Cloud Platform - Bridges

The Bridges section of the Wiliot Platform allows viewing and managing bridges. It lists all the bridges that are claimed by the users account or bridges that are still not claimed by any account

Note: bridges that are associated to a different account will not be presented in the bridge list view

Bridge List

Each bridge is presented with the following details:

Columns	Description
ID	The Bridge ID
Name	The bridge Name as provided by a user
Type	Type of the bridge as communicated it. Single Band, Dual Band Etc.
GW	The GW the Bridge is currently connected to
Firmware	The FW of the Bridge Communicated The Column will also present if the Bridge has the latest FW or not
Status	Whether the Bridge is online or Offline
Location\Zone	The location\zone the bridge is assigned to

To change the list columns, click on the "Customize columns" icon and select the desired columns to be presented

- Filters - To quickly search a specific bridge or a group of bridges you can:
  - Use the quick filters on the top of the list
  - Use the search box
  - Use the location and zone filters

Bridge Details

To view all bridge details and configuration click on the bridge entry on the list this will present the bridge details page

Adding a bridge

- Bridges are added automatically to the bridge list once their transmission is being picked up by a GW that is associated with your account (Static GW or Mobile)
- Only bridges that are already claimed with your account or Bridges that are still not claimed by any account will appear on the Bridge list screen.
- Unclaimed bridges can be viewed but cannot be configured unless they are claimed first by the account owner
- To claim a bridge to your account and to start configuring a Bridge click on the claim button on the bridge entry

Configuring a bridge

- Changing a bridge setting can be done only by an Admin role
- To change a bridge setting, click on the menu icon for a bridge entry and click edit to open the Configuration window
- Editing a bridge is also available for the Bridge details screen by clicking on the Menu and selecting Edit in the top right corner of the screen

Upgrading bridge FW

- Bridge FW can be upgraded using two methods
  - Over the Air update (OTA) once connected to a GW
  - Manually using the Wiliot Deployment Application see guide
- When a bridge is connected to a GW it will automatically retrieve the latest FW available view the GW

Please note: At the moment, it is recommended to keep the otaUpgradeEnabled parameter to 0 to disable it by default and only enable that for the specific bridge that you want to be updated. In cases where there is more than one bridge with this parameter set to a 1 (enabled), the gateway and wiliot platform can get into a confused state and not update any bridges at that point.

To use this "OTA firmware update" feature the GW firmware version needs to be 1.5.0 and above.

Follow these steps to enable this OTA update feature on your bridges:

- Go to the wiliot platform and find your bridge in the bridge list view.
- Open the bridge entry and verify that the parameter otaUpgradeEnabled is set to 1, if not please claim the bridge first and via the Edit screen set this parameter to a 1.
- Now just sit back and let your gateway do the work. After a few minutes, you can check back to see that your bridge firmware version is set to the latest.

Please note that with this OTA feature enabled, the bridges will always be kept up to date, however you will not have a choice of when that occurs yet. Once a gateway determines that a bridge firmware version is out of date, it will then push the latest version that matches the gateway's firmware version onto that bridge. Also, the lowest recommended version of firmware that a bridge can start from and that allows this feature to work, is version 2.8.6. If your bridge's firmware is earlier than this version, it is recommended to manually update them using the mobile app first.

Monitor bridge connectivity

To monitor the bridge's recent connectivity status, click on the "Customize columns" icon and select the 3 connectivity-related columns to be presented. When chosing one of them, all three are presented. the columns are:

1. *Up time* - The percentage of time in which the bridge was online in the last 72 hours.
2. *Number of disconnections* - Last 72 hours
3. *Average disconnection time* - In HH:MM format. Last 72 hours.

