

## Viper Base Station Controller Release Notes.

Version 1.1.12 (VER\_1\_1\_12\_R201711131700)

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### New features:

- None.

### Changes:

- None.

### Fixes:

- VBS-96: GUI deadlock.
- VBS-100: Front panel push button not responding anymore (after 1 week).
- SNMP: Slow get/set issue.
- Extra buffer overflow protection.
- IP Relay Agent: Socket bind failure.

Version 1.1.11 (VER\_1\_1\_11\_R201706211700)

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### New features:

- More RAM (64 MBytes instead of 32 MBytes).
- More FLASH (72 MBytes instead of 8 MBytes).
- 2 x 32 MBytes Spansion chips
- 1 x 8 MBytes Adesto chip.
- New internal Ethernet bridge.

Changes:

- None

Fixes:

- None

Version 1.1.10 (VER\_1\_1\_10\_R201702171000)

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New features:

- None

Changes:

- None

Fixes:

- Added guards against port congestion (unicast/broadcast/multicast packet flood).
- Improved tolerance to communication delay between the base station and the internal radios.
- VBS-72: "Disable transmitter" of backup radio in warm standby mode.
- VBS-74: System monitor "ping timer" not respected under some conditions.

Version 1.1.9 (VER\_1\_1\_9\_R201606021000)

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New features:

- The maximum amount of radio switch is now user configurable.
- Sending SIGUSR2 to the "base" daemon dumps its internal state in the logs.

Changes:

- Incremented the timeout values of the telnet session between the base and radio.

Fixes:

- VBS-24: GUI sometimes locks up when accessing it.
- VBS-55: Firewall blocks "UDP auto-response" mode.
- VBS-58: The "base" daemon hangs after sending UDP packets in IP relay agent.
- VBS-60: HTTP server lock because the "base" daemon hangs.
- VBS-65: Maximum radio switch counter issue.
- VBS-67: SSH/Telnet daemon always using port 50022/23.
- "IP Relay Agent" module improvements:
  - a) TCP send do not block anymore (can impact status reporting and other TCP clients).
  - b) The select function call can return events on more than one socket.
  - c) Do not try to connect (TCP client) to address "0.0.0.0".

Version 1.1.8 (VER\_1\_1\_8\_R201507010800)

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New features:

- None

Changes:

- VBS-41: Never disable the head radio transmitter.

Fixes:

- VBS-18: IPSec "automatic restart" timeout is not precise enough.
- VBS-20: Typo in base station help file.
- VBS-21: Web pages Copyrights are not consistent.
- VBS-23: IP relay 1 (of 5) seems to take a long time reporting status to GUI.
- VBS-24: GUI sometimes locks when accessing it.

- VBS-26: ID report period not always followed.
- VBS-27: Colt request cannot complete because of firewall rules.
- VBS-29: Qos filters corrupted when passing from 1.1.6 to 1.1.7.
- VBS-35: Invalid ID report.
- VBS-38: Base Station Controller MIB Syntax Errors.
- VBS-45: SNMP daemon crash when accessing certain table MIBS.
- VBS-47: Base station boot delay (system monitor) too long.
- Adjusted display in vpkg.sh (debug script).
- Enabled COLT logs for firmware/configuration upgrade.
- Colt agent upgrade retries limited to 5 instead of 200.
- Opened up firewall ports for IPSec.

Version 1.1.7 (VER\_1\_1\_7\_R201412010800)

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#### New features:

- Up to 5 virtual IP interfaces.
- VLAN support.
- QoS filters now contains "Ethernet Type" field.
- IPsec debug levels can now be set to many levels.

#### Changes:

- VBS2: Change IPsec DO names from "Controller" to "@Controller" and from "mac" to "@mac".

#### Fixes:

- VBS1: IPsec tunnels won't pass data (firewall drops ESP packets).
- VBS4: IPsec passes clear text packets with drop filters option enabled.
- VBS7: IPsec phase 1 key life time is mislabelled.
- VBS8: Controller allows traffic to jump VLAN.

