

# 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 - InstallShield Wizard  |
|---|---|
| Ra<br>۵۵  | ain Bird IQ Standalone Service requires the following items to be installed on your<br>mputer. Click Install to begin installing these requirements.  |
| Status  | Requirement   |
| Pending<br>Pending<br>Pending<br>Pending<br>Pending | OpenVPN (x64)<br>Microsoft Visual C++ 2013 Redistributable Package (x86)<br>Microsoft Visual C++ 2013 Redistributable Package (x64)<br>Rain Bird TCP Port Reservation<br>Microsoft SQL Server Compact 4.0 SP1 (x64) (silent)<br>Microsoft SQL Server 2008 R2 Express RTM (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

| 分 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 UDI    | 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 por | ts or specific local ports? |
|                                    | All local ports                       |                             |
|                                    | Specific local ports:                 | 49203,49204                 |
|                                    |                                       | Example: 80, 443, 5000-5010 |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    | Learn more about protocol and por     | ts                          |
|                                    |                                       |                             |
|                                    |                                       |                             |
|                                    |                                       | < 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   |
|-------------------------------|---|
| స                             | Rain Bird IQ requires the following items to be installed on your computer. Click Install to<br>begin installing these requirements.  |
| Status                        | Requirement   |
| Pending<br>Pending<br>Pending | g Microsoft Visual C++ 2013 Redistributable Package (x66)<br>g Microsoft Visual C++ 2013 Redistributable Package (x64)<br>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  |
|-------|--|
| E     | nter Server Name<br>Enter the name of the server that is running the IQ database and services. |
|       |  |
|       | Server Name: Building 105  |
|       |  |
|       |  |
|       |  |
| Insta | <back next=""> Cancel</back>   |

- **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           | Satelite Changes | Alarm     | Satellites Off            | Auto Contacts<br>Synchronize<br>Retrieve Logs | 1 |
|-------------|-----------------------|------------------|-----------|---------------------------|---|---|
|             |                       |                  |           | ×                         | Add Site<br>Edit Site                         |   |
| Satelli     | Program               |                  | Water M   | anagement                 |   |   |
| Ma          | Dry Run               |                  | Wate      | ther Sources              |   |   |
|             | Configure             |                  |           |                           |   |   |
| Site Lo     | ogs<br>iew Event Logs |                  | Operation | ng Status<br>ndar Day Off |   |   |
|             | reate Reports         |                  |           | tain Delay                |   |   |



### Part 3 - Mobile Website

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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  |
|-------------------|---|
| الم<br>الح<br>الح | QMobileWeb requires the following items to be installed on your computer. Click Install<br>o begin installing these requirements. |
| Status            | Requirement   |
| Pending           | Microsoft Visual C++ 2013 Redistributable Package (x86)<br>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.)

| 1    | IQMobileWeb - InstallShield Wizard   |
|------|--|
| E    | Inter Server Name Enter the name of the server that is running the IQ database and services. |
|      | Server Name:<br> Building 105  |
| Inst | allShield < 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:         | ~  | Read Configuration |
| NCC Type:         |  |                    |
| Firmware Version: |  |                    |
| Modem Version:    |  |                    |
|                   |  |                    |
| History           |  | 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.

| Activ   | ate Product                        |  |  |  |
|---|------------------------------------|--|--|--|
| Rain Bird IQ™ License Activ   | vator 🔍                            |  |  |  |
| Contact Rain Bird GSP with your IQ Customer Number. Enter the Activation Code then click OK to<br>activate or upgrade your copy of the Rain Bird IQ™ Central Control Software. Or Click Cancel to exit<br>the IQ application. |                                    |  |  |  |
| You are currently licensed for:   |                                    |  |  |  |
| Demo  |                                    |  |  |  |
| Contact Rain Bird Global Su   | ipport Plan                        |  |  |  |
| U.S. and Canada   | Europe                             |  |  |  |
| 1-866-477-9778<br>gsp@rainbird.com  | 00800-555-72477<br>gsp@rainbird.eu |  |  |  |
| Australia   | International                      |  |  |  |
| 1800 225 512<br>info@rainbird.com.au  | 1-520-434-6216<br>gsp@rainbird.com |  |  |  |
| IQ Customer Number: 119   | 082510                             |  |  |  |
| 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.

| em Properties   |                                    |                              |   |           |
|---|------------------------------------|------------------------------|---|-----------|
| Computer Name   | Hardware                           | Advanced                     | System Protection                           | Remote    |
| Remote Assist   | ance                               |                              |   |           |
| Allow Rem   | 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 s                       | pecify who c                 | an connect, if neede                        | d.        |
| Don't allow connections to this computer  |                                    |                              |   |           |
| Allow conn<br>Remote De   | ections from<br>sktop (less s      | computers n<br>secure)       | inning any version of                       |           |
| Allow conn<br>Desktop with the second<br>Desktop with the second sec | ections only<br>th <u>N</u> etwork | from compute<br>Level Authen | ers running Remote<br>tication (more secure | :)        |
| Help me choos   | se                                 |                              | Sele  | ect Users |
|   |                                    |                              |   |           |
|   |                                    | OK                           | 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.

