Etisalat eLife Connect Firmware Release Note

Version	Date	Description
0.01.01	2020-11-23	First release.
0.01.02	2020-11-30	Support 17 mobile APP APIs
0.01.03	2020-12-02	Fix the mobile APP APIs bug
0.01.04	2020-12-06	Support features
0.01.06	2020-12-18	Support 13 more mobile APP APIs
0.01.07	2020-12-25	Release for pre golden sample
0.01.08	2020-12-31	Support 23 more mobile APP APIs
0.01.09	2021-01-08	Support Vianeos local WebGUI (MP2)
0.01.10	2021-01-22	Bug fix and more mobile APP APIs
0.01.11	2021-02-08	MP3 firmware
0.01.13	2021-03-05	MP4 firmware
0.01.14	2021-04-02	MP5 firmware
0.01.15	2021-04-19	MP6 firmware
0.01.16	2021-04-22	Quick fix TR69 cannot provision issues
0.01.16_20210512_Daily	2021-05-12	0.01.16_20210512_Daily build firmware for Mobile API tests (beta #1).
0.01.16_20210526_Daily	2021-05-26	0.01.16_20210526_Daily build firmware for Mobile API tests (beta #2).
0.01.16_20210611_Daily	2021-06-11	0.01.16_20210611_Daily build firmware for Mobile API tests (beta #3).
ARHB_v1.17	2021-07-08	Phase 2 firmware release
ARHB_v1.17a	2021-08-31	Beta release
ARHB_v1.18	2021-09-17	Formal release
ARHB_v1.19	2021-10-22	
ARHB_v1.20	2021-11-16	Formal release
ARHB_v1.20_20211216_Daily	2021-12-16	Daily firmware before ARHB_v1.21 for issues verification. (telnet was enabled for debugging.)
ARHB_v1.20_20220104_Daily	2022-01-04	Beta release for verify 4G dongle issues.
ARHB_v1.20_20220112_Daily	2022-01-12	Beta release for verify TR069 issues.
ARHB_v1.20_20220121_Daily	2022-01-21	Beta release for verify 5G issues.
ARHB_v1.20_20220126_Daily	2022-01-26	Beta release for verify 5G issues.
ARHB_v1.21	2022-01-28	Formal release (based on 0126-Daily FW)
ARHB_v1.21_20220225_Daily	2022-02-25	Beta release for verify Mobile API/Assia issues.
ARHB_v1.21_20220304_Daily	2022-03-04	Beta release for verify ETI issues.
ARHB_v1.21_20220311_Daily	2022-03-11	Beta release for verify throughput issue.

ARHB_v1.21_20220331_Daily	2022-03-31	
ARHB_v1.21_20220406_Daily	2022-04-06	
ARHB_v1.21_20220421_Daily	2022-04-21	
ARHB_v1.22	2022-04-24	Same as ARHB_v1.21_20220421_Daily FW.
ARHB_v1.22_20220513_Daily	2022-05-13	Enable BCMDBG for debugging only.
ARHB_v1.22_20220517_Daily	2022-05-17	For debugging only.
ARHB_v1.22_20220518_Daily	2022-05-18	For legacy devices testing and debugging only.
ARHB_v1.22_20220531_Daily	2022-05-31	Final beta before formal ARHB_v1.23 release.
ARHB_v1.22_20220607_Daily	2022-06-07	Quick fix for ETI-92.
ARHB_v1.23	2022-06-09	Same as ARHB_v1.22_20220607_Daily FW.
ARHB_v1.23_20220613_Daily	2022-06-13	Enable BCMDBG and ssh on formal ARHB_v1.23 for debugging only.
ARHB_v1.23_20220614_Daily	2022-06-14	Enable BCMDBG but disable ssh on formal ARHB_v1.23 for debugging only.
ARHB_v1.23_20220716_Daily	2022-07-16	Beta release for verify MOBILE APP JIRA issues (ssh is enabled for testing).
ARHB_v1.23_20220803_Daily	2022-08-03	Beta release with "wl down" for 2.4G disappear issue testing.
ARHB_v1.23_20220909_Daily	2022-09-13	Beta release for verify Mobile API
ARHB_v1.23_20220928_Daily	2022-09-28	Beta release for reduce 2.4G power to 23 dBm.
ARHB_v1.23_20221018_Daily	2022-10-18	Beta release for TR069 Tx Power not work issue.
ARHB_v1.23b	2022-10-25	Formal release for reduce 2.4G power to 23dBm

Version: **ARHB_v1.23b**
Date: **2022-10-25**

This FW is the same as ARHB_v1.23_20221018_Daily FW.

Feature Added / Modification / Improvement:
- Add Mobile API for HBA-104: Rename empty devices name. *(since ARHB_v1.23_20220716_Daily)*
- Upgrade Assia CloudCheck Agent to 3.3.4. *(since ARHB_v1.23_20220803_Daily)*
- Modify Mobile API: HBA-100: Reduce the testing time (about 15 seconds) as Speedtest APP. *(since ARHB_v1.23_20220803_Daily)*
- Modify WLAN: ETI-86: Add "wl down" before reboot the DUT or restart Wi-Fi. *(since ARHB_v1.23_20220803_Daily)*
- Add Mobile API: HBA-107: FWshould support the failover scenario. *(since ARHB_v1.23_20220909_Daily)*
- Modify LOG: enable more WLAN driver logs for tracing Wi-Fi issues. *(since ARHB_v1.23_20220928_Daily)*
- Modify WLAN: Reduce 2.4G max TX power from 25dBm to 23dBm /per chain. *(since ARHB_v1.23_20220928_Daily)*

Bug Fix:
- Fix Mobile API: HBA-92: CPU, Flash and Memory are not unified between Mobile App and WebGUI. *(since ARHB_v1.23_20220716_Daily)*
- Optimize Mobile API: HBA-101: Instability in the session openned by the mobile Application. *(since ARHB_v1.23_20220716_Daily)*
- Fix Mobile API: HBA-104: Set the max length of customized name same as web GUI. *(since ARHB_v1.23_20220803_Daily)*
- Fix the WAN connection stuck after enable/disable Media Prioritization several times on MOBILE APP issue. *(since ARHB_v1.23_20220803_Daily)*
- Fix Mobile API: HBA-108: Speed test using the mobile application does not complete. *(since ARHB_v1.23_20220909_Daily)*
- Fix WLAN: the Tx power adjustment not take effect after reboot. *(since ARHB_v1.23_20221018_Daily)*
- Fix TR069: fail to change 2.4G TX power to 70% thru ACS issue. *(since ARHB_v1.23_20221018_Daily)*

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.4
  Package: agent_3.3.4_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20221018_Daily

Date: 2022-10-18

Feature Added / Modification / Improvement:

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Bug Fix:

• Fix WLAN: the Tx power adjustment not take effect after reboot.

• Fix TR069: fail to change 2.4G TX power to 70% thru ACS issue.

• Remove the non-used API "*Services.Diagnostics.NetworkSpeed.Tests.running*" (which was added since ARHB_v1.23_20220716_Daily firmware but NOT used by MOBILE APP).

    • ~~Add Mobile API for HBA-100: Speed Test should be faster.~~

Known Bugs & Limitation:

• Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

• Assia CloudCheck Agent: 3.3.4
  Package: agent_3.3.4_etisalat_arcadyan_homebox_bcm_ccvendor.tgz

• VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220928_Daily
Date: 2022-09-28

Feature Added / Modification / Improvement:
- Modify LOG: enable more WLAN driver logs for tracing Wi-Fi issues.
- Modify WLAN: Reduce 2.4G max TX power from 25dBm to 23dBm /per chain.

Bug Fix:
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Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.4
  Package: agent_3.3.4_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220909_Daily
Date: 2022-09-13

Feature Added / Modification / Improvement:
- Add Mobile API: HBA-107: FWshould support the failover scenario.

