Kangaroo

Wireless system for exchange messages between CNC machine

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The system

The system provides different nodes connected to the machines via serial cable (DB25). They receive programs from the machine and send them to a central node that will save the data. They also receive programs from the master to be able to then send to the machine.

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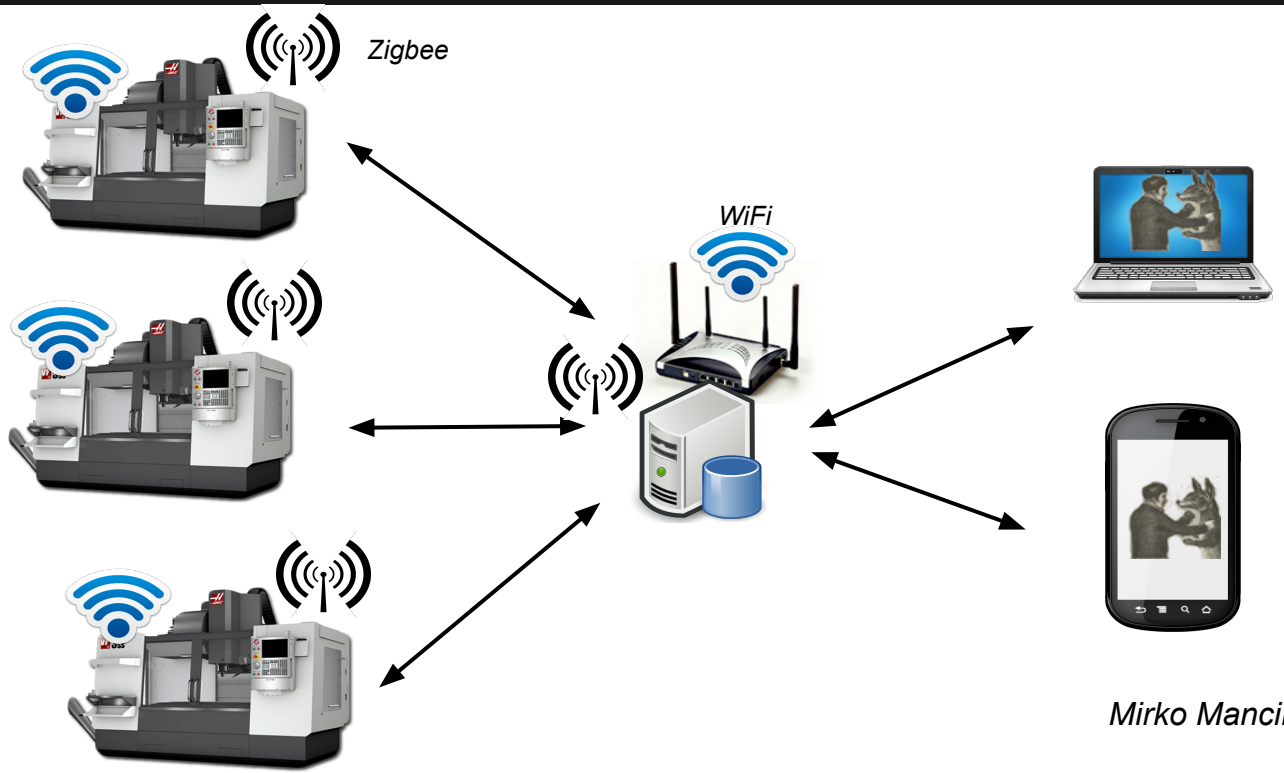
Architecture



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Kangaroo JR

The device is connected to the machine. With it, thanks to the connection via serial cable, you can receive/send programs to/from the machine easily.

Each device has a unique ID given: it allows us to identify a machine within the network. You can also define other parameters to customize the messages exchanged within the network.


```
{
  id: "1",
  name: "CNC1",
  ipAddress:
"192.168.30.12",
  type: "cnc"
}
```


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Daddy Kangaroo

Is it the master and it consists of a board which will manage the network and save the data.

Is joined by a WiFi router which is able to generate an ad-hoc subnetwork for different Kangaroo JR.

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JCook

JCook is the client that allows you to view the data on the network master.

There are two versions of it to enable a complete data management:

- JCook Desktop
- JCook Mobile

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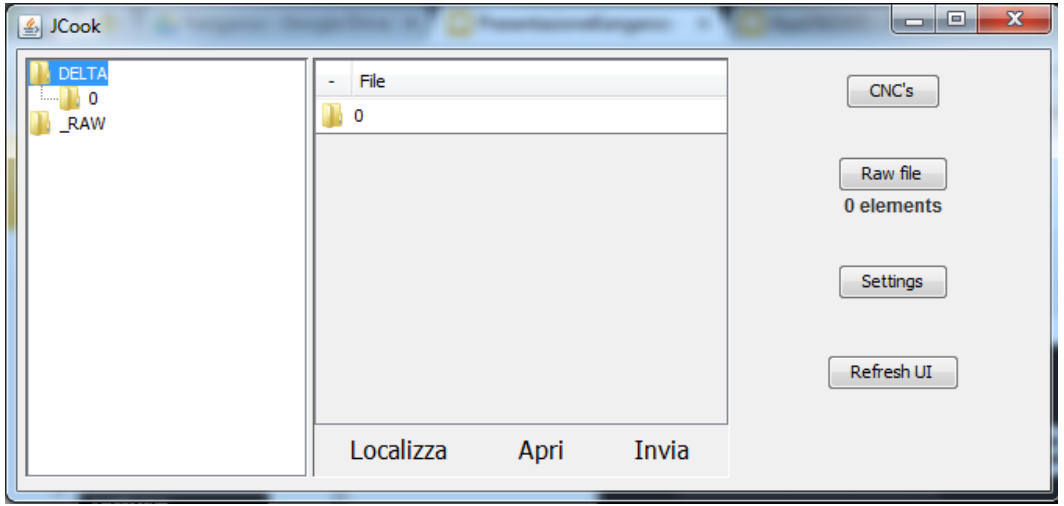
JCook Desktop

Is quick and easy to use for those who just don't need all the bells and whistles of expensive DNC systems. As you can see the program interface is clutter free, there are only a few large easy to see icons and it has the familiar look and feel of Windows Explorer.



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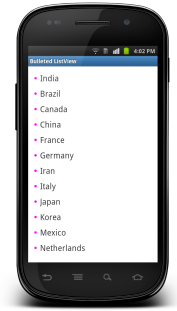
JCook Desktop

- You can set up to 248 different CNC machines with WiFi connection and 60000 devices with Zigbee.
- ...

JCook Mobile

With the application you can download directly from the machine the programs you want. Through a listview will be shown and saved programs with a single button you can send the data to the machine.



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