W

#### 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                 | ^            |  |  |
|---|--------------|--|--|
|   |              |  |  |
| 🖃 🔳 🔒 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                                   |              |  |  |
|   |              |  |  |
| SAPI Extensions                               |              |  |  |
|   |              |  |  |
| Server-Side Includes                          |              |  |  |
|   |              |  |  |
|   |              |  |  |
| Common HTTP readures                          |              |  |  |
| Directory Proving                             |              |  |  |
|   |              |  |  |
|   |              |  |  |
| HIP Redirection                               |              |  |  |
| Static Content                                |              |  |  |
| WebDAV Publishing                             |              |  |  |
| Health and Diagnostics                        |              |  |  |
| Custom Logging                                |              |  |  |
|   |              |  |  |
|   |              |  |  |
| ODBC Logging                                  |              |  |  |
| Request Monitor                               |              |  |  |
|   |              |  |  |
| 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                         |              |  |  |
| URL Authorization                             |              |  |  |
| Windows Authentication                        | $\checkmark$ |  |  |
|   |              |  |  |
| 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<br>Roles<br>Teatures<br>Diagnostics<br>Configuration | Roles           Wew the health of the roles installed on your server and add or remove roles and features. |                    |
| 1 Storage  | Roles Summary  | Roles Summary Help |
|  | Roles: 0 of 17 installed   | Add Roles          |
|  |  |                    |
|  | 😱 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  |  | × |
|---|---|--|---|
| Before You Begin       This wizard helps you install roles on this server. You determine which roles to install based on the tasks you 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         It is have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.         To continue, dick Next.   | Before You Begin  |  |   |
| < Previous Next > Tosta Cance   | Before You Begin<br>Server Roles<br>Confirmation<br>Progress<br>Results | It is wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site. Defore you continue, verify that: <ul> <li>The Administrator account has a strong password</li> <li>Network settings, such as static IP addresses, are configured</li> <li>The latest security updates from Windows Update are installed</li> </ul> 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 Expression Next by Install cancel | : |



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

#### 6. Click Next.

10)



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>a</b>                                   |   | Server Manager  | _ <b>D</b> X   |
|--|---|---|--|
| Server Ma                                  | nager • Dashboard   | • ©   <b>r</b>  | <u>M</u> anage <u>T</u> ools <u>V</u> iew <u>H</u> elp |
| Dashboard     Local Server     All Servers | WELCOME TO SERVER MANAGER   |   |  |
| ■ File and Storage Services ▷              | QUICK START<br>QUICK START<br>2 Ad<br>3 Ad<br>WHAT'S NEW<br>4 Crr<br>5 Co<br>LEARN MORE   | gure this local server<br>d roles and features<br>d other servers to manage<br>eate a server group<br>nnect this server to cloud services | Hide   |
|  | ROLES AND SERVER GROUPS<br>Roles: 1   Server groups: 1   Servers total<br>File and Storage<br>File and Storage<br>Manageability | 1<br>Local Server 1<br>Manageability Manageat   | rs 1   |
|  | Events<br>Services<br>Performance<br>BPA results  | Events Events<br>Services Services<br>Performance Performar<br>BPA results BPA result   | ice<br>IS  |

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.

| à   | Add Rol   | les and Features  | Wizard 📃 🗖 🗙   |
|---|---|---|--|
| Select destinatio   | n server  |   | DESTINATION SERVER<br>WIN-JUBISBR7NS   |
| Before You Begin<br>Installation Type<br>Server Selection | You Begin     Select a server or a virtual hard disk on which to install roles and features.       ition Type     Image: Select a server from the server pool       Selection     O Select a virtual hard disk       Roles     Server Pool       es     Filter: |   |  |
| Server Roles<br>Features<br>Confirmation<br>Results       |   |   |  |
| (feedbar  | WIN-JIJ8JSBR7N5   | 10.0.2.15   | Microsoft Windows Server 2012 R2 Standard Evaluation   |
|   | 1 Computer(s) found<br>This page shows servers<br>Add Servers command in<br>collection is still incomplete  | that are running Wi<br>n Server Manager. O<br>lete are not shown. | III > ndows 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.

