VeeaHub 2.37 Release Notes

2.37.0

Release Summary

New Features

T	Issue Summary	Release Notes
☑	The VeeaHub cannot be used with tagged VLANs on external switch equipment.	The VeeaHub can now be used with tagged VLANs on external switch equipment. VLANs can be configured for the VeeaHub and specified as tagged or untagged on Ethernet ports.
☑	VeeaHub node statistics are not enabled by default after enrollment and must be manually enabled.	Grafana node metrics are now enabled following enrollment. For now, it is still necessary to manually enable Cellular and Wi-Fi metrics.
➕	Wirepas support is required for the VHC25.	The VHC25 can now be configured to run Wirepas on the EFR32MG21 device instead of Zigbee.
➕	There is no self-test capability for VeeaHub APs to verify correct operation.	The VeeaHub APs can now be tested by a local client to confirm correct operation.
➕	If an MEN unit fails, it cannot be easily replaced without requiring re-enrolment and re-configuration of all units on a mesh.	If an MEN fails, another VeeaHub can replace it by using a previous backup for the failed unit.
☑	The Singapore country code cannot be configured or selected when enrolling a VeeaHub.	The Singapore country code is now supported by the VeeaHub platform.

Bugs Fixed

P	Issue Summary	Release Notes
⛔	A VHC25 5G OLED failed to complete enrollment following an unexpected power down.	Enrollment now continues after interruption and completes as expected.
🏠	After an upgrade the mesh was still shown as updating at Control Center even though the upgrade had completed and all units were running the expected release.	A reporting issue is fixed in which the VeeaHub reports an incorrect transaction to the cloud. The cloud now reports the correct status for an upgrade.
🏠	An issue when enrolling the VHC25 is addressed by disabling Bluetooth beacon operation on the VeeaHub.	The bluetooth beacon is used for local access to the VeeaHub by the VeeaHub Manager but this is for the most part replaced by other capabilities. The VeeaHub Manager can connect to the unit regardless of its location provided the unit is connected to the internet. A local UI is also available that can be used for configuration and use of this capability will be expanded in coming milestone releases. The exception to this is a VeeaHub operating in an offline mode, in which case the beacon remains operational.
🏠	Following cellular failover and then failback, the VeeaHub appears offline at Control Center for an extended period.	The VeeaHub now appears offline briefly during any failover and failback, and in most cases remains reported online.

	An Ethernet port may be incorrectly disabled due to an erroneous DHCP conflict detection when subscribing to a networking application.	The Ethernet port remains operational when subscribing to a networking application.
	An E09 unit failed to enroll following an unexpected restart of the cellular module and subsequent bootstrap.	An issue is corrected in which the database is incorrectly preserved before initiating a bootstrap. On subsequent restart, the partially configured database prevents the unit from going operational.
	The VHC25 5G OLED displays “No service” even though the unit is correctly operating on a 5G-SA network.	The status is now correctly reported on the VHC25 5G OLED when operating on a 5G-SA network.
	During upgrade a wireless MN may temporarily lose the upgrade connection but then bootstrap despite the connection quickly re-establishing.	Increase the server side timeout so that an upgrade client connection can re-establish without a bootstrap first being triggered.
	In some circumstances, the VeeaHub is not correctly detecting operator APNs that have a 2 digit MNC.	A leading 0 may or may not be present with the 2-digit MNC and this is now correctly handled.
	The C25 PoE port is sometimes not correctly detected as a functional WAN.	The C25 PoE port operation is now correctly detected and can be correctly managed as a WAN.
	If the 2.4GHz radio has a hardware fault, then the 5GHz AP is also incorrectly shown as non-operational at Control Center.	The 5GHz AP is now correctly reported as operational.
	After unenrolling a VHC25 5G unit, a subsequent enroll fails and the unit is unable to connect to Control Center without a manual reset.	An issue with stale information from the previous enroll is addressed, and the unit now re-enrolls automatically without problems.
	The VHE09/10 Wi-Fi handles up to 250 VLANs after which no more VLANs can be assigned.	A driver issue is fixed and as many VLANs as Wi-Fi connections can now be assigned.
	A VeeaHub has been observed using a much higher than expected number of file descriptors such that a restart is required after a month of continuous operation.	An issue has been fixed, caused by a repeated, but failing, cellular connection cycle and file descriptors are no longer leaked.
	The VeeaHub cellular interface can sometimes be reported as non-operational but is fully functional.	Correct operation of the cellular interface is now correctly detected following a module restart.
	An issue is seen where the VeeaHub remains failed over to cellular, despite the presence of a functional Ethernet interface.	The Ethernet link is correctly recovered in the event of interface failure and the system correctly fails back.
	An Ethernet port is incorrectly disabled due to DHCP conflict detection when operating in bridged mode.	DHCP conflict detection is no longer performed for a bridged LAN. The DHCP server information could be obtained but the external LAN may be operating multiple DHCP servers in which case the conflict detection cannot operate reliably using discovered information. Really DHCP conflict detection is to protect against the VeeaHub DHCP server polluting an external LAN segment and, as such, there is no need to run this procedure when operating in bridged mode.
	An AP association for a LAN is lost following a restart if the AP is not yet configured.	If an AP is associated with a LAN but not yet configured, then this association is preserved over a restart and takes effect once the AP has been configured.
	When running the Lucid vTBA application, excessive logging is seen on the VeeaHub and uploaded to Control Center.	The excessive logging is addressed by correcting the log level. The logs are reporting expected behavior.

