

# Maps - Network Diagrams

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## Overview

The Network Diagram style Map allows the user to create live informational diagrams which include a static background image. These images might be graphical diagrams of the network (perhaps prepared in Microsoft Visio, or some other flow charting application), a building floorplan, or a picture of a specific piece of equipment's physical connection points. Interactive elements are then placed on top of the static image and may be interacted with based on their individual settings.

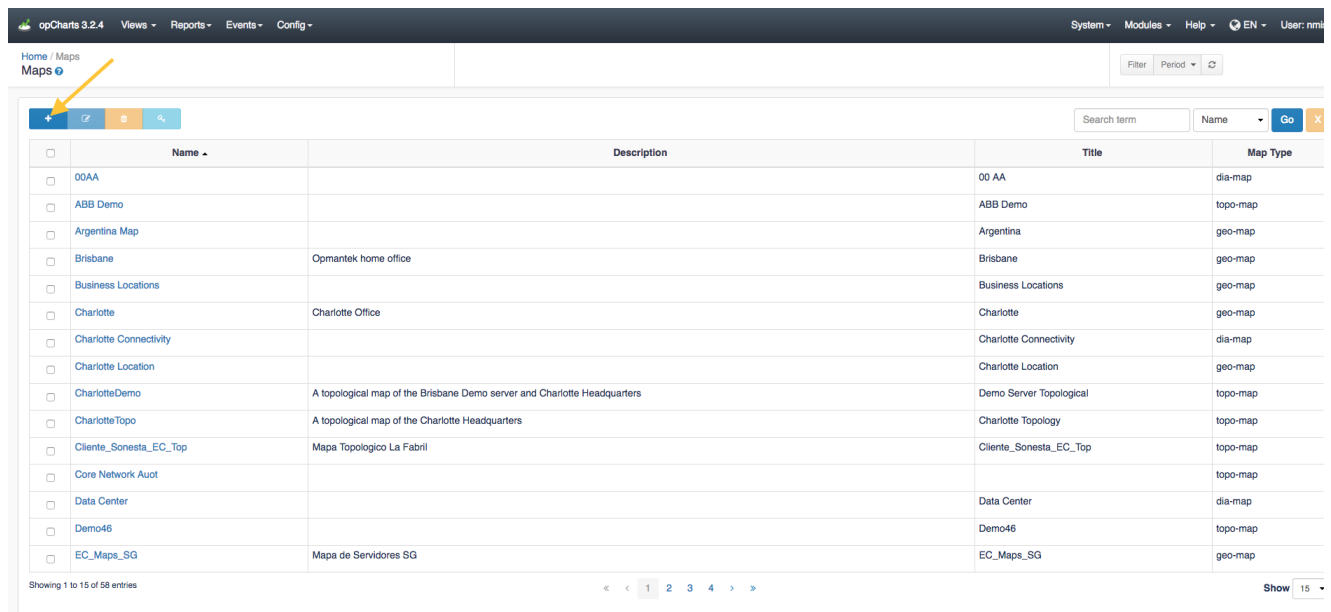
A menu listing of all available Maps can be accessed by selecting Views -> Maps from the opCharts menu bar.

The screenshot shows the opCharts 3.2.4 web interface. The top navigation bar includes 'Views', 'Reports', 'Events', and 'Config'. The 'Views' menu is open, showing options like Home, Nodes, Interfaces, Monitored Services, TopN, Business Services, Charts, Dashboards, **Maps** (highlighted), Manage Collectors, View Polling Definitions, and Scheduled Outages. A tooltip for 'Maps' states: 'Maps page, to access, edit and create custom maps'. The main content area displays a table of maps.

	Description	Title	Map Type
<input type="checkbox"/>		00 AA	dia-map
<input type="checkbox"/>		ABB Demo	topo-map
<input type="checkbox"/>		Argentina	geo-map
<input type="checkbox"/>		Brisbane	geo-map
<input type="checkbox"/>		Business Locations	geo-map
<input type="checkbox"/>	Charlotte Office	Charlotte	geo-map
<input type="checkbox"/>		Charlotte Connectivity	dia-map
<input type="checkbox"/>		Charlotte Location	geo-map
<input type="checkbox"/>	A topological map of the Brisbane Demo server and Charlotte Headquarters	Demo Server Topological	topo-map
<input type="checkbox"/>	A topological map of the Charlotte Headquarters	Charlotte Topology	topo-map
<input type="checkbox"/>	Mapa Topologico La Fabril	Ciente_Sonesta_EC_Top	topo-map
<input type="checkbox"/>			topo-map
<input type="checkbox"/>		Data Center	dia-map

