

# Introduction

To use IQ-Enterprise, first install and activate the software. Administrator rights are required to install the software.

### **Computer Requirements**

- CPU Intel I5-540M (minimum) 32 or 64 bit
- RAM Memory 3GB
- Available disk space: 10 GB
- Screen resolution 1024 x 768
- Operating System: Windows 7, Windows 8, Windows Server 2008, or Windows Server 2013.

### **Software Components**

Three individual components need to be installed to run IQ-Enterprise. They are Standalone Service, User Interface and Mobile Website. A utility is also available to configure NCC Cartridges.

### **Standalone Service**

This component provides core services and database management. It can only be installed on **one** computer on the network.

#### **User Interface**

This component is the graphical user interface (GUI) used to operate the system. This can be installed on **multiple** computers on the network to give many users access to the IQ-Enterprise system.

#### **Mobile Website**

This component provides access to IQ through web browsers running on PC's, smart phones or tablets. It can only be installed on **one** computer on the network.

There is also a utility available, the NCC Configurator, that is used to setup NCC Cartridges in ESP-LX controllers. It can be installed on any computer, such as a mobile laptop used in the field. It does not need any other IQ software to run.

### **Download the Software**

The installers can be downloaded from this web site:

https://iqweb.rainbird.com/IQ/downloads/IQEnterprise.zip

Unzip the file and save the folder on your hard drive or desktop.

# Software Installation

### Part 1 - Standalone Service

The **Standalone Service** component can only be installed on **one** computer on the network. It provides the IQ functionality, there is no user interface with this component but it is required for the **User Interface** to run.

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**NOTE**: If a previous version of IQ software is installed on the target computer, the database from this installation will be preserved and will be upgraded to a version 3.0 database.

- Close all open applications and browse to the IQEnterprise folder downloaded from the website.
- **2.** Open the IQ Standalone Service Installer folder, and run the Setup.exe program.
- **NOTE**: If there is software that is required by IQ that is not on the computer, the installer will ask to install required items. Click Install to continue.

Rain Bird IQ Standalone Service	e - InstallShield Wizard
Rain Bird IQ Standalone Service requires the fo computer. Click Install to begin installing these	
Status Requirement	
Pending OpenVPN (x64) Pending Microsoft Visual C++ 2013 Redistributable P. Pending Microsoft Visual C++ 2013 Redistributable P. Pending Ain Bird TCP Port Reservation Pending Microsoft SQL Server Compact 4.0 SP1 (x64 Pending Microsoft SQL Server 2008 R2 Express RTM	ackage (x64) ) (silent)
	Install Cancel



**3.** Follow the directions presented by the InstallShield Wizard.



4. When installation is complete, locate and record the Computer Name (or IP address) for the Standalone Service computer. It is required to install the User Interface and Mobile Web components.

Computer Name: \_

or

IP Address: \_

To find the Computer Name, open the Control Panel and select System (or System and Security). Network IP addresses can be found by typing **ipconfig /all** in a Command Prompt window.

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**NOTE**: A static IP address should be used. If all **User Interface** components will be installed on computers inside your network, a private IP address can be used. If any **User Interface** will be installed on a computer outside your network and you will be accessing the **Standalone Service** over the internet, the IP address needs to be a public IP address.

- If the User Interface and Mobile Web components will be installed on DIFFERENT computers than the Standalone Service computer, you MUST do this step.
  - NOTE: The User Interface and Mobile Web site components will communicate with the **Standalone Service** (when on different computers) over TCP ports 49203 and 49204. These ports need to be open for inbound and outbound traffic using the Windows Firewall.

The following general procedure will help guide you through the process for all versions of Windows.

#### To open TCP Ports:

- a. Open the Control Panel.
- **b.** Open the Windows Firewall feature. (Type "firewall" in the Search box if you cant' find it.)
- c. Find and click on Advanced Settings.
- d. Find and click on Inbound Rules.
- e. Find and click on New Rule.
- f. Create a new Port rule.
- **g.** Enter 49203 and 49204 in the Specific Local Ports window.
- **h.** Allow the Connection.

