

# USER MANUAL

DHP-300

VERSION 1.3



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# Package Contents

- D-Link DHP-300 Powerline HD Ethernet Adapter
- CAT5 Ethernet Cable
- CD-ROM with Software and Manual
- Quick Installation Guide



# System Requirements

- Windows® Vista™, XP (with Service Pack 2) or 2000 (with Service Pack 4)
- PC with 233MHz Processor, 64MB Memory
- Ethernet Adapter (100MBit/s)

# Introduction

D-Link announces a fast, 200Mbps Powerline HD Ethernet Adapter which allows you to network your home computers, networking devices and gaming devices through the most pervasive medium in your house - the electric powerlines - and share Internet connections, printers, transfer files, play games, and more. This kit can be used to network two computers with a 10/100Base-T adapter through powerlines.

# Features

- **Provides Ethernet to Powerline Connection**
- **Fast Data Transfer Rate of Up to 200Mbps**
- **One 10/100 Ethernet port**
- **Plug & Play, Easy Installation**
- **Easy to use Management Software**
- **Configurable QoS for video streaming, VoIP and Gaming**
- **Configurable encryption key for security**
- **Firmware Upgrade Support**

# Hardware Overview

## LEDs

### Power LED

A solid light indicates that the device is receiving power.

### Ethernet LED

A solid light indicates a connection on the Ethernet port. The LED blinks during data transmission.



### Powerline LED

A solid light indicates that the device has detected another Powerline device on the network.

# Hardware Overview

## Connection



**Ethernet**

Connect the CAT5 Ethernet cable to the DHP-300 Ethernet port.

# Hardware Installation

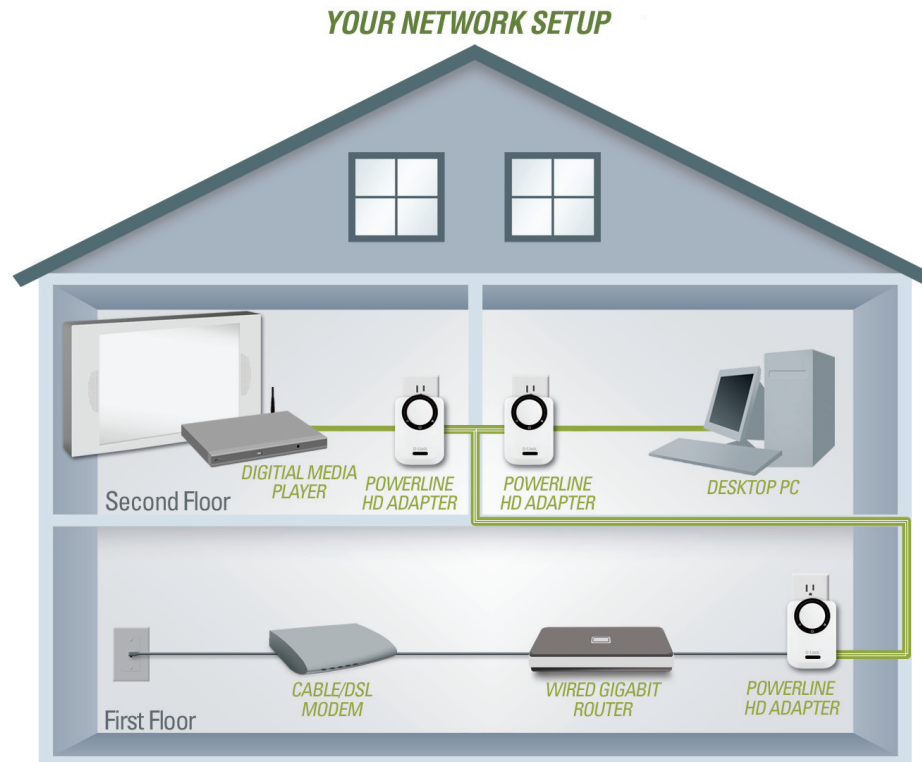
## Power

Plug in the DHP-300 into an AC wall outlet or power strip.

**Note:** Power source is confirmed when the green LED Power Indicator on the DHP-300 is illuminated.

## Connect the Ethernet Cable

Connect the included Ethernet cable to the network cable connector located on the DHP-300 and attach the other end of the Ethernet cable to the network or PC. Network Connectivity is confirmed when the green LED Indicator on the DHP-300 located left of the Power LED is illuminated.





