Oracle DataRaker

Configuration Guide Release 3.8.0.2.0 **E65289-01**

April 2016



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E65289-01

April 2016

Documentation build: 6.1.2016 13:45:47 [ODR_1464813947000]

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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.
varname	Constant width italic indicates a user interface choice.
constant width type in a shaded block.	Used for code examples.
constant width	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.

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 a rapidly 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, or feeder). DataRaker also supports customized analytics that are built to meet distinct customer needs.

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

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.

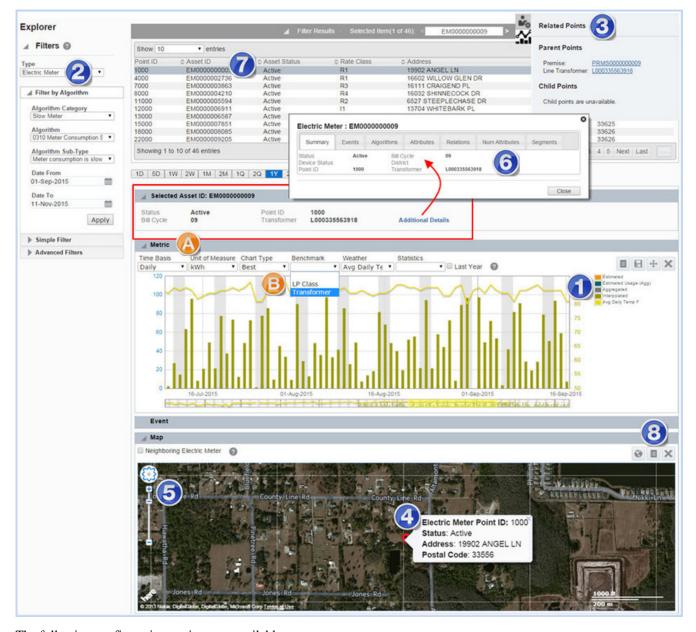
User Types and Roles

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	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.
		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.

NOTE:

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

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.

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

- 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.

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 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	
COLORS:	Beginning of the COLORS: definition.	
<pre>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>	factBasedColors: This section controls the specific fact color definitions. These are optional, 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.	
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)"	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	

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(210, 90, 120)" # alt color: color6 for chart "rgb(215, 154, 0)" # alt color: color6 for chart "rgb(77, 77, 77)" # MIN color "rgb(77, 77, 77)" # MAX color "rgb(77, 77, 77)" # AVERAGE color "rgb(77, 77, 77)" # VERAGE color "rgb(190, 42, 42)" # 10th percentile color "rgb(90, 238, 0)" # 90th percentile color "rgb(90, 238, 0)" # 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 RBG 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 serie enchmark and Load Profile panels, as these
 "rgb(178, 34, 34)" # red color for bottom chart series 2 panels have 2 charts (top and bottom). Addition
 "rgb(0, 255, 127)" # green color for bottom chart series 3 and removals should typically not be necessary.
- "rgb(0, 255, 127)" # green color for bottom chart series 3 and temovals should typically not be necessary "rgb(147, 112, 219)" # purple color for bottom chart series Top adjust the colors of the bars, simply change
- "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 RBG 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)"

highlightColor:

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

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 RBG color codes.

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 RBG color code.

Configuring Search Filters

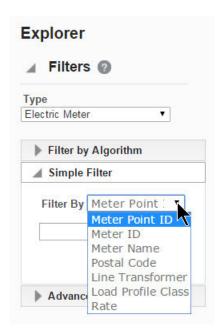
Filters configuration controls the drop-down list options for a standard search.

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.

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 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.

status.