## Creating a New Network Diagram

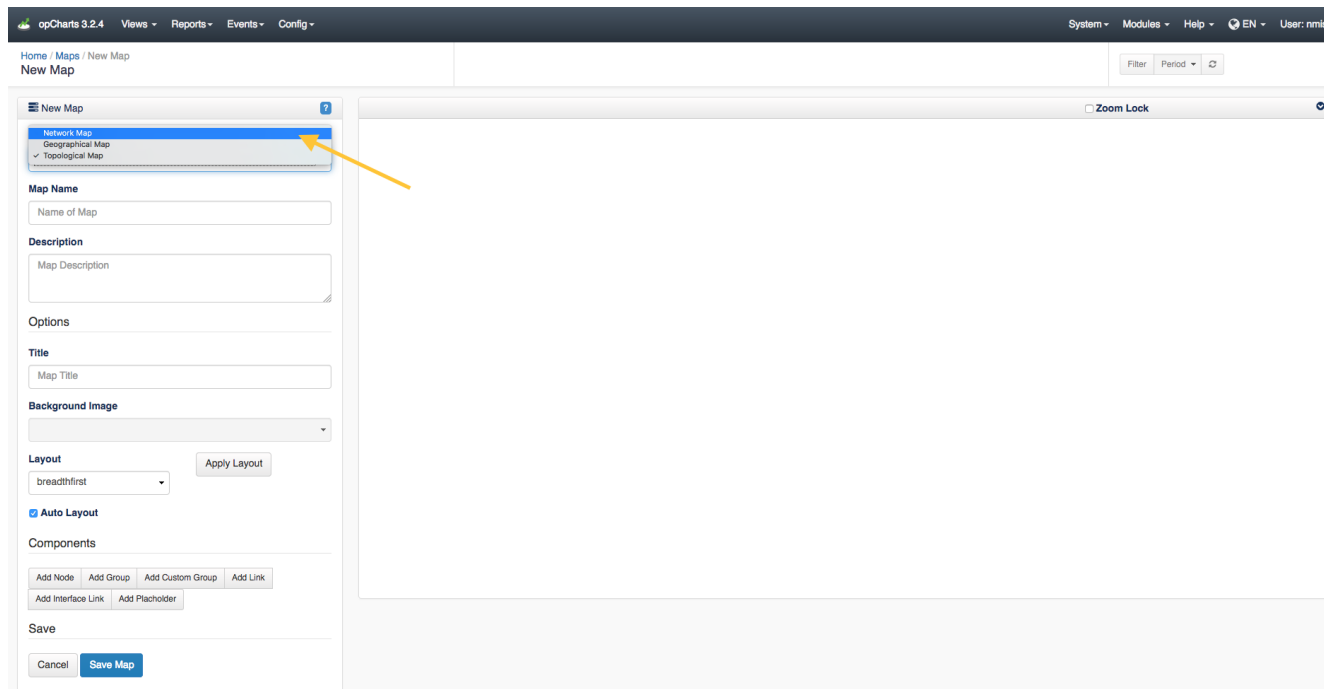
1. A Network Diagram must be created before it can be used or added to a Dashboard. To create a new Map, Click the blue "+" button from the Maps screen (Views -> Maps).



	Name	Description	Title	Map Type
<input type="checkbox"/>	00AA		00 AA	dia-map
<input type="checkbox"/>	ABB Demo		ABB Demo	topo-map
<input type="checkbox"/>	Argentina Map		Argentina	geo-map
<input type="checkbox"/>	Brisbane	Opmartek home office	Brisbane	geo-map
<input type="checkbox"/>	Business Locations		Business Locations	geo-map
<input type="checkbox"/>	Charlotte	Charlotte Office	Charlotte	geo-map
<input type="checkbox"/>	Charlotte Connectivity		Charlotte Connectivity	dia-map
<input type="checkbox"/>	Charlotte Location		Charlotte Location	geo-map
<input type="checkbox"/>	CharlotteDemo	A topological map of the Brisbane Demo server and Charlotte Headquarters	Demo Server Topological	topo-map
<input type="checkbox"/>	CharlotteTopo	A topological map of the Charlotte Headquarters	Charlotte Topology	topo-map
<input type="checkbox"/>	Ciente_Sonesta_EC_Top	Mapa Topologico La Fabril	Ciente_Sonesta_EC_Top	topo-map
<input type="checkbox"/>	Core Network Autot			topo-map
<input type="checkbox"/>	Data Center		Data Center	dia-map
<input type="checkbox"/>	Demo46		Demo46	topo-map
<input type="checkbox"/>	EC_Maps_SG	Mapa de Servidores SG	EC_Maps_SG	geo-map

