



Airvine™ WaveTunnel VineOS™

SW Maintenance Release Version 1.3.0.81



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Introduction

This software feature release v1.3.0.81 adds two new features to the WaveTunnel system and includes some reliability enhancements. It is recommended that all customers upgrade to this software release.

New Features and Enhancements

RADIUS support for user authentication

This release adds the ability to authenticate users using an external RADIUS server. Multiple RADIUS servers can be configured but a single server can be selected for user authentication. When RADIUS user authentication is enabled, all user logins to any of the management interfaces (HTTP/HTTPS Web GUI, SSH/CLI, Console) will use the configured external RADIUS server to authenticate the user's login credentials (User ID and Password). Local Authentication will continue to be supported.

Once a user authenticates using either Local Authentication or RADIUS Authentication, the user will be granted access to the WaveTunnel management system. Furthermore, upon successful authentication by either Local or RADIUS, the user will be able to manage that WaveTunnel device and proxy manage any other WaveTunnel member device configured to operate in same WaveTunnel Network (or also referred to as the WaveTunnel Cluster).

Note: RADIUS server configuration is not available on the Airvine Mobile App.

Note: Redundant/Standby RADIUS servers are not supported in this release.

POE Enhancements:

This release adds support for automatic POE power negotiation to this release without having to manually configure per-port PoE power caps per Ethernet port as has been the case in all previous SW releases prior to this v1.3.0.81 release. Automatic PoE Power Negotiation, the WaveTunnel Power Sourcing Equipment (PSE) will allocate exactly the amount of power resulting from a successful negotiation of the PoE Powered Device (PD) device.

Note: The ability to manually configure PoE power caps per Ethernet port has been deprecated in this release and is no longer supported.

Note: The ability to use the Airvine Mobile App to configure PoE priorities or monitor PoE status is not supported in this release v1.3.0.81 but continues to be supported in v1.2.1 and earlier releases.

Issues Resolved

The following issues have been resolved in this release since the last release v1.2.1.63.

ID Number	Description
WTSD-664	CLI - backup list function doesn't properly work
WTSD-663	CLI - show event command can cause a crash
WTSD-594	CLI – show running command can crash kicking out the user from the CLI shell.
WTSD-569	LED – system critical alarm doesn't cause red LED to light
WTSD-540	Mobile App - Password change is not forced in the Initialization Wizzard. It is possible for users to skip this step.
WTSD-492	The information contained in downloaded system log files has been simplified and made more intuitive.
WTSD-490	Restoring the system from a backup configuration file does not restore the saved QoS setting, instead the QoS setting goes back to the default value "None" (no QoS enabled).

Known Issues

The following are known issues with this release. (Team: Which of these have been fixed).

ID Number	Description
WTSD-631	<p>WT will reboot when plug in 3 devices with 60w, 45w, and 60w allocated</p> <p>On rare occasions, when multiple Ethernet PoE PD devices are connected whose collective total requested powers exceeds the maximum total PoE PSE power available on the WaveTunnel (120 Watts), the WaveTunnel will reboot.</p> <p>Upon reboot, connected PD devices will be powered per POE priority rules.</p>
WTSD-630	<p>When multiple Ethernet PoE PD devices are connected whose collective total requested total power exceeds the maximum total PoE PSE power available on the WaveTunnel (120 Watts) AND one or more of the PD devices are unplugged and/or re-plugged back in, unexpected results may happen such as one of the PD devices that should continue to receive power may erroneously lose power.</p> <p>A reboot of the device will resolve this issue.</p>
WTSD-560	reboot manually will cause the WT to be stuck at "2024 Jan 15 09:50:43 root [17809.006907][T7134] wlan: AP stopped"

WTSD-583	Web GUI – Occasionally, the startup Initialization Wizzard, after clicking on Submit on the Step 5 Summary screen, can hang while the “Initializing the WaveTunnel configurations...” message is being displayed. If this happens, a factory reset is required to fix the issue. This issue is only observed when a user clicks on other items on the left navigation menu while the “Initializing the WaveTunnel configurations...” message is still being displayed.
WTSD-548	WebGUI –When enabling encryption on the WaveTunnel, network radio link status will not display “green” dotted lines indicated that link was encrypted.
WTSD-542	Mobile App – During Step 5 Summary screen if you click Submit, the screen still allows the user to click "NEXT" or "BACK" buttons while it is in initializing and saving the settings.
WTSD-479	Mobile App - Node Label may occasionally display the name of a different WaveTunnel located within the same WaveTunnel Network Cluster.
WTSD-435	Adding a user in the cli cause "TypeError: create_user() takes 1 positional argument but 2 were given". If this happens, use the WEB GUI to add the user.
WTSD-434	WebUi - "Link Aggregation Port" displays undefined when port is disabled
WTSD-428	Mobile App - WaveTunnel diagram can occasionally not display link correct connection status in the topology view correctly when Encryption is enabled or disabled.

Software Upgrade Process

Please refer to the software configuration guide regarding how to upgrade software of the WaveTunnel Device.

It is recommended that all WaveTunnels and wirelessly communicate with each other (units on both ends of the wireless link) are all upgraded to the same software release.

Software Compatibility

The following configurations have been validated for compatibility.

Note: The over-the-air encryption feature is only available on VineOS Release 1.2.0.62 and later releases. Both ends of a 60 GHz wireless link must be upgraded to 1.2.0.62 (or higher release) to use over-the-air encryption.

Over-The-Air Compatibility - VineOS (Encryption Disabled)

Vine OS	VineOS Version					
Version	1.0.0.23	1.0.1.28	1.2.0.62	1.2.1.63	1.2.1.63	1.3.0.81
1.0.0.23	Yes					
1.0.1.28	Yes	Yes				
1.2.0.62	Yes	Yes	Yes			
1.2.1.63	Yes	Yes	Yes	Yes	Yes	Yes
1.3.0.81	Yes	Yes	Yes	Yes	Yes	Yes

Over-The-Air Compatibility - Vine OS (Encryption Enabled)

Vine OS	VineOS Version					
Version	1.0.0.23	1.0.1.28	1.2.0.62	1.2.1.63	1.2.1.63	1.3.0.81
1.0.0.23	N/A					
1.0.1.28	N/A	N/A				
1.2.0.62	N/A	N/A	Yes	Yes	Yes	Yes
1.2.1.63	N/A	N/A	Yes	Yes	Yes	Yes
1.3.0.81	N/A	N/A	Yes	Yes	Yes	Yes

Note: Encryption Feature Introduced in v1.2.0.62

Vine-OS and Mobile App Compatibility

Vine OS	Mobile App Version		
Version	1.0.1	1.0.2	1.2
1.0.0.23	Yes	Yes	Yes
1.0.1.28		Yes	Yes
1.2.0.62			Yes
1.2.1.63			Yes
1.3.0.81			Yes*

* Mobile App doesn't support RADIUS User Auth and New PoE Features