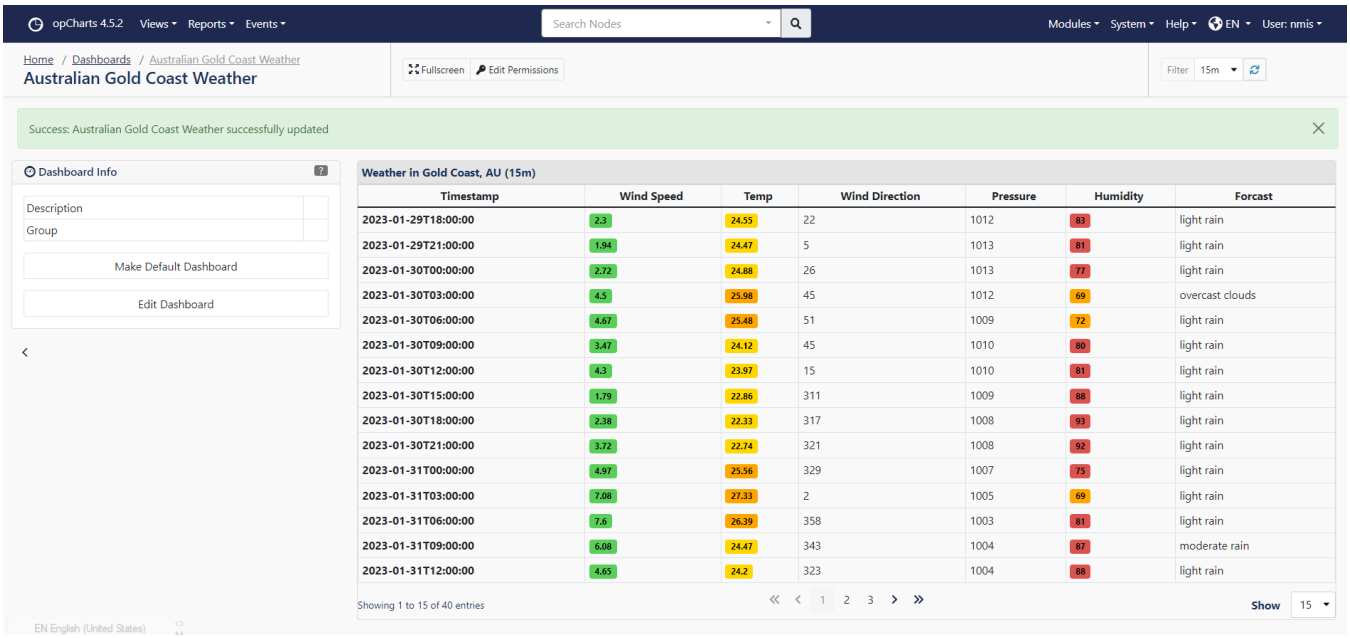
opCharts Remote Data Widget

Requires opCharts-4.0.9 and Above.



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

Key	Required	Description
Name	✔	Name of the component which is shown under the opCharts data sources when creating a dashboard
data_source_type	✔	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
    }
  ]
}
```

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

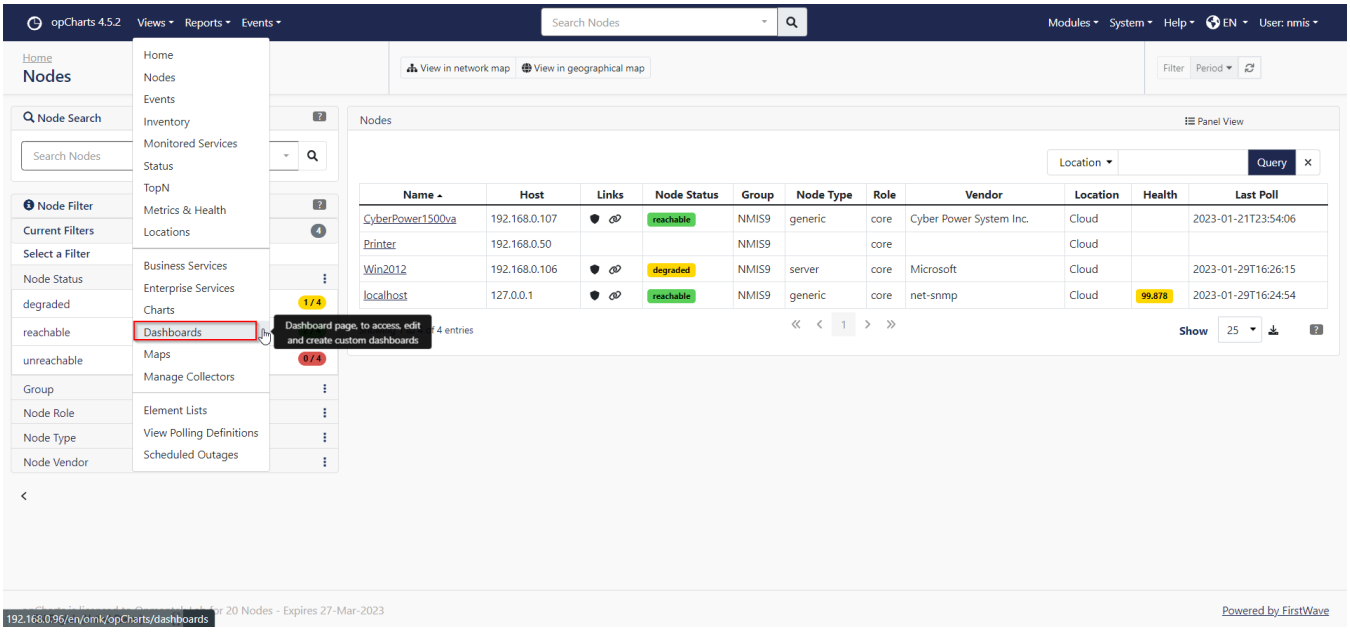
```
{
  "name": "Pie TopN - Agent asgard",
  "data_source_type" : "remote_json",
  "model_view" : "opmantek-pie",
  "options": {
    "titleText": "Pie TopN - Agent asgard"
