



## How to setup the Q.NE.T-WLAN655 in SBC Networks

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## Document versions

Version	Publication	Changes	Comments
EN01	2012-09-28		First version of manual
EN02	2013-12-20		New Logo and new company name

## Trademarks

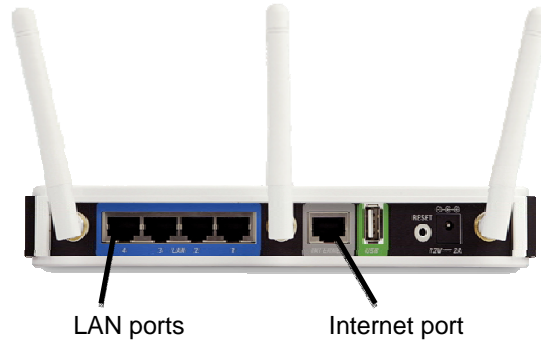
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Technical modifications and changes depending on state of the art.

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# 1 D-Link DIR-655 in SBC Networks

## 1.1 Introduction



The Saia PCDs are control systems with several web/IT functions on board. To get access to the devices it's possible to use portable devices like a smart phone or tablet PCs. This offers a high ease of use. Therefore it is required to have a wireless hot spot to connect to the PCDs. The following manual gives some hints for the different installations you usually find in networks. We usually find three different configurations:

- Saia PCD® in an own independent Network
- Saia PCD® with static IPs in an own independent Network
- Saia PCD® in a Network with a DHCP server

The following section gives sample configuration and hints to the different installation types. We do not recommend to use the W-LAN router in other applications with Saia PCD® devices.

The configuration of the PCDs is made in the device configurator of Saia PG5®. Refer to the PG5 manual 56/732 from the [www.sbc-support.com](http://www.sbc-support.com) website if you want to know how to use the device configurator.

## 1.2 How to open the router configuration:

The DIR-655 is delivered with a configuration CD. This CD is not usable for the configuration of networks in this manual. To configure the DIR-655 manually follow the steps below:

- Connect the computer with an Ethernet patch cable **to a LAN** port of the DIR-655
- Open your web browser and type in the standard IP of the DIR-655: 192.168.0.1



- Log in with the initial user name "admin". Leave the password field empty

LOGIN

Log in to the router

User Name : Admin

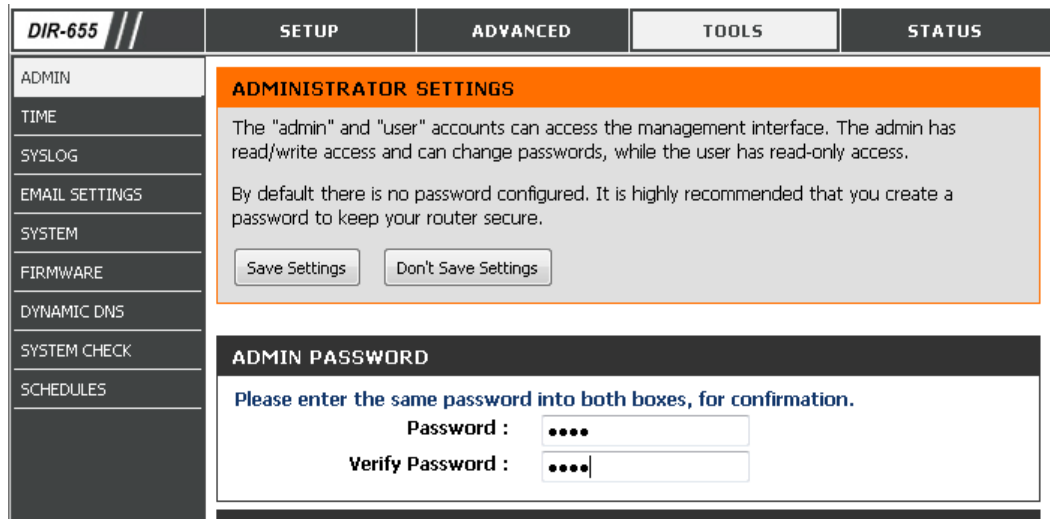
Password :

Log In

- Configure immediately a new password!

