# EKI-6232 & EKI-136x-AE Ping Watchdog configuration SOP

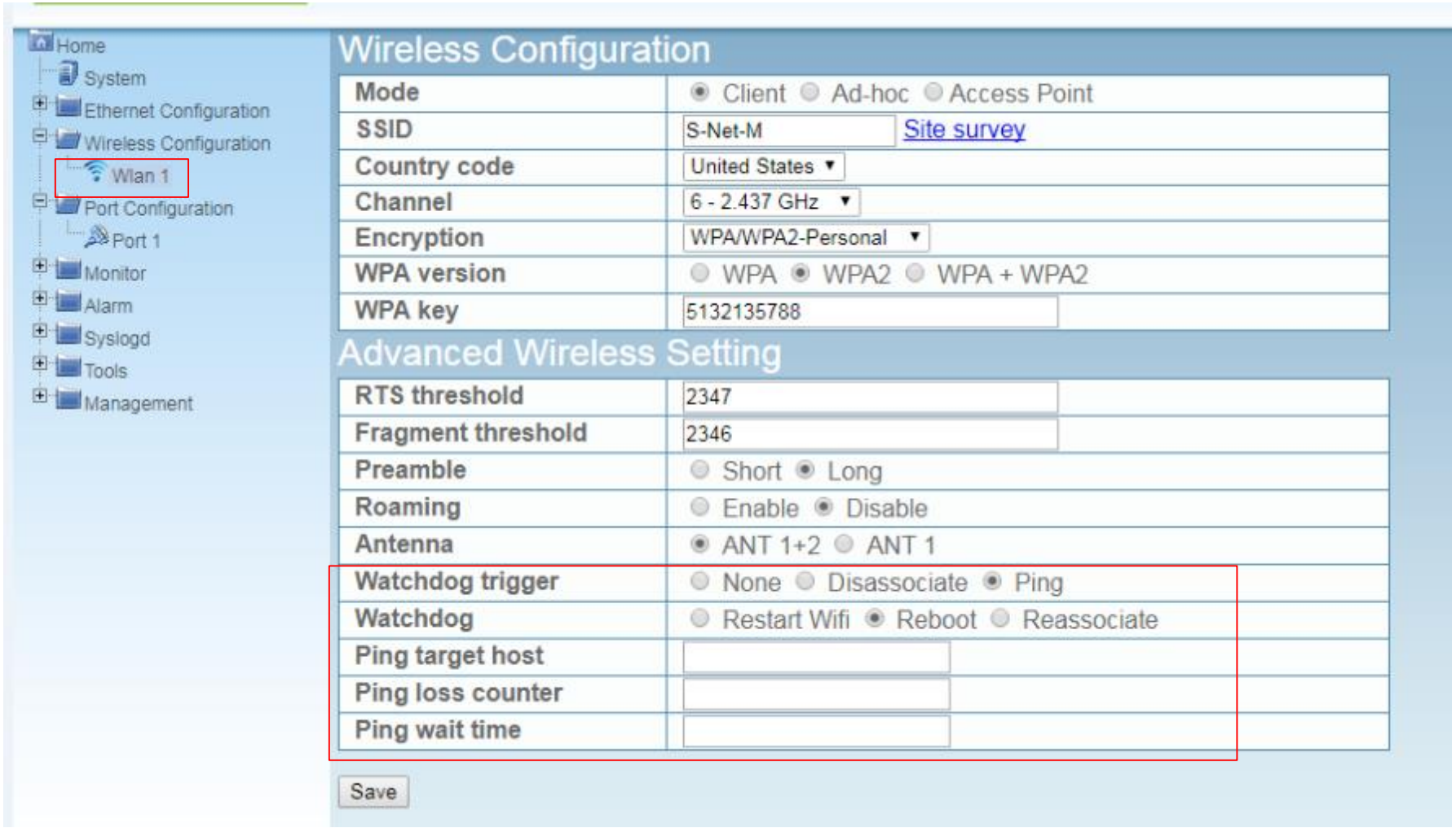
| Revision Date | Revision | Description | Author |
|---|---|---|---|
| April/2018 | V1.0 | Initial release | ICG AE Jacky.Lin |
| April/2018 | V2.0 | Add watchdog trigger mechanism description | ICG AE Jacky.Lin |