Bug Fix:
- Fix Mobile API: HBA-108: Speed test using the mobile application does not complete.

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.4
  Package: agent_3.3.4_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220803_Daily
Date: 2022-08-03

Feature Added / Modification / Improvement:

- Upgrade Assia CloudCheck Agent to 3.3.4.
- Modify Mobile API: HBA-100: Reduce the testing time (about 15 seconds) as Speedtest APP.
- Modify WLAN: ETI-86: Add "wl down" before reboot the DUT or restart Wi-Fi.

Bug Fix:

- Fix Mobile API: HBA-104: Set the max length of customized name same as web GUI.
- Fix the WAN connection stuck after enable/disable Media Prioritization several times on MOBILE APP issue.

Known Bugs & Limitation:

- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

- Assia CloudCheck Agent: 3.3.4
  Package: agent_3.3.4_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220716_Daily
Date: 2022-07-16

Feature Added / Modification / Improvement:
- Add Mobile API for HBA-104: Rename empty devices name.
- Add Mobile API for HBA-100: Speed Test should be faster.

Bug Fix:
- Fix Mobile API: HBA-92: CPU, Flash and Memory are not unified between Mobile App and WebGUI.
- Optimize Mobile API: HBA-101: Instability in the session openned by the mobile Application.
  (Note: May still have issue sometimes. Will continue debugging.)

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220614_Daily
Date: 2022-06-14

Feature Added / Modification / Improvement:
- Modify: Enable BCMDBG but disable ssh on formal ARHB_v1.23 for debugging only.
  Need to enable SSH through TR69 manually if needed.

Bug Fix:
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Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23_20220613_Daily

Date: 2022-06-13

Feature Added / Modification / Improvement:

- Modify: Enable BCMDBG and ssh on formal ARHB_v1.23 for debugging only.

Bug Fix:

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Known Bugs & Limitation:

- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.23

Date: 2022-06-09

Feature Added / Modification / Improvement:

• Modify: Disable SSH when upgrade from other versions (ensure Telnet & SSH to be disabled in the official build). The Daily firmware enables SSH for debugging easily. Upgrade from Daily firmware to ARHB_v1.23, the SSH will be disabled. Need to enable SSH through TR69 manually if needed.

Bug Fix:

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Known Bugs & Limitation:

• Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

• Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz

• VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.22_20220607_Daily
Date: 2022-06-07

Feature Added / Modification / Improvement:
- Add TR69: new TR69 objects for EN / DISABLE Assia & VNS agent:
  For Assia agent: InternetGatewayDevice.ManagementServer.X_000E50_AssiaAgentEnable
  For VNS agent: InternetGatewayDevice.ManagementServer.X_000E50_VNSAgentEnable

Bug Fix:
- Fix: ETI-92: Some VPNs are not connecting behind Arcadyan Gateway.

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.22_20220531_Daily
Date: 2022-05-31

Feature Added / Modification / Improvement:
- Modify LOG: Improve the SYS LOGS & WIRELESS LOGS to identify major issues – WIFI disconnection, 2.4G WLAN disappear, Wi-Fi clients unable to connect, Internet disconnection, etc. - Disable BCMDBG and enable WL_ERROR and WL_ASSOC for connection issue.
- Modify GUI: Adding QR codes to the GUI Login page.

Bug Fix:
- Fix TR069: ETI-91 - Gateway not sending "0 BOOTSTRAP" after device RESET.

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.22_20220518_Daily
Date: 2022-05-18

Feature Added / Modification / Improvement:
- Enable BCMDBG for debugging wireless connection issues.

Bug Fix:
- Fix WLAN: ETI-85 Some Legacy Mobile phones (clients) unable to connect to Homebox WIFI.
- Fix WAN: Fixing "DNS Masq" issue.

Known Bugs & Limitation:
- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.22_20220513_Daily
Date: 2022-05-13

Feature Added / Modification / Improvement:

- Enable BCMDBG for debugging wireless connection issues.

Bug Fix:

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Known Bugs & Limitation:

- Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.22

Date: 2022-04-24

This FW is the same as ARHB_v1.21_20220421_Daily FW.

Feature Added / Modification / Improvement:

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Bug Fix:

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Known Bugs & Limitation:

• Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:

• Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz

• VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21_20220421_Daily
Date: 2022-04-21

Feature Added / Modification / Improvement:
• Add TR069: Additional Parameters in TR069 INFORM message for Daily Report Generation.

Bug Fix:
• Fix GUI syslog empty bug in ARHB_v1.21_20220406_Daily FW.
• Fix VLAN Priority - VOICE Intf priority value not change issue in ARHB_v1.21_20220406_Daily FW.
• Fix CCAPI: ETISCC-312: [Arcadyan Homebox] - WebUI of the CPE shows wrong security&encryption of the device.
• Fix WAN: fix IPv6 not work issue.

Known Bugs & Limitation:
• Mobile API: HBA-96: data usage is always 0 (devices connected to LAN).

Agent version information:
• Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
• VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21_20220406_Daily
Date: 2022-04-06

Feature Added / Modification / Improvement:

- Modify: SYSTEM LOGS – SYS Logs to be stored in the Homebox and Mesh AP (Flash memory), logs to be stored even after device is rebooted.
- Modify: MESH ROAMING – Roaming behavior on 2.4G to be optimized further, please investigate the 2.4G roaming behavior on multiple clients in the lab.
- Modify: Add roaming logs to SYSTEM LOGS.

Bug Fix:

- Fix Mobile API: HBA-83: Parental Control is not managed properly.
- Fix GUI: LAN STATUS – Device GUI must update all the LAN devices.

Known Bugs & Limitation:

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Agent version information:

- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21_20220331_Daily
Date: 2022-03-31

Feature Added / Modification / Improvement:
- Modify: Default ACS URL – When the Gateway config is changed from (PNP-ROUTER / Triple play Gateway) to Standalone Router, the Gateway continues to use the Option43 ACS URL obtained from Network which is incorrect; when User switches to STANDALONE ROUTER mode, the Gateway must erase the existing ACS URL and always use the DEFAULT ACS URL. When switched to PNP / 3P mode, it must use Option43 for the ACS URL.
- Add: WIFI BUTTON LOGS – Wei to add a String value in the Vendor-Specific object "BUTTON DISABLE / GUI DISABLE" along with ACTIVE NOTIFICATION
- Modify: VLAN Priority – Priority values to be changed without FACTORY DEFAULT, however default VLAN IDs will change only after FACTORY DEFAULT (same as current behavior).
- Add: MESH DISC PAGE – Under MESH DISC page, please provide an "UPGRADE" button to open the Mesh AP FW upgrade page directly; when user clicks the UPGRADE button, the mesh upgrade URL (http://192.168.1.x/firmware_upgrade_single.htm) must open in separate tab. In case of Multiple Mesh AP upgrade, user can simply upgrade all Mesh devices from Homebox GUI without logging to the Mesh AP.

Bug Fix:
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Known Bugs & Limitation:
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Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: **ARHB_v1.21_20220311_Daily**

Date: **2022-03-11**

Feature Added / Modification / Improvement:

- Modify: Optimized tr69 for faster connectivity to ACS upon receiving MGMT IP address.
- Modify: Optimized the settings for throughput issue - device fails in objective testing.

Bug Fix:

- Fix SSH: fix issue - the SSH default password is still a weak password "admin" after upgrade to new firmware.
- Fix: after user edited the hostname on web GUI, the hostname in Mobile API and CCAPI is still the unknown name.