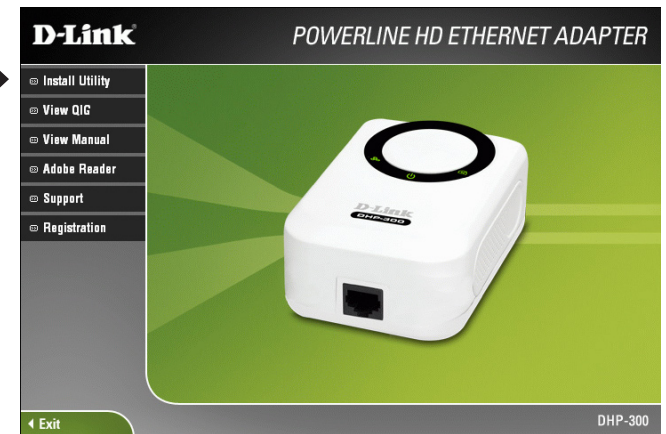
# Using the Setup Wizard

Follow the simple steps below to run the Setup Wizard to guide you quickly through the installation process.

Insert the **D-Link DHP-300** CD into your CD-ROM drive. If the CD Autorun function does not automatically start on your computer, click **Start > Run**.

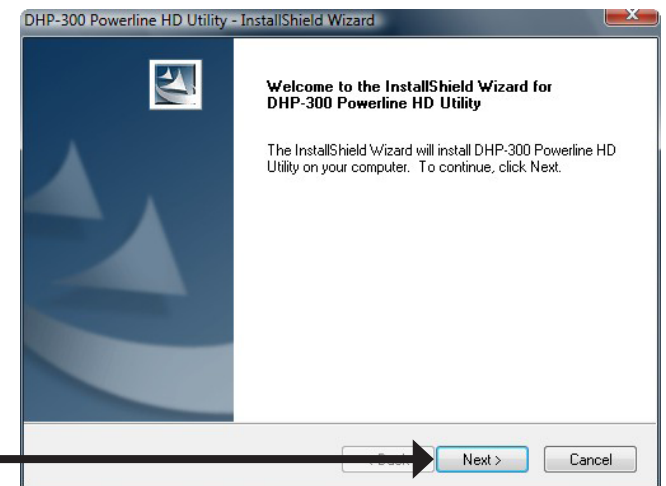
In the Run command box type "**D:\DHP300.exe**", where D: represents the drive letter of your CD-ROM. If it does start, proceed to the next screen.

Click on **Install Utility**

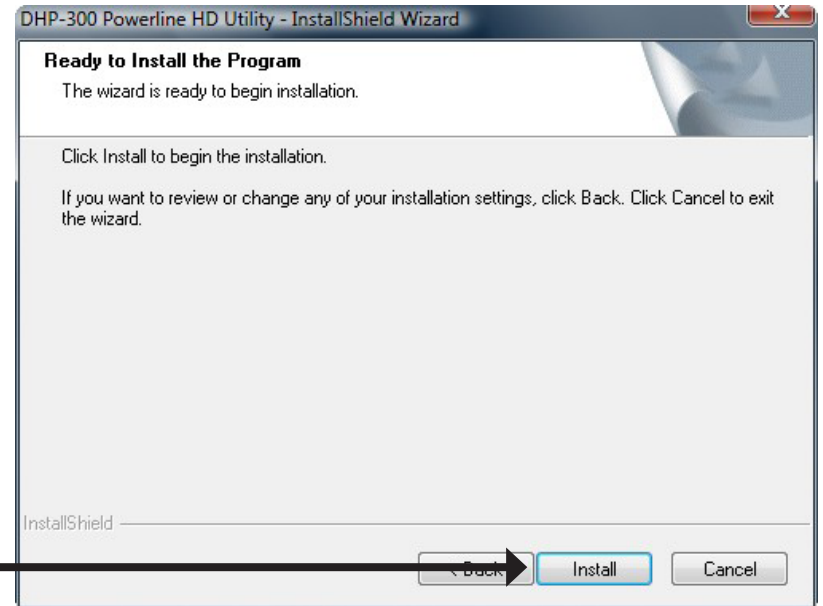


The InstallShield Wizard will begin the DHP-300 software installation.

