

ACKSYS RADIO INSTALLATION PROCEDURE

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1. DOCUMENT HISTORY

Rev.	Fecha	Realizado	Revisado	Descripción
1.0	07.02.18	SCO		First Version



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3. INTRODUCTION

The main purpose of this document is describe how configure the ACKSYS radio device

4. ACKSYS RADIO CONFIGURACION

In this section is explained how to configure the acksys radio for working in PSA network. The faster method is charging a default configuration file. This file is provided with this document.

The first step is disconnect the ethernet cable in the Datalogger side and plugged it in your PC.

After that, you have to access in your browser to the IP configured by default in the radio device, in this case 192.168.3.100 (you must have configured an IP in this range in your PC).

The default screen of the radio device must appear. Then, we are able to upload the default configuration file. For do that you have to go the “TOOLS” menú.



Wireless just became easier
AirLink series

SETUP **TOOLS** STATUS

DEVICE INFO
NETWORK
WIRELESS
SERVICES
LOG

DEVICE INFORMATION

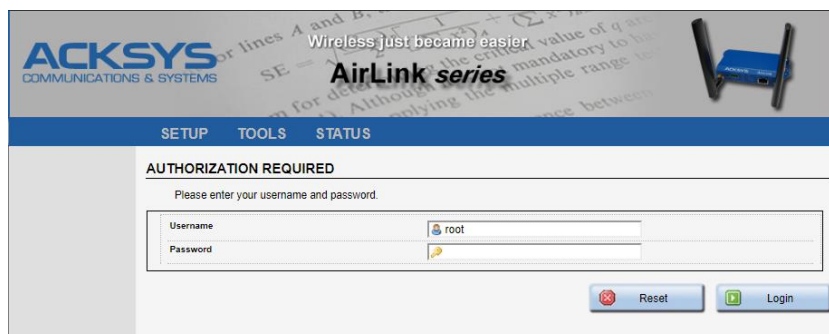
FIRMWARE INFORMATION

WaveOS version:	3.13.0.4-V3.12.x-1-9dfff0 (BETA version)
Boot loader version:	3.0.6.1
Firmware ID:	E2148.AC.1

DEVICE INFORMATION

Host name:	Acksys
Model:	AirLink
Product version:	V1
Motherboard ID:	0000196e2604
Product serial number :	17135034

It requires user and password (username: ‘root’ and password must be empty). Click in “Login” button.



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SETUP TOOLS STATUS

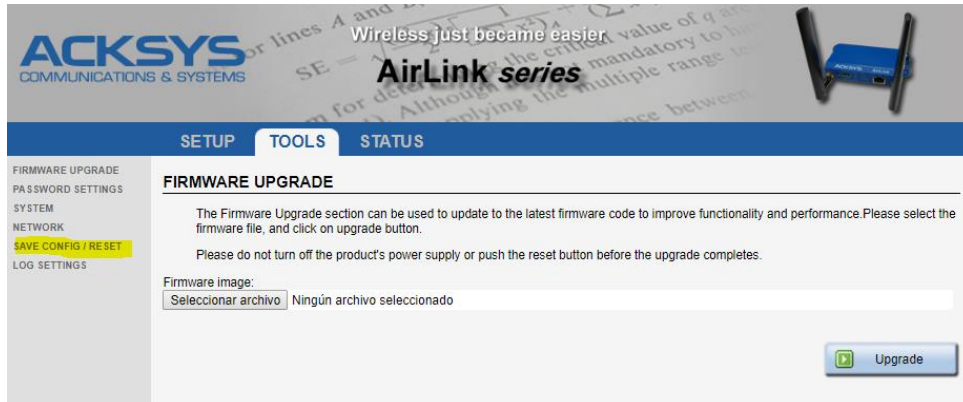
AUTHORIZATION REQUIRED

Please enter your username and password.

