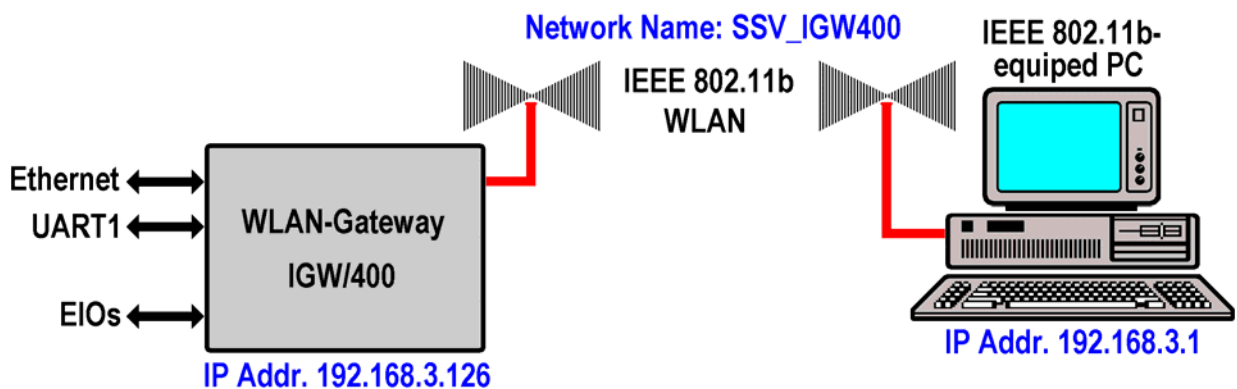


How to understand and use the IGW/400 WLAN Ad-hoc Mode

The IGW/400 WLAN Device Server offers two different WLAN operation modes: the **Ad-hoc (Peer-to-Peer)** and the **Infrastructure Mode**. This document describes the basic details for using the IGW/400 in Ad-hoc-based WLANs.

An IEEE 802.11 Ad-hoc network is characterized by a peer-to-peer relationship in which devices or stations communicate directly with each other, without going through an Access Point (AP). Ad-hoc mode is also referred to **Peer-to-Peer mode** or an **Independent Basic Service Set (IBSS)**. The Ad-hoc mode is useful for establishing a network where wireless infrastructure does not exist or where services are not required.

- **1. Step:** Setup an IEEE 802.11 Ad-hoc WLAN. This requires one client computer equipped with an IEEE 802.11 WLAN interface and the IGW/400 WLAN Device Server.



The picture shows a sample configuration with an IEEE 802.11 Ad-hoc WLAN. The network name in the sample is **SSV_IGW400**. Each IEEE 802.11-based member of a 802.11 Ad-hoc WLAN has to now this name.

Please note: All members in an IEEE 802.11 Ad-hoc WLAN have to use an IP address with the same Network ID (in this sample 192.168.3.x).

- **2. Step:** Use the IGW/400 WLAN settings and set the following parameters for the IEEE 802.11 Ad-hoc Mode.

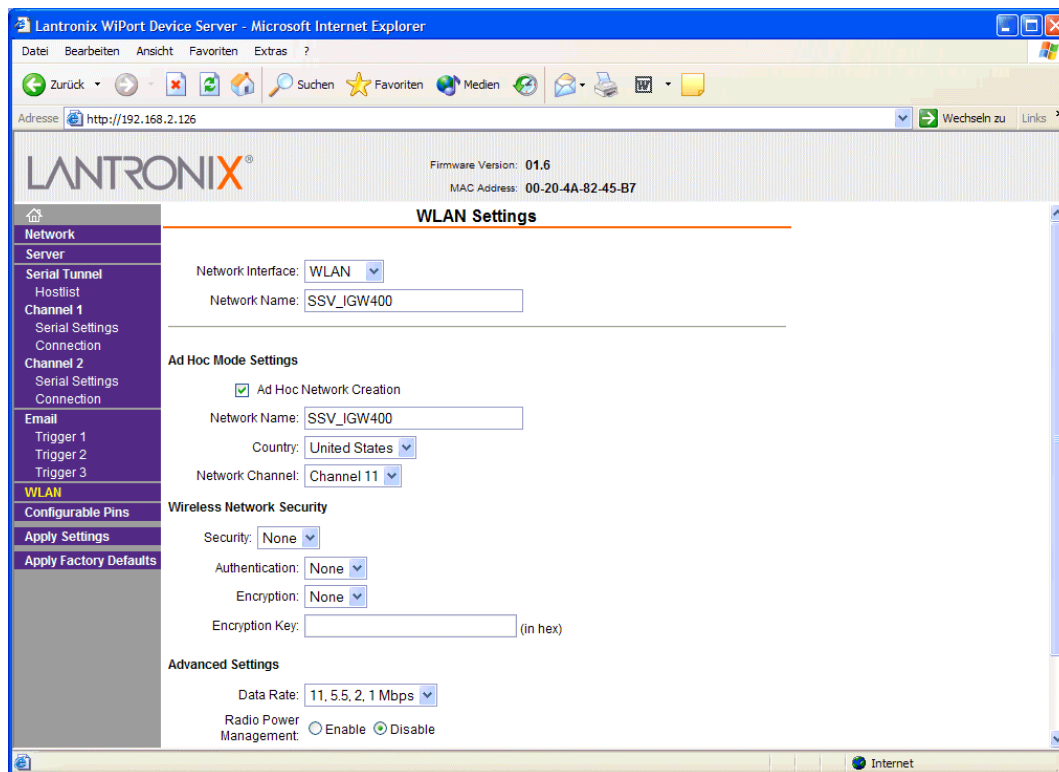
Parameter	Setup Value
Network Interface	WLAN
Network Name	SSV_IGW400
Ad Hoc Mode Settings	Enable
Ad Hoc Mode Settings: Network Name	SSV_IGW400
Ad Hoc Mode Settings: Country	USA
Ad Hoc Mode Settings: Network Channel	11
Wireless Network Security	Depends on your needs
Advanced Settings	Depends on your needs

The network name in this sample setup is **SSV_IGW400**. Change this name to your needs if necessary.

All members in an IEEE 802.11 Ad-hoc WLAN has to use the same WLAN channel (11 in the sample setup). Change this value to your needs if required. The following table shows the WLAN channels and the corresponding frequencies for IEEE 802.11b.

WLAN Channel	f1	Center Frequency	f2
1	2,401 GHz	2,412 GHz	2,423 GHz
2	2,406 GHz	2,417 GHz	2,428 GHz
3	2,411 GHz	2,422 GHz	2,433 GHz
4	2,416 GHz	2,427 GHz	2,438 GHz
5	2,421 GHz	2,432 GHz	2,443 GHz
6	2,426 GHz	2,437 GHz	2,448 GHz
7	2,431 GHz	2,442 GHz	2,453 GHz
8	2,436 GHz	2,447 GHz	2,458 GHz
9	2,441 GHz	2,452 GHz	2,463 GHz
10	2,446 GHz	2,457 GHz	2,468 GHz
11	2,451 GHz	2,462 GHz	2,473 GHz
12	2,456 GHz	2,467 GHz	2,478 GHz
13	2,461 GHz	2,472 GHz	2,483 GHz

Please note: The usage of the IEEE 802.11 WLAN channels and frequencies is not equal in all countries. Please watch the details for your country. Ask our support staff for more information's.



That's all.