opCharts Remote Data Widget

Requires opCharts-4.0.9 and Above.

O opCharts 4.5.2 Views ▼ Reports ▼ Events ▼			Search Nodes	Ť	۹	Modules - Syste				
Home / Dashboards / Australian Gold Coast Weather Australian Gold Coast Weather		🔀 Fullscreen 🏼 🖋 Edit Permissio	ons			Filter 15m 👻 🎜				
Success: Australian Gold Coast Weather successfu	ully updated									
Dashboard Info	2	Weather in Gold Coast, AU (15m)								
Description		Timestamp	Wind Speed	Temp	Wind Direction	Pressure	Humidity	Forcast		
roup		2023-01-29T18:00:00	2.3	24.55	22	1012	83	light rain		
ap		2023-01-29T21:00:00	1.94	24.47	5	1013	81	light rain		
Make Default Dashboard		2023-01-30T00:00:00	2.72	24.88	26	1013	77	light rain		
Edit Dachboard		2023-01-30T03:00:00	4.5	25.98	45	1012	69	overcast clouds		
		2023-01-30T06:00:00	4.67	25.48	51	1009	72	light rain		
		2023-01-30T09:00:00	3.47	24.12	45	1010	80	light rain		
		2023-01-30T12:00:00	4.3	23.97	15	1010	81	light rain		
		2023-01-30T15:00:00	1.79	22.86	311	1009	88	light rain		
		2023-01-30T18:00:00	2.38	22.33	317	1008	93	light rain		
		2023-01-30T21:00:00	3.72	22.74	321	1008	92	light rain		
		2023-01-31T00:00:00	4.97	25.56	329	1007	75	light rain		
		2023-01-31T03:00:00	7.08	27.33	2	1005	69	light rain		
		2023-01-31T06:00:00	7.6	26.39	358	1003	81	light rain		
		2023-01-31T09:00:00	6.08	24.47	343	1004	87	moderate rain		
		2023-01-31T12:00:00	4.65	24.2	323	1004	88	light rain		
				u	< 1 2 3 3 3					

opCharts can display tabular data from most JSON endpoints which required no authentication or support token / bearer header tokens.

In this example we are showing weather data from the Gold Coast using the openweathermap.org API

Кеу	Required	Description
Name	•	Name of the component which is shown under the opCharts data sources when creating a dashboard
data_source_type	I	remote_json is used for opCharts to know it needs to make this type of request
model_view	•	opmantek-remote-json for the table view, opmantek-pie to show the data in a pie chart
options.titleText	•	Title of the component shown on the dashboard
remote_paramaters.url	•	URL of your endpoint which returns JSON data
remote_paramaters.auth_type		
remote_paramaters.data_key		
remote_paramaters.pagination		server or client, defaults to server
remote_paramaters.log_request		true or false, omkd_log_level also has to be debug for the web request to written into opCharts.log
private.token		Opmantek Token Auth
table_schema		opCharts - Customising Table Columns
external_url		Hyperlink which displays on the top right of the component
external_url_label		Label for the hyperlink
showLegend		Pie View only, default to true, use false to hide the legen

/usr/local/omk/lib/json/opCharts/components.d

```
example_gold_coast_weather.json
```

```
{
  "name": "Weather in Gold Coast, AU",
  "data_source_type" : "remote_json",
  "model_view" : "opmantek-remote-json",
  "options": {
   "titleText": "Weather in Gold Coast, AU"
 },
  "remote_paramaters": {
    "pagination": "client",
    "url": "https://api.openweathermap.org/data/2.5/forecast?id=2165087&APPID=__YOUR__API__KEY__&units=metric",
    "data_key": "list"
 },
  "table_schema": [
    { "name": "dt",
      "label": "Timestamp",
      "cell": "String",
     "formatter": "UnixTime",
     "editable": false
   },
    { "name": "wind.speed",
      "label": "Wind Speed",
      "cell": "ColouredByLevel",
     "levels": ["red", 75, "orange", 50, "yellow", 25, "green", 0],
     "editable": false
    },
    { "name": "main.temp",
      "label": "Temp",
      "cell": "ColouredByLevel",
      "editable": false,
     "levels": ["red", 30, "orange", 25, "yellow", 18, "green", 0]
    },
    { "name": "wind.deg",
     "label": "Wind Direction",
      "cell": "String",
      "editable": false
    },
    { "name": "main.pressure",
     "label": "Pressure",
     "cell": "String",
     "editable": false
    },
    { "name": "main.humidity",
      "label": "Humidity",
     "cell": "ColouredByLevel",
     "levels": ["red", 75, "orange", 50, "yellow", 25, "green", 0],
     "editable": false
   },
    { "name": "weather.0.description",
     "label": "Forcast",
     "cell": "String",
     "editable": false
    }
 1
}
```