NOTE: Here is a link to directions on opening ports in the Windows firewall: http://windows.microsoft.com/en-us/windows/ open-port-windows-firewall

🔗 New Inbound Rule Wizard		×		
Protocol and Ports				
Specify the protocols and ports to	which this rule applies.			
Steps:				
Rule Type	Does this rule apply to TCP or UD	P?		
Protocol and Ports	TCP			
<ul> <li>Action</li> </ul>	O UDP			
<ul> <li>Profile</li> </ul>				
<ul> <li>Name</li> </ul>	Does this rule apply to all local ports or specific local ports?			
	All local ports			
	Specific local ports:	49203,49204		
		Example: 80, 443, 5000-5010		
	Learn more about protocol and po	<u>rts</u>		
		< Back Next > Cancel		



### Part 2 - User Interface

The **User Interface** component can be installed on **multiple** computers on the network.

- **1.** Close all open applications and browse to the IQEnterprise folder downloaded from the website.
- **2.** Open the IQ UI Installer folder, and run the Setup.exe program.

**NOTE**: If there is software that is required by IQ that is not on the computer, the installer will ask to install required items. Click Install to continue.

	Rain Bird IQ - InstallShield Wizard
	Rain Bird IQ requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status	Requirement
Pending	g Microsoft Visual C++ 2013 Redistributable Package (x66) g Microsoft Visual C++ 2013 Redistributable Package (x64) g Microsoft SQL Server Compact 4.0 SP1 (x64) (silent)
	Install Cancel

**3.** Follow the directions presented by the InstallShield Wizard.



- During installation, you will be prompted to enter the Computer Name that is running the Standalone Service.
  - If the **UI** is being installed on the same computer as the **Standalone Service**, use the default name that is displayed (localhost).
  - If the UI is being installed on a different computer, enter the Computer Name or IP address of the Standalone Service computer. (This was determined during the Part 1 - Standalone Service section.)

闄	Rain Bird IQ - InstallShield Wizard
	Server Name r the name of the server that is running the IQ database and services.
	Server Name: Building 105
	lanum.ð roð
InstallShie	eld < Back Next > Cancel
	Courter Hext > Conter

- **NOTE**: If you enter the wrong Computer Name and press Next, just Cancel the installation and start over.
- **5.** Start the **User Interface** by clicking on the Rainbird IQ icon on the desktop.

Site Name △	Out of Sync	Satellite Changes	Alarm	Satellites Off	Auto Contacts Synchronize Retrieve Logs	
				v	Add Site Edit Site	
-	Program	6	Seaso	lanagement		
Manu	Dry Run			ther Sources		and details
	Add					
Site Log	I <b>S</b> v Event Logs			ng Status Indar Day Off		
	ate Reports			Rain Delay		



### Part 3 - Mobile Website

The **Mobile Website** component is only installed on **one** computer on the network.

- Internet Information Services (IIS) must be configured on the computer hosting the **Mobile Website** before installation. Refer to the Appendix to configure IIS on your specific version of Windows before continuing with Step 2.
- **2.** Close all open applications and browse to the IQEnterprise folder downloaded from the website.
- **3.** Open the IQ Mobile Web Installer folder, and run the Setup.exe program.
  - **NOTE**: If there is software that is required by IQ that is not on the computer, the installer will ask to install required items. Click Install to continue.

	IQMobileWeb - InstallShield Wizard
	QMobileWeb requires the following items to be installed on your computer. Click Install o begin installing these requirements.
Status	Requirement
-	Microsoft Visual C++ 2013 Redistributable Package (x86) Microsoft Visual C++ 2013 Redistributable Package (x64)
	Install Cancel

**4.** Follow the directions presented by the InstallShield Wizard.



- During installation, you will be prompted to enter the Computer Name that is running the Standalone Service.
  - If the **Mobile Web** is being installed on the same computer as the **Standalone Service**, use the default name that is displayed (localhost).
  - If the Mobile Web is being installed on a different computer, enter the Computer Name or IP address of the Standalone Service computer. (This was determined during the Part 1 - Standalone Service section.)

虚	IQMobileWeb - InstallShield Wizard	×
Enter Serv Enter the	rer Name name of the server that is running the IQ database and services.	
	Server Name:  Building 105	
InstallShield —	< Back Next > Cancel	

**NOTE**: If you enter the wrong Computer Name and press Next, just Cancel the installation and start over.

### To Access the Mobile Website:

The name of the mobile website is IQMobileWeb. The URL used to access the site can be a Computer Name in a Windows domain, the IP address of a computer, or a name has been registered with DNS.

