Ibex-4000 Series

RAILWAY ACCESS POINT WITH WI-FI 6(E) TRIPLE RADIO

RELEASE NOTES

V24.18.00 | Date: 17.03.2025

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General remarks

- Based on OpenWRT V23.05.2 branch with Linux Kernel 5.15.137

New

- Support for 2.5G/5G/10G variant.
- Support for wireless modules in 6 GHz band frequencies.
- LED status display of the wireless modules.
- DAWN: Decentralized Wireless Controller
- More sensor values can be viewed (temperatures, voltages, currents).
- Dropbear: Added new parameter 'MaxUnauthPerIp'.
- Enforce rules when changing password.
- Add SNMP OID (1.3.6.1.4.1.2021.8.1.2.113) to read device tree Model description.
- Support for *wle3000hx* modules in 2.4 and 5 GHz band frequencies.
- Package `wifi_band_switch` to change between band frequencies.
- Support for the Ethernet PHYs.
- Kernel patch for dynamic SerDes protocol switch on LS1046A.
- Support for CyAP4.
- The `cyap_status` tool now shows more information:
  - Firmware revision installed in LTE modems.
  - Operational status (Version of running firmware, boot mode).
- Device information (`cyap_status`) is written to system log on boot.
- Commandline option (-C) for LLDPD service to compute chassis ID.

Changed

- `lan`, `lan_alias`, `lan_dhcp` and `lan_mac` are now part of the `br-lan` bridge by default.
- Radio modules names have been swapped: the 6GHz radio module is radio2 now.
- Default WLAN bands (factory default settings).
- SNMPTRAP supports v2c and v3 protocol selection.
- Moved to the OpenWRT V23.05.2 version.
- Moved to the Linux Kernel 5.15.137 version.

- The SNMP MIB lmSensors is now supported for all sensors, except for modem temperature sensors.
- The SNMP OID 1.3.6.1.4.1.2021.8.1.2.107 is now DEPRECATED and will be removed in future releases. Use the lmSensors MIB instead.
- Moved to the OpenWRT V22.03.5 version.
- Moved to the Linux Kernel 5.10.176 version.
- QoS migrated from iptables to nftables.
- QoS section in WUI moved from *Network/QoS* to *Services/QoS via Nftables*.
- The 'apscan' application no longer uses the iwinfo wext API.
- Connection check (connchk) no longer applies a blacklist to a wireless SSID.
- Client isolation migrated to nftables.
- Rebooting system triggers `gpio-restart` event and a board power cycle.
- In the WLAN configuration, `hwmode` was replaced with `band`:
  - There is no change in the web interface.
  - In `/etc/config/wireless`, the parameter `hwmode` was replaced by `band`.
  - SNMP now reports `band` instead of `hwmode` (e.g. OID 1.3.6.1.4.1.2021.8.1.2.1003).
  - This change was made by the OpenWRT project. See https://openwrt.org/docs/guide-user/network/wifi/basic?s[]=hwmode for details.

Removed

- ICCP was removed from the web interface. The functionality is still available, but deprecated. It will be removed in the future.

Fixed

- mac80211: sometimes QCN9074 modules do not come up if more than one is used.
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- Wireless client mode in 6GHz frequency band.
- Security fixes CVE-2023-* from OpenWrt v22.03.5 till v23.05.2:
  24056, 1255, 28484, 2602, 2603, 2650, 1255, 0466, 0465, 0464, 23908, 41804, 4806, 5156, 5363
- Security fixes CVE-2022-* from OpenWrt v22.03.5 till v23.05.2:
  21151, 21233, 30065, 40982, 23908, 41804, 21216, 33972, 33196, 38090
- CPU TMU sensor stall up after some minutes.
- Company name and support email address in LUCI Status->Advanced->License
- Security fixes CVE-2023-* from OpenWrt v21.02.3 till v22.03.5:
  0215, 0286, 0464, 0465
- Security fixes CVE-2022-* from OpenWrt v21.02.3 till v22.03.5:
  0778, 0934, 1292, 1304, 2068, 2097, 23218, 23219, 25236, 25638, 25640, 30065, 34293, 37434, 39173, 40674, 41674, 42719, 42720, 42721, 42722, 4304, 43680, 4450, 46392, 46393, 47522

- Time indication on WUI Status and System page.
- Shortened boot time by accelerating wireless cards firmware loading.
- Wireless interface restarting by ‘observer’ service.
- Reboot and powerdown now work.
- Fixed upgrade mechanism.
- Additional call of ‘udevtrigger’ to generate USB-Modem device symlinks correctly.
- Make reset switch work.
- BMC driver now prints the correct version string.
- BMC driver now supports reading the log and writing temperatures.
- Incorrect triggering of the module LED and incorrect module LED state after factory reset.
- Client Isolation startup, is now waiting for ARP resolution device to become ready.
- The FragAttacks WiFi vulnerability fixed.

Known Bugs

- The configuration file for wireless cards is generated too late after a factory reset. The network wireless configuration page is therefore not visible in the web interface. After a further reboot, the wireless configuration can be operated as usual.