⋘	The VeeaHub can report an error when the list of connected client devices is first queried.	An issue is corrected where a query before the first client connection, can result in an error rather than no attached clients.
⋘	The DHCP lease time cannot be specified for a preconfigured LAN.	The lease time can now be specified for a preconfigured LAN.
⋘	The local UI is sometimes not accessible following initialisation of the VHC25.	A race condition is corrected in which the local UI starts before dependent services are available.
⋘	When the cellular radio access technology (RAT) changes, the VeeaHub prematurely detects loss of connection and attempts to re-establish.	Detect a RAT change is in progress and allow a short period of time for this to complete.
⋘	If an MN is enrolled during a mesh upgrade, the MN may miss the upgrade and continue operating using the enrolled software versions.	The system now correctly detects that the MN is running older software and acts to update the software versions.
⋘	The VHC25 5G OLED shows a PLMN code rather than the network name.	The OLED normally shows the network name and the issue is now corrected for the specific PLMN code in question.
⋘	If the 2.4GHz radio has a fault, then the SSID cannot be used with the VeeaHub manager beacon and a beacon fault is reported.	If the beacon is in use, then the 5GHz SSID is used for local management instead and no beacon fault is reported.
⋘	After an extended power-down, an E09/10 mesh is restarted but some nodes go into recovery.	A database corruption issue is fixed. The E09/10 units now power-up without issue and resume normal operation.
⋘	Newer versions of Docker have deprecated the Docker image format in favor of the OCI image format. The service handling VHT image upload to the VeeaHub cannot handle OCI images.	The image upload service on the VeeaHub was modified to handle OCI images.
⋘	After enrolment a VHE09 VeeaHub failed to join the mesh, it subsequently recovers following a restart.	An issue is fixed in which the status of a failed AP is incorrectly preserved across a reset and subsequently causes the Wi-Fi mesh to fail to initialise.
⋘	Some log files are unbounded when configuring remote service access and the number of log files builds up over time.	The log files in question are now correctly log rotated and remain within bounded limits.
⋘	The VHC25 node statistics are not reporting accurate minimum temperature metrics.	The VHC25 now reports the correct minimum temperature and this is displayed at Control Center.
⋘	A VeeaHub was installed at a customer site with restricted NTP. The VeeaHub did not go operational until NTP ports were opened in the firewall.	The VeeaHub now supports configuration of NTP servers and any site-specific NTP servers can be used in place of the pool normally selected.
⋘	For a C25, the Wi-Fi Rx/Tx capability shown on Grafana does not match the observed rate.	The C25 Rx/Tx capability reporting is now fixed and appears correctly in Grafana.