# Abstract

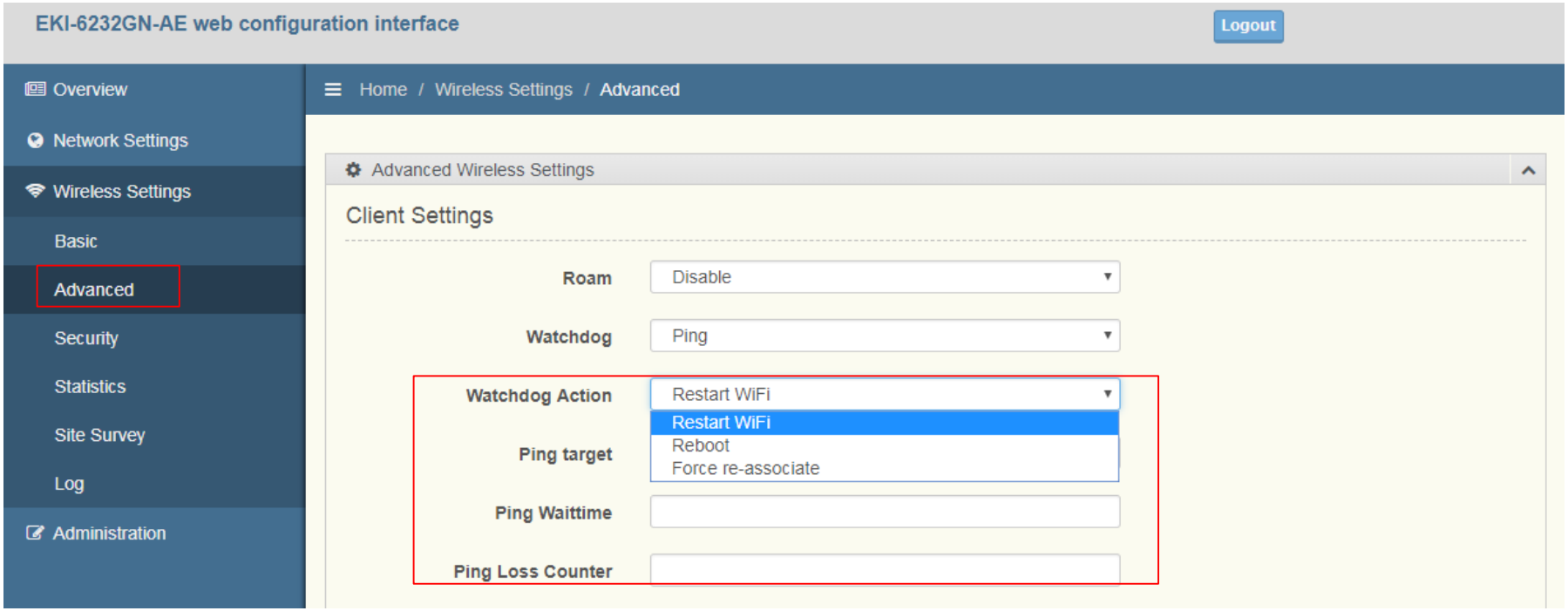
- **This SOP explains how to configure Ping watchdog on the EKI-6232 & EKI-136x-AE**
- **Related products:**

