VeeaHub 2.36 Release Notes

2.36.13

Release Summary

VHC25 New Features

P	Issue Summary	Release Notes
⏫	An operator logo needs to be updated on the VHC25 OLED.	The operator logo is now updated.

2.36.12

Release Summary

Bugs Fixed

P	Issue Summary	Release Notes
⛔	VHC25 Rev D units unable to wireless mesh.	Manufactured units do not have a unique MAC address on the wireless device used by the wireless mesh. This is addressed by correcting the MAC address on startup, if found to be incorrect. An ancillary issue which leads to unnecessary logging is also addressed.
⏫	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.

2.36.11

Release Summary

Bugs Fixed

P	Issue Summary	Release Notes
⏫	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.
⏫	C25 cellular metrics are missing in Grafana when connecting over 5G.	The handling of some reported 5G bandwidths is corrected on the VeeaHub and the Grafana metrics are now shown correctly.

2.36.10

Release Summary

New Features

T	Issue Summary	Release Notes
☑	When the cellular network sends a detach, the VeeaHub attempts a re-attach after a fixed period, this needs to be configurable.	The re-attach period can now be configured according to operator requirements.
☑	Pre-defined APNs are editable from Control Center.	Allow pre-defined APNs to be configured as read-only.
☑	A mix of local and UTC time are used on the VeeaHub.	Use UTC time exclusively on the VeeaHub and map to local time at the UI.

Bugs Fixed

P	Issue Summary	Release Notes
⛔	The VeeaHub can appear non-operational due to a failed WAN connection, despite a working Ethernet link.	A WAN operational link detection issue is corrected and the unit is reported as operational. Any negotiation issues can be diagnosed on the Ethernet Ports screen under Link Status.
🔖	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 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 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.
🔖	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.

	The VeeaHub memory and CPU utilization become erratic during a busy period and after continuous operation.	An issue with a leaked context tracker used for rate limiting is corrected. The VeeaHub operates correctly after continuous and busy periods.
	Wi-Fi AP's client connection performance Improvement	A reporting issue is corrected and Wi-Fi connection metrics are visible at Control Center for all connected clients.
	A number of VeeaHub MNs in a 12-node mesh are reported as non-operational following an upgrade to a candidate 2.36.10 release.	The MN AP radio handling is corrected following upgrade and the units correctly go operational.
	The VeeaHub incorrectly uses DST for Mexico which causes inconsistent handling.	The timezone handling is corrected for Mexico.
	Lucid deactivated after turning on LAN Rate Limiting	Lucid remains operational when LAN Rate Limiting is enabled.
	An issue was seen where the VeeaHub was online and providing service but was not visible at Control Center.	The remote cellular connection switched to another network and the cellular IP and remote DNS changed. The OAM agent now re-establishes if a change is detected to the upstream network.
	An Ethernet port lockup is seen on the VHC25 running Lucid as a containerised application.	The lockup is addressed by supporting Lucid running in combination with direct host networking.
	A LAN failure was reported for an E10 VeeaHub running as an MN with the Lucid application subscribed on the mesh.	The LAN failure was caused by false detection of a DHCP conflict at the MN after Lucid is subscribed. This is now corrected and the LAN goes operational.
	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.
	The C25 cellular Usage History Chart has transposed send and receive data counts.	The C25 cellular Usage History Chart is now correctly displayed.

2.36.9

Release Summary

New Features

T	Issue Summary	Release Notes
	The VeeaHub status and configuration screens are not localised and cannot be easily converted to different languages.	The VeeaHub status and configuration fields are now localised and can be mapped to different languages.
	Support for units manufactured with specific label and configuration requirements.	Units can be manufactured with additional label and configuration requirements that are applied when the unit is enrolled and visible at Control Center.
	Wi-Fi 6 certification for VHC25.	The VHC25 is certified for Wi-Fi 6 operation.

Bugs Fixed

P	Issue Summary	Release Notes
	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.

2.36.8

Release Summary

New Features

T	Issue Summary	Release Notes
☑	Support for units manufactured with specific label and configuration requirements.	Units can be manufactured with additional label and configuration requirements that are applied when the unit is enrolled and visible at Control Center.
☑	The VeeaHub is required to manage Wi-Fi clients based on MAC address.	A capability is supported that allows policies to be defined for Wi-Fi client MAC addresses on the VeeaHub.
✚	Wi-Fi 6 certification for VHC25.	The VHC25 is certified for Wi-Fi 6 operation.
☑	The VeeaHub requires local and remote service access using HTTPS.	An application running on the VeeaHub can provide a HTTPS endpoint for local and remote access.