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

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 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:

```
PointTypeCodel configuration settings...

PointTypeCode2 configuration settings...
```

code block	description
EM: - table: POINT label: 'Meter ID' column: pointID table: POINT label: 'Meter Lookup' column: pointLookup table: POINT label: 'Meter Tag' column: pointTag table: POINT label: 'Meter Name' column: pointName table: FACT label: 'Rate' column: fact_lookup RATE	EM: search options provides search by: • Electric Meter Point ID • Electric Meter Lookup Code • Electric Meter Name • Rate Class NOTE: When the table is FACT, specify column: by fact_lookup LOOKUP_VALUE When the table is POINT, specify column: by column_name
GM: - table: POINT	GM: search options provides search by:

description code block label: 'Gas Meter ID' Gas Meter Point ID column: pointID - table: POINT Gas Meter ID label: 'Gas Meter Lookup' column: pointLookup Gas Meter Name - table: POINT Rate Class label: 'Gas Meter Tag' column: pointTag - table: POINT label: 'Gas Meter Name'
column: pointName - table: FACT label: 'Rate'
column: fact_lookup|RATE WM: WM: search options provides search by: - table: POINT label: 'Water Meter ID' · Water Meter Point ID column: pointID Water Meter ID - table: POINT label: 'Water Meter Lookup' Water Meter Name column: pointLookup - table: POINT Rate Class label: 'Water Meter Tag' column: pointTag - table: POINT label: 'Water Meter Name' column: pointName table: FACT label: 'Rate' column: fact_lookup|RATE LINE_TX: LINE_TX: search options provides search by: - table: POINT label: 'Line Transformer ID' · Line Transformer ID column: pointID Line Transformer Lookup table: POINT label: 'Line Transformer Lookup' Line Transformer Tag column: pointLookup - table: POINT Line Transformer Name label: 'Line Transformer Tag' column: pointTag - table: POINT label: 'Line Transformer Name' column: pointName FEEDER: FEEDER: search options provides search by: - table: POINT label: 'Feeder ID' Feeder Point ID column: pointID Feeder Lookup - table: POINT label: 'Feeder Lookup'
column: pointLookup Feeder Tag - table: POINT Feeder Name label: 'Feeder Tag' column: pointTag - table: POINT label: 'Feeder Name' column: pointName BILL_CYCLE: BILL_CYCLE: search options provides search by: - table: POINT · Bill Cycle ID label: 'Bill Cycle ID' column: pointID - table: POINT · Bill Cycle Lookup label: 'Bill Cycle Lookup' Bill Cycle Tag column: pointLookup - table: POINT Bill Cycle Name label: 'Bill Cycle Tag' column: pointTag table: POINT label: 'Bill Cycle Name'

code block	description
column: pointName	
LP_CLASS: - table: POINT label: 'Load Profile Class ID' column: pointID - table: POINT label: 'Load Profile Class Lookup' column: pointLookup - table: POINT label: 'Load Profile Class Tag' column: pointTag - table: POINT label: 'Load Profile Class Name' column: pointName	 LP_CLASS: search options provides search by: Load Profile Class ID Load Profile Class Lookup Load Profile Class Tag Load Profile Class Name
PRMS: - table: POINT label: 'Premise ID' column: pointID - table: POINT label: 'Premise Lookup' column: pointLookup - table: POINT label: 'Premise Tag' column: pointTag - table: POINT label: 'Premise Name' column: pointName	PRMS: search options provides search by: Premise ID Premise Lookup Premise Tag Premise Name
<pre>ZIP: - table: POINT label: 'Zip Code ID' column: pointID - table: POINT label: 'Zip Code Lookup' column: pointLookup - table: POINT label: 'Zip Code Tag' column: pointTag - table: POINT label: 'Zip Code Name' column: pointName</pre>	 ZIP: search options provides search by: Zip Code ID Zip Code Lookup Zip Code Tag Zip Code Name
RATE: - table: POINT label: 'Rate ID' column: pointID - table: POINT label: 'Rate Lookup' column: pointLookup - table: POINT label: 'Rate Tag' column: pointTag - table: POINT label: 'Rate Name' column: pointName	RATE: search options provides search by: Rate Point ID Rate Lookup Rate Tag Rate Name

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.