  EKI-6232, EKI-136x-AE
- **Requirement:** EKI-6232 or EKI-136x-AE

# EKI-136x-AE Ping Watchdog setting Page



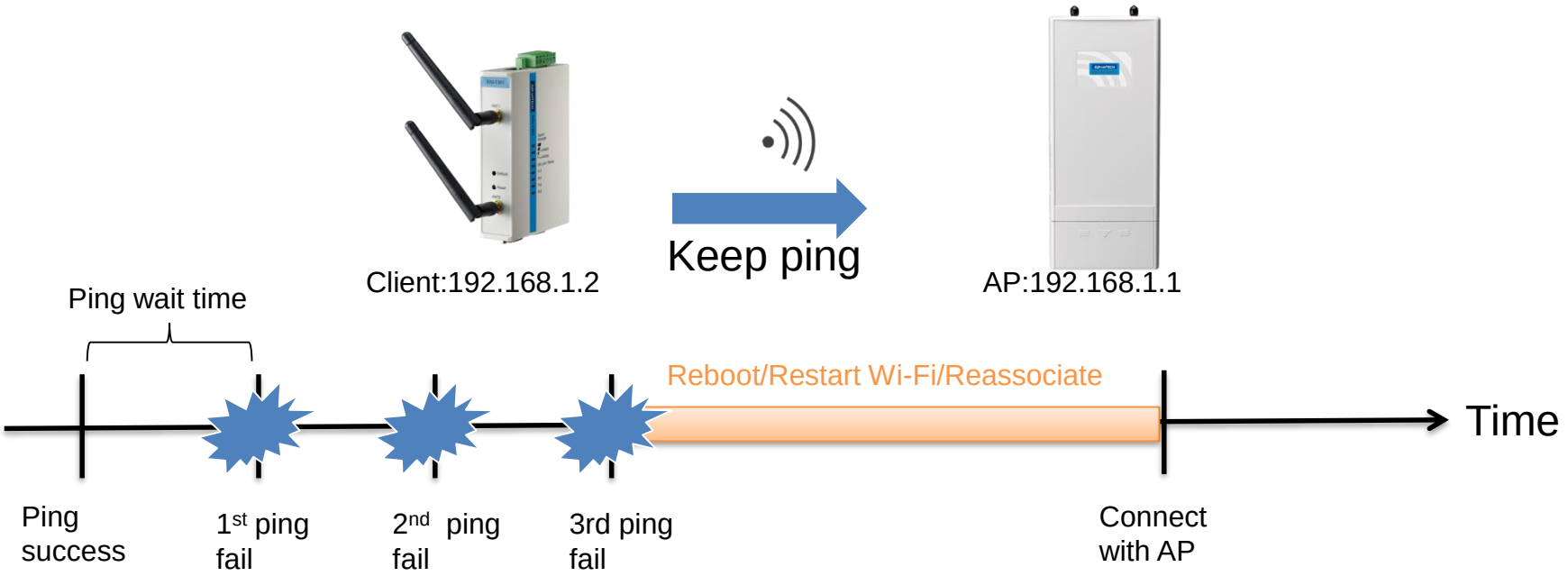
# EKI-6232 Ping Watchdog setting Page



# Ping Watchdog example

- **Ping target host : please enter the Target IP**
  - **Ex. 192.168.1.1 (AP's IP)**
- **Ping loss counter:**
  - **Ex. Ping loss counter = 3**
- **Ping wait time (s): interval between each ping**
  - **Ex. 10s**
- **Waiting time: Reboot > Restart Wi-Fi > Reassociate**

- Reboot : Reboot EKI device (about 50s)
- Restart Wi-Fi: initial the demon and send the associate packet (about 2~3s)
- Reassociate: send associate packet immediately (about 2~3s)



# Check by the WLAN Log

- **If the Pingwatchdog is triggered to Restart Wi-Fi /Reassociate, you can check the WLAN log and see the event.**
  - **Please refer the SOP "EKI-136x WLAN Log" for how to collect the WLAN Log**

```
[1970-03-14 21:47:23].861332 us: P2P: Channels - hexdump(len=11): 01 02 03 04 05 06 07 08 09 0a 0b
[1970-03-14 21:47:23].861552 us: P2P: Update channel list
[1970-03-14 21:47:23].861775 us: P2P: channels: 81:1,2,3,4,5,6,7,8,9,10,11
[1970-03-14 21:47:23].861925 us: P2P: cli_channels:
[1970-03-14 21:47:31].258823 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 1
[1970-03-14 21:47:31].259102 us: Ping watchdog target IP=172.168.1.152 waittime=12 ping_count=3 fail=3
[1970-03-14 21:47:31].259235 us: Func: do_adv_watchdog: Restart wireless device by watchdog
[1970-03-14 21:47:31].259417 us: Reading configuration file '/tmp/wpa_supplicant.conf'
[1970-03-14 21:47:31].259713 us: ctrl_interface='/tmp/wpa_supplicant'
```

**Record for Restart Wi-Fi**

```
[2000-02-19 22:24:07].100553 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 0
[2000-02-19 22:24:07].100819 us: Register Advantech watchdog timeout event loop , method = ping, adv_ping_waittime=10
[2000-02-19 22:24:17].260182 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 0
[2000-02-19 22:24:17].260449 us: Register Advantech watchdog timeout event loop , method = ping, adv_ping_waittime=10
[2000-02-19 22:24:27].420548 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 0
[2000-02-19 22:24:27].420817 us: Register Advantech watchdog timeout event loop , method = ping, adv_ping_waittime=10
[2000-02-19 22:24:40].580833 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 1
[2000-02-19 22:24:40].581095 us: Ping watchdog target IP=192.168.1.52 waittime=10 ping_count=3 fail=1
[2000-02-19 22:24:40].581256 us: Register Advantech watchdog timeout event loop , method = ping, adv_ping_waittime=10
[2000-02-19 22:24:51].610876 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 1
[2000-02-19 22:24:51].611148 us: Ping watchdog target IP=192.168.1.52 waittime=10 ping_count=3 fail=2
[2000-02-19 22:24:51].611285 us: Register Advantech watchdog timeout event loop , method = ping, adv_ping_waittime=10
[2000-02-19 22:25:04].750928 us: Func:wpa_supplicant_adv_watchdog_timeout_ping ping exit status = 1
[2000-02-19 22:25:04].751199 us: Ping watchdog target IP=192.168.1.52 waittime=10 ping_count=3 fail=3
[2000-02-19 22:25:04].751334 us: Func: do_adv_watchdog: Re-associate by watchdog
[2000-02-19 22:25:04].751461 us: Fast associate: Old scan results
[2000-02-19 22:25:04].751629 us: wlan0: Setting scan request: 0.000000 sec
```

**Record for Reassociate**

- Note: It's not able to see the event on WLAN log if the Pingwatchdog is triggered to "Reboot" device. Because after rebooting ,the log will be clear.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