

Wireless - Canopy Backhaul (Slave)

Version 1.0

This probe monitors a Canopy wireless backhaul slave unit. It retrieves and displays a number of variables. It will place the device in alarm or warning states based on user-defined thresholds for low RSSI, high Jitter, long Round Trip delay, and low Power Level, and give an alarm if the unit is not registered.

Thresholds:

Alarms:

RSSI: 0 (No Registration)
RSSI: User-defined (< 500)
Jitter: User-defined (> 13)
Round Trip Delay: User-defined (> 2000)
Power Level: User-defined (< -90)

Warnings:

RSSI: User-defined (< 600)
Jitter: User-defined (> 11)
Round Trip Delay: User-defined (> 1500)
Power Level: User-defined (< -85)

Version: Included with WISPerMapper 4.2.1. Part of bundle 1.0. Requires InterMapper 4.2.1 or later.

License: IMWirelessAddon (WISPerMapper wireless device)

Supported Equipment: Canopy Backhaul slave

Community String: By default, Canopy radios use the default read-only community "Canopy". SNMP community strings are case-sensitive.

Polling Rate: For stability reasons, we recommend a polling interval of 5 minutes or more.

SNMP v2c: This probe uses SNMP v2c, required by Canopy radios. (On auto-discovery, these devices will default to ping.)

Glossary of Terms:

RSSI: The returned signal strength. (OID: RSSI)

Jitter: The variation in round-trip times, from 1 (good) to 15 (bad). (OID: Jitter)

Round Trip Delay: The total time between a packet being sent and the response being received, in multiples of 100 nanoseconds. (OID: airDelay)

Power Level: The power level of the unit. (OID: radioDbm)

Session Status: The session status of the unit. (OID: sessionStatus)

Master MAC Addr.: The MAC address (or ESN) of the associated master unit. (OID: registeredToAp)

Color Code: The Color Code is used to distinguish networks operating on the same frequency, or serve as an organizational configuration for wireless networks. (OID: colorCode)

Related Probe: The associated master unit will require the "Canopy Backhaul (Master)" probe. Canopy 45Mbps backhauls require the "Canopy Backhaul (45Mbps)" probe.

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Wireless - Canopy Backhaul (Slave)
Device Status
  Name: Wireless - Canopy Backhaul (Slave)
  DNS Name: localhost.
  Address: 127.0.0.1
  Status: Unknown (Reachable since Mar 17, 15:11:32)
  Protocol: Wireless - Canopy Backhaul (Slave) (port 161)
  Up Time: n/a
  Availability: 0.0 % (of 0 seconds)
  Packet Loss: 0.0 % (of 1 total attempts) [Reset]
  Recent Loss: None
  Round-trip time: n/a msec
Canopy Backhaul Slave Information
  RSSI: [N/A]
  Jitter: [N/A] (1-15)
  Round Trip Delay: [N/A] x 100ns
  Power Level: [N/A]
  Session Status: [N/A]
  Master MAC Addr.: [N/A]
  Color Code: [N/A]
Last updated Mar 17, 15:11:32; interval: 30 seconds
Reason: No SNMP response.
```