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:

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 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

XML: opens the Config XML dialog.

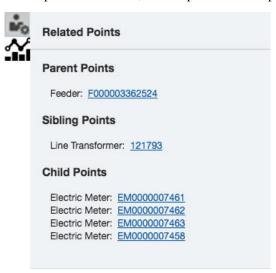
In the data table row, click the XML link.
 The Config XML popup window will open with the configuration XML.

status.

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

code block description GM: - EM RELATION CITY: 'City' - GM|RELATION|PRMS: 'Premise' - GM|RELATION|ACCNT: 'Account' The **Explorer** page would display links to the premise, line transformer, and city when viewing an electric meter. LINE_TX: - LINE_TX | RELATION | FEEDER: 'Feeder' PRMS: - PRMS | RELATION | ZIP: 'Postal Code' CHILDREN_POINTS: LINE_TX: - EM|RELATION|LINE_TX: 'Electric Meter' SIBLING_POINTS: EM: - ZIP GM: 'Gas Meter' LINE_TX: - FEEDER | LINE_TX: 'Line Transformer'

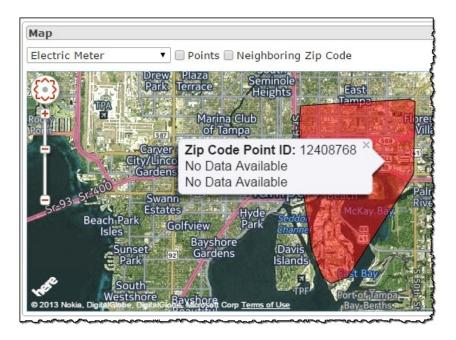
Configuring Map Popup Information

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.

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:

```
description
code block
PointTypeCode1
                                                                                   Each Point Type Code configuration includes five
     GENERAL_SETTINGS:
                                                                                   groupings of options:
         background_color:
          text_color:
                                                                                      General Settings
          font:
     POINT INFO:
                                                                                      • background_color: popup background
          PTC | RELATION | RELATION_NAME:
                                                                                         color. The color can be defined by a hex
          PTC LABEL LABEL_NAME:
                                                                                         color code or a standard color name.
PointTypeCode2
                                                                                      • text_color: popup text color. color
 configuration settings...
                                                                                         can be defined by a hex color code or a
                                                                                         standard color name.
                                                                                      • font: size and font face for the popup text.
                                                                                     Point Information
                                                                                         Relations: point type relations, as
```

code block description

```
GM:
   GENERAL_SETTINGS:
       background_color: '#ffffff'
        text_color: '#000000'
       font: '14px arial'
   POINT_INFO:
        STATUS:
           FTC: 'RELATION'
           Label: "Status"
        ADDRESS1:
           FTC: 'ATTRIBUTE'
            Label: "Address"
           FTC: 'RELATION'
           Label: 'Postal Code'
        BILL_CYCLE:
            FTC: 'RELATION'
```

GM: gas meter popup dialog display instructions.

applicable.

· Label: point type label, as applicable

```
Label: "Bill Cycle"
    LINE_TX:
                                                      LINE_TX: line transformer popup dialog display instructions.
        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:
                                                      EM: electric meter popup dialog display instructions.
        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"
             ZTP:
                 FTC: 'RELATION'
                 Label: 'Postal Code'
                                                      BILL_CYCLE: electric popup dialog display instructions.
BILL_CYCLE:
        GENERAL_SETTINGS:
             background_color: '#ffffff'
             text_color: '#000000'
             font: '14px arial'
        POINT INFO:
            LINE_TX:
                 FTC: 'RELATION'
                 Label: "Transformer"
ZIP:
                                                      ZIP: zip code popup dialog display instructions.
    GENERAL_SETTINGS:
        background_color: '#ffffff'
        text_color: '#000000'
        font: '14px arial'
    POINT_INFO:
        ZIP | RELATION |
LINE_TX: "Line Transformer"
        ZIP | RELATION | ZIP: "Zip Code"
PRMS:
                                                      PRMS: premise popup dialog display instructions.
        GENERAL_SETTINGS:
            background_color: '#ffffff'
             text_color: '#000000'
             font: '14px arial'
        POINT_INFO:
             STD_PLACE:
                 FTC: 'RELATION'
                 Label: "STD_PLACE"
```