Examples of URLs used to access the IQMobileWeb are:

- https://iqweb.rainbird.com/IQMobileWeb
- https://localhost/IQMobileWeb
- https//192.168.1.5/IQMobileWeb (where 192.168.1.5 is an example of an internal IP)
- https://IQServer/IQMobileWeb (where IQServer is an example of a Computer Name)

To access the IQ mobile web site via the internet, the computer must have a public static IP address. Access the website using the IP address or register an URL with DNS that resolves to that IP address.



**NOTE**: Contact your Internet Service Provider (ISP) for more information on how to obtain a static IP address.



## Part 4 - NCC Configurator Utility

This utility is used to configure NCC Cartridges, typically in the field. It does not need any other IQ components to run and can be installed any computer.

- Close all open applications and browse to the IQEnterprise folder downloaded from the website.
- 2. Open the IQ UI Installer folder, open the NCCDockInstaller folder and run the NCCDockSetup.exe program. Follow the directions presented by the InstallShield Wizard.

6	Rain Bird IQ <sup>™</sup> NCC Configurator	- 🗆 🗙
File Help		
COM Port:	v	Read Configuration
NCC Type:		
Firmware Version:		
Modem Version:		
<u>History</u>		Send Configuration

### Part 5 - Activating the IQ Software

After installation, IQ-Enterprise operates in a Demo mode for 60 days. In order to continue, it must be activated.

- Start the User Interface (Rainbird IQ icon) on any computer the UI and use the Help/Activate Product menu item.
- **2.** You must call Rain Bird GSP (the telephone number is on the Activation Screen) and provide them the customer number shown at the bottom of the Activation screen.
- **3.** They will provide you with an activation code that will enable product use with the features you have licensed.
- 4. Enter the activation code and press OK.

Activate Product			
Rain Bird IQ™ License Activa	ator 🔍		
Contact Rain Bird GSP with your IQ Customer Number. Enter the Adivation Code then click OK to activate or upgrade your copy of the Rain Bird IQ™ Central Control Software. Or Click Cancel to exit the IQ application.			
You are currently licensed for:			
Demo 59 Days Remaining			
Contact Rain Bird Global Sup	oport Plan		
U.S. and Canada	Europe		
1-866-477-9778 gsp@rainbird.com	00800-555-72477 gsp@rainbird.eu		
Australia	International		
1800 225 512 info@rainbird.com.au	1-520-434-6216 gsp@rainbird.com		
IQ Customer Number: 1190	82510		
Activation Code:			
	OK Cancel		



# Remote Access (non-Mobile Web)

There are multiple ways to access IQ-Enterprise from outside your local area network.

### **Static IP Address**

Use the public static IP address for the computer that hosts the **Standalone Service** and register that computer with DNS. In this configuration the **User Interface** should be able to access the **Standalone Service** from anywhere on the internet.



**NOTE**: Contact your Internet Service Provider (ISP) for more information on how to obtain a static IP address.

### **Virtual Private Network**

Establish a VPN connection to your local area network. In this configuration the **User Interface** should be able to access the **Standalone Service** as if it were on your local area network.

### **Remote Desktop**

Install the **User Interface** on a single computer (it could be the same computer as the **Standalone Service**) that is accessible using Remote Desktop Connection (RDP). Users can log onto this machine using RDP and run IQ.

This type of configuration concentrates the UI computing resources on a single computer but has the advantage of a single UI installation. To allow multiple simultaneous RDP sessions the computer must be running a server version of Windows (i.e. Windows Server 2008 R2).

#### To enable remote connections:

 On any Windows platform, open the Control Panel. Then select the System and Security category, then System. Select the "Remote settings" link at the top left of the window.



2. Set the remote desktop settings to allow connections.

tem Properties				
Computer Name	Hardware	Advanced	System Protection	Remote
Remote Assist	ance			
Allow Remo	ote Assistanc	ce connection	ns to this computer	
What happens	when I ena	ble Remote /	Assistance?	
			Ad	vanced
Remote Deskt	ор			
Click an option, and then specify who can connect, if needed.				
Don't allow connections to this computer				
<ul> <li>Allow connections from computers running any version of Remote Desktop (less secure)</li> </ul>				
<ul> <li>Allow connections only from computers running Remote Desktop with <u>N</u>etwork Level Authentication (more secure)</li> </ul>				
Help me choose Select Users				
		ОК	Cancel	Apply

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### **Installing IIS - WINDOWS 7**

Follow these steps to configure Internet Information Services (IIS) using Windows 7.