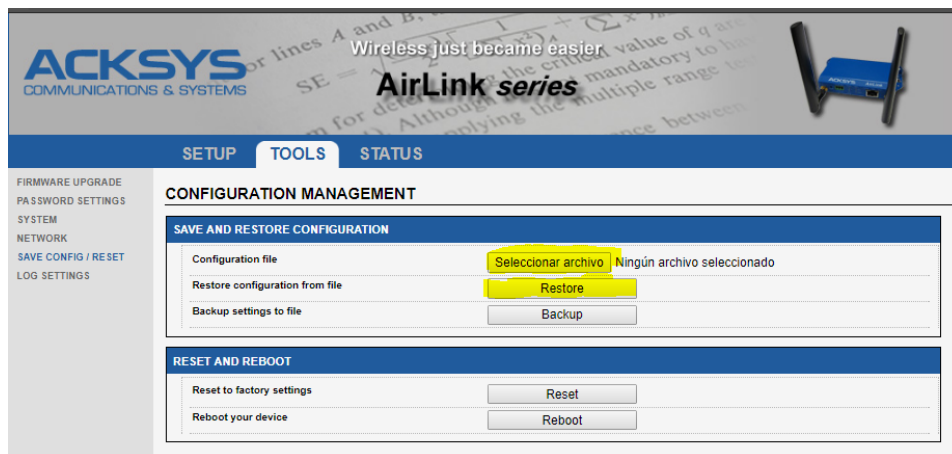
Username	root
Password	

Reset Login

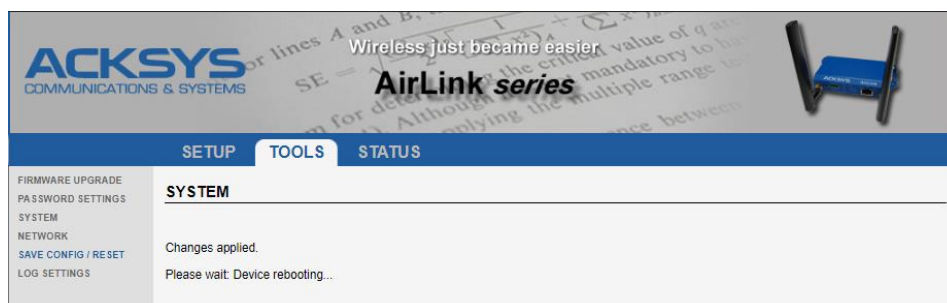
The next menu will appear, and you have to select the option “SAVE CONFIG /RESET”



In this screen, we are able to select the default configuration file (provided with this document) clicking in the option “Seleccionar archivo”. After that you must click on “Restore” for charging this configuration



The next message will appear



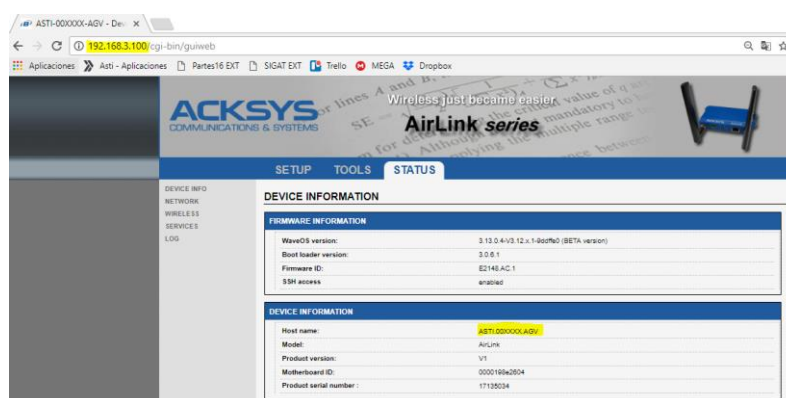
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By pressing this button we are applying the changes and resetting the device. We will see that a red LED will light up on the radio device. When it changes back to green, the reset will be completed and the settings indicated in the configuration file will be applied.

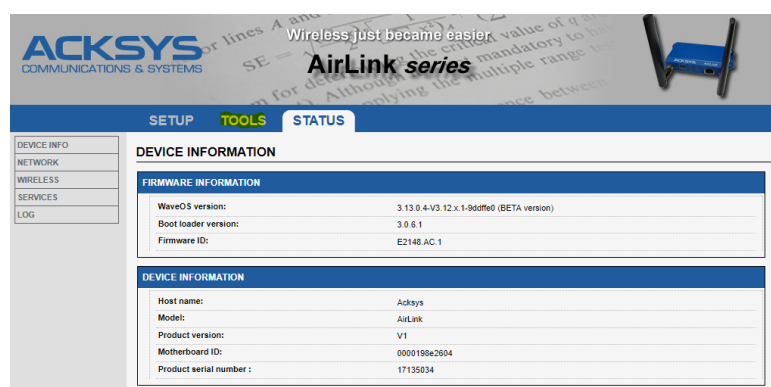


After that we have to Access again to the web configuration of the radio (192.168.3.100)