Known Bugs & Limitation:

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Agent version information:

- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21_20220304_Daily

Date: 2022-03-04

Feature Added / Modification / Improvement:

- Modify GUI: No option to verify the PPPoE uptime (Add PPPoE uptime on GUI).
- Modify WAN: Faster MGMT vlan toggling between 0 and 1101.
    1、Change dhcp discover time interval.
    2、Change the number of DHCP Discover failures to 2.
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Bug Fix:

- Fix GUI: The host edit name is displaying wrong, we must see the Edit name only when user clicks the "edit" icon.
- Fix GUI: HGW doesn't display any of the 5 GHz connected clients as well as IPv6 LAN clients.
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Known Bugs & Limitation:

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Agent version information:

- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21_20220225_Daily
Date: 2022-02-25

Feature Added / Modification / Improvement:
- Add GUI: Naming of LAN devices on Web GUI (Add edit hostname to GUI "LAN STATUS").
- Add TR069: TR069 Log event for WiFi disabled from Button.
- Modify GUI: MAX of 10 DHCP address can be reserved which is very less (Increase it to 30).
- Modify GUI: There is an option on LAN DHCP to assign primary DNS server only. (add secondary dns option).
- Modify GUI: Max 16 devices can be blocked internet in the filter. (Increase it to 64).
- Modify GUI: If the hostname is empty, change LAN Status hostname is device-mac.
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Bug Fix:
- Fix Mobile API: HBA-94: Mesh Client missing info.
- Fix CCAPI: ETISCC-288: [Arcadyan Homebox] RxBytes on WAN Interface does not increase, after it is over Int32 storage capacity.
- Fix TR069: Speed Test Parameters on TR069.
- Fix CCAPI: ETISCC-280: [Arcadyan Homebox] TR key requirements.
- Fix TR069: ACS URL update and 0-Bootstrap forwarded upon connecting to another ONT port. This was reported as missing intermittently.
- Fix Mobile API: HBA-83: Parental Control is not managed properly.
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Known Bugs & Limitation:
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Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.21
Date: 2022-01-28

Feature Added / Modification / Improvement:
- Modify: UPNP Enhancement – Ignore the parameter "NewLeaseDuration" under UPNP to allow the port mapping entry to set unlimited time.

Bug Fix:
- Fix 2.4G roaming bug.

Known Bugs & Limitation:

Agent version information:
- Assia CloudCheck Agent: 3.3.1.0
  Package: agent_3.3.1.0_etisalat_arcadyan_homebox_bcm_ccvendor.tgz
- VNS agent: v0.7
  Package: homebox_agent_release_26_Oct_2021_v0.7.zip

Version: ARHB_v1.20_20220126_Daily
Date: 2022-01-26

Feature Added / Modification / Improvement:
- Add: BCM patches for 5G issue: devices could see the 5Ghz wlan, but cannot connect.
- Modify: "Dup AC Intf" option to be ENABLED by default in the FW to prevent any issues with printers or peripheral devices.

Bug Fix:

Known Bugs & Limitation:

Version: **ARHB_v1.20_20220121_Daily**
Date: **2022-01-21**

Feature Added / Modification / Improvement:
- Modify: To disable cac during bootup, and start the cac 2 minute from bootup.
- Add: BCM patches for 5G issue: devices could see the 5Ghz wlan, but cannot connect.
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Bug Fix:
- Fix ETISCC-286: [Arcadyan HomeBox] CC_DumpCpeConfig should expect path as input.

Known Bugs & Limitation:

Version: ARHB_v1.20_20220112_Daily
Date: 2022-01-12

Feature Added / Modification / Improvement:
- Add TR069: Add enable wifi Dup AC Interface to tr69.
- Modify GUI: Hide GUI admin user Setup Wizard setting AP Mode and 5G WAN.

Bug Fix:
- Fix ETISCC-280: [Arcadyan Homebox] TR key requirements.
- Fix TR069: LanEthernet Interface enable/disable—Failed.
- Fix #13142: 4G dongle not support the SIM card with PIN.

Known Bugs & Limitation:

Version: ARHB_v1.20_20220104_Daily
Date: 2022-01-04

Feature Added / Modification / Improvement:
- Modify GUI: Add WPA3-Personal and WPA3/WPA2-MIX show.

Bug Fix:
- Fix known issue found in 1216-Daily FW: Change Internet Connection from PPPoE to DHCP mode in triple gateway mode. HomeBox cannot get IPv6 address and it does not send dhcpv6 solicit to request IP.
- Fix TR069: Enable/disable 2.4ghz or 5ghz WLAN individually is not functional –Failed.
- Fix TR069: Enable/disable 2.4ghz or 5ghz WLAN together is not functional-Not reflected in GUI and LED as well–Failed.
- Fix TR069: Download Config file – Failed.
- Fix 4G dongle and failover not work issue.

Known Bugs & Limitation:

Version: ARHB_v1.20_20211216_Daily
Date: 2021-12-16

Feature Added / Modification / Improvement:
- Add the "Dup AC Interface" function back for issue: Lenovo/Dell laptop was not detecting the WIFI signal from both bands.
- Create a WAN mode under SETUP Wizard as "AP MODE / HOMEZONE".
- Create a WAN mode under SETUP Wizard as "5G WAN".
- Update the Assia CloudCheck Agent: 3.3.1.0.
- Optimize the 2.4G as BCM's suggestions for issue: sometimes the Printer gets offline.
- Delete the WAN edit settings on the MGMT INTF for admin user.

Bug Fix:
- Fix GUI: Wrong CPU usage values on GUI & Unusual temp values on Assia
- Fix WAN: Call of duty (WarFare)PS5 game is not working , is working on another router
- Fix WAN: IPv6 LAN prefix is lost when WAN cable is removed and reconnected
- Fix GUI: MAC Filter doesn't work properly.
- Fix ETISCC-166: [Arcadyan Homebox] Behaviour of CC_GetWanInfo and CC_GetWanInterfaceLinkInfo (netDevice and phyName fields in CC_WanInfo_t and CC_WanLinkInfo_t structs)
- Fix ETISCC-254: [Arcadyan Homebox] CC_LoadCpeFirmware does not reboot after firmware is flashed successfully
- Fix ETISCC-162: [Arcadyan Homebox] CC_LoadCpeConfig Returns CC_Status_Error then Reboots Device
- Fix ETISCC-190: [Arcadyan Homebox] - CC_SetTxPower does not accept dBm input.
- Fix ETISCC-194: [Arcadyan Homebox] - Could not change Wi-Fi Tx power
- Fix ETISCC-274: [Arcadyan Homebox] Incomplete modelName field in CC_GetCpeInfo

Known Bugs & Limitation:
- Change Internet Connection from PPPoE to DHCP mode in triple gateway mode. HomeBox cannot get IPv6 address and it does not send dhcpv6 solicit to request IP.

Version: ARHB_v1.20
Date: 2021-11-16

Feature Added / Modification / Improvement:
- Last provided VNS agent integration v0.7
- TR069 object for SSH Enable / Disable on Lan network   and WAN Network (Default disabled).
- TR069 object for WEBGUI Enable / Disable over WAN Network (Default disabled).
- Mobile roaming optimization

Bug Fix:
- Fix CCAPI : ETISCC-254: [Arcadyan Homebox] CC_LoadCpeFirmware does not reboot after firmware is flashed successfully
- ETI-63:IPTv6 handling:Fix for slow browsing issues related to IPv6

Known Bugs & Limitation:
- Newly introduced issue: when disconnect and reconnect the WAN cable, the LAN prefix may be empty. And the LAN devices will not get IPv6 address at that moment.
- Because the patch for issue "MAC Filter doesn't work properly, when a device is blacklisted only the web-browsing is blocked, however all other applications can access internet." will newly introduce the issue "ETI-51: Pulse Secure VPN disconnection", need to remove the patch for ETI-51.