To view the above information in more granular timeframes, press the Bridge entry on the Bridges list and go to the "Monitor" tab that appears at the top of the page:
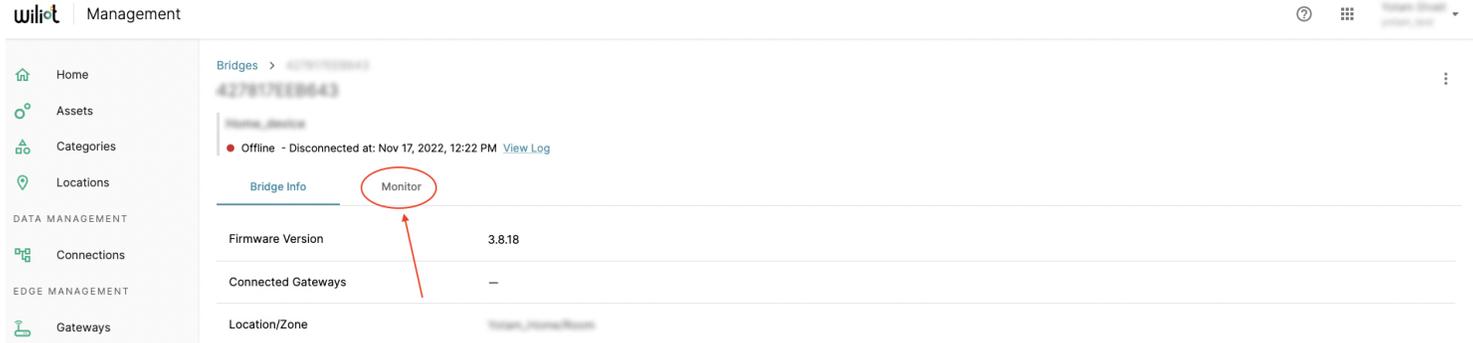
On this page, the *Up time, Number of disconnections,* and *Average disconnection time* are also presented for both 8 hours and 24 hours (1 day). At the bottom of the page is a chart showing the history of connections and disconnections for the selected time frame, with the ability to zoom in and deep dive into certain connectivity events to your wish.
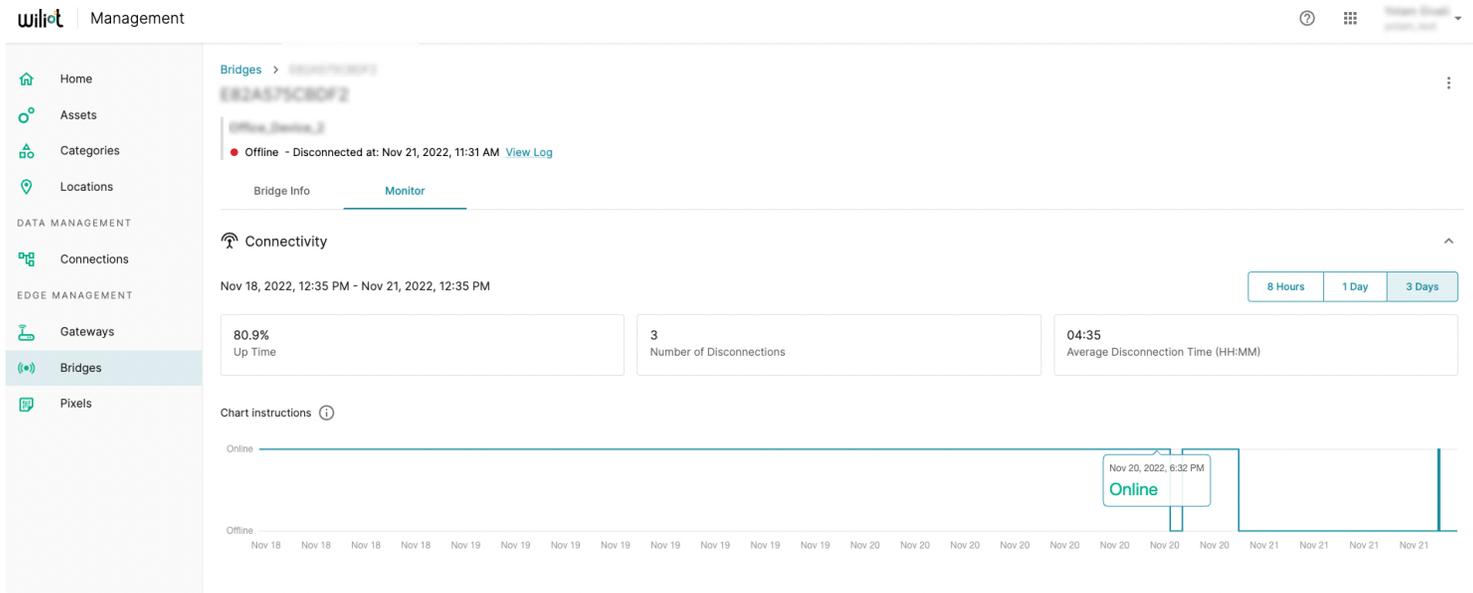
Monitoring compare mode

To compare the connectivity status history of your different devices in a single view, select multiple Bridges from the Bridges list and press "Monitor" on the top bar. A view with the connectivity charts of all the selected bridges will appear, so it is possible to see the connectivity events of different devices all at once.

Run a Survey

To launch a Survey to test a deployment layout, select the relevant bridges (up to 10) and press the "Survey" from the top bar. More information about the Survey tool can be found on the documentation page .