Configuring Map Rendering

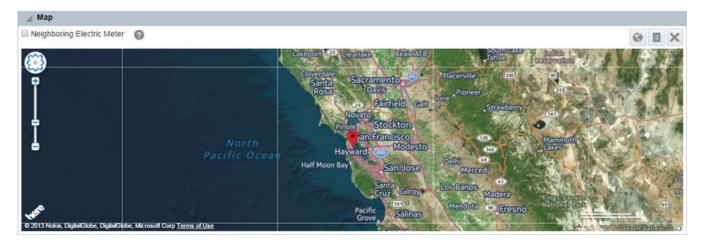
Map rendering configuration determines how a point type code is displayed in the map panel. Point type codes with a discrete location are displayed as a pin-like pointer and point type codes that cover an area are displayed with a polygon. In this section outlines the options to configure display limits,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

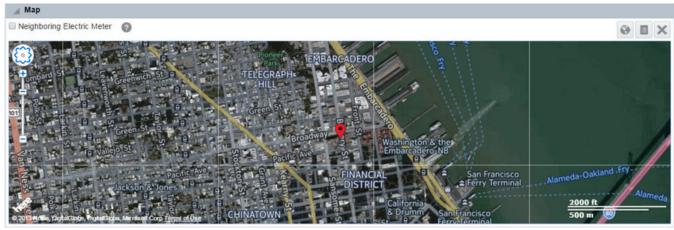
Configuration options include:

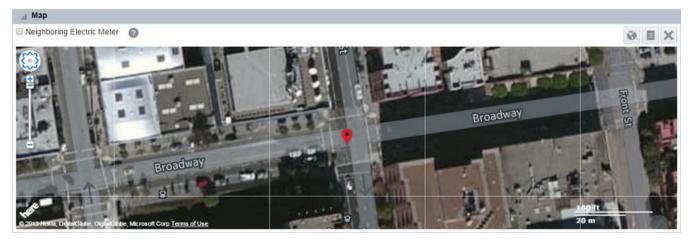
• Whether to render as point, area, or both.



• 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:





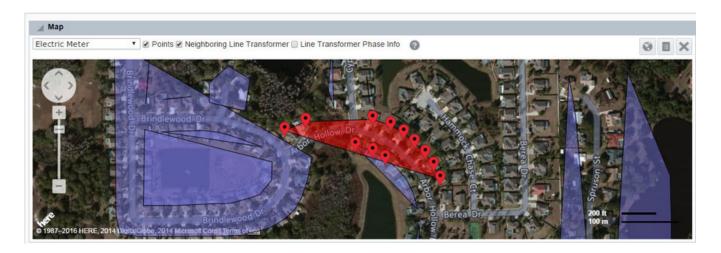


A zoom level of 16 is generally appropriate for discrete point types such as electric meters.

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.

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.

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		
PointTypeCod		
GENERAL_SETT		
	metrics:	
	related_point_types:	
	default_zoom:	
	<pre>peer_point_limit:</pre>	
	<pre>peer_polygon_limit:</pre>	
	<pre>polygon_point_limit:</pre>	
	radius:	
	show_point:	
	show_area:	
	_	

• General Settings

description

 metrics: what consumption values are available. This option is for future use.

Each Point Type Code configuration includes four

- 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); 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.

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

le block

```
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: '#fffff1'
        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'
```

description

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.