  },
  "remote_paramaters": {
    "auth_type": "omk_token",
    "url": "http://example.opmantek.com/en/omk/opFlowSP/agent/192.168.88.254/interface/2/data_model_view.json",
    "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!"
  }
}
```

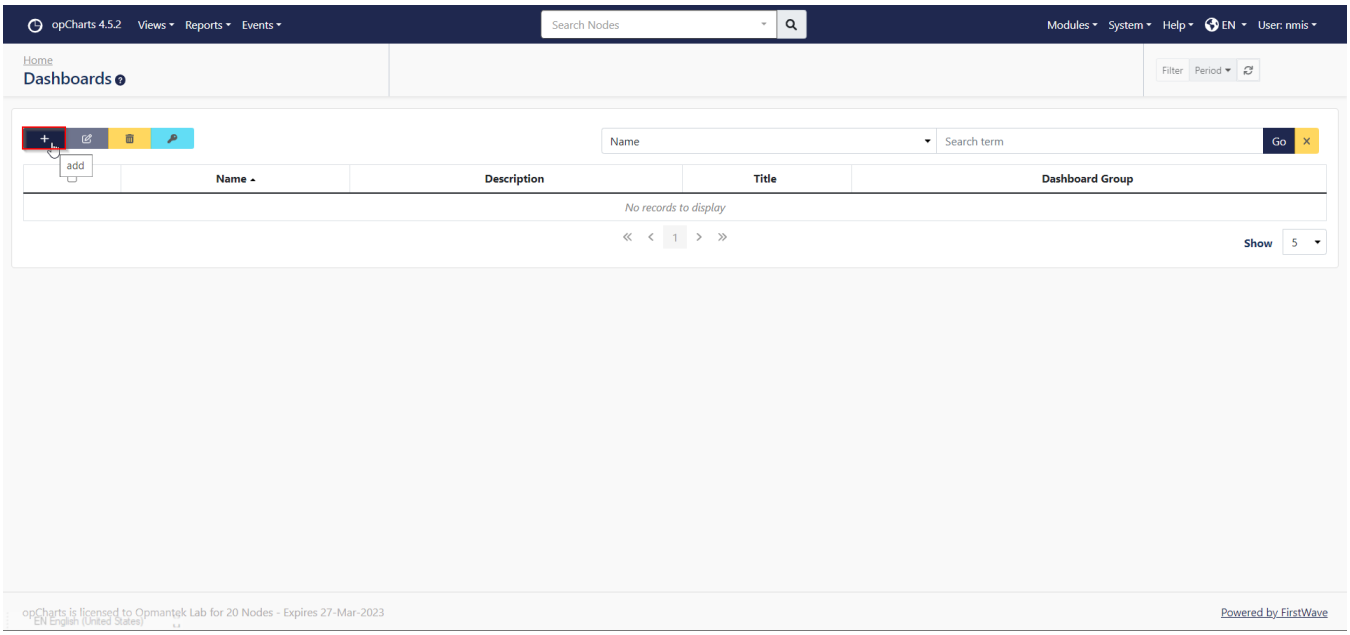
How to use the widget

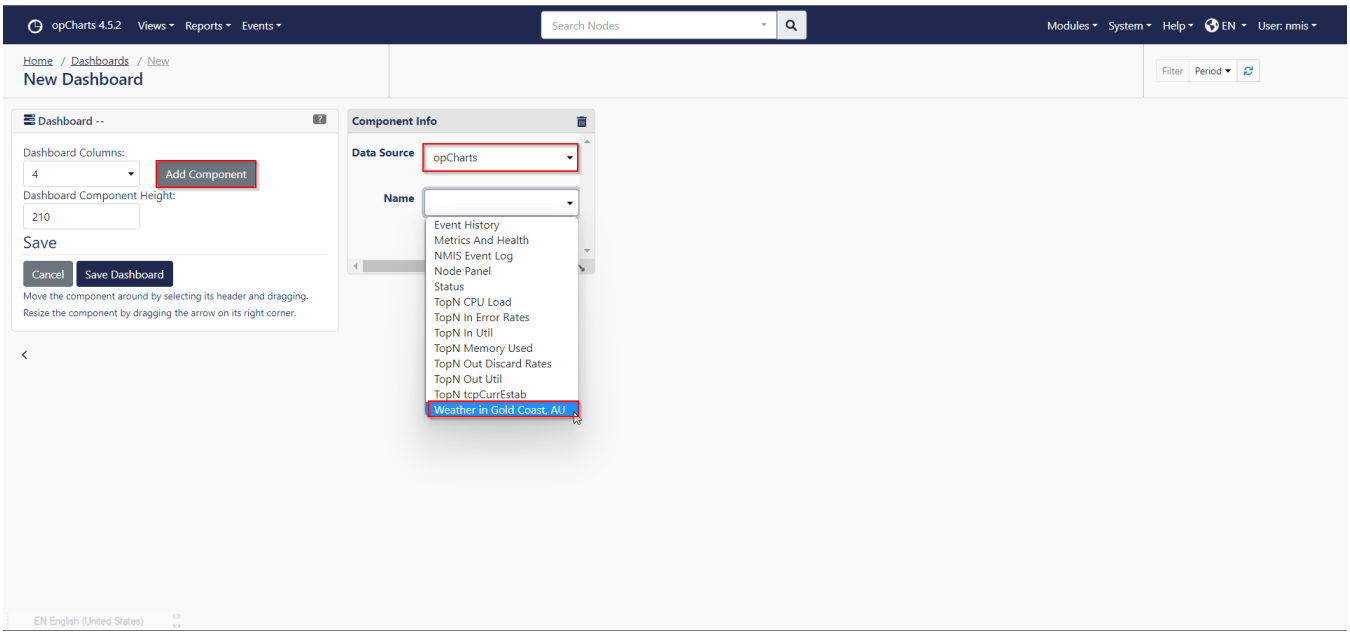
The first step to create a new component is to add the json descriptor file in the path (A content example can be seen in the example above):

```
omk/conf/components.d/new_component.json
```

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






opCharts 4.5.2
Views
Reports
Events
Search Nodes
Modules
System
Help
EN
User: nmis
Home / Dashboards / New
New Dashboard
Filter
Period
Dashboard --
Dashboard Columns:
4
Add Component
Dashboard Component Height:
210
Save
Cancel
Save Dashboard
Move the component around by selecting its header and dragging.
Resize the component by dragging the arrow on its right corner.
Component Info
Data Source
opCharts
Name
Event History
Metrics And Health
NMIS Event Log
Node Panel
Status
TopN CPU Load
TopN In Error Rates
TopN In Util
TopN Memory Used
TopN Out Discard Rates
TopN Out Util
TopN tcpCurrEstab
Weather in Gold Coast, AU
EN English (United States)