| 2  | Add Roles and Features Wizard  | _ <b>D</b> X  |
|--|--|---|
| Before You Begin<br>Installation Type<br>Server Selection<br>Server Roles<br>Features<br>Confirmation<br>Results | Select one or more roles to install on the selected server.         Roles <ul> <li>Active Directory Rights Management Services</li> <li>Application Server</li> <li>DHCP Server</li> <li>DHCP Server</li> <li>Fax Server</li> <li>File And Storage Services (Installed)</li> <li>Hyper-V</li> <li>Network Policy and Access Services</li> <li>Print and Document Services</li> <li>Remote Access</li> <li>Remote Desktop Services</li> <li>Volume Activation Services</li> <li>Web Server (IIS)</li> </ul> | DESTINATION SERVER<br>SDRPSVR03.rainbird.local<br>Description<br>Web Server (IIS) provides a reliable,<br>manageable, and scalable Web<br>application infrastructure. |
|  | Windows Deployment Services  | kt >InstallCancel   |

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.

| Ē.  | Add Roles and Features Wiz   | zard   | - 🗆 X  |   |
|---|--|--|--|---|
| Select role services  |  | DESTIN   | IATION SERVER<br>IN-JIJ8JSBR7N5  |   |
| Before You Begin<br>Installation Type<br>Server Selection<br>Server Roles<br>Features<br>Web Server Role (IIS)<br>Confirmation<br>Results | <ul> <li>The role services to install for Web Server</li> <li>Web Server</li> <li>Common HTTP Features</li> <li>Default Document</li> <li>Directory Browsing</li> <li>HTTP Errors</li> <li>Static Content</li> <li>HTTP Redirection</li> <li>WebDAV Publishing</li> <li>Health and Diagnostics</li> <li>HTTP Logging</li> <li>Custom Logging</li> <li>Logging Tools</li> <li>ODBC Logging</li> <li>Request Monitor</li> <li>Tracing</li> <li>Performance</li> <li>Static Content Compression</li> <li>Dynamic Content Compression</li> </ul> | (IIS)  | ver side<br>mming<br>Ig Web sites<br>sing<br>T 4.5 is not<br>ASP. Having<br>cted to<br>ttive<br>te based on<br>SP.NET<br>tructure for<br>ns. |   |
|   | Request Filtering  |  |  |   |
|   | Basic Authentication     Centralized SSL Certificate Suppo   | rt 🗸   |  |   |
| ٢   | Ш  | >  |  | DESTINATION SERVER<br>WIN-JIJ8JSBR7N5   |
|   | < Previo   | Next > Install   | Cancel   |   |
|   | Installation Type<br>Server Selection<br>Server Roles<br>Features<br>Web Server Role (IIS)<br>Role Services<br>Confirmation<br>Results   | Role services         Centralized SSL Certificat         Client Certificate Mappin         Digest Authentication         IIS Client Certificate Mappin         IV and Domain Restriction         URL Authorization         Windows Authentication         NET Extensibility 3.5         NET Extensibility 4.5         Application Development         NET Extensibility 4.5         Application Initialization         ASP         ASP         Server 3.5         Server Side Includes         WebSocket Protocol         FTP Server         Management Tools         IIS Management Console | te Support ng Authentication ons n   | <section-header>DescriptionASP.NET provides a server side<br/>object oriented programming<br/>imming or building Web sites<br/>and Web applications using<br/>managed code. ASP.NET 4.5 is not<br/>simply a new version of ASP. Having<br/>provide a highly productive<br/>provide a highly productive<br/>provides a robust infrastructure for<br/>building web applications.</section-header> |
|   |  | [  | < Previous Nex   | t > 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 Configuration                  | ) |  |  |  |
| NCC Type:   | NCC-EN                              |   |  |  |  |
| Firmware Version:                                     | v1.35                               |   |  |  |  |
| Modem Version:  | VERSION 0.22 Nov 30 2010 17:24:25 E |   |  |  |  |
|   |                                     | 5 |  |  |  |
| 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.

| Sē | tellite                    |   |
|----|----------------------------|---|
|    |                            |   |
|    | Configuration Stations     |   |
|    | Satellite Name:            | Satellite 001   |
|    | Туре:                      | LXME version 3.55<br>NCC-EN version 1.35. CIC Modern 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>⊛</mark> Rain Bird IQ™NCC ( | Configurator - 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 1  | 7:24:25 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 | tellite                    |  |
|----|----------------------------|--|
|    | Configuration Stations     |  |
|    | Satellite Name:            | Satellite 001  |
|    | Туре:                      | LXME version 3.55<br>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:               | A  |

**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 |    |  |  |  |
|  |                                     | í. |  |  |  |
| 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.

| Sa | itellite                   |   |
|----|----------------------------|---|
|    |                            |   |
|    | Configuration Stations     |   |
|    | Satellite Name:            | Satellite 001   |
|    | Туре:                      | LXME version 3.55<br>NCC-EN version 1.35. CIC Modern 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:               | <u>_</u>  |

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