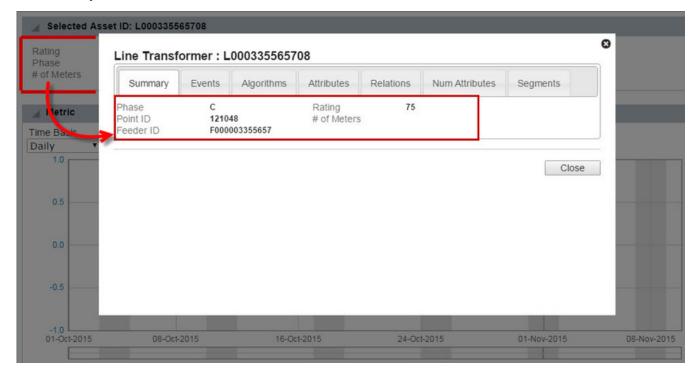
- metrics: metrics are not in use.
- related_point_types: No related types.
- default_zoom: Default zoom is 14.
- peer_point_limit: Peer point limit is 5000 points.
- peer_polygon_limit: polygon limit is 1000 points.
- polygon_point_limit: polygon point limit is 3000 points.
- radius: Radius for neighboring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

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

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.



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.

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.

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

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.

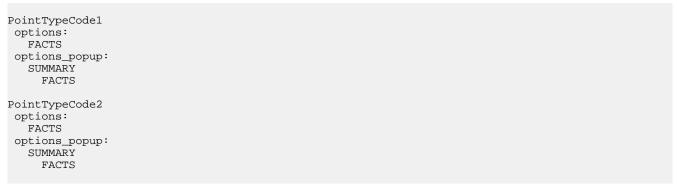
5. Click **Edit** to enable edit mode.

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:





Electric Meter: EM0000000009 Summary Algorithms Attributes Relations Num Attributes Segments Events Status Bill Cycle Active **Device Status** District Hillsborough Enabled Point ID Transformer L000335563918 1000

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
ЕМ:	The configuration begins with the name of the point type code ($e.g.$, ${\it EM}$).
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' LINE_TX: Label: 'Transformer' FTC: 'RELATION' BILL_CYCLE: Label: 'Bill Cycle'	STATUS:, LINE_TX:, and BILL_CYCLE: brings in these details to the point's information.

code block description

FTC: 'RELATION'

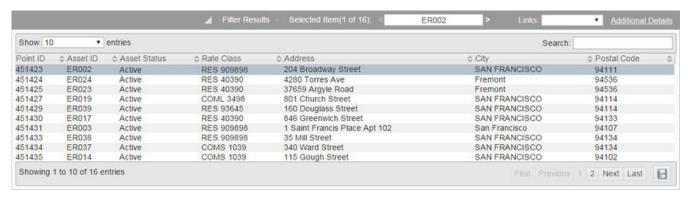
Point Information on Popup

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.



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.

- **4.** Complete the following fields:
 - a) 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.

- **b) Config Description**: enter a description; for example, "POINT_SEARCH_COLUMN 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_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.

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_SEARCH_COLUMN
- 3. 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.



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	
EM:	The configuration begins with the name of the point type code ($e.g.$, EM).	
- STANDARD: pointID: 'Point ID' pointName: 'Asset ID'	The STANDARD: section controls base point items such as pointID, pointName, pointLookup, pointTag, etc.	
	This section allows the grid to display these items and label them as needed. In this example, we name pointName as Asset ID because customers are more familiar with that name.	
- 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'	After STANDARD:, the configuration lists fact lookups with nested label and FTC sections. In this sample, STATUS is a fact lookup, Label defines the logical column name, and FTC is relation because STATUS is a relation type fact. The grid supports both ATTRIBUTES and RELATIONS. NOTE: STANDARD: should always be first, but the order that the facts are declared defines to the order of the columns of the UI grid.	
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'	The same format is then applied to all other required PTCs. NOTE: This configuration is optional. If it does not exist, or is not defined properly, the grid will default to base options of pointID, pointLookup, etc.	