- 1. Select Start -> Control Panel.
- **2.** Select the Programs category, then Programs and Features.
- 3. In the left pane, select Turn Windows Features on or off.
- **4.** Expand Internet Information Services in the menu tree, check all the boxes as indicated, and click OK.
- You may be prompted to download files from Windows Update. Select Yes to download and finish configuration.





## **Installing IIS - WINDOWS 8**

Follow these steps to configure Internet Information Services (IIS) using Windows 8.

- **1.** Open the Control Panel (open the Apps menu or rightclick the Start button).
- **2.** Select the Programs category, then Programs and Features.
- 3. In the left pane, select Turn Windows Features on or off.
- **4.** Expand Internet Information Services in the menu tree, check all the boxes as indicated, and click OK.
- You may be prompted to download files from Windows Update. Select Yes to download and finish configuration.

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#### Windows Features

#### Turn Windows features on or off

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

Internet Information Services	^
🕀 🔲 FTP Server	
🖃 🔳 🔒 Web Management Tools	
🗉 🗔 🔒 IIS 6 Management Compatibility	
✓ IIS Management Console	
IIS Management Scripts and Tools	
IIS Management Service	
World Wide Web Services	
Application Development Features	
.NET Extensibility 3.5	
.NET Extensibility 4.5	
Application Initialization	
ASP	
ASP.NET 3.5	
ASP.NET 4.5	
CGI	
SAPI Extensions	
ISAPI Extensions	
Server-Side Includes	
WebSocket Protocol	
Common HTTP Features	
Default Document	
Directory Browsing	
HTTP Errors	
HTTP Redirection	
Static Content	
WebDAV Publishing	
Health and Diagnostics	
Custom Logging	
HTTP Logging	
Logging Tools	
DBC Logging	
Request Monitor	
🗌 🌇 Tracing	
🖃 🔳 📔 Performance Features	
Dynamic Content Compression	
Static Content Compression	
🖃 🔳 Security	
Basic Authentication	
Centralized SSL Certificate Support	
Client Certificate Mapping Authentication	
Digest Authentication	
IIS Client Certificate Mapping Authentication	
IP Security	
Request Filtering	
Windows Authentication	4
	Ŧ
OK Cancel	



### Installing IIS - WINDOWS SERVER 2008 R2

Follow these steps to configure Internet Information Services (IIS) using Windows Server 2008 R2.

- 1. Select Start -> Administrative Tools -> Server Manager.
- 2. Expand the Roles option in the left pane. If Web Server is listed as an available Role under Roles Summary, click on Remove Roles and follow the wizard to delete the existing Web Server Role.
- 3. Click on Add Roles.

🏪 Server Manager		
Elle Action Yew Help		
🗢 🔿 🗾 🔝		
Server Manager (WIN-OLJ3VEHLL21 Roles Boles Features Diagnostics Configuration	Roles Wew the health of the roles installed on your server and add or remove roles and features.	
🖻 🚰 Storage	Roles Summary	Roles Summary Help
	Roles: 0 of 17 installed	Add Roles
• •	C Last Refresh: Today at 3:53 PM Configure refresh	

4. On the Before You Begin screen, click Next.

Exerce You Begin         Server Roles         Confirmation         Progress         Results         The Window Configured Con	Add Roles Wizard		X
Server Roles       want this server to perform, such as sharing documents or hosting a Web site.         Confirmation       Before you continue, verify that:         Progress       • The Administrator account has a strong password         Results       • The Administrator account has a strong password         If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.         To continue, dick Next.         Skip this page by default	Before You Begin		
< Previous Next > Tosta Cance	Server Roles Confirmation Progress	want this server to perform, such as sharing documents or hosting a Web site. Before you continue, verify that: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The latest security updates from Windows Update are installed If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again. To continue, dick Next.	:



Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles Web Server (IIS) Role Services Confirmation Progress Results	Select one or more roles to install on this server.         Roles:         Active Directory Certificate Services         Active Directory Federation Services         Active Directory Lightweight Directory Services         Active Directory Rights Management Services         DHCP Server         DHS Server         File Services         Hyper-V         Network Policy and Access Services         Print and Document Services         Remote Desktop Services         Windows Deployment Services         Windows Server Update Services         Windows Server roles	Description:         Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.         application infrastructure.