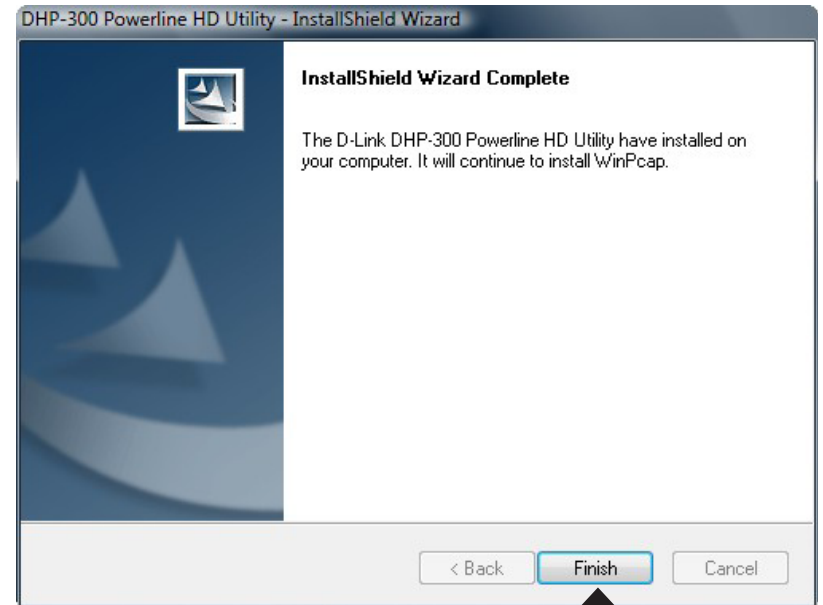
Click **Next**



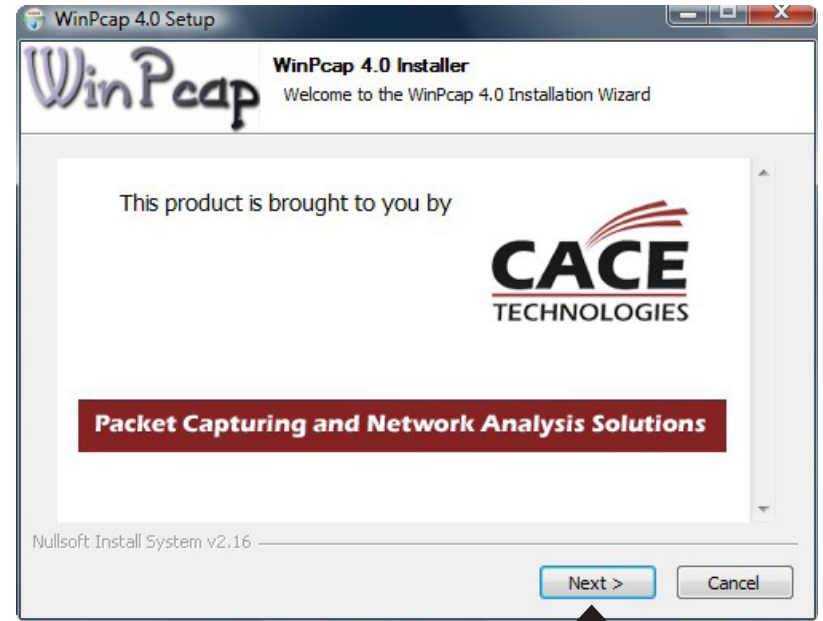
Click **Install**



Click **Finish**



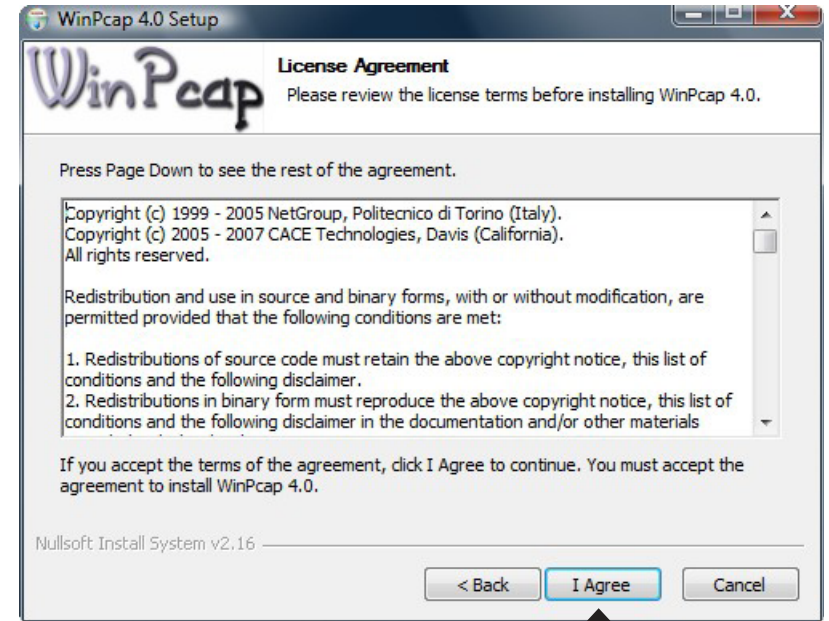
The WinPcap 4.0 installation is necessary to run the D-Link DHP-300 Utility, click **Next** to continue with the installation.