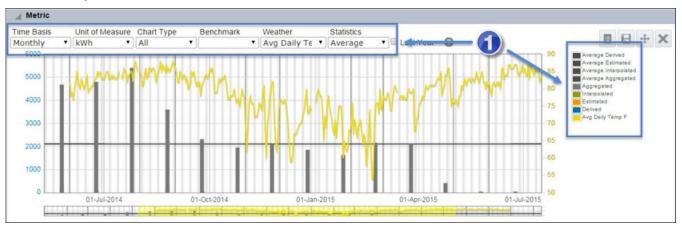
Chapter 11

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
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 drop-down content is also configurable.
Heat Map	The Heat Map panel displays transformer overload conditions over time.
Мар	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:
	 Map appearance and behavior are configured with MAPS_RENDER_AS and MAPS_ INFO_POPUP configuration.
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 drop-down label and drop-down content is also configurable.
Transformer Load Management	The Transformer Load Management panel displays the load on a transformer over time. The panel displays the transformer load in a top chart and meter consumption (kWh) or voltage in the bottom chart.

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.

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 Rakesfor 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:	

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.

Column Name • 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

XML: opens the Config XML dialog.

4. Click the XML link.

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

status.

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...

PointTypeCodel
   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>	 The default configuration is required. Add it above any point type code definitions. The dropdown_viewoptions 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>	 Under the dropdown_view heading in the default section, add a default_open 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 metric 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:</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).
dropdown_view: label: 'View' options: - metricSuper: 'Metric' - eventSuper: 'Event' - map: 'Map'	The dropdow_view: and its corresponding options are no longer being used.
default_open: - metricSuper - eventSuper - map	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 multiple charts 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 received from data collection.
- Account Events, such as move-in/move-out, customer call to call center, etc., that are provided by a customer information system (CIS),
- Derived Events that are identified by DataRaker core processes.
- Lists that 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
Event:	
Labels: Visible: True timeBasis: 'Time Basis' actCategory: 'Fact Category' viewMode: 'View' fact 1: 'Fact Name'	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 texts in quotes can be changed to whatever is desired to label the drop-down. The visible flag

code block description

can be either true or false and defines whether any drop-down labels should be visible at all.

```
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:
```

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.

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.

- 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 drop-down. The visible flag can be either true or false and defines whether any drop-down 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.

code block description

Name: the name that will be displayed as an option. Chart1: • Chart1: has many options to configure. Height: 250 View: Height: controls the vertical height of the chart. Enabled: True Double: View: controls the mode of the chart. Enabled: True All: Single: allows the section of one fact. Enabled: True Double: allows two different facts. Best: Selected: True Enabled: True All: shows every fact for a selected fact category in a side-by-side Stacked: bar chart display. Enabled: True Fact_Categories: Best defines the "Best" option for the selected fact category. kWh: Selected: True Stacked: is similar to All in that is shows all the facts for a given Name: 'kWh' fact category, except the bars are displayed stacked on top of each Facts: other rather than side by side. DAILY_KWH_USAGE_DERIVED: 'Derived' DAILY_KWH_USAGE_AGG: 'Aggregated' DAILY_KWH_USAGE_EST: 'Estimated' DAILY_KWH_USAGE_INTER: 'Interpolated' Each of these options can be disabled by setting Enabled to Vrms: False. The 'selected' one will be the default. Name: 'Volt' Facts: DAILY_VRMS: 'Vrms' DAILY_VRMS_AGG: 'Aggregated Vrms' Fact_Categories contains a nest of fact category look-ups. Afterward, there is a set of options; such as whether it should be Benchmark: default selected. There is also the fact category's accessible name LINE_TX: Name: 'Transformer' and a list of fact look-ups that are children of the fact category. Benchmark, or level, shows relationship data to a parent point, P90_DAILY_KWH_USAGE_DERIVED: Name: 'P95 Daily kWh Usage Derived' such as line_tx from a meter level. The friendly name is Color: 'Red' configured along with the fact lookup of the parent relation, friendly P10_DAILY_KWH_USAGE_DERIVED: name, as well as what color the benchmark line should use. 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: After Chart 1 is defined, there is an optional set of charts 2-5, all Height: 100 declared in a similar fashion. The Height is set and is followed by METRICS: METRICS, which contain fact lookup coupled with a friendly name and ACTUAL KWH REGISTER: Name: 'Actual kWh Register' color. Color: 'Blue' ACTUAL_KWH_REGISTER_OVERLAP: Name: 'Actual kWh Register'

Heat Map

The Heat Map ...

