802.11 a/b/g Wireless Access Point Monitoring Device

WATCHDOG.WLAN®

Watchdog.WLAN

(Alarm & IDS)

INTERNET

Power

AP function diagnose and report

802.11 a/b/g AP

Wireless user

The Wireless Network Watchdog System (Watchdog.WLAN) is designed to ensure the access points in your wireless network are functioning properly and at peak capacity.

The Watchdog.WLAN system provides the following diagnostic tools and capabilities:

1. Network administrators establish a schedule for Watchdog.WLAN to test ESSID or BSSID access points within their wireless network.

2. According to the preset schedule, Watchdog.WLAN sends diagnostic test messages to the wireless access points to ensure the send/receive functions of the access points are operating within normal parameters.

3. If an access point does not respond to the test message, or replies with error messages, Watchdog.WLAN automatically sends a signal to reset the power source on the access point and thereby restore the access point to the proper operating level. Watchdog.WLAN also sends an email to the network administrator to report the error or malfunction.

4. The Watchdog.WLAN system records the results of these tests so network administrators can track the performance of the access points within their wireless network.

In addition to providing diagnostic and system reset functions for wireless network access points, the Watchdog.WLAN system can also monitor, diagnose and reset any other IP-based equipment in your wireless network utilizing the same tools and system functions outlined in steps 1-4 above.

The Watchdog.WLAN system also includes network intrusion detection functions and identifies any unusual behavior or data transmissions on your wireless network.

Hardware Specifications :

· Supports 802.11 a/b/g wireless networks.
· Provide RJ45 LAN port.
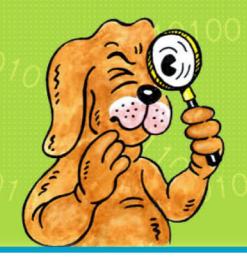· Provides reset capabilities of network access point and IP-equipment power switches.

System Specifications

- Able to connect to specific (targeted) ESSID or BSSID wireless AP according to time set, and able to send detection or diagnostic information to the connected AP and get the feedback (reply) from the AP to determine whether the sending and receiving function of detected AP is working properly.

- If the diagnostic information is not returned, or return with error or transmission time out, and detect the wireless AP is not functioning properly, Watchdog.WLAN will send signal to reset the power source of the wireless AP, to restart the entire AP for proper function.

- When detected that the AP is not functioning properly, the system will automatically send an email to inform the administrator.

- Able to connect to specific IP equipment according to predefined time, and able to send detection or diagnostic information to specific IP equipment to determine whether the sending and receiving

functions for that particular IP equipment is working properly.

- If the diagnostic information sent to a specific IP equipment is not returned, or return with error or transmission time out, and detect the specific IP equipment is not functioning properly, the system will send signal to reset the power source of the IP equipment, to restart the IP equipment for proper function.

- When detected that the specific IP equipment is not functioning properly, the system will automatically send an email to inform the administrator.

- Able to send feedback diagnostic information through wired or wireless network.

- Provide the setting or configuration page for administrator to setup the ESSID, BSSID, IP, diagnostic period, and system IP management.

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Intrusion Detections System Capabilities and Functions:

- Able to detect any unusual wireless packets that are probing the network within an 802.11b or 802.11g wireless network environment and issue an alarm.
- Able to detect and find unusual packets transmitted from SSID within the wireless network environment.
- Able to identify the source sending large amounts of de-authenticated or de-associated packets designed to overload and paralyze the wireless network.
- Able to detect unusual packet transmissions designed to conduct a site survey.
- Able to detect and identify a wireless access point that is changing its wireless channel.
- Able to detect users that probe the network but do not log in.
- Able to detect unauthorized users that are sending packets to the wireless network.
- Able to detect the 0 length probe response (error) reply from network computers.
- Able to detect unexpected BSS time stamp overflow electric waves that affect the wireless access points within the wireless network.
- Immediately notifies the network administrator of any/all network intrusion attempts.
- Supports log server for recording log events.
- Supports MAC, SIP, DIP, BSSID, ESSID, event type, time stamp, sessions number, and connection number log.