Click **Next**

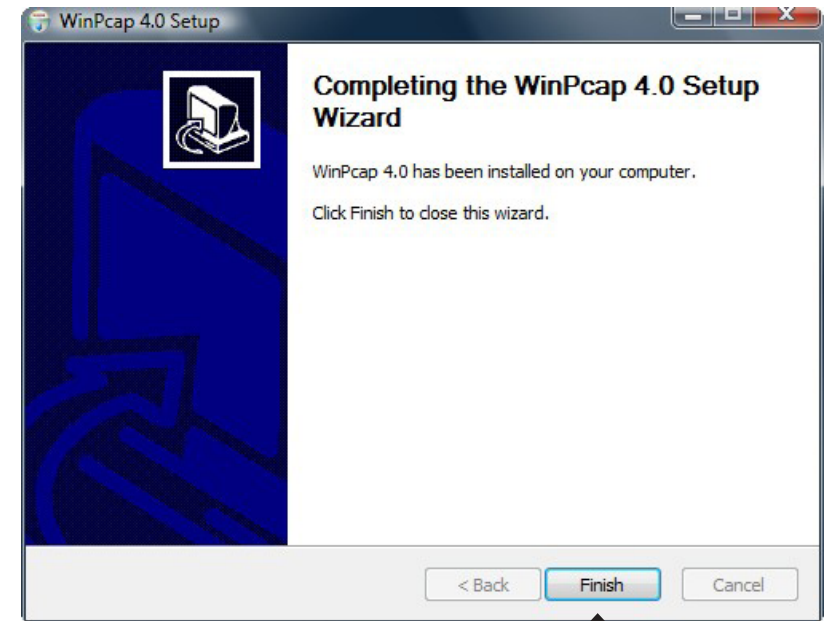


Click **Next**



Click **I Agree**

The WinPcap 4.0 Installation is complete. Click **Finish** to close the wizard.



Click **Finish**

# Configuration

After you have completed the D-Link DHP-300 Utility installation wizard, double-click the *D-Link DHP-300 Powerline HD Utility* icon on your desktop to start the configuration of the DHP-300.

Double-click the **D-Link DHP-300 Powerline HD Utility** icon



The utility provides you with the option of setting your own unique Network ID and the ability to prioritize traffic passing through the network. The color of text on the **Device Name**, **Network ID**, **MAC**, and **Location** columns represent the status of powerline network.

- **Green text** - Powerline network is encrypted with a non-default Network ID.
- **Red text** - Powerline network is encrypted with the default Network ID (DHP-300).
- **Grey text** - Powerline network is not connected due to a different Network ID.

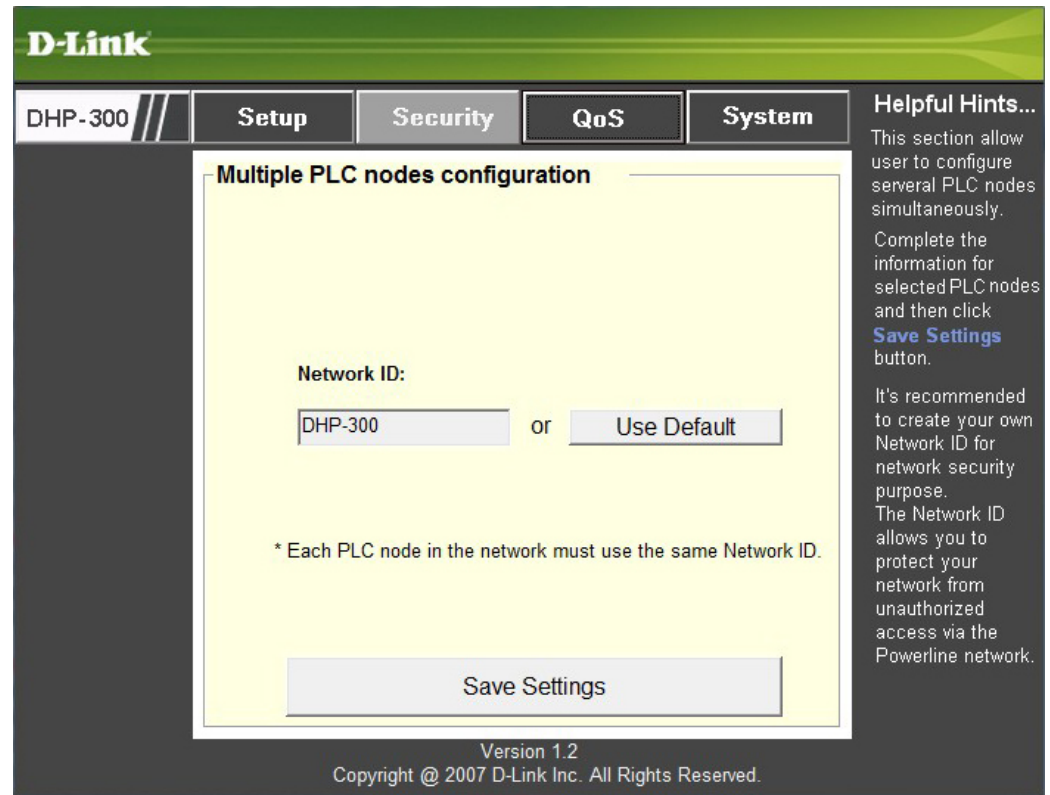
The screenshot shows the D-Link DHP-300 Utility software interface. The main window is titled "D-Link" and has a navigation bar with "Setup", "Security", "QoS", and "System". The "Setup" tab is active, and the "Network Info" section is displayed. A table shows the following data:

