IQ4 – EN Cartridge Setup

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IQ4 – EN Cartridge Setup

- Steps to setup a NCC EN Cartridge for IQ4 - Cloud
  - Work with the Site IT Network Personnel to setup the network parameters
  - Install the EN Cartridge
  - Configure the NCC EN Cartridge (NCC Configurator)
  - Setup controller in IQ4
  - Perform a Reverse Sync to load all controller data into IQ4 from the controller
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- Work with the Site IT Network Personnel to setup the following:
  A. Setup a Network Static or Reserved IP Address and a unique Port Number for each IQ Satellite Controller
  B. Provide the Network Subnet Mask and Gateway Address
  C. Provide the Internet IP Address for the Router/ Fire Wall
  D. Setup Port Forwarding (or Dynamic DNS) so IQ-Cloud can connect to the Network Router and be forwarded to the individual IQ Satellite Controllers

- **NOTE:** Inbound communication from IQ4-Cloud (Amazon Servers) to the site network is identified on pages 6 - 9
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- The IQ4 web interface is served from https://iq4.rainbird.com. This interface also talks to an api server located at https://iq4server.rainbird.com.

- If the firewall can be configured to whitelist sites by DNS names, these two will be sufficient. However, if the firewall can only be configured to whitelist by IP address, then additional steps must be taken.
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- The iq4server.rainbird.com service is served from one static IP address: 54.183.11.63
- The iq4.rainbird.com site is served via Amazon CloudFront, which is a CDN that provides caching and geographical distribution allowing for sites around the world to access the content from a fast, local data center. The following steps are required to find out what IP address your site is using to access IQ4 on CloudFront
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1. Open a command prompt by pressing the windows key and typing ‘cmd’ then pressing the enter key.

2. In the command prompt window, type ‘nslookup iq4.rainbird.com’ (without the quotes).

3. The result will include a list of four IP addresses, which are your site’s local CloudFront addresses.

4. Once the four addresses are found, whitelist these along with the 54.183.11.63 IP address.
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- Here is an example:

```
I:\>nslookup iq4.rainbird.com
Server: tucpsvr11.rainbird.local
Address: 192.168.150.172

Non-authoritative answer:
Name: d2qlh1w3v7ug1c.cloudfront.net
Addresses: 2600:9000:201f:8c00:14:bf47:ec00:93a1
           2600:9000:201f:6e00:14:bf47:ec00:93a1
           2600:9000:201f:6000:14:bf47:ec00:93a1
           2600:9000:201f:8a00:14:bf47:ec00:93a1
           2600:9000:201f:a600:14:bf47:ec00:93a1
           2600:9000:201f:200:14:bf47:ec00:93a1
           2600:9000:201f:b00:14:bf47:ec00:93a1
           2600:9000:201f:b60:14:bf47:ec00:93a1

13.226.254.118  (IP addresses to whitelist)
13.226.254.91
13.226.254.57
13.226.254.47

Aliases: iq4.rainbird.com
```
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**Ethernet Cable Connections**

1. Connect supplied Y-Cable to Cartridge and Null-Modem Cable to Y-Cable and Computer Serial Port.
2. Connect supplied Ethernet Cable to Cartridge and Ethernet Jack.

**NOTE:** Use a USB to SERIAL CABLE if the computer does not have a serial port.
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- IQ-NCC Configurator Software
  - Go to https://www.rainbird.com/products/iq4-platform, download, extract, and install the software on a Windows computer
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- Use the NCC Configurator Software to Configure the Ethernet Settings
  A. Launch the NCC Configurator Utility on the computer.
  B. Click the drop-down arrow to select the computer COM Port number to which the Null Modem Cable is connected.
  C. Click on the Read Configuration button to retrieve the communication configuration settings from the NCC Cartridge.
    - The configuration setting fields will be blank or contain default values if the NCC Cartridge has never been configured previously.
  D. Enter/edit configuration settings.
  E. Click Send Configuration button to send configuration to the NCC cartridge.
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- Configure the Cartridge on controller
  - The IQ Settings main menu is displayed. Use the UP or DOWN arrows to select **Setup Wizard**; press Next.
  - The **Setup - Satellite Type** screen is displayed. Use + or - to select **Direct**; press Next
  - NOTE: A Wireless Bridge (Ethernet to Wi-Fi Adapter) can be used to connect an IQNCCEN Ethernet Communication Cartridge to a wireless network. Download document "Wireless Bridge Configuration for Lantronix SGX5150" for set-up instructions.

For LX-IVM:
- ☾ Turn the controller dial to Advanced Settings and choose Configure Cartridge.
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- Setup controller in IQ4
  - See “IQ4 Quick Setup Training” preso at: https://www.rainbird.com/products/iq4-platform

- Perform a Reverse Sync to load all controller data into IQ4 from the controller
FREQUENTLY ASKED QUESTIONS
FAQs