



Version 2.2 Software Release Notes

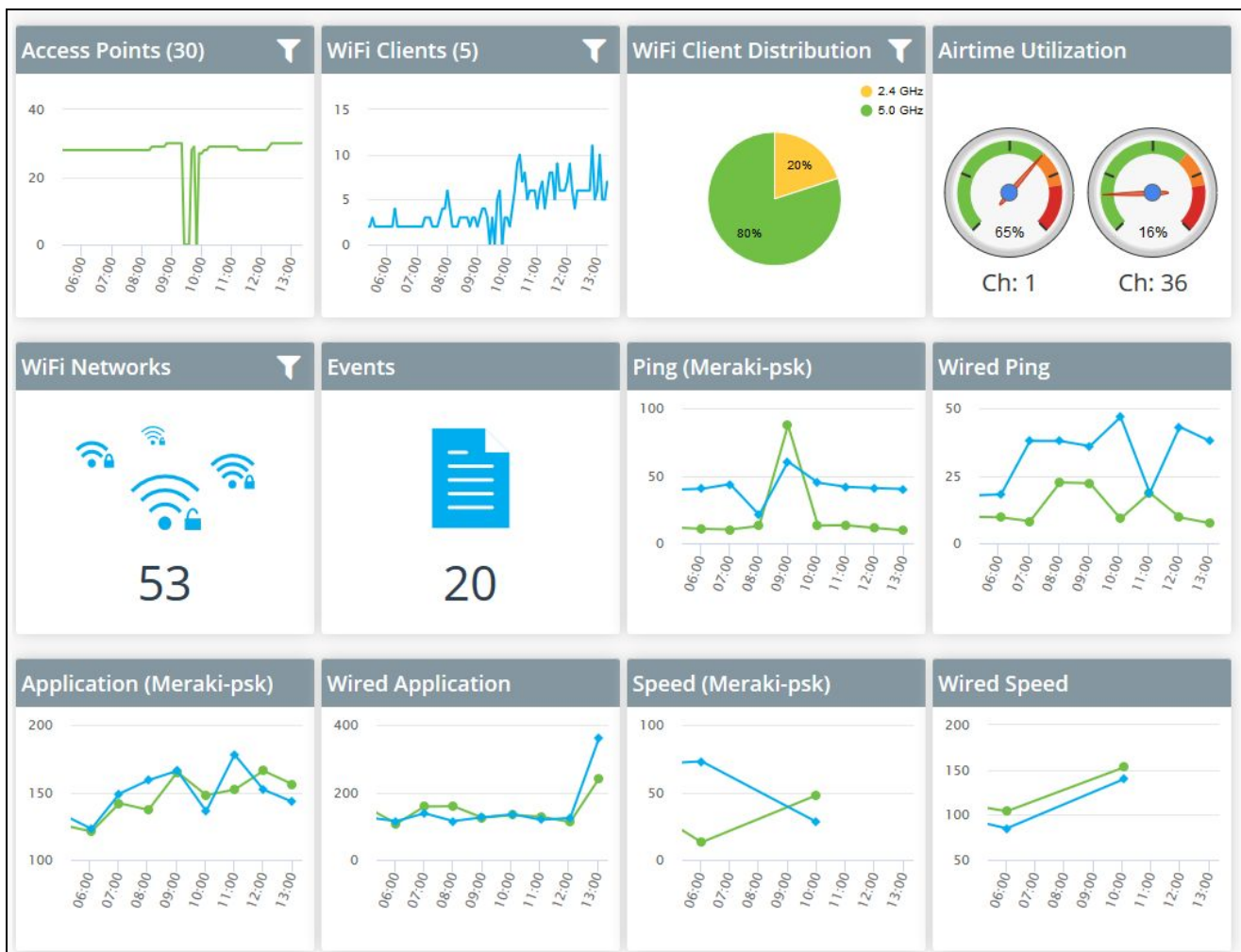
July 2019

The WyeBot team is excited to announce the v2.2 release of the Wireless Intelligence Platform. This new version of software has been deployed to our production cloud and your sensors have been automatically upgraded. Login to <https://cloud.wyebot.com> to see all of the new functionality. If you have any questions about the new software, please contact us at support@wyebot.com.