Device Name	Network ID	MAC	Location	Quality
Device1	DHP-300	00195B0815A4	Local	●●●
Device2	DHP-300	0040F4821CB8	Remote	●●●

Below the table are "Reset" and "Scan" buttons. To the right of the table is a "Helpful Hints..." section with text: "The assistant has detected the following nodes in the electric network. If you think more nodes should be shown, make sure the nodes are connected and click Scan button. Check AutoScan box to scan all nodes within the network periodically." Below this is another tip: "For better signal strength, plug the device directly into a wall outlet avoiding the use of power strips and extension cords." At the bottom of the window, it says "Version 1.2" and "Copyright © 2007 D-Link Inc. All Rights Reserved."

Red text on the **Device Name**, **Network ID**, **MAC** & **Location** columns mean that the powerline network is encrypted with the default Network ID (DHP-300). Follow the steps below to encrypt the network with a non-default Network ID:

- Single-click on the nodes that you want to change.
- Once all the nodes you want to encrypt with a non-default Network ID, click the **Security** page.
- Change to different Network ID.
- Press **Save Settings**.



# Setup

The screenshot shows the D-Link DHP-300 Setup interface. The top navigation bar includes 'Setup', 'Security', 'QoS', and 'System'. The 'Setup' tab is active, displaying the 'Network Info' section. This section contains a table with columns for Device Name, Network ID, MAC, Location, and Finished Quality. Two devices are listed: Device1 (Local) and Device2 (Remote). An 'AutoScan' checkbox is present and unchecked. Below the table are 'Reset' and 'Scan' buttons. To the right, a 'Helpful Hints...' section provides instructions on scanning for nodes and improving signal strength.

Device Name	Network ID	MAC	Location	Finished Quality
Device1	DHP-300	00195B0815A4	Local	●●●
Device2	DHP-300	0040F4821CB8	Remote	●●●

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This screen shows the current configuration of the DHP-300.

**Device Name:** Show name of devices that have been discovered. Default is Device 1, Device 2 etc (Max 16 characters, 0-9, A-Z, case sensitive) ie. Living room, Bedroom, etc.

**Network ID:** Powerline Network Name. The default ID is **DHP-300** (Max 10 characters, 0-9, A-Z, case sensitive).

**MAC:** MAC Address of detected node.

**Location:** Local or Remote nodes.

**Quality:** Network connection quality of the connected node.

- Three circles - Best powerline connection. Suitable for HD video stream connection.
- Two circles - Better powerline connection. Suitable for SD video stream connection.
- One circle - Good powerline connection. Suitable for data and internet activity connection.

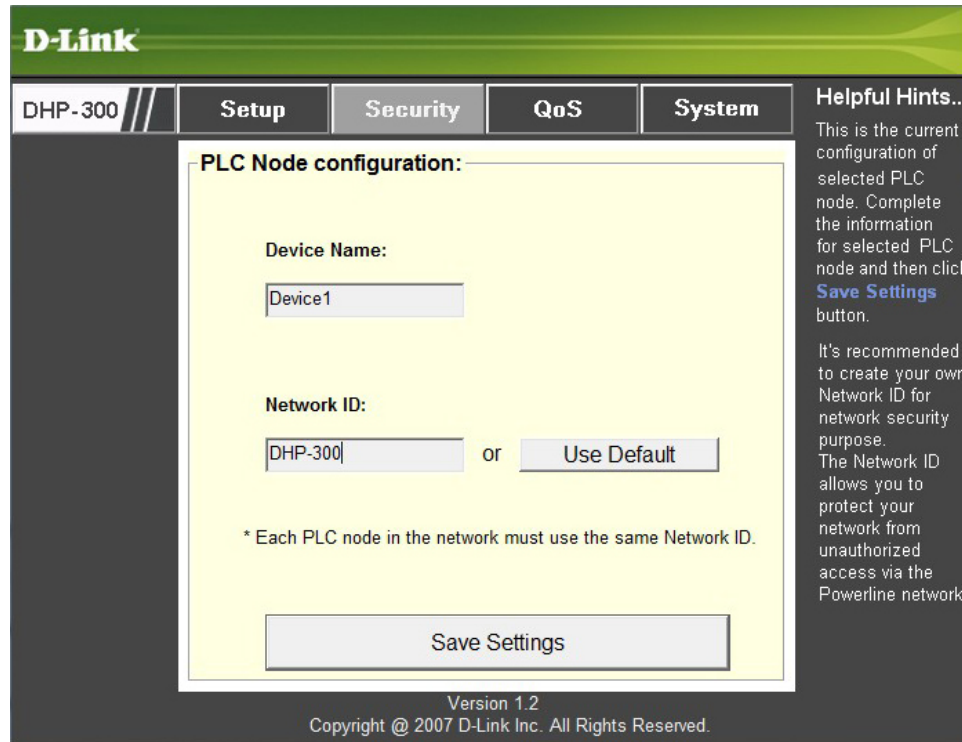
**Scan:** Scan the powerline network for PLC nodes. Check the **AutoScan** box to scan the network periodically.