### 1.3 Configuration of a new password

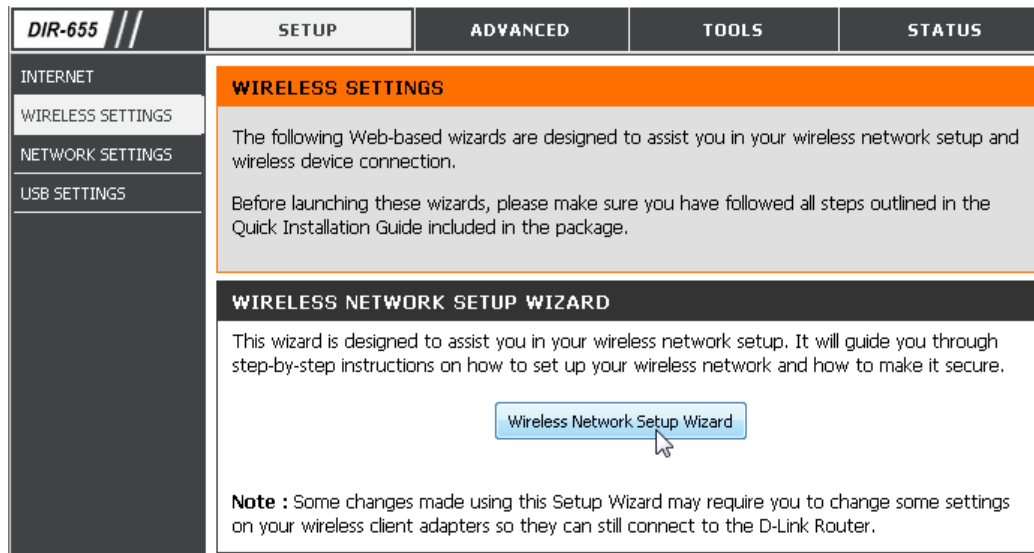
After you opened the setup menu you have to change the admin password for security reasons. Open the "Tools" menu on top and type a new admin password in the field.



### 1.4 Configuration of a WLAN key

To make sure that no unauthorised persons have access to the network it is recommended to configure a key for the WLAN network.

Open the "Wireless Network Setup Wizard" in the "Setup menu" and "wireless settings"



Give your WLAN network a name and select “Manually assign a network key”

**STEP 1 WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD**

Give your network a name, using up to 32 characters.

**Network Name (SSID) :**

Automatically assign a network key (Recommended)  
To prevent outsiders from accessing your network, the router will automatically assign a security (also called WEP or WPA key) to your network.

Manually assign a network key  
Use this options if you prefer to create our own key.

**Note: All D-Link wireless adapters currently support WPA.**

Type a password for the Wi-Fi access in the window and press next.

**STEP 2 SET YOUR WIRELESS SECURITY PASSWORD**

You have selected your security level - you will need to set a wireless security password.

The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)
- Exactly 64 characters using 0-9 and A-F

**Wireless Security Password :**

**Note: You will need to enter the same password as keyed in this step into your wireless clients in order to enable proper wireless communication.**

Note the log in data in the following window. This is needed to log in the network via W-LAN

**SETUP COMPLETE!**

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

**Wireless Network Name (SSID) :** Saia-Burgess

**Security Mode :** Auto (WPA or WPA2) - Personal

**Cipher Type :** TKIP and AES

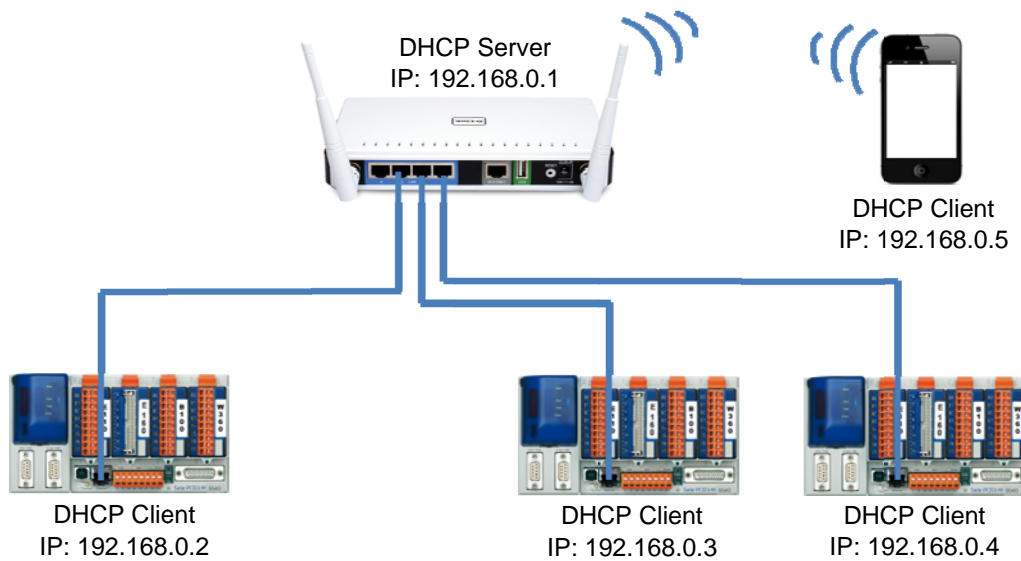
**Pre-Shared Key :** saiaburgesscontrols