Bugs Fixed

P	Issue Summary	Release Notes
▲	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.
▲	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 incompatibility between 2.36.4 and 2.36.7 means that an MN that bootstraps early to 2.36.7 during an upgrade, is unable to join the mesh still operating on 2.36.4. Once the upgrade completes and other units have upgraded, the unit is once again operational but in the interim it remains offline.	Similar compatibility issues are now managed so that later releases are forwards compatible with earlier versions and can join the mesh, should a similar situation occur.
▲	If a mesh software upgrade is started while one or more MNs are in the process of updating (bootstrapping), then once the MNs re-join the mesh, they may not have the correct software applied.	The updated software is now correctly installed once the MN re-joins the mesh.
⏫	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.

2.36.7

Release Summary

Bugs Fixed

P	Issue Summary	Release Notes
	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.
	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.

2.36.6

Release Summary

New Features

T	Issue Summary	Release Notes
	The VeeaHub and Control Center do not support manual selection for different cellular networks.	A cellular network scan can now be initiated from Control Center and a reported network selected.
	Provide more information for the cellular SIM.	The cellular SPN (Service Provider Name) and ONS (Operator Name String), present on the SIM card, are now shown at Control Center.
	Provide more information for the cellular SIM.	The cellular PLMN (Public Land Mobile Network), present on the SIM card, is shown at Control Center.

Bugs Fixed

P	Issue Summary	Release Notes
	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.
	VHH09 2.35.2 Upgrade leaves the 2.4 & 5Ghz AP's Offline.	A hardware issue is under investigation by FLD-265 IN PROGRESS . However, the unit does not come up cleanly, making the AP failure difficult to resolve. This is now corrected and the unit appears online showing the 2.4GHz radio as non-operational.
	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.

2.36.5

Release Summary

Bugs Fixed

P	Issue Summary	Release Notes
	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.

2.36.4

Release Summary

New Features

T	Issue Summary	Release Notes
	Wi-Fi 6 certification for VHC25.	The VHC25 is certified for Wi-Fi 6 operation.

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.
	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.
	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.

2.36.3

Release Summary

Bugs Fixed

P	Issue Summary	Release Notes
	An APN is not updated at the VeeaHub after changing from Control Center.	The APN is now correctly changed after updating from Control Center.

2.36.2

Release Summary

New Features

T	Issue Summary	Release Notes
+	The VeeaHub does not support dual stack IPv4/IPv6.	The VeeaHub now supports IPv4 and dual stack IPv4/IPv6. IPv6-only can also be configured but is not fully supported at this time.
+	It is not possible to configure multiple APNs and select between them.	Multiple APNs can now be configured at Control Center and then individually selected.

Bugs Fixed

P	Issue Summary	Release Notes
▲	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.
▲▲	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.

2.36.1

Release Summary

New Features

T	Issue Summary	Release Notes
+	Operator-specific configuration is not visible to a customer on the VeeaHub.	Any operator-specific configuration can now be included on the VeeaHub label.
+	The NTP servers selected by the VeeaHub cannot be configured.	Support is provided to configure both a general set and also an interface-specific set of NTP servers.
+	The cellular RAT (Radio Access Technology) cannot be selected.	Support is provided to allow the cellular RAT to be configured from the Control Center UI.
+	The VHC25 5G OLED does not support language or operator customisation.	The VHC25 5G OLED now supports language localisation and operator-specific logos.
☑	It is not possible to pre-define a configuration set for an operator such that when a VeeaHub enrols, all required configuration is present.	Support is provided for a configuration set that can be applied to a VeeaHub when enrolled for a particular operator. The configuration set includes 2.4 and 5GHz SSIDs, IPv4 network subnet, IPv4 address lease range, APN configuration sets and administrator credentials.
☑	VeeaHub chipset information is not available at Control Center.	Chipset details are now provided at Control Center for a VeeaHub.
☑	The IMEI_SVN is not visible in Control Center.	Support is added to display the IMEI_SVN along with the existing IMEI.
+	The VeeaHub time shown at Control Center does not use the local time zone.	The VeeaHub time is now shown at Control Center according to the local time zone for which the hub is enrolled.