Version: ARHB_v1.19
Date: 2021-10-22

Feature Added / Modification / Improvement:
- Modify WLAN: Downgrade the WLAN Driver as ARHB_v1.17.
- Support more CCAPIs.
  Implement CC_GetFilteringMode
- Modify GUI: LED Schedule to be optimized adding next day.
- Modify GUI: OVERVIEW >> SYSTEM LOG
  Optimized the system logs (to include TR069, PPPOE, Wi-Fi change channel, kernel logs)
  Enlarge the Log file size to 10M (when click "Save" button on page "Overview > Log > System Log")
  Optimized Wireless logs (when click "Save" button on page "Overview > Log > Wireless log" will collect the Wi-Fi Configurations and Stats)
- Modify default settings: ETI-59: Default VLAN priorities to be modified as below
  VOIP - 5 / IPTV - 2 / MGMT - 3 / HSI – 0
- Modify default settings: ETI-59: Default VLAN IDs to be modified to: 1101 - MGMT, 1104 - HSI, 1103 - IPTV, 1102 - VOICE
- Modify GUI: ETI-70: Rename the TELEPHONY >> PHONE NUMBER, User ID to "Caller ID" and map the TR69 object (Line.1.CallingFeatures.CallerIDName) to the Caller ID field on GUI.
- Modify default settings: Change the default WPA re-key interval from 3600s to 0s.

Bug Fix:
- Fix TR069: ETI-55: ACS OFFLINE Issue.
- Fix CCAPI: Change the CC_SetFilteringMode return CC_Status_NotSupported when setting guest Wi-Fi.
- Fix CCAPI: ETISCC-219: [Arcadyan Homebox] CC_SetChannel does not allow setting primary channel to 11 or 13.
- Fix VOICE: ETI-69: VOICE Issue - When using 2 FXS lines on VOICE, improper line disconnection observed after making conf call.
- Fix TR069: ETI-57: ACS provisioning of WIFI parameters FAIL – when pushed 2.4G SSID or PWD from TR69, it changes the operation mode to "b/g/n"
- Fix: ETI-51: Pulse Secure VPN disconnection
- Fix syslog time error issue.
- Fix Mobile API: HBA-73: Concurrent login for admin user

Known Bugs & Limitation:
- Because the WLAN Driver was downgraded as ARHB_v1.17, need to remove the "Dup AC Interface" patch for issue "Lenovo/Dell laptop was not detecting the WIFI signal from both bands".
  - Issue "Lenovo/Dell laptop was not detecting the WIFI signal from both bands" is reopened.
- Because the patch for issue "MAC Filter doesn't work properly, when a device is blacklisted only the web-browsing is blocked, however all other applications can access internet." will newly introduce the issue "ETI-51: Pulse Secure VPN disconnection", need to remove the patch for ETI-51.
  - Issue "MAC Filter doesn't work properly, when a device is blacklisted only the web-browsing is blocked,

however all other applications can access internet" is reopened.

Version: ARHB_v1.18
Date: 2021-09-17

Feature Added / Modification / Improvement:
- Modify TR069: Change the TR069 Connection Request Port to defined ACS port range 30000-40000.
- Modify WLAN: Upgrade the WLAN Driver.
- Support more CCAPIs.
  Implement CC_CommitTrKeys
  Implement CC_SetTrValue
- Modify GUI: Remove Vianeous GUI page from the Gateway.
- Modify GUI: Add the same status column from "WAN SETTING" to be included under "WAN STATUS" page.
- Modify GUI: PPPoE ACName shall be displayed on GUI "ROUTER INFO" page and mapped to corresponding TR069 parameter. This value must be extracted from the PPPOED packet received from Network.
  InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.PPPoEACName
- Modify: PPP Session Termination behavior.
- Modify GUI: "URL Filtering" menu is required, whereby customer will input any URL.
- Modify WLAN: Lenovo/Dell laptop was not detecting the WIFI signal from both bands.
- Modify Mobile API: Upgrade the Vianeos Cloud Agent to v0.6.
- Modify GUI: Under "WAN STATUS", display the Connected WAN Interface Speed (2.5Gbps, 1Gbps, 100Mbps or Not connected).
- Modify GUI: Add URI on Voice page and setup wizard page.
- Update CloudCheck binary:
  CloudCheck binary version: 3.3-202109161044
- Modify GUI: modify the GUI menu "MAC Filter" to "Parental Control".

Bug Fix:
- Fix GUI: Fix sometimes the Mesh Topology page is empty issue.
- Fix GUI: When the "ETISALAT LOGO" is clicked on Top Left corner, the GUI briefly shows the login page and then STATUS page is displayed.
- Fix GUI: Cache optimization, gateway shall not store any browser cache.
- Fix LED: LED behaviour is incorrect for both R0A and 01 version hardware.
- Fix Mobile API: HBA-50: ECO MODE.
- Fix Security: CVE-2020-24586, CVE-2020-24587, CVE-2020-24588 vulnerability.
- Fix WLAN: Fix the roaming issue.
- Fix 4G dongle: Low throughout is observed over Dlink 4G dongle (Model: DWM222).
- Fix TR069: TR69 objects related to LAN Ethernet and WAN Ethernet parameters are not appearing.
- Fix GUI: Device CPU usage is showing more than 90% sometimes and triggering false alarm on Assia interface.
- Fix CCAPI: ETISCC-190 [Arcadyan Homebox] - CC_SetTxPower does not accept dBm input.

Version: ARHB_v1.17a
Date: 2021-08-31

Feature Added / Modification / Improvement:
- Modify: optimize the WAN service to avoid sometimes Home Box cannot obtain WAN IP issue.
- Add BLE/ZigBee: add a service ATT within ble to let user setting wifi ssid and password.
- Support more CCAPIs.
  Implement CC_RestartService
  Implement CC_RestartWan
  Implement CC_GetLastAcsResponse
  Implement CC_ReportCallEnded
  Implement CC_DumpCpeConfig
  Implement CC_LoadCpeConfig
- Modify Mobile API: Upgrade the Vianeos Cloud Agent to v0.5.
- Modify: Support up to 12 Mesh APs (1 Home Box and max 12 Mesh AP).
- Add: Enable BCM watchdog for the hang issue.
- Add BLE/ZigBee: support dynamic multiprotocol bluetooth ZigBee (DMP).
- Add TR069: add TR069 parameters for Vianeos Cloud Agent.
- Add BLE/ZigBee: add a command 'dmp_reset' to reset ZigBee/BLE chip.
- Add GUI: add PPTP and L2TP support.

Bug Fix:
- Fix Mobile API: HBA-57: speed test history.
- Fix TR069: Fix tr69 set pppoe vlan enable bug.
- Fix Mobile API: Fix Vianeos Cloud Agent did not receiving notification.
- Fix Security: 1. MULTIPLE OPEN PORT FOUND
- Fix Security: 4. POSSIBLE REMOTE CODE EXECUTION
- Fix Security: 6. HTTP SECURITY HEADER MISSING
- Fix Security: 7. SERVER VERSION INFORMATION DISCLOSURE
- Fix Security: 8. MISSING ACCOUNT LOCKOUT POLICY
- Fix Security: CVE-2021-20090, CVE-2021-20091 vulnerability.
- Fix VOICE: Fix crash at receive BYE after INVITE. without 200 OK
- Fix CCAPI: ETISCC-166: [Arcadyan Homebox] Behaviour of CC_GetWanInfo and CC_GetWanInterfaceLinkInfo (netDevice and phyName fields in CC_WanInfo_t and CC_WanLinkInfo_t structs).
- Fix GUI: WIRELESS MAC FILTER – Under WIRELESS MAC FILTER menu, please change the MAC FILTER MODE values to "BLACKLIST" / "WHITELIST" instead of Accept / Reject.
- Fix TR069: Router is getting unreachable from ACS but physically the device is online and working.
- Fix GUI: SSID is not accepting spaces in the name.