Color: 'Green'

code block description Heat: Heat: begins the configuration section.

code blo	ock	description
Labels:	: Visible: True timeBasis: 'Time Basis' factCategory: 'Fact Category' fact: 'Fact Name'	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 may be changed to whatever is desired to label the drop-down.
INT_36	500: Name: 'Hourly' Chart1: Fact_Categories: kWh Phase: Name: 'kWh Phase' Facts: SUM_INT_3600_KWH_USAGE_INTER SUM_INT_3600_KWH_USAGE_PHASE	The items are tiered by time basis Chart1 and Fact_Categories are standard anchors and should not be altered or removed. kWh Phase and kWh Average are examples of a fact category lookup. The name is the drop-down name. Facts declare fact lookups along PHASE TIED TO LATER POLATED With their friends pane.
	kWh Avg: Name: 'kWh Avg' Facts: AVG_INT_3600_KWH_USAGE: 'Ave	erage Usage'

Transformer Load Management (TLM)

The Transformer Load Management panel combines transformer load information in the top chart with connected meter information in the bottom chart.

code block	description
TLM:	TLM: begins the configuration section.
Labels: Visible: True timeBasis: 'Time Basis' factCategory: 'Fact Category' fact_1: 'Fact Name' factTypeW: 'Weather'	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 may be changed to whatever is desired to label the drop-down.
Rating_Fact: 'RATING' # transformer rating Count_Fact: 'CNT_INT_3600_KWH_USAGE_EST' #nd Rating_Percentiles: - 100 - 165	 Rating Fact declares the fact lookup for the transformer's rating value. Count_Fact declares the fact for the number of contributing meters. Rating_Percentiles controls the two percentage values for rating (for example: 100%, 165%).
INT_3600: Name: 'Hourly' Chart1: # Line_Tx View Height: 150 Fact_Categories:	The items are tiered by time basis. Name controls the friendly time basis name Chart1 controls the transformer view chart. A height can be set along with various fact categories and their respective friendly names. ase '
Chart2: # Meter View Height: 150 METRICS: - kWh	Chart2 controls the meter view chart. A height can be declared along with METRICS, which are fact categories controlling which Metric fact will render in the bottom chart.