Bugs Fixed

P	Issue Summary	Release Notes
⇈	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.

2.36.0

Release Summary

New Features

T	Issue Summary	Release Notes
	A standby VeeaHub cannot be used in-place to act as a replacement, should another unit fail.	A VeeaHub can now be enrolled as a standby unit and can take the place of another unit should it fail. This avoids situations where a single point of failure prevents service and a site visit is required to rectify.
	Clients connected to a standard VeeaHub network cannot be rate limited.	Configurable default rate limits are now supported for clients connected to a LAN. This allows the throughput to be restricted per-client and consequently overall data usage over time, if there are considerations for the WAN.
	For some procedures such as upgrade or mesh-wide backup, a VeeaHub may reset itself if any issues occur and this can cause configuration information to be lost.	If a VeeaHub resets for any reason, then all configuration is preserved. Control Center now supports a reset function for which configuration and/or application data can be removed if required.
	It is not possible to restore large backups to a VeeaHub with reduced memory. The amount of memory required is a function of the size of the backup.	Backups can now be restored without requiring a high memory headroom and the amount of memory required is constant and minimal, and does not vary based on the size of the backup.
	A VeeaHub network backup sometimes fails to complete due to a number of causes.	Reliability of a network backup is improved for issues such as intermittent connectivity and backup sizes.
	Wi-Fi performance testing of a VeeaHub network requires additional equipment and test points to be installed.	Wi-Fi performance tests can now be performed using the VHM, connected to Wi-Fi APs of a VeeaHub network.
	The VeeaHub does not support Portugal for Wi-Fi, cellular and LoRaWAN frequencies.	Support for Portugal is added and units can be enrolled for this country.
	To reset a unit to a factory condition a physical 60-second button press is required.	Support for a full reset is now supported by Control Center. This clears software, configuration, application data and unit persistent data (used for static IP and cellular APN information).
	Request for 40Mhz 2.4GHz WiFi channel	
	The link information for VeeaHub Ethernet ports cannot be easily checked in case of any deployment issues.	Control Center now shows link information for each Ethernet port as well as summary statistics for packet and error counts.

Bugs Fixed

P	Issue Summary	Release Notes
	Issues seen with Test CLI access over the MN debug port.	This is now corrected and the Test CLI be used successfully with the MN debug port.

	A debug port configured at the MN is unable to obtain an IP lease.	The debug port restriction for port 2 is corrected. In future this restriction can be removed.
	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 upgrade from 2.34.0 to 2.35.0 failed, with a unit going into recovery before coming back online at Control Center.	An upgrade issue is now corrected where a unit has multiple operational WANs prior to upgrade.
	During failover, an issue is seen where the default route is lost and the VeeaHub goes offline for an extended period.	An issue is corrected where the default route can be lost and support included to re-add the default route if found to be missing.
	Control center provides links to access services running remotely on a VeeaHub network. A problem was reported for which the full set of expected service links for a remote application was not available.	A problem is corrected on the VeeaHub if a local port is not provided when configuring the remote link. A change in an earlier release incorrectly enforced the need to specify a port. However, a port can be omitted and in this case, the system now correctly selects the port to be used.
	Failure of a VeeaHub radio or other device sometimes causes the unit to fail to connect to the cloud and become unmanageable.	If a VeeaHub radio or other device fails, the unit connects correctly to the cloud and its status can be remotely diagnosed.
	Restoring a backup made with 2.35.6 on a system upgraded to 2.36.0 does not restore application data to the correct location.	Application data is now restored to the correct location.
	The VeeaHub can take a long time to process logs following a reset. This can increase reset time and means some log files may be lost.	An issue is corrected when processing logs with additional log levels enabled, and which may also be badly formatted.
	The VHC25 sometimes fails to upgrade cellular firmware following a reset.	The issue is resolved and the VHC25 successfully upgrades cellular firmware.
	An application configure button is not visible in Control Center and this functionality can no longer be accessed.	An issue advertising the configuration service through MQTT is corrected. The configure button is correctly shown and allows the capability to be accessed remotely.
	The VeeaHub 2.4GHz AP (Access Point) configuration only supports 20MHz bandwidth.	Configuration support is added for 40MHz bandwidth with 2.4GHz APs.