Version: ARHB_v1.17
Date: 2021-07-08

Feature Added / Modification / Improvement:
- Support more mobile APIs (Please check API document on Teams).
  Notification   RAMSaturated
- Support more CCAPIs.
  Implement CC_GetWanInterfaceLinkInfo
- Update CloudCheck binary:
  CloudCheck binary version: 3.2.0
  CloudCheck api testing tool version: 3.2.0
  ccapi.h version: 1.29.0
- Modify Mobile API: Upgrade the Vianeos Cloud Agent to v0.3.
- Modify Mobile API: HBA-53: Change Login username API
- Modify Mobile API: HBA-36: Need new parameter "Status":"Complete|OnGoing" in get WiFi analyser test with Id
- Modify Mobile API: HBA-33: Need total flash and total RAM in the get Resources
- Modify Mobile API: HBA-48: Need get DNS lookup test with Id response to be as array
- Modify Mobile API: HBA-22: Change WPS pin parameter as string and not as integer in wifi manager.
- Modify Mobile API: HBA-56: new API to get channels and channels width
- Modify Mobile API: HBA-52: Add Logout API
- Modify TR069: Add get and set username and password to tr69.
- Modify the VLAN IDs: 30 ==> 1102, 40 ==> 1103, 20 ==> 1104 (need reset device to default)

Bug Fix:
- Fix CCAPI: ETISCC-86: [Arcadyan Homebox]CC_GetWanDnsServersCount always returns count = 0.
- Fix CCAPI: ETISCC-126 [Arcadtan Homebox] CC_LoadCpeFirmware does not return CC_Status_Error when given file is not a valid firmware image.
- Fix Mobile API: The Boxes are not connected to vianeos severs issue.
- Fix Mobile API: the Vianeos Cloud Agent will get connection refused with Mobile API.
- Fix Mobile API: HBA-42: Wrong management of changing Password.
- Fix Mobile API: HBA-11: change MaxClients in wifi not working
- Fix Mobile API: HBA-32: agent in devices list.
- Fix Mobile API: HBA-27: Get media error
- Fix Mobile API: HBA-8: List all media priorities.
- Fix Mobile API: HBA-54: Get download/upload with id return upload "0"
- Fix Mobile API: HBA-46: disconnection history empty
- Fix H043: UPNP Bug - Some UPNP device like PS4 were receiving IP address from the Mgmt interface.
- Fix H123: Firmware version format of the devices to be changed to ARHB_v1.00017 (Format: ARHB_vx.yyyy)
- Fix H124: ICMP must be disabled on the WAN-PPP Interface, currently any user is able to ping to PPP IP address.
- Fix H131: ADMIN >> REBOOT: Reboot page to be removed and brought under BACKUP/RESTORE menu. Under BACKUP/RESTORE menu, "BACKUP CONFIG", "RESTORE CONFIG", "REBOOT ROUTER" and "RESTORE TO FACTORY"

must be shown as single page.

- Fix H125: SPEEDTEST menu page to be moved to Superuser, for admin user this page must be hidden.
- Fix H127: "CURRENT TIME" must be displayed within OVERVIEW >> ROUTER INFO page Also, under ADMIN >> TIME SETTINGS page, display the "CURRENT TIME" and "NTP SYNC STATUS" (Yes / No).
- Fix H132: BOOTUP LED pattern has been changed, during BOOTUP RED LED blinks, which must be removed, please follow the same LED BOOTUP as of 01.16.
- Fix H128: Display the "Current Firmware version" within the ADMIN >> FIRMWARE UPGRADE page.
- Fix H137: USB modem detection must be optimized.
- Fix H073: WIFI SPEEDTEST results must be optimized for both 2.4Ghz and 5Ghz
- Fix H126: PNP 2.0 Toggling bug
- Fix H135: NETWORK >> NAT >> UPNP Show one more column WAN Intf (PPP/IPTV/VOICE/MGMT), to show which interface the UPNP device is routed
- Fix H136: UPNP settings and list of UPNP devices must be available on TR69
- Fix H129: OVERVIEW >> WAN STATUS ETI requests to add one more column "STATUS" at the end (after DNS) to show whether its UP / DOWN, it can be shown as TICK mark & X sysmbol as well, just to provide a easy reference for Endusers
- Fix H112: Sometimes the WIFI throughput drops to >100Mbps, when connected on 1G account
- Fix Changing the WMM support status makes the wifi unconnectable.
- Fix internet led: when usb dongle is working, internet led should be on.
- Fix GUI: Add wifi and ether connect count on Status page.
- Fix VOICE: fix crash at internal call.
- Fix VOICE: Modify uri parameter of TR104.
- Fix GUI: in the SETUP wizard, please modify the word "Homebox" to "eLife Connect".

Version: **0.01.16_20210611_Daily**

Date: **2021-06-11**

Feature Added / Modification / Improvement:

- Support 3 more mobile APIs (Please check API document on Teams).

  Delete Firewall history

  Get history of disconnection

  Delete history of disconnection

- Support more CCAPIs.

  Add CC_SetBeaconInterval.

  Add CC_SetBeaconInterval.

  Add CC_LoadCpeFirmware.

- Modify Mobile API: Change 2.4G wifi channel in wireless Analyzer test.

- Modify Mobile API: Add Time and complete in mobile APIs speed test Response.

- Modify Mobile API: Change Traceroute test Response in mobile API.

- Modify Mobile API: Add LastOfflineTime and Uptime parameters on upload/download usage object.

- Modify Mobile API: Change Diagnostics manager speed test response in mobile APIs.

- Modify Mobile API: Change NSLookup_Tests response in Diagnostics manager.

- Modify Wi-Fi: Enable Turbo-QAM/Nitro-QAM on 2.4G.

- Update CloudCheck binary:

  CloudCheck binary version: 3.2-202105260152

  CloudCheck api testing tool version: 3.2-202105260152

Bug Fix:

- Fix ET040: All WAN interfaces going down during PPPOE parameters modification / VLAN change / Mgmt IP address gets changed.

- Fix Wi-Fi: Fix the failed case of 4.45.1_24G for Wi-Fi6 logo.

- Fix CCAPI: ETISCC-79: [Arcadyan Homebox] CC_GetWanInfo reports MGMT interface's traffic type as CC_WanTraffic_Reserved.

- Fix CCAPI: ETISCC-77: [Arcadyan Homebox] CCAPI functions returns success for non-existing interface.

- Fix CCAPI: ETISCC-55: [Arcadyan Homebox] Calling CC_AddDnsServer causes Segmentation Fault.

- Fix the many web sites cannot be accessed issue in STANDALONE mode.

- Fix the RED Internet led when enable/disable MGNT and internet is ok.

- Fix Mobile API: Fix Diagnostics manager NSLookupTests data empty and test error issue.

Version: 0.01.16_20210526_Daily

Date: 2021-05-26

Feature Added / Modification / Improvement:

- Support 4 more mobile APIs (Please check API document on Teams).

  Notification new firmware update

  List Firewall history

  Notification AgentConnected

  Notification AgentDisconnected

- Support more CCAPIs.

  Add ATF relative APIs.

  Implement the AirTime Percentage function.

  Add tr69 APIs.

  Add ARC_TR69_InformDate and ARC_TR69_InformStatus save Inform message in tr69.

  Add WAN_DNS APIs.

  Add VoIP relative APIs.

- Modify TR069: Add new firmware update in Notification manager.

- Modify TR069: Add InternetGatewayDevice.NSLookupDiagnostics.Result.1.DNSServerIP array memory space.

- Update CloudCheck binary:

  CloudCheck binary version: 3.2-202105070530.

  CloudCheck api testing tool version: 3.2-202105070530.

Bug Fix:

- Fix that enable PNP 2.0 would cause all interface restart

- Fix TR069: Fix tr69 not send BOOT Inform when switch MGMT or PPPOE.

- Fix TR069: Fix tr69 send value change Inform after removing Ethernet Cable.

- Fix TR069: Fix tr69 switch MGMT or PPPOE bug.

- Fix TR069: Delete tr69 error log.

- Fix TR069: Change StationMax to StationMac in "InternetGatewayDevice.X_000E50_MultiAP." node.