**Note:** *Network ID* can be changed to prevent unauthorized access to your powerline network. Make sure the **Network ID** of the devices within your powerline network are the same to enable data transmission.



# Security

This section shows the security configuration of the DHP-300. You can modify any of the parameters and click **Save Setting** to save your configuration.



**D-Link**

DHP-300 // Setup Security QoS System

**PLC Node configuration:**

Device Name:

Network ID:  
 or

\* Each PLC node in the network must use the same Network ID.

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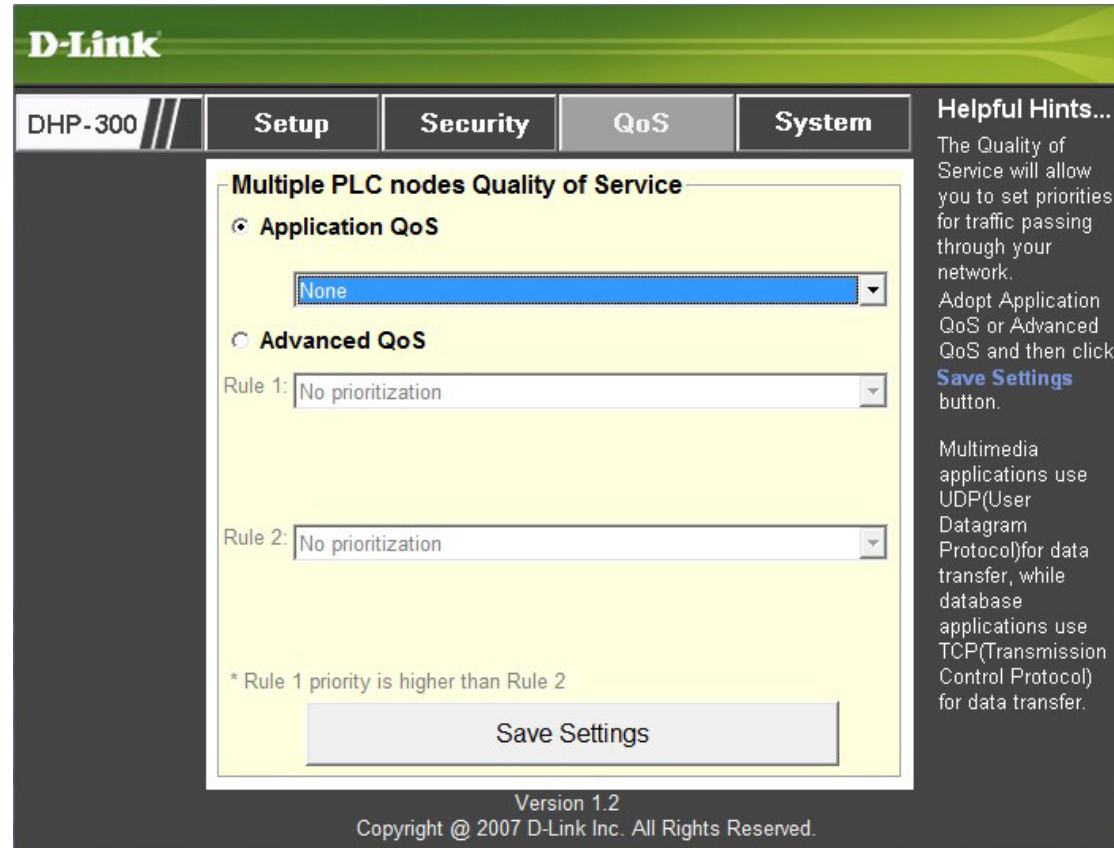
**Helpful Hints...**  
This is the current configuration of selected PLC node. Complete the information for selected PLC node and then click [Save Settings](#) button.  
It's recommended to create your own Network ID for network security purpose. The Network ID allows you to protect your network from unauthorized access via the Powerline network.

