

JCL Simple IoT Application

Important:

Turn on JCL cluster before start this example.

This application is a simple IoT application that allows the user to monitor all IoT Hosts, its sensors and the sensing data of each one. After configuring the cluster and setting all sensors on the Hosts, you can run the application.



Figure 1 - Main view

After configuring the Server IP and port, click on the “Run” button. The first view list all IoT Devices configured on the cluster. To update the list of devices, click on the “Update” button.

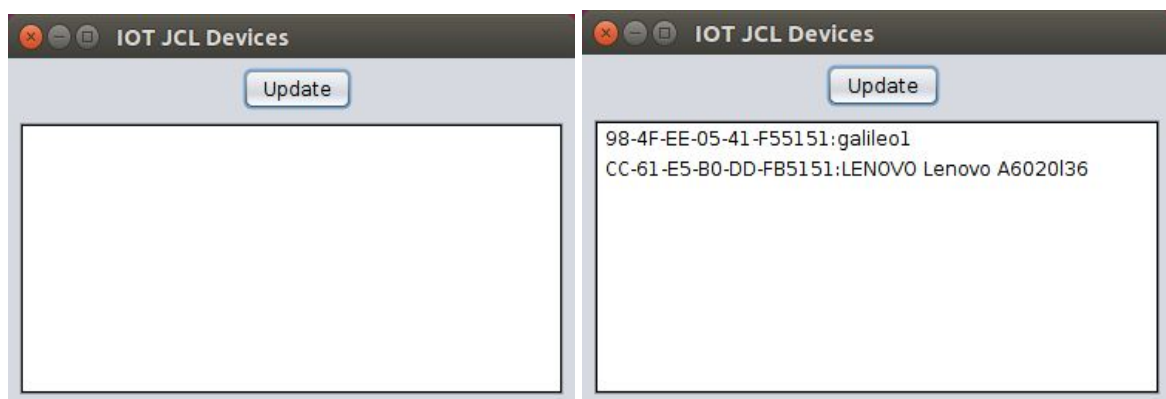


Figure 2 - Main view with IoT Devices a) before clicking on update b) after clicking on update

To list the sensors configured on the device, just click on the device's name. A view like figure 3 will show up. In this example, the light sensor and the camera of an Android Host are configured.



Figure 3 - List of sensors configured on the device

To see the last 10 sensing data of the sensor, just click on the name of the desired sensor. When the sensor is an ordinary sensor, the data will be shown as figure 4.

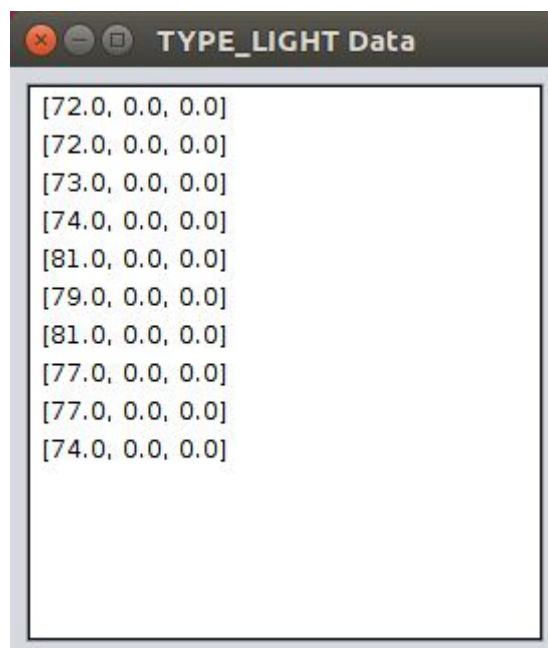


Figure 4 - Last sensing data of light sensor

If the sensor is a photo or audio sensor, it will show a list of the last 10 sensing data but to actually see its content you must click on it. Figure 4 illustrates the view of a photo data.

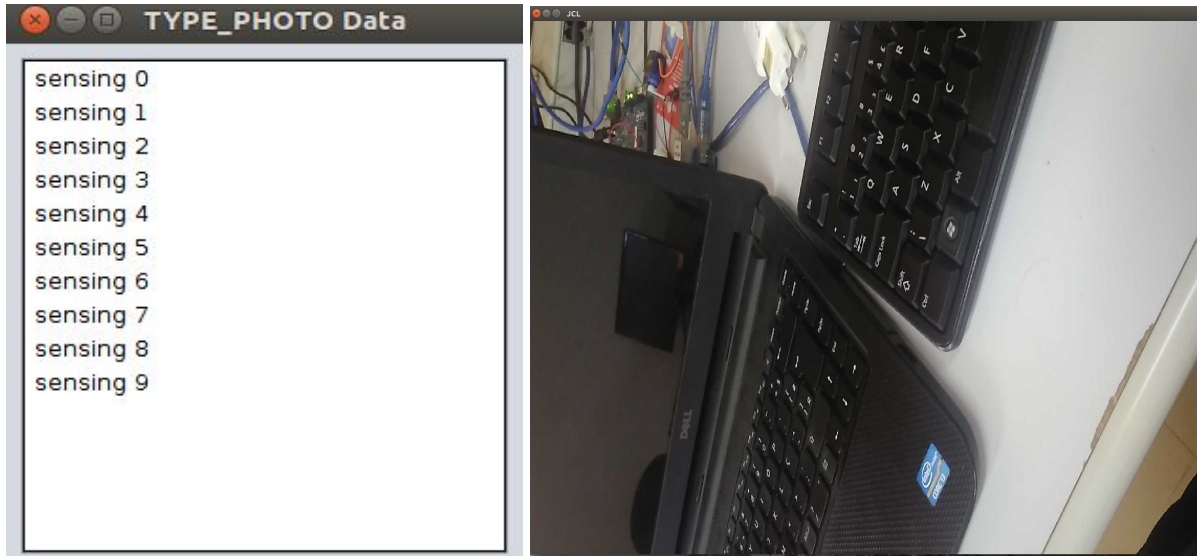


Figure 4 - a) List of photos b) showing the photo content