

Quick Start Guide for Gemtek Gateways



Version 1.0
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Purpose of this document

1. This document should be used in conjunction with Gemtek P-560 gateway user guide for configuring your Gemtek gateway in WiFiLAN. Please refer to WiFiLAN administrator guide and Gemtek user guide for detail documentation
2. It assumes that the user has basic knowledge of networking including configuring subnet mask, RADIUS setting, default gateway and DNS configuration
3. In order to configure Gemtek you will need a static IP address, subnet mask, default gateway and DNS information given to you by your Internet Service Provider. Please keep this information handy while setting up your gateway
4. Configuring WiFiLAN you will need the WAN MAC address, RADIUS secret, serial number (if any) and public IP address of your Gemtek gateway
5. Finally, you need an active WiFiLAN account. Please contact Wifi-soft's sales to create your WiFiLAN account

Gemtek Setup

We assume that you have properly connected your Gemtek gateway to a broadband connection with static IP address. Additionally, your Gemtek admin interface is either accessible via a HTTP connection (WAN or LAN) or through a command line interface. This document explains the Gemtek configuration using a HTTP interface.

1. First you need to configure your RADIUS server setting on the gateway. To configure RADIUS server click on the RADIUS settings menu under the network interface. You will see the RADIUS setting screen.

To edit any parameter on this page, click the edit button. The following screen will be displayed to you. Enter the authentication IP, accounting IP and port numbers and backup IP of our RADIUS server

The RADIUS server settings are as follows:

Server Name	IP Address	Port
Primary RADIUS server	82.165.244.98	1812
Secondary or backup RADIUS server	69.64.34.236	1812

RADIUS servers		
description	value	action
name	TEST	
default	<input checked="" type="checkbox"/>	
authentication ip	82.165.244.98	
authentication port	1812	
authentication secret	pass	
accounting ip	82.165.244.98	
accounting port	1813	
accounting secret	pass	
backup on	<input type="checkbox"/>	
backup ip	69.64.34.236	
backup port	1812	
backup secret	pass	
reverse accounting	enabled	
user password md5sum secret	enabled	
strip WISP	enabled	
UAM authentication method	CHAP	
		update cancel

You can select either PAP or CHAP as UAM authentication method. CHAP is preferred since the authentication information is transmitted in encrypted format.

2. Next you need to set different RADIUS attributes for your user session. This configuration is optional. For NAS server id, enter a unique name. For example: WS_001 (first gateway of wifi-soft).

If you need bandwidth control, then set the bandwidth up and bandwidth down parameters to the desired values.

RADIUS settings		
setting	value	action
RADIUS retries	5	edit
RADIUS timeout (seconds)	2	edit
NAS server id		edit
user session timeout (seconds)	72000	edit
user accounting update interval (seconds)	600	edit
user accounting update retry (seconds)	60	edit
user idle timeout (seconds)	900	edit
location ISO country code	us	edit
location E.164 country code	1	edit
location E.164 area code	408	edit
location network	GEMTEK_SYSTEMS	edit
hotspot operator name	GEMTEK_SYSTEMS	edit
location	Terminal_Worldwide	edit
bandwidth up	1.00 Mbps	edit
bandwidth down	1.00 Mbps	edit

- Set the Domain policy for WISP to [Username@Domain](#) under the Network Interface -> RADIUS -> WISP section.

Domain Policy			
Domain Policy	Prefix Length	Action	
Username@Domain ▼	4 ▼	save	cancel
Username@Domain			
Domain/UserName			
use name prefix			
RADIUS name	bound to	action	

WiFiLAN Setup

1. You need to log into WiFiLAN by pointing your browser to <https://www.wifi-soft.net/wifilan/>
2. Before you add your first gateway in RADIUS section, you need to create a device group to organize your gateways. To create a new device group, click on the RADIUS menu option and then on the Groups submenu.

New Radius Group

New Group Information	
Group Name *	wifi-soft
Group Type	device
Description	Device group for wifi-soft gateways
Location	
<input type="button" value="Submit"/>	

3. Next you can a location entry for your new hotspot location. Although this step is optional, we highly recommend that you create a location entry since it helps you organize your hotspot locations and generate various location specific reports. To create a new location entry, click on RADIUS menu and then on the Location submenu. You need to click on New Location tab to enter a new location.

New Location

Location Information	
Location Name *	Cafe House
Address	120 Range Hill Road
City-State *	Austin - TEXAS <input type="button" value="New"/>
Zipcode	78729
Latitude	
Longitude	
Type	Coffee Shop
<input type="button" value="Submit"/>	

4. Once the location entry for your hotspot is created, you may proceed to add your first gateway entry. To add a new gateway, click on the RADIUS menu and then on the Gateway submenu. Click on the New Gateway tab to add a new gateway.

The description of each parameter is as follows:

New Radius Gateway

Gateway Information	
Device Name *	Cafe House
Device UserName	
Device Password	
IP Address *	24.198.234.8
Secret *	wifi-soft
Device Group *	wifi-soft
Device Type *	Gemtek P-590
MAC Address	00-0C-2F-45-A8-29
Description	Cafe House Gateway
Location	Cafe House

- Device Name: A friendly name for the gateway
- UserName & Password: Needed for gateways that fetch their configuration from RADIUS server. Optional
- IP Address: Public IP of the gateway
- Secret: The RADIUS secret configured in the gateway
- Device Group: The device group that we created in the previous step
- Device Type: Type of Device
- MAC Address: The MAC address of the WAN port
- Location: The location where the gateway is installed

You may add more information about the gateway in the Network section. Additionally, you can also configure the gateway for 24x7 monitoring by specifying the monitoring parameters as shown below:

Monitoring Information	
Is Monitored	<input checked="" type="checkbox"/>
Monitoring Type	<input checked="" type="radio"/> Ping <input type="radio"/> HTTP <input type="radio"/> SNMP
Monitor Modem	<input checked="" type="checkbox"/>
Modem IP	59.192.181.32 (If different than device IP)
Modem Monitor Type	<input checked="" type="radio"/> Ping <input type="radio"/> HTTP <input type="radio"/> SNMP
Monitoring Interval	15 minutes Custom Interval (10 mins or more)
Notify Enabled	<input checked="" type="checkbox"/>
Notify After	3 failures
Email Notifications	notify@wifi-soft.com

- **Is Monitored** : Device is monitored if checked
- **Monitoring Type** : Type of protocol used for monitoring
- **Monitoring Interval** : Frequency of monitoring
- **Monitor Modem** : DSL or Cable modem is monitored if checked
- **Modem IP** : The IP address of the modem if different from device IP
- **Modem Monitor Type** : Type of protocol used for monitoring
- **Notify Enabled** : Whether monitoring notification is enabled
- **Notify After** : Number of failure before sending notifications
- **Email Notifications** : List of email address for notification

That's it. You newly configured Gemtek gateway is ready for RADIUS authentication. You may configure the login and welcome URL for your gateway so that user can enter username and password that will be sent to our RADIUS server for authentication.

Please make sure that you use [username@realm](#) as username on your login pages so that it would be easier for you to support roaming in the future.

For more information on creating user accounts, please refer to the WiFiLAN administrator guide.