code block description

- Volt

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
    - 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: '#fffff1'
        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'
    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

```
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 ####
    # '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
                         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'
        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: 'Houly kWh Raw Consumption'
Color: 'Blue'
            #
            #
INT_1800:
   Name: '30 Minute'
   Chart1:
       Height: 300
        View:
            Single:
               Enabled: True
            Double:
                Enabled: True
                Enabled: True
            Best:
                Selected: True
                Enabled: True
            Stacked:
                Enabled: True
        Fact_Categories:
            kWh:
                Name: 'kWh'
                Facts:
```

```
INT_1800_KWH_USAGE: 'Usage'
        Chart.2:
            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
                 A11:
                     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 Threshol
                                 (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 Associa
                                 (GS)_NEXT_DEMAND_RESET_DATE_CHANGED: '(GS) Next Demand Reset Date Changed'
                            RELATION:
                            SEGMENT:
                        Account_Set:
                            Name: 'Account Events'
                                 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'
                                 (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:
         - tlm: 'Transformer Load Management'
         - heat: 'Heat'
         - map: 'Map'
         - eventSuper: 'Event'
    default_open:
# TLM Panel Config
TLM:
    Labels:
        Visible: True
         timeBasis: 'Time Basis'
         factCategory: 'Fact Category'
         fact_1: 'Fact Name'
         factTypeW: 'Weather'
     Rating_Fact: 'RATING' # transformer rating
    Count_Fact: 'CNT_INT_3600_KWH_USAGE_EST' #number of connect meters
     Rating_Percentiles:
         - 100
         - 165
     INT_3600:
         Name: 'Hourly'
         Chart1: # Line_Tx View
             Height: 150
             Fact_Categories:
                 kWh Aggregated by Phase:
                     Name: 'kWh Aggregated by Phase'
                 kWh Aggregated:
                    Name: 'kWh Aggregated'
                 Average Volt:
                     Name: 'Volt'
         Chart2: # Meter View
             Height: 150
             METRICS:
                - kWh
                 - Volt
# Heat Map
Heat:
    Labels:
        Visible: True
         timeBasis: 'Time Basis'
         factCategory: 'Fact Category'
         fact: 'Fact Name'
     INT_3600:
         Name: 'Hourly'
         Chart1:
             Fact_Categories:
                 kWh Phase:
                     Name: 'kWh Phase'
                         SUM_INT_3600_KWH_USAGE_INTER_PHASE_C: 'Interpolated C'
                         SUM_INT_3600_KWH_USAGE_PHASE_B: 'Usage B'
                 kWh Avg:
                     Name: 'kWh Avg'
                     Facts:
                         AVG_INT_3600_KWH_USAGE: 'Average Usage'
 # 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'
            #
            #
   INT_3600:
        Name: 'Hourly'
        Selected: True
        Chart1:
            Height: 250
            View:
                Single:
                    Enabled: True
                Double:
                    Enabled: True
                A11:
                    Selected: True
                    Enabled: True
                Best:
                    Enabled: True
                Stacked:
                   Enabled: True
            Fact_Categories:
                kWh Aggregated by Phase:
                    Selected: True
                    Name: 'kWh Aggregated by Phase'
                    Facts:
                kWh Aggregated:
                   Name: 'kWh Aggregated'
                    Facts:
                Average Volt:
                    Name: 'Volt'
                    Facts:
        Chart2:
            Height: 50
            METRICS:
                #ACTUAL_VRMS:
                # Name: 'Actual VRMS'
```

```
Color: 'Purple'
     # Super Event/Relation/Segment Panel Config
     Event:
          Labels:
              Visible: True
              timeBasis: 'Time Basis'
              factCategory: 'Event Category'
              viewMode : 'View'
              fact_1: 'Fact Name'
          DAILY:
              Selected: True
              Name: 'Daily'
              Chart1:
                  View:
                      Single:
                          Enabled: True
                      All:
                          Selected: True
                          Enabled: True
                  Fact_Categories:
                      DR Core:
                          Name: 'DR Core'
                          Selected: True
                          FTC: 'EVENT' # Fact Type Code, Required
                  CUSTOM_SETS:
              chart2:
                  EVENT:
                      #DAILY_KWH_REGISTER_STATIC: 'Register Static'
                      #DAILY_KWH_REGISTER_GAP: 'Register Gap'
                      #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:
          INT_3600:
              Selected: True
              Name: 'Hourly'
              Chart1:
                  View:
                      Single:
                          Enabled: True
                      A11:
                          Selected: True
                          Enabled: True
                  Fact_Categories:
                      DR Core:
                          Name: 'DR Core'
                          Selected: True
                          FTC: 'EVENT' # Fact Type Code, Required
                  CUSTOM_SETS:
              chart2:
                  EVENT:
                      #DAILY_KWH_REGISTER_STATIC: 'Register Static'
                      #DAILY_KWH_REGISTER_GAP: 'Register Gap'
                      #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:
#### ZIP CODE ####
 ZIP:
      # 'Add Panel' dropdown options - These are available panels for this ptc
     dropdown_view:
```