Known Bugs & Limitation:

- ET040: All WAN interfaces going down during PPPOE parameters modification / VLAN change / Mgmt IP address gets changed.

Version: 0.01.16_20210512_Daily

Date: 2021-05-12

Feature Added / Modification / Improvement:

- Support 15 more mobile APIs (Please check API document on Teams).

  Get current total upload/download usage

  Reset upload/download usage

  Set dns server manually/automatically

  Set primary/secondary dns servers

  Get firmware version

  Set PPPOE account

  Queue traceRoute test

  Get traceRoute test with Id

  Delete traceRoute test with Id

  Queue WiFi analyser test

  Get WiFi analyser test with Id

  Delete WiFi analyser test

  Notification AgentConnected

  Notification AgentDisconnected

  Notification High data usage

- Modify TR069: Add enable freeze TR69 url to TR69.
- Modify TR069: Add InternetGatewayDevice.DeviceInfo.ModelName in TR69 inform.
- Modify TR069: Add Periodic Reboot schedule to TR69.
- Modify TR069: Add enabling the superuser to TR69.
- Add CloudCheck binary:

  CloudCheck binary version: 3.2-202104260240.

  CloudCheck api testing tool version: 3.2-202104260240.

Bug Fix:

- Fix GUI: The wireless mode works abnormally.
- Fix VOICE: enhance for the performance issue when testing by Abacus (Point #2).
- Fix GUI: Remove the setting of "bouncing" on GUI of band steering.
- Fix TR069: When switch ONT (when ACS URL is changing), the TR69 send 0 Bootstrap Inform.

Known Bugs & Limitation:

- ET040: All WAN interfaces going down during PPPOE parameters modification / VLAN change / Mgmt IP address gets changed.

Version: 0.01.16
Date: 2021-04-22

Feature Added / Modification / Improvement:
- Modify TR069: Adjust tr104 parameters for SIP provision.
- Modify TR069: Disable InternetGatewayDevice.DeviceConfig.ConfigFile.
- Add: Included recent WIFI drivers from BCM.

Bug Fix:
- Fix TR069: ACS URL update fix thru DHCP option 43.
- Fix GUI: cannot modify password in setup wizard page (always pop-up incorrect password).
- Fix GUI: Guest SSID on status page is incorrect.

Known Bugs & Limitation:
- ET040: All WAN interfaces going down during PPPOE parameters modification / VLAN change / Mgmt IP address gets changed.

Version: 0.01.15
Date: 2021-04-19

Feature Added / Modification / Improvement:
- Add speedtest in tr69.
- Modify H015: When Login pwd was entered incorrectly for 5times, the waiting time is SET as 3600secs, which is too long. Keep this wait time as 300secs for 5th Incorrect login, and on 10th incorrect pwd, keep it as 3600secs.
- Modify ET003: ACS Communication: if the Mgmt IP address was disabled or Mgmt interface went down due to DHCP failure, as a backup the device must reach the ACS Server thru PPPOE interface and send BOOT INFORM (If PPP has a valid IP address). The idea is the CPE must be able to reach ACS at all times.
- Add H040: Last Reboot cause must be reported to ACS. Add below nodes to reported to TR69: InternetGatewayDevice.DeviceInfo.X_000E50_RebootCause
- Modify Mesh: The login password is not synced to agent as request.
- Modify H092: Rename "Network Status" to "WAN Status", and Add WAN dongle, and move LAN and WiFi status to "LAN Status".
- Modify H093: Rename "Connection Status" to "LAN Status".
- Modify LED: Status led pink blink when Tr69 FW upgrade.
- Modify TR069: Delete X_000E50_MultiAPOfEntries in tr69 MultiAP. Add APDeviceNumberOfEntries in tr69 MultiAP.
- Add ET045: Super User to be created.
- Modify ET046: Remove some page for normal GUI account.
- Modify ET050: OVERVIEW >> ROUTER INFO: CRU details to be removed.
- Modify ET035: WIFI >> WLAN 2.4Ghz & 5Ghz: Device must display the CURRENT WIFI CHANNEL within the WIFI menu (Auto doesn't shows channel).
- Modify ET052: Delayed RESET / WIFI Button Action.
- Modify ET053: PPP dialing with "BLANK" Username & Pwd to be optimized.
- Modify ET054: FIRMWARE UPGRADE page not found on admin user.
- Modify ET049: TELNET/SSH to be disabled.

Bug Fix:
- Fix ET010: ACS Firmware upgrade FAILS, device is not reaching the Fileserver (Public IP) thru PPP interface.
- Fix ET015: Download the device CONFIG file to ACS server & pushing the CONFIG file from ACS must be available.
- Fix ET011: Active & Passive notifications failed.
- Fix ET034: IPV6 is not obtained on WAN PPP intf behind ALU and Zhone ONTs, sometimes it takes long time to get the IPV6. Ideally, IPV6 must be dialed immediately following a successful PPP connection.
- Fix ET047: VOICE Provisioning - SIP Registration not sent.
- Fix ET048: VOICE Provisioning - SIP Server updation on FXS1 and 2.
- Fix TR069: When BANDSTEERING is enabled, it should go back to Common SSID.

Known Bugs & Limitation:
- ET040: All WAN interfaces going down during PPPOE parameters modification / VLAN change / Mgmt IP address

gets changed.

Version: 0.01.14
Date: 2021-04-02

Feature Added / Modification / Improvement:

• Support Easy Mesh R2.

• Support 6 more mobile APIs (Please check API document on Teams).

  Set max connected devices of WiFi manager

  Add new timer for WanGroup.Timers of Schedule manager

  Enable/Disable WiFi ECO mode

  Queue/Get/Delete DNS lookup test

• Support Assia CCAPI(14+5).

• Support MESH parameters for TR-069.

• Support Device Operating Temp parameters for TR-069:

  InternetGatewayDevice.DeviceInfo.TemperatureStatus.

  InternetGatewayDevice.DeviceInfo.TemperatureStatus.TemperatureSensor.1.Value

• Support BandSteering parameters for TR-069.

• Support TR-069 parameter VoiceService.1.VoiceProfile.1.Reset.

• Support WPA3 WiFi Authentication Method configuration for TR-069.

• Support timebased LED ON / OFF (switch ON all LEDs based on scheduled time of day) from GUI.

• Change B(Status) and Internet LED as Technicolor behavior.

• Change B(Status) LED blink pink when doing firmware upgrade.

• Create a Menu to show the TR69 parameters.

• Change WiFi GUI tabs as request.

Bug Fix:

• Mobile API bug fix:

  - Support edit "Enabled" attribute in URL block

----Etisalat lab bug fix----

• Fix WIFI LED and WPS LED color is different (GREEN), use similar "Yellow green".

• Fix Fix default SIP port number not 5060 in Telephony > Phone Number page.

• Fix bug:17.30 All IP phones on GUI to be removed, only keep Phone1 and Phone2.

• Fix bug:17.31 Keep only 2 Phone configuration and delete all other FXS.

• Fix DUT shall contact and send inform to the ACS through PPP interface when MGMT interface goes down.

• Fix TR-069 test failed item: Active Notification not work.

• Fix TR-069 test failed item: Value change after removing Ethernet Cable.

• Fix TR-069 test failed item: SelfTestDiagnostics.

• Fix TR-069 test failed item: NSLookupDiagnostics.

• Fix TR-069 test failed item: TraceRouteDiagnostics

• Fix H017 TR-069 can not reconnect to ACS when set MGMT interface is disabled & enabled.

• Fix GUI bug: when ETISALAT Logo is clicked it must divert to Router Homepage.

• Fix GUI bug: "Display Name" and "Listen VC" fields to be removed in setup_wizard.

• Fix GUI bug: AIRTIME FAIRNESS to be ENABLED by default.

• Fix GUI bug: remove the fields "A-MPDU" and "A-MSDU" from the GUI.