**Device Name:** Show name of devices that have been discovered. Default is Device 1, Device 2 etc (Max 16 characters, 0-9, A-Z, case sensitive) ie. Living room, Bedroom, etc.

**Network ID:** Powerline Network Name. Default is DHP-300 (Max 10 characters, 0-9, A-Z, case sensitive).

**Use Default button:** Select to reset the Network ID to the default value (DHP-300)

# Application QoS



**D-Link**

DHP-300 // Setup Security **QoS** System Helpful Hints...

**Multiple PLC nodes Quality of Service**

**Application QoS**

None

**Advanced QoS**

Rule 1: No prioritization

Rule 2: No prioritization

\* Rule 1 priority is higher than Rule 2

Save Settings

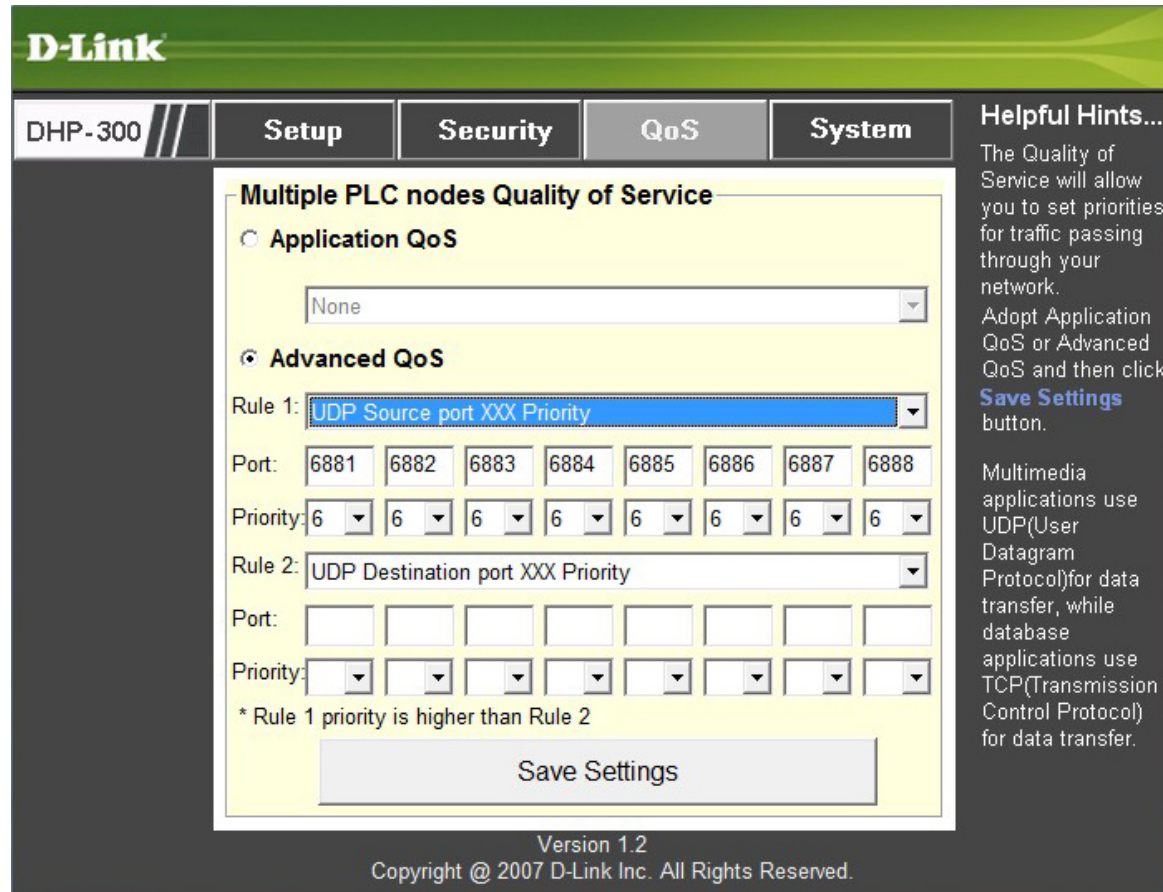
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**Helpful Hints...**  
The Quality of Service will allow you to set priorities for traffic passing through your network. Adopt Application QoS or Advanced QoS and then click **Save Settings** button.  
Multimedia applications use UDP(User Datagram Protocol)for data transfer, while database applications use TCP(Transmission Control Protocol) for data transfer.

The Quality of Service (QoS) screen will allow you to set priorities for traffic passing through your network. By default all types of traffic are assigned the same priority. Multimedia applications use UDP (User Datagram Protocol) for data transfer, while database applications use TCP (Transmission Control Protocol) for data transfer.

**Application QoS:** Select an application from the drop-down menu of predefined QoS rules to apply QoS automatically. Click the **Save Settings** button to apply your settings.