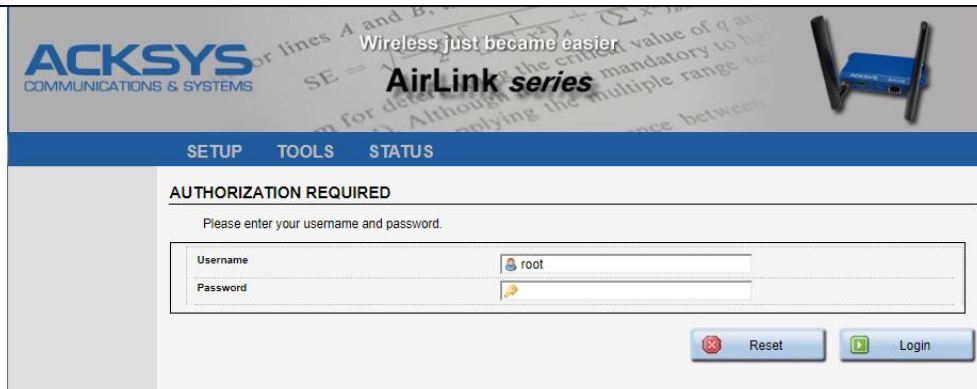
We can determine that the configuration file has been loaded correctly if the hostname is now "ASTI.00XXXX.AGV".

The last step is to change this hostname by the name of the AGV. To do this, let's go back to the "TOOLS" menú

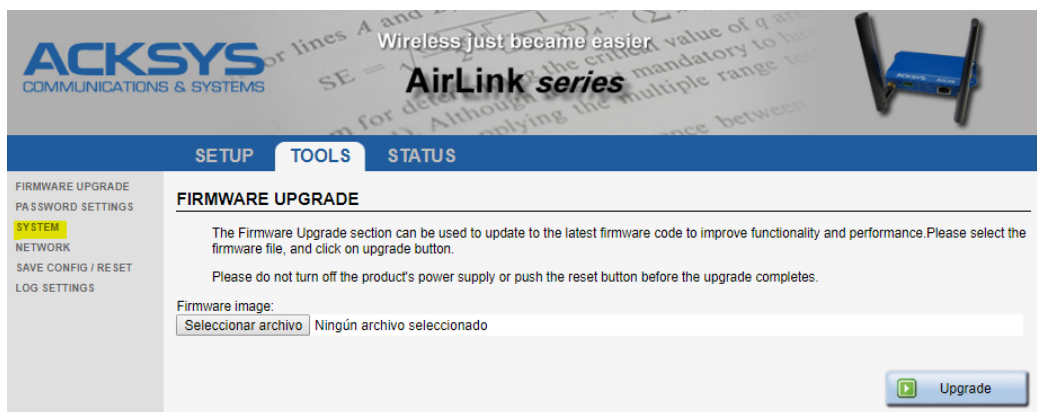


It requires again user and password (username: 'root' and password must be empty). Click in "Login" button.