Network Test Graphs

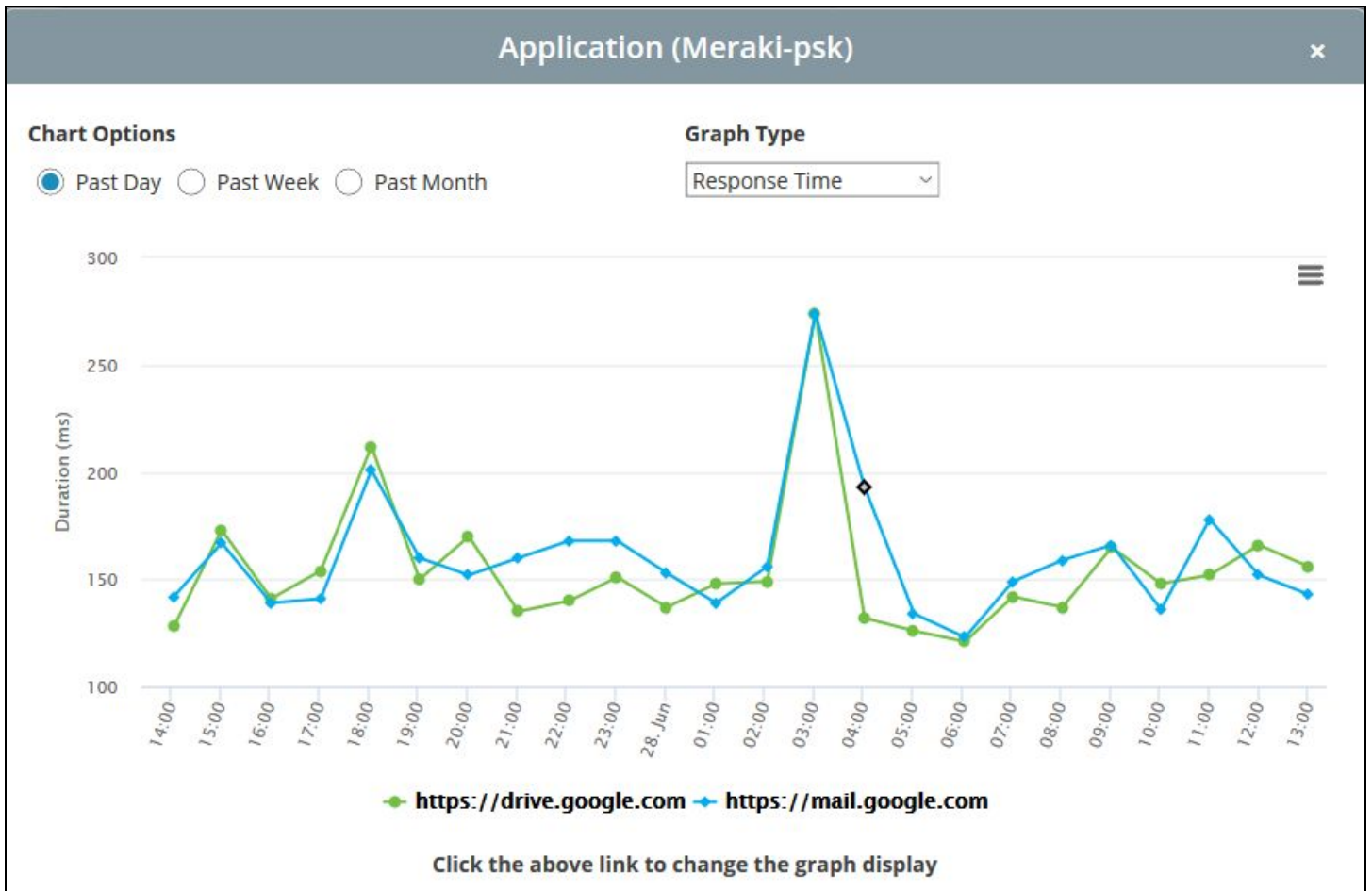
Graphs are automatically created and displayed on the sensor dashboard for the following Network Tests:

- Speedtest
- iPerf
- WiFi Connectivity
- Ping
- Application Monitoring



Each graph can be expanded to view historical data for the past day, week or month. Selecting a point within the graph will show the complete result log for that specific test run. This provides an administrator with additional details to investigate an anomalous test result.