#### 6. Click Next.





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7. Expand Web Server in the menu tree, check all the boxes as indicated, click Next and then Install.



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### Installing IIS - WINDOWS SERVER 2012

Follow these steps to configure Internet Information Services (IIS) using Windows Server 2012.

1. Select Server Manager from the Start menu. Select Add Roles and Features.

<b>B</b>		Server Manager		_ 0 X
Server Ma	nager • Dashboard		• 🕝   🚩 Manage Iools	<u>V</u> iew <u>H</u> elp
Dashboard     Local Server     All Servers	WELCOME TO SERVER MANAGER			
File and Storage Services ▷	QUICK START           QUICK START           2           3           Add           WHAT'S NEW           4	igure this local server d roles and features d other servers to manage eate a server group nnect this server to cloud service:	5	Hide
	RoLES AND SERVER GROUPS         Roles:1       Server groups:1       Servers total         File and Storage       1         Services       1         Wanageability       Events         Services       Performance         BPA results       Imageability	Local Server 1     Local Server 1     Manageability     Events     Services     Performance     BPA results	All Servers 1     Manageability     Events     Services     Performance     BPA results	

2. If a Before You Begin dialog window is displayed, click Next. Then select the Role-based or feature-based installation option and click Next.





3. In the Select Destination Server window, select the computer you are on and click Next.

A	Add Rol	les and Features	Wizard 📃 🗖 🗙
Select destinatio	n server		DESTINATION SERVER WIN-JUBJSBR7NS
Before You Begin Installation Type Server Selection	Select a server or a virtu Select a server from Select a virtual hard	the server pool	h to install roles and features.
Server Roles Features Confirmation Results	Server Pool Filter:	IP Address	Operating System
ilesuits	WIN-JU8JSBR7N5	10.0.2.15	Microsoft Windows Server 2012 R2 Standard Evaluation
		n Server Manager. O	III > indows Server 2012, and that have been added by using the Offline servers and newly-added servers from which data
		< Pr	revious Next > Install Cancel

4. Check the Web Server (IIS) role.

Select server roles       Select one or more roles to install on the selected server.         Before You Begin       Installation Type         Installation Type       Select one or more roles to install on the selected server.         Server Selection       Roles         Server Roles       Active Directory Rights Management Services         Peatures       OHCP Server         Confirmation       Pax Server         Results       Fax Server         Vertice Fax Server       Fax Server         Print and Document Services       Print and Document Services         Print and Document Services       Volume Activation Services         Veto Server (IIS)       Windows Deployment Services	5	Add Roles and Features Wizard	x
	Select server roles Before You Begin Installation Type Server Selection Server Roles Features Confirmation	DESTINATION SERVER         SDRPSVR03.rainbird.local         Select one or more roles to install on the selected server.         Roles       Description         Active Directory Rights Management Services       Meb Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.         DHCP Server       DHCP Server         DNS Server       Fax Server         Fax Server       File And Storage Services (Installed)         Hyper-V       Network Policy and Access Services         Print and Document Services       Remote Access         Remote Desktop Services       Volume Activation Services	
Yrevious     Next >     Install     Install		Windows Server Update Services	_