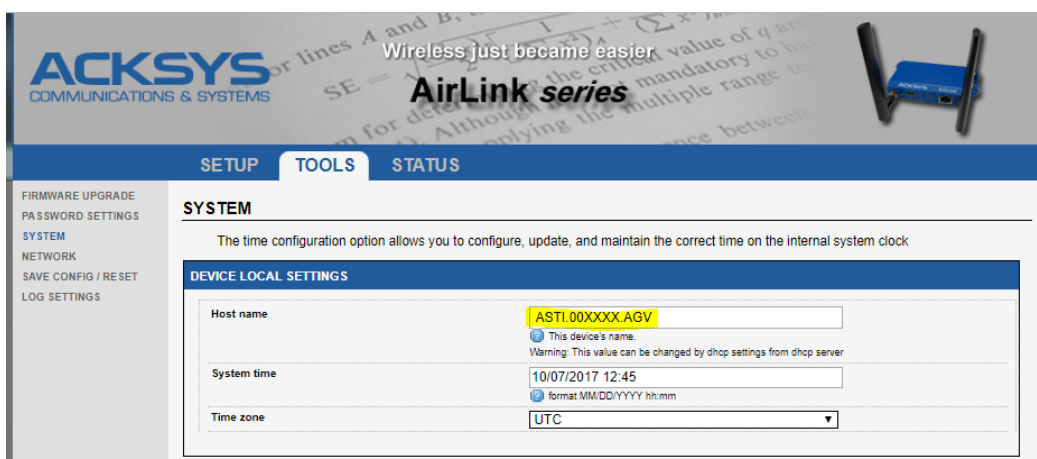




In this case we have to Access to “SYSTEM” menu



In this section we can edit the hostname



For finish we have to click on “*Save & Apply*” for save the changes

Warning: This value can be changed by dhcp settings from dhcp server

System time: 10/07/2017 12:45
format MM/DD/YYYY hh:mm

Time zone: UTC

MIB-2 SYSTEM SETTINGS

Device location: User-definable
this will appear in the MIB-2 'sysLocation' OID

NETWORK TIMER SERVER

server name	0.europe.pool.ntp.org
server port	123
server name	1.europe.pool.ntp.org
server port	123
server name	2.europe.pool.ntp.org
server port	123
server name	3.europe.pool.ntp.org
server port	123

Reset Save & Apply



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4.1. Check configuration applied

After upload the default configuration file we have to check if the correct settings are applied.

1. In the physical device

If the radio has been correctly configured and has been connected to the PSA network, we can see that a blue LED will flash on the radio device.



2. In the radio webpage

If we select the option “network” in the “status” menu we can see:

- The SSID of the network
- The channel of the AP where the radio is connected
- The IP assigned to the radio device (**remember this IP for the next step**)

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ACKSYS COMMUNICATIONS & SYSTEMS

AirLink series


SETUP TOOLS **STATUS**

DEVICE INFO
NETWORK
BRIDGES
MULTICAST ROUTES
ROUTES
WIRELESS
SERVICES
LOG

INTERFACES


LAN

IP CONFIGURATION
IPv4: 192.168.3.100 Netmask: 16 MTU: 1500

GRAPH	PHYSICAL INTERFACE	MAC ADDRESS	TX COUNT (IN BYTES)	RX COUNT (IN BYTES)	INTERFACE MODE	MTU
	LAN	00:09:90:00:90:f1	453525	164260	Negotiated 1000 baseTX FD, link ok	1500

WAN

IP CONFIGURATION
IPv4: 10.0.0.5 Netmask: 24 MTU: 1500
DHCP info: Lease time: 3600s

GRAPH	PHYSICAL INTERFACE	MAC ADDRESS	TX COUNT (IN BYTES)	RX COUNT (IN BYTES)	INTERFACE MODE	MTU
	WiFi	c4:93:00:08:a0:be	254546	297390	Role: Client (infrastructure) SSID: WLAN INDUS Channel: 40	1500

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4.2. Check radio connetion

Once we have verified that the configuration has been applied correctly, we unplugged the ethernet cable from our PC and connect it again in the datalogger.

Then we have to connect our PC to the PSA network "WLAN INDUS" (Remember that is a hidden network)

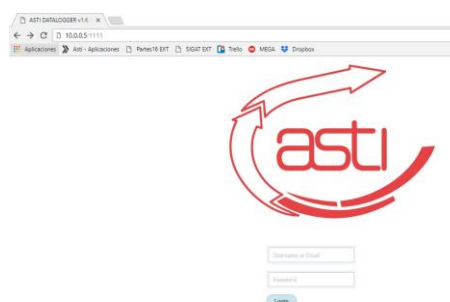
Once connected to the network, we open the browser and enter the IP that we should remember from the previous step.

We must be able to see the website of the radio, this way we make sure that the radio is correctly connected to the PSA network



Now to make sure that the datalogger is correctly connected to the radio, we must enter the same IP but with port 800, that is:

IP.IP.IP.IP:800



In this way we should be able to access the datalogger's website.