Pie Chart

Showing your own data in the pie chart

Pie Data

```
{
  "replyData": {
    "data": [{
     "name": "irukandji.opmantek.com:magni.opmantek.com:UDP:32760",
     "y": 56.17
   }, {
     "name": "Other",
      "y": 14.18
    }, {
     "name": "magni.opmantek.com:irukandji.opmantek.com:UDP:32760",
     "y": 10.35
    }, {
     "name": "vgw120-example.com:auto-141.opmantek.com:trivnet1",
      "y": 4.82
    }, {
      "name": "auto-119.opmantek.com:ec2-0.0.0.0.compute-1.amazonaws.com:UDP:45056",
      "y": 3.6
    }, {
     "name": "auto-141.opmantek.com:vgw120-example.com:trivnet1",
     "y": 3.25
   }, {
      "name": "magni.opmantek.com:192.168.1.1:UDP:32760",
      "y": 2.39
    }, {
     "name": "magni.opmantek.com:kraken.opmantek.com:UDP:32760",
     "y": 1.84
   }, {
      "name": "vali.opmantek.com:10.152.0.10:http",
      "y": 1.77
    }, {
      "name": "kraken.opmantek.com:magni.opmantek.com:UDP:32760",
      "y": 1.63
   }]
 }
}
```

Example component definition to show a pie chart from opFlow

asgard_pie.json

```
{
  "name": "Pie TopN - Agent asgard",
  "data_source_type" : "remote_json",
  "model_view" : "opmantek-pie",
  "options": {
   "titleText": "Pie TopN - Agent asgard"
 },
  "remote_paramaters": {
    "auth_type": "omk_token",
    "url": "http://example.opmantek.com/en/omk/opFlowSP/agent/192.168.88.254/interface/2/data_model_view.json",
    "requestData" : {
     "data_source": "",
     "dataset_id": 0,
     "model": "opFlow_flows_summary",
      "model_group": 1,
      "model_view": "pie",
      "parameters": {
       "agent" : "5db27d6a731c248b9b953e0a",
       "axis": 0,
       "end_date_raw": null,
        "field": null,
        "filter": null,
        "graph_type": null,
       "group_by": ["src_ip", "dst_ip", "application"],
       "groupby": ["dnsname_src_ip", "dnsname_dst_ip", "application"],
        "interfaces" : {
          "out" : [
             "5db27d6a731c248b9b953e1c"
          ],
          "in" : [
             "5db27d6a731c248b9b953e18"
         ]
      },
        "lineType": "line",
        "summarise": 300,
        "summary_field": "octets",
       "topn": 10,
       "value_column": "octets"
     },
      "translations": [{
       "name": "topn",
        "parameters": {
         "key_columns": ["src_ip", "dst_ip", "application", "app_port"],
         "summary_kvps": ["application", 0, "octets", 2, "packets", 2, "flows", 2, "app_port", 0],
         "topn": 10,
         "value_column": "octets"
       }
      }, {
        "name": "apply_dnsname",
        "parameters": {}
     }]
   }
 },
  "private": {
    "token": "whateverSuitsU!"
 }
}
```

How to use the widget

The first step to create a new component is to add the json descriptor file in the path (A content example can be seen in the example above):

omk/conf/components.d/new_component.json

Once the file is created it can be used as a component in a Dashboard.

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