v2.11 Release Notes

Released May 18, 2023

Fixes

- Updated security.

v2.0 Release Notes

Released April 8, 2021

Introduction

The NK-1 Firmware v2.0 is a compelling new software release that brings OvrC to the Pakedge lineup. This update allows you to
migrate your devices to the OvrC cloud platform as an OvrC connected device. See the below release highlights for further details.

Release highlights

Adds OvrC Pro functionality to your Pakedge devices.

> **Note:** Once Pakedge devices have been updated to the 2.0 firmware they are no longer able to contact BakPak apps. There is no downgrade option.

> **Note:** This update makes the NK-1's username and password ovrc/ovrc.

Added OvrC Features

- Device Monitoring
- Notifications
- Configuration
- Firmware Updates
- Remote Access
- Device Reset
- OvrC Home
- OvrC Pro Network Troubleshooting Features
- Location Dashboard
- ISP Speed Test
- Traceroute Analysis
- Ping Test

- OvrC Pro Features for Third Party Devices
- Device Monitoring
- Notificaitons
- Advanced Remote Access
- Control System Monitoring
- Enhanced Product Integrations

For a complete overview, please visit snapav.com/ovrc.

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v1.4 Release Notes

Released August 16, 2019

Introduction

V1.4 firmware delivers several features and security enhancements as well as a major software driver update that addresses several connectivity and performance issues with iOS devices, 2.4 GHz radio connectivity, and roaming and client handoffs.

Enhancements

- If an AP joins the network, it can be automatically added to an AP group, which applies the group configuration to that AP. This can be found under Settings > Access Points.
- Previously, APs had to be discovered in order to complete the setup wizard. The option to configure the NK-1 without discovering any APs is now available in the setup wizard. You can also skip the wizard and go into the dashboard page whether APs are discovered or not.
- When the setup wizard starts, the option for restoring an existing NK-1 with a configuration file is now available.

User Experience

Several improvements have been added to deliver a better user experience:

- Under the Settings menu, the System settings have been separated from the Access Point settings.
- Firmware for the OS, AP, and BakPak can now be managed under the NK-1's Firmware Management menu.
- Under the WiFi Setup menu, "Access Point Settings" has been renamed to "AP Groups."
- Newly designed drop-down filter on Dashboard.
- New icons for reset and rerun auto channel.
- Made the Wizard's AP firmware update more obvious.
- When an action is taking place on an AP, only the affected AP will be blocked while the action's being completed.
- A new Troubleshoot option is now available when some APs are not discovered during the setup wizard.
- Added a button on Site Survey that will rerun the survey.
- Site survey now automatically runs when selected and does not show old data.
- Security Enhancements
- Secure-by-design security enhancement requires the default username and password to be

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changed upon initial setup.

- Updated ntpd to the latest version.
- Updated openssl to the latest version.
- Updated open SSL to the latest version.
- Updated dropbear to the latest version.

Bug Fixes

- Uploading config file is now working as designed.
- APs now indicate they do not still need to be configured after they are configured using the setup Wizard.
- When the time zone is changed several times in System Settings, the spinner is now automatically removed.
- "Scanning for APs" loading page now closes when finished.
- NK-1 now discovers APs that are on firmware version 1.31.0.
- Default NK-1 access point config name now allows a hyphen character (-) within the name.
- Site survey no longer fails if one of the wireless bands is disabled.
- Channel and power settings are now successfully applied when one wireless band is disabled.
- Removed the Apply button from the timeout mode.
- NK-1 now shows "true" for BakPak firmware.
- Power level retained even after reboot.
- UI no longer keeps refreshing when changing channels/power levels on AP page.
- $ character in SSID name is now added correctly.

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v1.31 Release Notes

Released September 06, 2018

Added Features

- Fast BSS Transition allows seamless wireless client transition from one AP to another. Enabling 802.11r Fast BSS Transition through NK-1 is now supported. The feature can be enabled per radio or as a global setting for a group of APs.
- The release of NK-1 firmware v1.31.0 includes the ability to select a country code from an NK-1. After the desired country code is selected, the corresponding wireless channel and power output will be set to the selected country and its regulatory domain.

> **Note:** The country code feature only applies to NK-1 outside of the United States and Israel

User Interface Enhancements

- When enabling Dynamic Frequency Selection (DFS), a warning was added to inform the user that the connectivity will be impacted while DFS channels are being provisioned.
- In the Access Point page, an auto channel icon was added next to each AP's radio band. This will allow the user to perform auto channel selection per AP and per band.
- In the Access Point page, a cog wheel was added next to each group name to allow quick

navigation and editing of the wireless configuration.

Bug Fixes

- 24584 – Upon upgrade to v1.30, the NK–1 could potentially show a bad gateway 502 error.
- 34908 – Cannot upload configuration file to the NK–1.
- 37503 – NK–1 fails to discover new APs by falsely identifying that is has reached the maximum number of supported APs.

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v1.30 Release Notes

Released February 05, 2018

> **Note:** To upgrade the NK–1, please refer to the following KB article. Prior to the NK–1 upgrade, it is required to upgrade all you AP to v1.30

What's In This Release?

The NK–1 v 1.30 firmware now combines all three NK–1 components into one firmware whereas in previous releases, the NK–1 had three separate components:

- **NK-1 PAKOS:** operating system of the NK–1 appliance (last released version v1.10)
- **NK-1 CP:** application that allows accessing the wireless controller and the Bakpak Management Agent from the same user interface.
- NK-1 The wireless controller firmware which is the application that manages the access points.
- NK-1 support up 30 APs. There are now two ordering SKUs depending on the size of your job
- NK1–CP1 Wireless Controller with up to 15 Aps
- NK1–CP2 Wireless Controller with up to 30APs
- Completely redesigned user interface to enhance user experience, boost performance and page responsiveness.
- Simplified out of box user experience with a new wireless wizard. When a new NK–1 is installed, a four steps wizard was added to simplify and reduce the configuration time.
- Ability to create different AP groups on the NK–1.Groups can be used when two or more subset of APs managed by the same NK–1 need to get different configurations.
- Support new radio configuration settings: DFS channel, Multicast Enhancement, RSSI client reject thresholds, enable/disable 2.4GHz and 5Ghz radio bands
- AP deployment: completely redesigned AP deployment page. Support of virtual APs that can be used to for wireless planning and coverage simulation
- Removed TrueStream, SectorMaxx and SmartWav and replaced them with two optimization processes that are more in line with today's network requirements that are more focused on performance rather than coverage.
- **Channel optimization:** New channel optimization that uses the AP AUTO CHANNEL function. Each AP is now set to AUTO by default or after you complete the wireless wizard. In AUTO CHANNEL, the AP will scan the RF environment and select the best channel available by taking into account both WIFI and non–WIFI sources of inference such as ZigBee, microwave, etc. The AUTO CHANNEL is run every time the AP bootups and can also be manually run from the NK–1 access points page. Note: Once all the channels are determined and validate it is recommended to lock all the network settings by changing the AP channels from AUTO to the designated fixed channel. Please refer to the following KB article

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- **Power Optimization:** Because the AP are installed closer to each other, the default Tx power was reduced in order to minimize the overlap. The AP Tx power default settings was changed accordingly to 13 dBm on 2.4 GHz radio and 18 dBm on the 5GHz radio.

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