- IPSec tunnel name cannot be left blank.
- The term "Device Outlook" is replaced by "DeviceOutlook".
- Replaced the term "Import Local Subnets" by "Populate "Local Subnets" in the IPSec filter table section.
- Bug #6137: IP Relay Agent + "URL too large" warning.
- Corrected build error in the colt module.

#### Version 1.1.6

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##### Enhanced IPSec module

- Up to 10 client tunnel.
- Up to 10 server tunnel.
- Support for hidden tunnels.
- Logs to troubleshoot sessions.

##### Updated SNMP MIBs

- IPSec.
- ODM.
- IP Relay Agent.

#### Version 1.1.5

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Added "Colt Agent" module.

Added "ODM" module (Online Diagnostic Messaging).

Removed "QOS" legacy support.

Second Pre-defined "IP Relay Agent" entry to point to the backup radio.

Fixed IPSec reconnect issue.

Added the "Ethernet Gateway" field to the web page interface.

Abort firmware upgrade when resources are low.

During upgrade, only replace a file when the new version becomes available.

Updated IPSec module from 5.0.4 to 5.1.3

#### Version 1.1.4

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Added "IPSec client" module (Device Outlook).

Added "IP Relay Agent" module.

Fixed issue loading neighbor table.

#### Version 1.1.3

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Added VLAN functionality.

Supporting ViPER radio QoS.

Displaying the current firmware build loaded in the controller board.

Fixed bug on QoS Filter Table UP/DOWN arrows.

#### Version 1.1.2

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Fixed bug on multi-speed page where Exceptions File could not be updated.

Older versions of upgrade.cfg and upgrade.cgi were included in Version 1.1.1 by mistake.

#### Version 1.1.1

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Fixed multi-speed web page display for ETSI mode Vipers

#### Version 1.1.0

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Added QoS

Added controller reboot to SNMP MIB

Changed banner on web pages from Dataradio to CalAmp

Fixed cancel button on radio settings page

Fixed logging function to be compatible with v3.3 Viper firmware

Fixed multi-speed web page display for 900 MHz Vipers

**\*\*VERSION 1.0.5 MUST BE INSTALLED BEFORE UPGRADING TO VERSION 1.1.0\*\***

Version 1.0.5

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Added SNMP

Added warm standby for Vipers

Added separate default config files for Viper and Phantom II

Improved measurement of radio forward power

Fixed web pages for Phantom II

Fixed Radio B On/Off parameter

Fixed Restore Factory Defaults to handle all multi-speed files

Fixed noise floor logging to be compatible with v3.2 Viper firmware

Version 1.0.4

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Added support for Viper multi-speed

Added boot delay parameter for ping timer to accommodate Viper VPN

Added check to handle login of Viper security officer

Corrected reading of controller power detector



Controller status LED is now initialized properly

Fixed subnet mask entry to validate input

Fixed Phantom II diagnostics to correctly detect when the radio is disconnected

Changed ping timer to ignore message counts for Phantom II

Fixed config file corruption on power down issue

Version 1.0.3

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Added support for Phantom II radios

Added expanded logging for Viper

Added RADIUS client for web server

Eliminated errors reading/writing config files

Fixed 'Over Temperature' error reporting

Fixed pinging in manual mode

Fixed ping issues related to startup/restarting

Fixed issues related to entering RADIUS settings

Fixed Relay 1 alarm reporting

Increased login delay to Viper radios

Errors are now cleared on completion of setup wizard

Periodic reset timer now acts properly when set to zero

Radio switch not allowed while a radio is booting

Radio and controller diagnostics are now updated independently

Errors are no longer cleared when switching from manual to auto mode

Fixed issues with Auto Fill on Viper basestation models

Version 1.0.0

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Initial release