## 2 The different network configurations

### 2.1 Saia PCD® in an own independent Network

The Saia PCDs are in an own network where the DIR-655 operates as DHCP server. The D-Link provides the IP addresses for the connected Saia PCDs and wireless devices.

- The DHCP Server of the D-Link has to be switched on
- The Internet port is **not used** in this case
- Saia PCDs have to be configured as DHCP clients



Open the "Setup" and "Network settings". In this network configuration you can give the DHCP server the full address range from 2 to 255. A reserved part for fix IP addresses is not needed.

#### ROUTER SETTINGS

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

**Router IP Address :**   
**Subnet Mask :**   
**Device Name :**   
**Local Domain Name :**   
**Enable DNS Relay :**

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#### DHCP SERVER SETTINGS

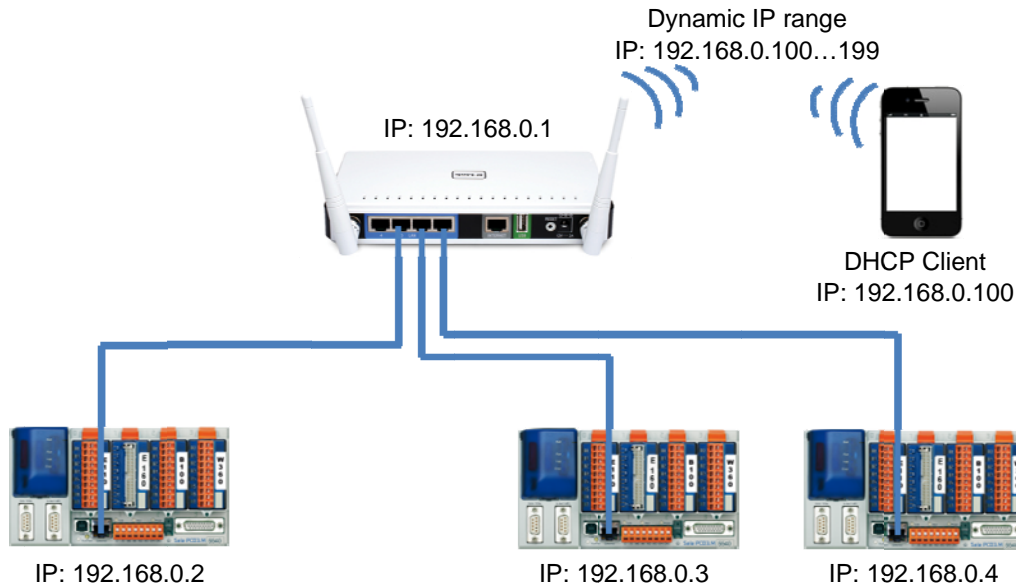
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

**Enable DHCP Server :**   
**DHCP IP Address Range :**  to   
**DHCP Lease Time :**  (minutes)  
**Always broadcast :**  (compatibility for some DHCP Clients)

## 2.2 Saia PCD® with static IPs in an own Network

The Saia PCDs are in an own network where all devices have a static IP address. The wireless devices need still a DHCP server. Therefore a specific IP address range can be configured.

- It is required to configure the IP of every PCD device manually
- The Internet port is **not used** in this case
- The DHCP of the D-Link has to be switched on and configured with an address range which doesn't create conflicts with the static IP devices.
- The standard configuration fits for most applications.



Open the "Setup" and "Network settings". For most applications the default settings showed below are suitable.