• Fix GUI bug: Default steering values to be modified to -70dBm and -80dBm

• Fix GUI bug: Remove the fields "HOTLINE NO", "HOTLINE TIMEOUT", "DIAL PLAN" and "GAIN", these fields were not required to be shown.

• Fix H094 GUI: Merge system status page to router information and show ACS URL.

• Fix H096 GUI: "UPNP tab must be moved within NAT menu, which will include below menus.

• Fix H105 GUI: "When BANDSTEERING is enabled, it should go back to Common SSID.

• Fix H106 GUI: GUEST WIFI Pwd must be randomly generated.

• Fix H108 GUI: AIRTIME FAIRNESS to be ENABLED by default.

• Fix H99,H101,H102,H103 GUI bugs.

• Fix wrong Phone LED between 1 and 2

• Fix Speedtest running error in the background when internet is not ready.

Known Bugs & Limitation:

• The connected devices can not show clients connected to Guest WiFi.

Version: **0.01.13**
Date: **2021-03-05**

Feature Added / Modification / Improvement:
• Made Arcadyan web GUI as default webGUI:

192.168.1.1 to open Arcadyan web GUI.

192.168.1.1/eng to open Vianeos web GUI.
• Made QoS(Media manager) mobile APIs background function works. (Please check API document on Gdrive).
• Support 3⁄4G dongle (D-Link DWM 157⁄222).
• Support ACS Communication: when the device is working over 4G dongle without Mgmt interface, as a backup the device must reach the ACS Server thru 4G WAN interface and send BOOT INFORM.
• Support group WPS function for Mesh Network.

Bug Fix:
----Etisalat lab bug fix----
• Fix PNP 2.0 Bug.
• Fix UPNP port mapping not working.
• Fix default SIP port number not 5060.
• Fix default VLAN values must be SET as HSI 30, IPTV 40, VOICE 20 and PPP username Pwd must be blank as default (Currently Etisalat is the default PPPname).
• Fix Device Product Class inside the WAN interfaces must be changed (Option 125).
• Fix FXS1 & FXS2 config should be ONE to ONE - Modify the default Phone behaviour if only 1 account is configured, only FXS1 should ring.
• Fix device must send BOOT INFORM reach the ACS Server when switch tr69 mode.
• Fix ACS Connection Request URL must be randomly generated characters.
• Fix RESET button must be triggered only when customer holds for 8secs.
• Fix WIFI button must be triggered only after 8secs.
• Fix GUI Corrections: Under NETWORK, make SETUP WIZARD as 1st menu, WAN as 2nd menu, LAN as 3rd menu.
• Fix GUI Corrections: modify the "ETHER-WAN" to "LAN 2.5GE". Also please display the connection speed of the connected ports just under the LAN naming (For eg: LAN 2 / 100Mbps, LAN 4 / 1Gbps, LAN 2.5GE / 1Gbps).
• Fix When LAN DHCP server IP settings were changed, the DNS server was fixed at 192.168.1.1, DNS server must be changed to 192.168.x.1 automatically.
• Fix need to modify the GUI text as "REGISTRAR" and "Outbound Proxy" (no need to keep 2 names)
• Fix WPS LED blinking behaviour: 1st min - Slow blinking, 2nd min - Fast blinking.
• Fix Homebox LED behaviour need to be changed

B LED must be "yellow green" - blinking

B LED must be SOLID - Dark GREEN

B LED must be SOLID Amber for 30secs during bootup

B LED must be SOLID "Yellow Green" after 30secs, once BOOT is complete

B LED must blink AMBER, during Firmware upgrade and when triggered FACTORY RESET (Fast blinking)
• Fix WAN Intf IP of Mgmt, IPTV and VOICE must be pingable from WAN side (ICMP enable on WAN side), ICMP must

be disabled only on PPPOE considering security.

• Fix LED control must be available on GUI, All LEDs must turn - ON / OFF from GUI.

• Fix Wifi password shall be reported in clear text on TR069 data model object.

• Fix Device Hostnames on MESH TOPOLOGY displays many UNKNOWN devices.

• Fix Roaming from Homebox and Mesh AP is not quick compared to other devices.

• Fix Mesh AP connection status show No connect on topology when Mesh AP ethernet connect ET GW.

Known Bugs & Limitation:

• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.11
Date: 2021-02-08

Feature Added / Modification / Improvement:
• Support 25 more mobile APIs (Please check API document on Gdrive).

• Add Vianeos cloud agent.

• Add QoS support for the mobile APP API.

• Upgraded openssl-1.0.1t to openssl-1.1.1g.

• Support NodeJS 8.

• Support FCC(Fast Channel Change) ALG.

• Support switching FCC/CE, High/Normal Power via Arcadyan GUI.

• Set default Wi-Fi settings to CE/High Power as request.

• Set default WiFi SSID to ETIxxxxxx-2.4G/ETIxxxxxx-5G.

• Disable BandSteering by default.

Bug Fix:
• Mobile API bug fix:

    - Fix WAN manager API DHCP is offine;

    - Fix "Add PortForwarding" API.

    - Add "Delete PortForwarding" API.

    - "PortForwarding" support IPv6;

• Etisalat lab bug fix:

    - Fix device is not sending any BOOT INFORM to ACS when set to STANDALONE mode;

    - Fix device must reach the ACS Server thru PPPOE interface when MGMT interface DHCP fail in TRIPLEPLAY

    and PNP router mode;

    - Fix the default values for ADMINISTRATION >> REMOTE Mgmt;

    - Modified CONFIG BACKUP(cfg file) filename to "eLIFE_Connect_backup.cfg";

    - Fix device parameters reported to ACS was dummy parameters, actual hardware and software versions to

    be reported to ACS;

    - Change TR-069 parameters

      InternetGatewayDevice.DeviceInfo.ProductClass : ETISALAT-WRV9518BHAX34-ET

      InternetGatewayDevice.DeviceInfo.ModelName : ETISALAT-WRV9518BHAX34-ET

    - Fix default DHCP LAN IP settings

      IP range: 192.168.1.50 to 192.168.1.250

      Domain name: "etisalat-gateway"

      Default DNS server IP address: 192.168.1.1

    - Fix IPv6 address for WAN PPPOE interface is not available, it must be displayed on GUI status;

    - Changed the gateway image at Mesh Discs to Actual HOMEBOX image and Mesh AP as per actual image;

    - Fix even after MESH pairing to HOMEBOX, the device will show OFFLINE;

    - Removed the MTU, "SERVICE NAME" and "IDLE Disconnect time" fields;

    - Fix VLAN Priority SET on WAN interfaces was wrong, set them to

MGMT – 3

PPPOE – 0 (best effort)

IPTV – 5

VOICE – 7

- Fix STANDALONE ROUTER mode: PPPoE INTERNET interface must be ON, and 802.1q must be disabled. Rest all interfaces must be turned OFF & VLAN IDs to be SET to 0;

- Fix STANDALONE ROUTER Mode is not working properly;

- Changed SIP configuration page as request;

- Fix 2.4Ghz WIFI channels must includes channels from 1 to 13 (currently only 11 channels were listed);

- Fix Sometime, after separating the SSIDs for 2.4Ghz and 5Ghz, 2.4Ghz SSID wasn't visible to connect;

• Fix [JIRA] 20382-1 Hardware Version is invalid.

• Fix [JIRA] 20382-10 [Security]The SSID without encryption when Authentication Method use SSID without encryption when Authentication Method use "WPA-Auto-Personal ".

• Fix [JIRA] 20382-32 The LED without switch to off when wifi schedule is Inactive.

• Fix [JIRA] 20382-38 NAT Loop Back is not working.

• Fix the Mesh functions of "Reboot" and "Reboot ALL" at Mesh Discs do not work.

• Fix the Mesh settings of RE are incorrect if set DUT to some security modes.

• Fix the Mesh 5G bandwidth sync issues.