5. A dialog window wil pop up. Click on Add Features.



6. Click on Role Services (under the Web Server IIS menu option).





7. Expand Web Server in the menu tree, check all the boxes as indicated, click Next and then Install.

È.	Add Roles and Features Wiz	zard	- 🗆 X	
Select role services			TION SERVER -JJ8JSBR7N5	
Installation Type Server Selection Server Roles Features Web Server Role (IIS) Confirmation Results	Web Server  Common HTTP Features  Default Document  Directory Browsing  HTTP Errors  Static Content HTTP Redirection WebDAV Publishing  Health and Diagnostics HTTP Logging Custom Logging Custom Logging Custom Logging Custom Logging Request Monitor Tracing Performance Static Content Compression Dynamic Content Compression	(IIS)	ming Web sites ng 4.5 is not S.9. Having ed to ve based on .NET ucture for	
	Security Request Filtering			
	<ul> <li>Basic Authentication</li> <li>Centralized SSL Certificate Suppo</li> </ul>	rt v		
٢	Ш	>		DESTINATION SERVER WIN-JU8JSBR7N5
	< Previo	Next > Install	Cancel	
	Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Role services         Centralized SSL Certificate         Client Certificate Mapping         Digest Authentication         IIS Client Certificate Mapping         IP and Domain Restriction         URL Authorization         Windows Authentication         NET Extensibility 3.5         NET Extensibility 4.5         Application Initialization         ASP         ASP         ISAPI Extensions         ISAPI Filters         Server Side Includes         WebSocket Protocol         FTP Server         Management Tools         IIS Management Console	Authentication	Description ASP.NET provides a server side object oriented programming environment for building Web sites and Web applications using managed code. ASP.NET 4.5 is not simply a new version of ASP. Having provide a highly productive provides a robust infrastructure for building web applications.
		•	< Previous Next	> Install Cancel

## **Initial Satellite Communication Setup**

### NCC-3G and NCC-RS Cartridges

To set up communication with 3G or RS cartridges, refer to the **IQ Central Control System NCC Configurator Instructions** document found on the Rain Bird website: https://www.rainbird.com/documents/turf/man\_IQ NCC Configurator Instructions.pdf

### NCC-EN and NCC-WF Cartridges (Private Network, No Internet Connection)

To set up communication with EN or WF cartridges over a local, private network that is not using an Internet connection, follow the steps in this section.

- On the IQ computer, type **ipconfig /all** and press Enter in a Command Window to see the private IP address of your router (the Default Gateway address).
- **2.** Use the NCC Configurator software to setup the NCC cartridge:
  - IP Address: Enter any valid IP address that will not conflict with other devices on the network.
  - Port Number: 50005
  - Default Gateway: Router private IP address
  - For WF cartridges, enter wireless encryption info (SSID, password)

🗟 Rain Bird IQ™NCC Configurator - Ethernet NCC 📃 🗖 🔀				
File Help				
COM Port: COM1	Read C	Configuration		
NCC Type:	NCC-EN			
Firmware Version:	v1.35			
Modem Version:	VERSION 0.22 Nov 30 2010 17:24:25 E			
Configuration Name:	NCC-EN 001			
IP Address:	192.168.0.75			
Port Number:	50005			
Subnet Mask:	255.255.255.0			
Default Gateway:	192.168.1.1			
MAC Address:	00:08:00:D3:91:DD			

**NOTE**: For more information. refer to the **IQ Central Control System NCC Configurator Instructions** document found on the Rain Bird website: https://www.rainbird.com/documents/turf/man\_IQ

NCC Configurator Instructions.pdf

**3.** Use the IQ software to set up a Satellite using the Default Gateway address and Port Number entered in Step 2.

Satellite	
Configuration Stations	
Satellite Name:	Satellite 001
Туре:	LXME version 3.55 NCC-EN version 1.35. CIC Modem Version VERSION 0.22 Nov 3
Connection Type:	IP Connection
Phone Number / IP Address:	192.168.0.75
Port:	50005
	Rain Bird cellular service
Description:	

**NOTE**: For more information, check the IQ Help files or the Resources section of the Rainbird IQ website: https://iqweb.rainbird.com/iq



### NCC-EN and NCC-WF Cartridges (Public Network, Internet Connection with Port Forwarding)

To set up communication over a local, private network that will use an Internet connection to communicate with the cartridge (with a private IP address), follow the steps in this section.

- Open a web browser (IE, Firefox, etc.) and enter the router's IP address in the address bar. (The default IP address for most routers is usually listed in the supplied instructions. You can also type **ipconfig /all** and press Enter in a Command Window.)
- **2.** Enter the User Name and Password for the router. The default login is also usually found in the supplied instructions.
- Find the Port Forwarding screen, commonly found under something similar to Port Forwarding, Applications and Gaming, Virtual Servers, or Advanced Settings.
- **NOTE**: Another helpful resource for port forwarding: http://www.portforward.com
- **4.** Create a custom entry by adding the following information. Field labels may vary slightly but the info is the same for all routers.
  - Application or Service Name: Enter Rainbird IQ in a Name field. (Do not use any pre-configured entries in any dropdown menu.)
  - IP Address: Enter any valid IP address that will not conflict with other devices on the network.
  - Ports: Enter 50005 in all Port fields.
  - Protocol: Select either TCP or both TCP/UDP options.
  - Check any Enable box for the entry if applicable.
- **5.** Save the entry by selecting a Save or Apply settings button.