# Advanced QoS



**D-Link**

DHP-300 // Setup Security **QoS** System

**Multiple PLC nodes Quality of Service**

Application QoS

None

**Advanced QoS**

Rule 1: UDP Source port XXX Priority

Port: 6881 6882 6883 6884 6885 6886 6887 6888

Priority: 6 6 6 6 6 6 6 6

Rule 2: UDP Destination port XXX Priority

Port:

Priority:

\* Rule 1 priority is higher than Rule 2

Save Settings

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**Helpful Hints...**

The Quality of Service will allow you to set priorities for traffic passing through your network. Adopt Application QoS or Advanced QoS and then click **Save Settings** button.

Multimedia applications use UDP(User Datagram Protocol)for data transfer, while database applications use TCP(Transmission Control Protocol) for data transfer.

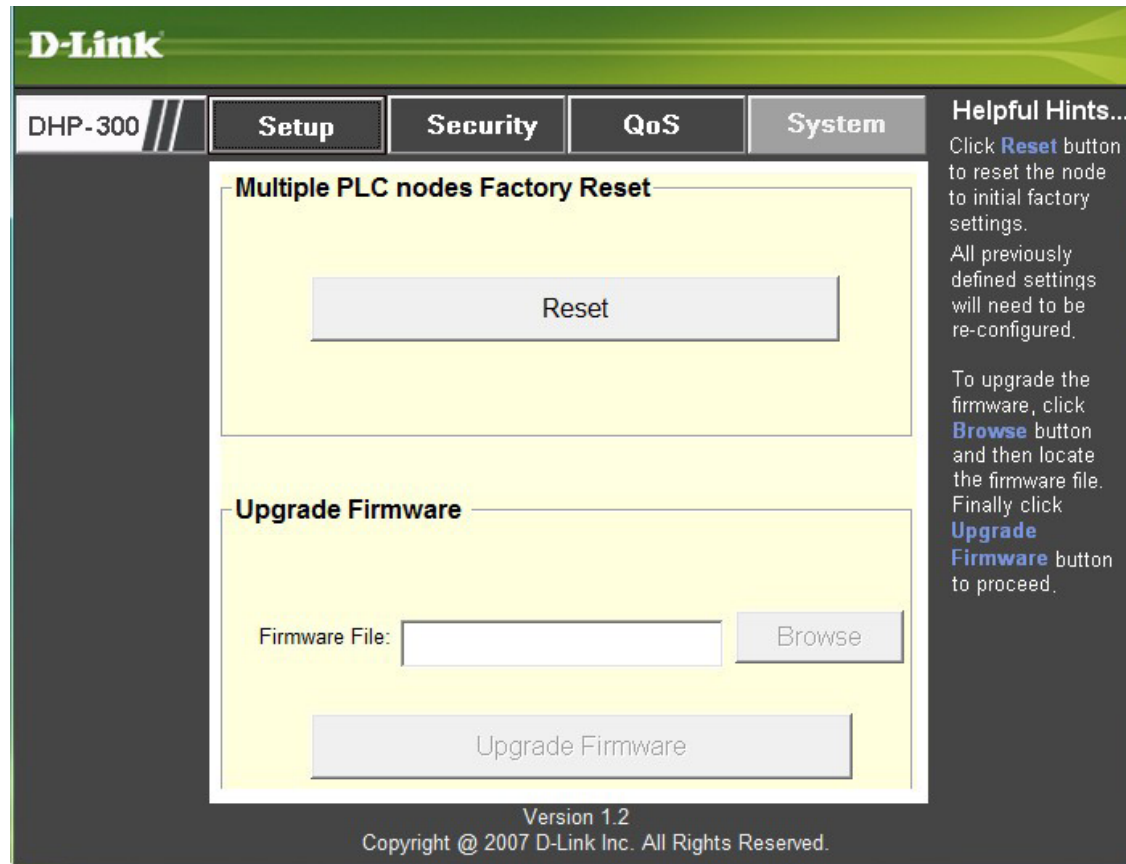
**Rule:** Select the traffic type (UDP or TCP) to have priority. 802.1p use prioritization bits in Layer-2 frames.

**Port:** Input the port number to have priority.

**Priority:** Input port priority from 1 to 6. The highest priority is 6, and the lowest is 1.

**Note:** Rule 1 has priority over Rule 2

# Reset



To reset your configuration password, please click **Reset** to restore the password to the factory default value.

# Technical Specifications

## **Network Port**

10/100 Ethernet port

## **EMC**

- FCC Part 15 Class B
- CE Class B

## **AC Input**

110 ~ 240VAC

## **Operation Temperature**

0 ~ 50

## **Storage Temperature**

-20~ 70°C

## **Humidity**

- Operation: 10% ~ 95 RH
- Storage: 10~ 90% RH