_REGISTER_GAP_FLAG: '(D) Register Gap Flag'  
(D)_REGISTER_STATIC_FLAG: '(D) Register Static Flag'  
(DR)_DAILY_ISOLATED_POWER_OUT_FLAG: '(DR) Daily Isolated Power Out Flag'  
(DR)_DAILY_REGISTER_GAP_FLAG: '(DR) Daily Register Gap Flag'  
(DR)_DAILY_POWER_OUTAGE_FLAG: '(DR) Daily Power Outage Flag'
```

```
chart2:
```

```
EVENT:
```

```
#DAILY_KWH_REGISTER_STATIC: 'Register Static'  
#DAILY_KWH_REGISTER_STATIC: 'Static Register'  
#DAILY_KWH_REGISTER_SPIKE: 'Spike Register'  
#DAILY_KWH_REGISTER_ZERO: 'Zero Register'  
#DAILY_KWH_REGISTER_ROLLOVER: 'Rollover Register'
```

```
RELATION:
```

```
#ZIP: 'Zip'
```

```
SEGMENT:
```

```
chart3:
```

```
EVENT:
```

```
RELATION:
```

```
#LINE_TX: 'Line TX'
```

```
SEGMENT:
```

```
### LINE TRANSFORMER ###  
LINE_TX:
```

```

# 'Add Panel' dropdown options - These are available panels for this ptc
dropdown_view:
  label: 'View'
  options:
    - metricSuper: 'Metric'
    - map: 'Map'
  default_open:
    - metricSuper
    - map
# Super Metric Panel Config
Metric:
  Labels:
    Visible: True
    timeBasis: 'Time Basis'
    factCategory: 'Units of Measure'
    viewMode: 'Chart Type'
    fact_1: 'Data Type 1'
    fact_2: 'Data Type 2'
    benchmark: 'Benchmark'
    factTypeW: 'Weather'
    agg: 'Statistics'

DAILY:
  Selected: True
  Name: 'Daily'
  Chart1:
    Height: 250
    View:
      Single:
        Enabled: True
      Double:
        Enabled: True
      All:
        Selected: True
        Enabled: True
      Best:
        Enabled: True
      Stacked:
        Enabled: True
    Fact_Categories:
      kWh Avg:
        Selected: True
        Name: 'kWh'
        Facts:
          AVG_DAILY_KWH_USAGE_DERIVED: 'Avg Daily kWh Derived'
    Chart2:
      Height: 50
      METRICS:
        #ACTUAL_VRMS:
        #   Name: 'Actual VRMS'
        #   Color: 'Purple'

#### ZIP CODE ####
ZIP:
# 'Add Panel' dropdown options - These are available panels for this ptc
dropdown_view:
  label: 'View'
  options:
    - metricSuper: 'Metric'
  default_open:
    - metricSuper
# Super Metric Panel Config
Metric:
  Labels:
    Visible: True
    timeBasis: 'Time Basis'
    factCategory: 'Units of Measure'
    viewMode: 'Chart Type'
    fact_1: 'Data Type 1'
    fact_2: 'Data Type 2'
    benchmark: 'Benchmark'
    factTypeW: 'Weather'

```

agg: 'Statistics'