Showing 1 to 15 of 58 entries

2. Next, select Network Map from the Map Type drop-down located in the top-left corner.



**New Map**

**Map Type**

- Network Map
- Geographical Map
- Topological Map

**Map Name**

Name of Map

**Description**

Map Description

**Options**

**Title**

Map Title

**Background Image**

**Layout**

breadthfirst

**Auto Layout**

☒ Auto Layout

**Components**

Add Node Add Group Add Custom Group Add Link

Add Interface Link Add Placeholder

**Save**

Cancel Save Map

3. Assign your Network Map a Map Name - This must be unique; no 2 maps can have the same Map Name.

4. You can also provide a Description of your Map. This will be displayed on the Maps View page, and also when adding a Map to a Dashboard.

## Options

**Title** - This is what will be displayed in the Component window's title bar.

**Background Image** - Pulls a list of images found in the `/usr/local/omk/public/omk/maps_background_dir` folder on the server running opCharts. (see link below about uploading via web interface)

**Layout** - Disabled for Network Diagram style Maps

**Apply Layout** - Disabled for Network Diagram style maps

**Auto checkbox** - Disabled for Network Diagram style maps



## Background Images and custom icons

[Uploading Custom Map Icons and Backgrounds using the web interface](#)

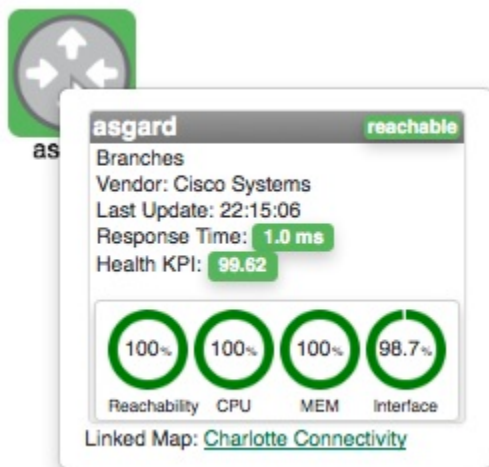
## Add Node

The Add Node button allows you to add an individual Node to the Map. You may assign a Display Name, separate from the Node's internal name, or leave this field blank and no label will be displayed. A specific icon may also be assigned, or will be auto selected from the built-in icon options based on the type of equipment.

### Link to Map

If set, the Link to Map option will open a new URL when the link is clicked. You can select either a Map on the current server, or by selecting Custom use any URL (even to other software/sites). This is especially powerful - allowing you to drill down from a top-level abstract diagram to more in-depth levels of detail.

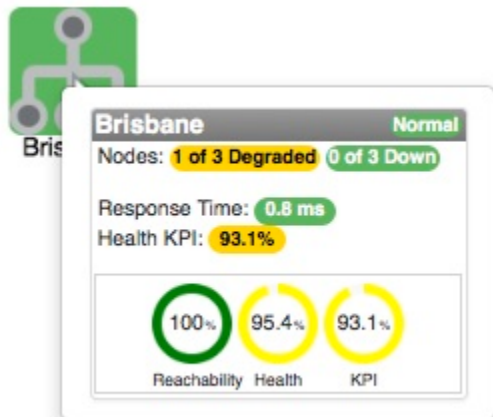
By default the Link to Map / Custom option opens the target in the current browser window. However, you can force opCharts to open the link in a new tab/window by enclosing the link URL in double quotes and following it with target=\_blank i.e. "http://someserver.com/en/omk/opCharts/dashboards/myawesomedashboard" target=\_blank



Once the node is added it may be moved around the Map by left-clicking and dragging it to position.

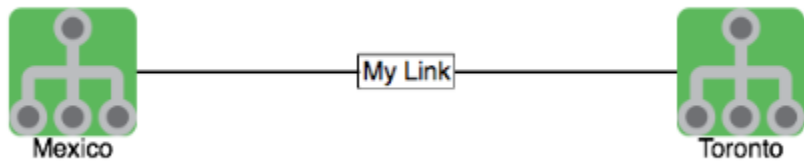
## Add Group

The Add Group button allows you to add an icon representing a Group of Nodes to the Map. When clicked this will display the Node Status Panel, which includes the averaged health of all Nodes within the Group.



## Add Link

The Add Link button adds a physical connecting line between 2 Nodes or 2 Groups. You can assign the Link a Link Name, which will be displayed within a bordered box at the center point of the line between the 2 Nodes. These links are a convenient way to show relationships between components, without linking those relationships to specific interfaces or data sources.