**ROUTER SETTINGS**

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

**Router IP Address :**   
**Subnet Mask :**   
**Device Name :**   
**Local Domain Name :**   
**Enable DNS Relay :**

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**DHCP SERVER SETTINGS**

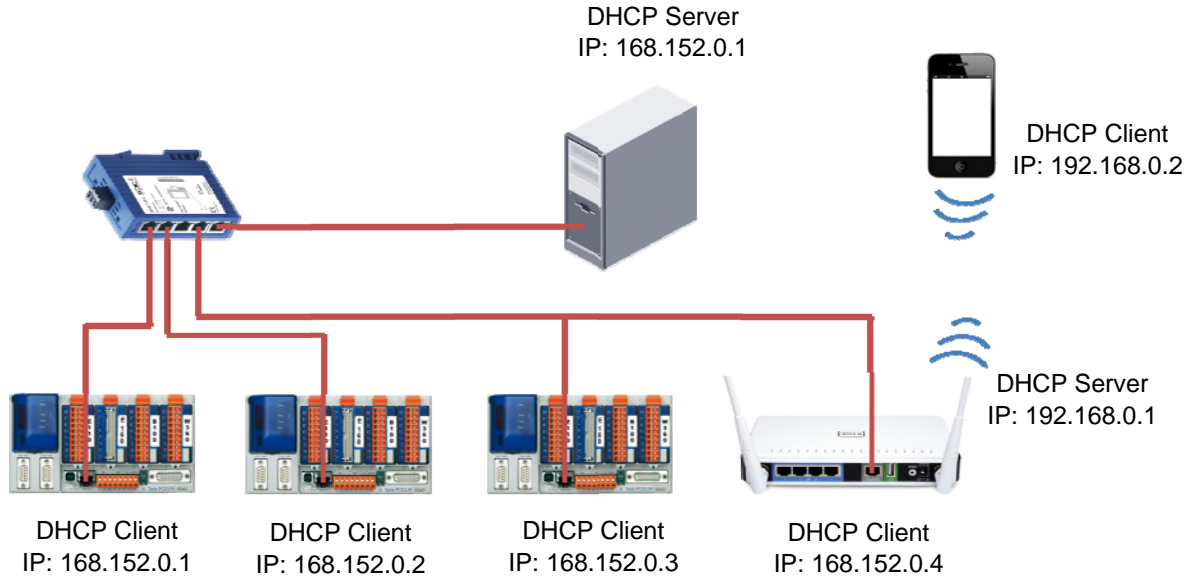
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

**Enable DHCP Server :**   
**DHCP IP Address Range :**  to   
**DHCP Lease Time :**  (minutes)  
**Always broadcast :**  (compatibility for some DHCP Clients)  
**NetBIOS announcement :**

### 2.3 Saia PCD® in a Network with a DHCP server

The Saia PCDs are in a network with an own DHCP Server. This could be the company network provided from the IT department. The D-Link only operates as a wireless router and provides a W-LAN network.

- The D-Link is only a router for portable devices like smart phones or Notebooks
- The wireless network can't be in the same subnet as the DHCP server
- **Connect the DHCP network to the internet port.** This makes sure that the DHCP server of the D-Link doesn't interfere with the DHCP Server of the network
- The D-Link acts as a DHCP client in the network on the Internet port and as a DHCP server in the wireless network



Open the "Setup" and "Network settings". In this network configuration you can give the DHCP server the full address range from 2 to 255. A reserved part for fix IP addresses is not needed.

**ROUTER SETTINGS**

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

**Router IP Address :**   
**Subnet Mask :**   
**Device Name :**   
**Local Domain Name :**   
**Enable DNS Relay :**

---

**DHCP SERVER SETTINGS**

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

**Enable DHCP Server :**   
**DHCP IP Address Range :**  to   
**DHCP Lease Time :**  (minutes)  
**Always broadcast :**  (compatibility for some DHCP Clients)



## A Appendix

### A.1 Support

Saia Burgess Controls works as distributor for the D-Link DIR-655. If you need support for the **DIR-655** you can directly contact the D-Link support team.

<http://www.dlink.com/>

If you need support for the configuration of **Saia PCD**<sup>®</sup> products or a SBC network you can contact directly the SBC support team in your country.

[www.sbc-support.ch](http://www.sbc-support.ch)

### A.2 Address of Saia Burgess Controls

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