- **6.** Use the NCC Configurator software to setup the NCC cartridge:
  - IP Address: IP address entered in Step 4
  - Port Number: 50005
  - Default Gateway: Router private IP address (type **ipconfig /all** and press Enter in a Command Window to see the private IP address of your router
  - For WF cartridges, enter wireless encryption info (SSID, password)

<mark>⊛ Rain Bird IQ™NCC C</mark>	onfigurator - Ethernet NCC	
File Help		
COM Port: COM1	<b>~</b>	Read Configuration
NCC Type:	NCC-EN	
Firmware Version:	v1.35	
Modem Version:	VERSION 0.22 Nov 30 2010 17:24	:25 E
Configuration Name:	NCC-EN 001	
IP Address:	192.168.0.75	
Port Number:	50005	
Subnet Mask:	255.255.255.0	
Default Gateway:	192.168.1.1	
MAC Address:	00:08:00:D3:91:DD	

NOTE: Refer to the IQ Central Control System NCC Configurator Instructions document found on the Rain Bird website:

https://www.rainbird.com/documents/turf/man\_IQ NCC Configurator Instructions.pdf

 Use the IQ software to set up a Satellite using the Default Gateway address and port number entered in Step 6.

Sā	Satellite			
	Configuration Stations			
	Satellite Name:	Satellite 001		
	Туре:	LXME version 3.55 NCC-EN version 1.35. CIC Modem Version VERSION 0.22 Nov 3		
	Connection Type:	IP Connection		
	Phone Number / IP Address:	192.168.0.75		
	Port	50005		
		Rain Bird cellular service		
	Description:			

**NOTE**: For more information, check the IQ Help files or the Resources section of the Rainbird IQ website: https://iqweb.rainbird.com/iq



### NCC-EN and NCC-WF Cartridges (Public Network, Internet Connection without Port Forwarding)

To set up communication over a local, private network that will use an Internet connection to communicate with the cartridge (with a public static IP address), follow the steps in this section.



**NOTE**: Contact your Internet Service Provider (ISP) for more information on how to obtain a static IP address.

- On the IQ computer, type **ipconfig /all** and press Enter in a Command Window to see the private IP address of your router (the Default Gateway address).
- **2.** Use the NCC Configurator software to setup the NCC cartridge:
  - IP Address: Public, static IP address of cartridge
  - Port Number: 50005
  - Default Gateway: Router private IP address
  - For WF cartridges, enter wireless encryption info (SSID, password)

🧟 Rain Bird IQ™ NCC Configurator - Ethernet NCC 📃 🗖 🔀				
File Help				
COM Port: COM1	Read Configuration			
NCC Type:	NCC-EN			
Firmware Version:	v1.35			
Modem Version:	VERSION 0.22 Nov 30 2010 17:24:25 E			
Configuration Name:	NCC-EN 001			
IP Address:	68.8.5.216			
Port Number:	50005			
Subnet Mask:	255.255.255.0			
Default Gateway:	192.168.1.1			
MAC Address:	00:08:00:D3:91:DD			

NOTE: Refer to the IQ Central Control System NCC

**Configurator Instructions** document found on the Rain Bird website:

https://www.rainbird.com/documents/turf/man\_IQ NCC Configurator Instructions.pdf **3.** Use the IQ software to set up a Satellite using the Default Gateway address and port number entered in Step 2.

Satellite	
Configuration Stations	
Satellite Name:	Satellite 001
Туре:	LXME version 3.55 NCC-EN version 1.35. CIC Modem Version VERSION 0.22 Nov 3
Connection Type:	IP Connection
Phone Number / IP Address:	68.8.5.216
Port:	50005
	Rain Bird cellular service
Description:	

**NOTE**: For more information, check the IQ Help files or the Resources section of the Rainbird IQ website: https://iqweb.rainbird.com/iq