• Fix the Mesh RE WPS status is different from one of GW.

• Fix the capability information of Ethernet WAN PHY is incorrect.

• Fix the 1G speed capability is not enabled when setting from the manual mode to the auto mode by command line.

Known Bugs & Limitation:

• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.10
Date: 2021-01-22

Feature Added / Modification / Improvement:
• Support 13 more mobile APIs (Please check API document on Gdrive).
• Mobile API modifications:

　Changed Ping Queue API parameter "Id" value as string;

　Changed SpeedTest Queue API parameter "Id" value as string;

　Support SpeedTest Queue API parameter "Address" equal to "", detect speed test server in background
automatically .
• Support/enable PMF for WiFi.
• Updated CE/FCC normal power tables.
• Add extra phone line parameters to Arcadyan web GUI setup wizard page.

Bug Fix:
• Mobile API bug fix:

　Fix Get Internet status API not reply the right status when INTERNET wan is DHCP or Static IP.
• Fix unable to change login password in Arcadyan web GUI setup wizard.
• Fix can not separate SSID configuration for 2.4 & 5GHz WiFi settings(need disable Band Steering first).
• Fix have no option to configure DFS settings and BAND STEERING settings.
• Fix [JIRA] 20382-3 status LED is not behave properly.
• Fix [JIRA] 20382-4 WPS LED is not behave properly during boot up period.
• Fix [JIRA] 20382-6 no default route in Stand Alone router scenario.
• Fix [JIRA] 20382-14 correct VoIP wan for port 5060.

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.09

Date: 2021-01-08

Feature Added / Modification / Improvement:

• Support 13 more mobile APIs (Please check API document on Gdrive).

• Support Vianeos web GUI 0.1:

    <u>192.168.1.1</u> to open Vianeso web GUI.

    <u>192.168.1.1/eng</u> to open Arcadyan web GUI.

• Arcadyan WebGUI changes as Etisalat request:

    Add phone line config page to setup wizard.

• Updated default WiFi nvram.

• Updated WiFi power tables.

Bug Fix:

• Mobile API bug fix:

    Fix UDP notification data contains double "{".

• Fix TR-069 InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.{i}.Enable do not take effect.

• Fix TR-069 InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.Enable do not take effect.

• Fix TR-069 InternetGatewayDevice.LANDevice.1.WLANConfiguration.{i}.RadioEnabled do not take effect

• Fix TR-069 set WPS PIN failed.

• Fix TR-069 can not enable guest WiFi.

Known Bugs & Limitation:

• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.08
Date: 2020-12-31

Feature Added / Modification / Improvement:
• Support 23 more mobile APIs (Please check API document on Gdrive).

• Add speed test WebGUI page.

• Arcadyan WebGUI changes as Etisalat request:

   Update "Network Status" page to show 4 WAN informations at the same time.

   Update "Network Status" page to show IPv6 informations.

Bug Fix:
• Mobile API bug fix:

   Fix "Blocked" parameter in devices list doesn't reflect the actual status.

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.07
Date: 2020-12-25

Feature Added / Modification / Improvement:

• Support Linux Container.

• Workaround to relay LAN IPv6 DNS query to WAN IPv4 DNS server.

• Add speed test background function.

• Change model name to "eLife Connect Wi-Fi 6 Home Gateway".

• Arcadyan WebGUI changes as Etisalat request:

    Change WAN-Type string on the WAN Setting page and Setup Wizard page.

    Exchange the "Triple Play Gateway" button and "Stand Alone Router" in setup wizard page.

    Change to use Etisalat logo in BROWSER's icon space.

    Add reboot button at the TOP RIGHT corner of GUI page

Bug Fix:

• Mobile API bug fix:

    Fix "Block/Unblock" of connected devices were not working.

    Fix the "Blocked" parameter in connected devices response was always 0.

    Fix some WiFi data parameters response are not in Bady variable.

• Fix offline clients still display in the "Mesh Devices" WebGUI.

• Fix IPTV 5min stop issue under Huawei ONT.

Known Bugs & Limitation:

• The connected devices can not show clients connected to Guest WiFi.

Version: **0.01.06**
Date: **2020-12-18**

Feature Added / Modification / Improvement:
• Support 13 more mobile APIs (Please check API document)
• Mobile API changed:
  add "Body" variable in JSON response format
  add "Homebox" = "Arcadyan" in challenge response
  change session timeout to 30 minutes
  "Security Key" -> "SecurityKey"
  "securityMode"-->"SecurityMode"
  add WPAWPA2/AES support
  add RssiDownsteering and RssiUpsteering data
  add 20/40MHz for 2.4G "Set" method
• Support Wireless Schedule function to ON & OFF wireless SSIDs
• Support BLE scan
• Change IPTV interface default VLAN ID = 3
• Support WAN sensing for MGMT VLAN
• Support ALGs
• Support VPN Pass Through

Bug Fix:
• Fix IPTV can not work under Huawei ONT

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.04
Date: 2020-12-06

Feature Added / Modification / Improvement:
• Change the wireless manager object name for mobile APP APIs as Vianeos request
• Support LED control
• Support IPv6 Networking
• Support IPv6 DS Lite
• Support WPA3
• Support Wireless client monitor
• Support WPS PIN
• Support WMM and WMM no ACK
• Support setup wizard for choosing PNP/tripleplay/standalone router
• Support VoIP

Bug Fix:

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.03
Date: 2020-12-02

Feature Added / Modification / Improvement:

Bug Fix:
• Fix that bug that response corrupted data when call list of connected device with mobile api

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.02
Date: 2020-11-30

Feature Added / Modification / Improvement:
• Support 17 mobile app APIs
• Support WEB GUI setup wizard
• Supports IPv4 / IPv6 dual IP stack
• Supports PPPoE (oA) – IPoE(oA)
• Supports DHCPv6 Stateful/stateless DHCPv6 client
• Supports Stateless DHCPv6 server
• Supports IPv6 Relay
• Supports IPv6 Prefix Delegation
• Supports ICMPv6

Bug Fix:

Known Bugs & Limitation:
• The connected devices can not show clients connected to Guest WiFi.

Version: 0.01.01
Date: 2020-11-23

Feature Added / Modification / Improvement:
- Support Multiple WAN
- Support 802.1q VLAN
- Support DHCP Option 43/60/121
- Support DNS server & relay
- Support DMZ/Virtual Server/Port Forwarding/ Port Triggering
- Support DDNS (DynDNS, TZO, NoIP, ChangeIP, ZoneEdit, DNSDynamic)
- Support IP Static Routes
- Support for Wan interface MAC-Cloning
- Support IGMPv3 proxy (Fastleave)
- Support IGMP snooping
- Support dual band 2.4GHz and 5GHZ wireless networks connection simultaneously.
- Support MU-MIMO
- Support WAVE-2
- Support NITRO-QAM
- Support manual/auto radio channel selection
- Support WPS function for easy wireless association
- Support Wi-Fi Multimedia (WMM)
- Support WPS push button-based client association
- Support Seamless media sharing via UPnP and DLNA
- Support Content sharing, Samba file server, UPnP A/V Media server and control point DLNA
- Support HDD file systems FAT32, NTFS, EXT2, EXT3, EXT4, HFS+
- Support File Server for local LAN Clients
- Support Packet Inspection Firewall (SPIF)
- Support Anti-DoS Firewall.
- Support Customizable firewall security levels
- Support intuitive and icon-based web user interface for configuration & connected devices
- Support Firmware Upgrade Active / Standby banks
- Support TR-069, TR-098, TR-106, TR-181, TR-157, TR-232, TR-111, TR-143, protocols for remote management
- Support for NTP protocol for time-based management
- Support for remote management over web user interface with customizable ports
- Support for configuration backup and restore
- Support Ping & Trace Route diagnostics
- Support Wi-Fi on/off button

Bug Fix:

Known Bugs & Limitation: