



Residential Tier 1 Agents

Reference Guide



#### Tier 1: Home WiFi Customization Reference Guide Revisions

Note: Most recent revision at the top

Revision Date	Effective Date	Author	Approval	What Changed
4/13/2015	4/13/2015	A. Garcia		Added new GUI
1/17/2015	1/17/2015	A. Garcia		Document Created

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## Goal

To help limit the amount of calls you will have to transfer to an advanced technical group for basic customization of a wireless network and provide a better customer experience.

# **Objectives**

Upon completion of this module, you will be able to:

- Explain the best encryption type to use depending on the customer's set up
- Explain Pre-Shared key restrictions
- Walk a customer through logging into their gateway
- Identify where to change a customer's SSID, KEY, and Channel on different gateway types



#### Why Customize?

Customers want to have the ability to make their services custom tailored to their likes and needs. We still want to explain the benefits of using the default wireless log in information. If the customer insists on customizing their wireless information we can support them in doing this.

#### What do I need to know about customizing?

There are a couple of things to keep in mind revolving around the types of encryptions (password types) that are available and other wireless settings.

- Encryption Our newer gateways come set to WPA2-PSK set by default, although most devices are compatible with this you may still have to change it for the best type of connection.
  - WPA-PSK Seems to work better with Apple products (ipods, ipads, iphones, etc.), and some Nintendo gaming systems.
  - WPA2-PSK Seems to work better with Windows PCs, Android devices, and just about everything else.
  - WPA/WPA2-PSK Works best when the customer has a mix of products.
    - Note: To accomplish this set up on some gateways you will manually have to enable both WPA-PSK, and WPA2-PSK.
  - WEP 64-bit This is an older type of encryption; even though it is still an available option in our gateways it is not recommended.
    - It is not supported by Wireless N, meaning we would have to change the gateway to Wireless G/B. If this is done a customer's wireless speed would cap around 20Mbps.
- Algorithm Sometimes labeled encryption as well.
  - Your options will be TKIP, AES, or both TKIP/AES. You will want to stick to the combo (TKIP/AES) as it will be universal.
- Wireless SSID Name of the network.
  - This can be just about anything the customer wants; we would just want to recommend that it is not personally identifiable information (like any ones name, or address).
- Pre-Shared Key Network password restrictions.
  - WPA-PSK or WPA2-PSK Must be at least 8 characters long. Can be made up of letters (A–Z), numbers (0–9), and special characters (!@#\$). Case sensitive.
  - $\circ$  WEP 64-bit Must be exactly 10 characters long. Can be made up of letters (A F), and numbers (0 9). Case sensitive.
- Wireless Channel By default wireless channels are set to channels 1, 11, or auto. If there are interference issues because of other wireless networks, change it. You may have to go through multiple channels to find the best one.
  - Changing the wireless channel takes effect immediately after clicking apply, and typically will not drop the connection unless you chose a channel that happens to be more congested than the last.

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# **Home WiFi Customization**

#### What do I need to get started?

The customer needs to be connected to their gateway in order to access their gateway's wireless settings. This can be accomplished wirelessly or with a direct connection (using an Ethernet cable).

Note: The customer does not need to be online to access their gateway settings.

#### How do I get the customer in?

- 1. Once the customer is connected to their gateway (wired or wireless) the customer will first need to **open a browser** (webpage).
- Once the webpage is open, have the customer click into the address bar (not a search bar), type in 192.168.0.1 (alternate address: 192.168.1.1), and press enter.



3. The customer should be taken to a log in page for their gateway. The customer will then have to log in using the admin info for their specific type of gateway. Examples Below:

Gateway	Admin User Name	Admin Password	
Arris TG862G/DG860A Gateways	admin	password	
Arris TG1672G/DG1670A Gateways	admin	password	
Netgear CDG24G	admin	password	
Motorola Gateways	admin	motorola	
SMC Residential Gateways	cusadmin	password	
<u>Technicolor</u>	admin	password	
Ubee Gateways	user	user	
Ubee DDW36C	admin	Password printed on the manufacturer's label.	

**Note:** If you click on the gateway types you will be redirected to the simulation for it (If available). Simulations are available through the <u>Equipment Library</u>.

**4.** Once logged in, the customer will have to navigate to their wireless settings and adjust **SSID**, **Key**, **and Channel** as desired. Examples of where the customer will want to go below (based on type of gateway):



#### What will the customer see?

You will see the common gateways we currently use. The sections will be explained for the Arris, refer to this initial gateway for breakdowns of each customizable option.

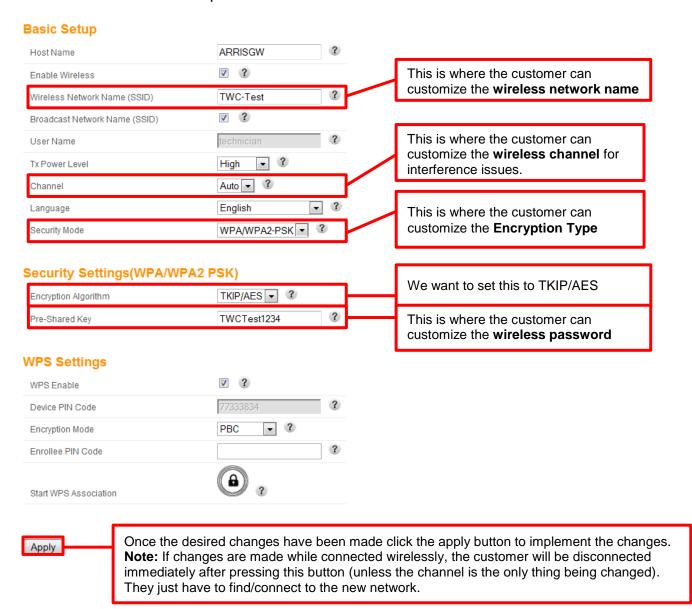
#### **Arris:**

#### TG862G/DG860A

Once inside an Arris gateway you will begin in the Basic Set up section. You can change your SSID, Key, and channel from here!



Once inside the Basic Setup section have the customer customize as desired.





#### TG1672G/DG1670A

Once inside an Arris gateway you will begin in the Basic Set up section. You can change your SSIDs, and KEYs for both 2.4 GHz and 5 GHz.

LAN Cotus Mirolago 2.4 CU to Mirolago E CU to Firayyoll

**Note:** To change the channel or encryption go to the specific 2.4/5 GHz section.

While your system has many configuration	n options, the options on this Bas	sic Setup page are those required by most users. Click the tab
access the other configuration pages to s	et advanced options. Hover the n	mouse pointer over the question mark icon next to an option t
view a description of that option. For cha	nges to take effect, you must clid	k the Apply button.
Basic Setup		
Language	English	• 3
Host Name	ARRISGW	3
Routing Enabled	₹ ?	
More LAN Settings		
Wireless 2.4 GHz		
	₹ ?	
Enable Wireless		3
Wireless Network Name (SSID)	TG1672GF2	
Pre-Shared Key	TG1672GD619F2	2
More Wireless Settings		
Wireless 5 GHz		
Enable Wireless	₹ ?	
Wireless Network Name (SSID)	TG1672GF2-5G	?
Pre-Shared Key	TG1672GD619F2	?
More Wireless Settings		
2.4G/5G WPS Settings		
	₹ ?	
WPS Enable		_ 2
Device PIN Code	62865920	3
WPS Mode	PBC ▼ ?	
Enrollee PIN Code		3
	(A)	
Start WPS Association		





#### System Basic Setup

Apply

While your system has many configuration options, the options on this Basic Setup page are those required by most users. Click the tabs to access the other configuration pages to set advanced options. Hover the mouse pointer over the question mark icon next to an option to view a description of that option. For changes to take effect, you must click the Apply button.

#### Wireless TG1672GF2-5G ▼ ? SSID **Basic Setup** ₹ ? Enable Wireless ? Wireless Network Name (SSID) TG1672GF2-5G ₹ ? Broadcast Network Name (SSID) ? Tx Power Level High ▾ ? Auto ▼ Channel ? AP Isolation ? Enable WMM ? WPA2-PSK (AES) (Recommended) Security Mode TG1672GD619F2 ? Pre-Shared Key

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#### Motorola (Old GUI):

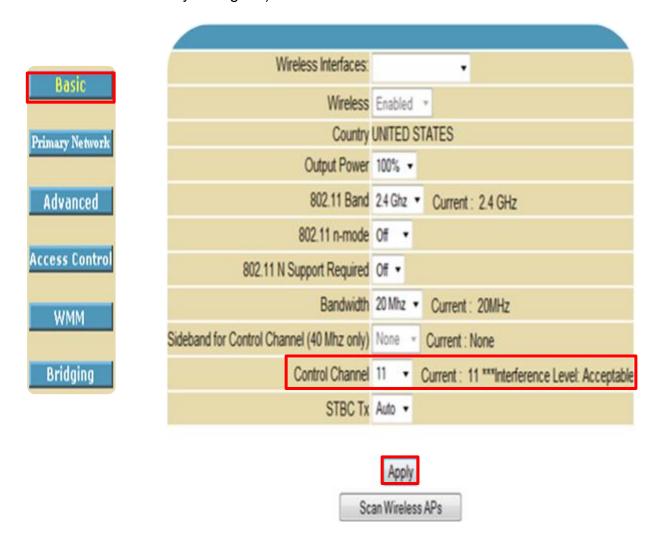
Once inside a Motorola you will have to click on the Wireless option on the Top Menu.



Motorolas will have 2 Menus on the left you will potentially use depending on whether you are trying to change the wireless channel or the SSID and Key.

Menu 1: **Basic** – This is where you can change the wireless channel.

**Note:** If you only change the wireless channel it should take effect immediately after pressing apply and should not disconnect the customer (unless the interference is worse on the channel they change to).





Menu 2: **Primary Network** – This is where you can change the SSID (wireless name), Key, Encryption Type, and Algorithm.





#### Motorola (New GUI):

Once inside a Motorola you will have to click on the Wireless option on the Top Menu.



Motorolas will have 2 menus from the drop down you will potentially use depending on whether you are trying to change the wireless channel or the SSID/Key.

Menu 1: **Basic** – This is where you can change the wireless channel.

**Note:** If you only change the wireless channel it should take effect immediately after pressing apply and should not disconnect the customer (unless the interference is worse on the channel they change to).

#### Wireless - 802.11 Radio

Configure the SBG6580's Wi-Fi radio.

Wi-Fi Radio Settings				
Wireless Radio Enable	Enabled ▼			
Output Power	100% ▼	▶ Help		
Band Selection	2.4 GHz   5 GHz   Current Band: 2.4 GHz			
802.11 Mode	b/g/n mode ▼	▶ Help		
Bandwidth	20 Mhz ▼ Current Bandwidth: 20MHz	▶ Help		
Channel	11 • Current Channel: 11 ***Interference Level: Acceptable			
	Apply			
	Scan Wireless APs			



Menu 2: **Primary Network Settings** – This is where you can change the SSID (wireless name), Key, Encryption Type, and Algorithm.

## Wireless - Primary Network Settings

Configure your wireless network. You can use a wireless local area network (WLAN) to share Internet access, files, printers, game consoles, and other devices among all the devices in your home.





#### **Ubee:**

Once inside a Ubee you will have to click on the Wireless option on the Top Menu.



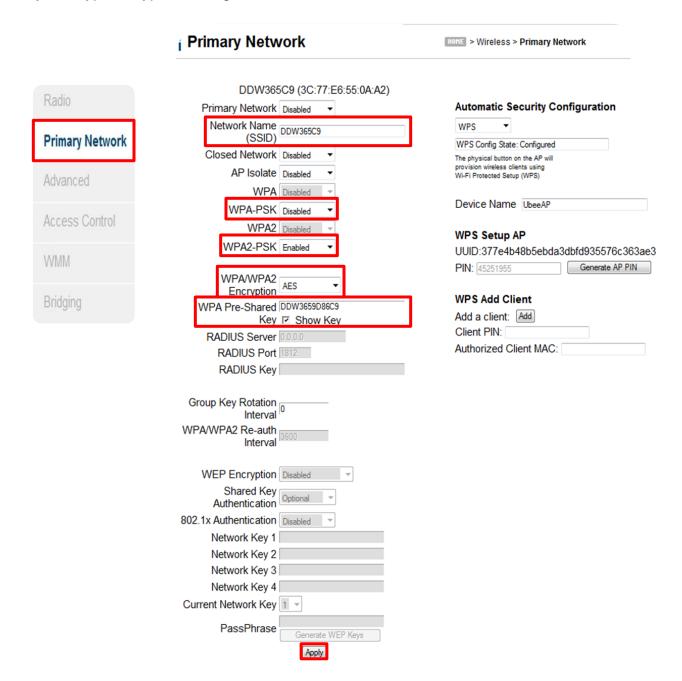
Ubees will have 2 Menus on the left you will potentially use depending on whether you are trying to change the wireless channel or the SSID and Key.

Menu 1: **Radio** – This is where you can change the wireless channel. Note: If you only change the wireless channel it should take effect immediately after pressing apply and should not disconnect the customer (unless the interference is worse on the channel they change to).

	Radio   HOME   > Wireless > Radio
Radio	Windows Laborate Commence
	Wireless Interfaces: DDW365C9 ▼
Primary Network	Wireless Enabled •
Tilliary Network	Country Q1 -
	Output Power 100% y
Advanced	802.11 Band 2.4 Ghz ▼ Current: 2.4 GHz
	802.11 n-mode Auto ▼
Access Control	802.11 N Support Required Off ▼
	Bandwidth 20 Mhz ▼ Current : 20MHz
WMM	Sideband for Control Channel (40 Mhz only) None
V V IVIIVI	Control Channel Auto ▼ Current : 6 ***Interference Level: Acceptable
Database	Regulatory Mode Off ▼
Bridging	TPC Mitigation (db) 0 (Off) 🔻
	OBSS Coexistence 1 (Enabled) ▼
	STBC Tx Auto ▼
	O DO TA PARA
	Apply Restore Wireless Defaults
	Scan Wireless APs



Menu 2: **Primary Network** – This is where you can change the SSID (wireless name), Key, Encryption Type, and Algorithm.





#### **Technicolor:**

Once inside a Technicolor go to Connection from the side menu, then select Wi-Fi. Select the network you wish to edit the SSID, Encryption, and Key for and click the Edit button to the right of it. If you want to change the channel then scroll down to the Basic Settigs for that connection.

	Private WiFi Network					
	Name	Frequency Band				
	Testing	2.4 GHz	CC:03:FA:91:46:27	WEP 128	Edit	
	Testing - 5G	5 GHz	CC:03:FA:91:46:28	WPA2-PSK (AES)	Edit	
▼ Gateway				(*****)		
At a Glance	Private WiFi Network Configuration (2.4 GHz)					
At a dialice	Wireless Network: Enabled	Disabled				
Email Notification	Network Name for 2.4 GHz(SSID): Testing		7			
<b>▼</b> Connection	Security Mode: WPAWPA2-PSK (TKIP/AES) (recommended) ▼					
Status	Network Password: ************************************					
Julius	WPA2 requires a 8-63 ASCII character.					
WAN Network	Broadcast Network Name (SSID): 🗹 Enabled					
Local IP Network	Enable WMM: 🕜					
Wi-Fi	Save Settings Restore Default Settings					
	2.4GHz WiFi Basic Setting					
MoCA	Mode: 802.11 b/g/n ▼					
	Transmit Power: 100% ▼					
	Channel Selection: O Automatic Manual					
	Channel: 6 ▼					
	Channel Bandwidth: 20 © 20/40					
	Sav	e Basic Settings				