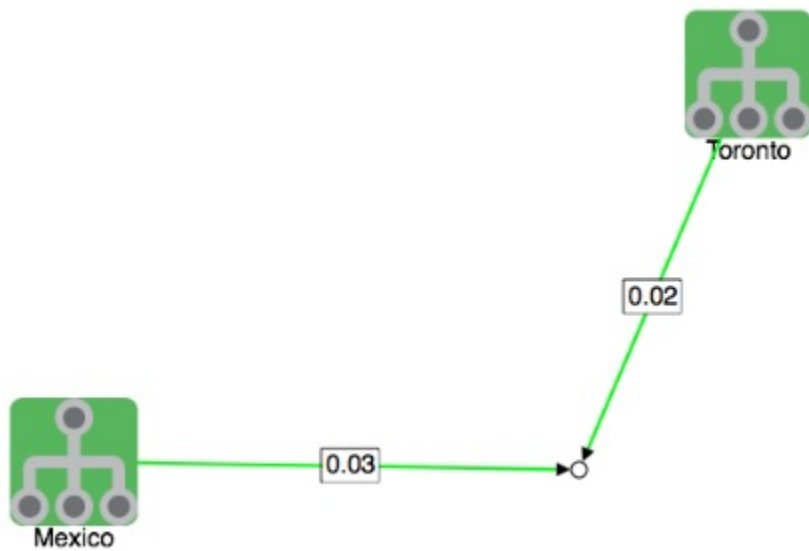


**Add Interface Link**

The Add Interface Link button allows you to add an interactive Link representing a interface's flow traffic between 2 Node or Group icons. Select your Link Source, the Node providing the Interface, the specific Interface that handles the link, and the Link Destination.

The screenshot shows a web application interface with a dark grey header bar containing 'Help', a flag icon, and 'User: nm'. The main area is a light grey map. A white dialog box titled 'Link Objects on Map' with a close button (X) is open. It contains the following fields: 'Link Source' (dropdown menu with 'Mexico' selected), 'Node' (text input with 'asgard'), 'Resource' (dropdown menu with 'interface' selected), 'Interface' (dropdown menu with 'Opmantek LAN -- FastEthernet0/0' selected), and 'Link Destination' (dropdown menu with 'Toronto' selected and highlighted with a blue border). At the bottom of the dialog are 'Close' and 'Apply' buttons. On the map background, two green square icons with grey tree structures are visible, labeled 'Mexico' and 'Toronto'.

The resulting link will be anchored to the 2 Nodes/Groups and display both the inbound and outbound link speeds as a percentage of the available interface speed. The link is also hinged in the middle, allowing some modicum of adjustment for background artwork and readability.



Note: Link sources and Node/Interface are not required to be the same, the GUI fills out the node name as a suggestion as it's the most likely scenario. If required, the link source and/or link destination can be left blank and the endpoint will remain open for moving to a convenient location.

### Add Placeholder

The Add Placeholder button allows you to add an icon to the Network Map that is not linked to a specific Node or Group. Similar to both Nodes and Groups you can assign a Display Name, select a Display Icon, and Link the icon to another Dashboard.

Add a node

Display Name

Placeholder

Icon

Storage

Link Type

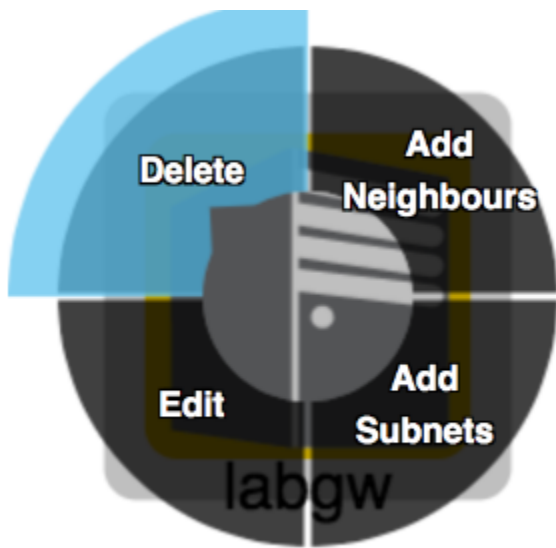
No link

Cancel

Add

### Editing Nodes in the Network Map

Nodes on the Network Map can be edited. Simply return to edit mode (open the Map by selecting Edit from the Map view or by clicking the Edit button in the top-right corner of the Component window) then **RIGHT**-click on the Node you want to edit, select Edit from the pop-up menu.



## Authorization

Maps do not currently have any broad authorization controls, all users can see all maps. When viewing a map, if a user does not have authorisation to view a node it will still appear on the map but it's status will not be set and the node will appear grey on the map.