In addition to the test results, wireless graphs also include details on the DHCP and DNS server response times. This allows the performance of those servers to be viewed over time.



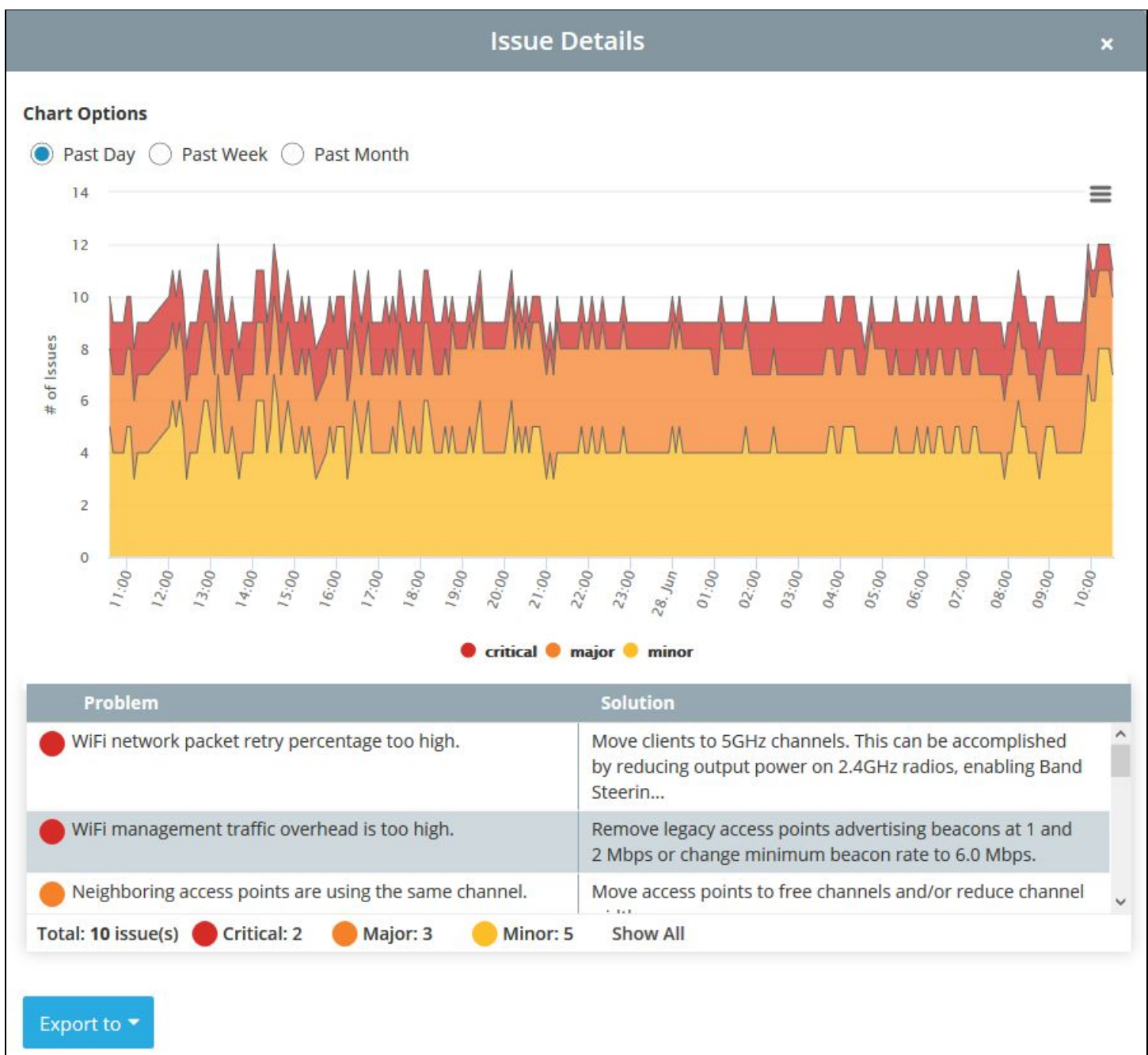
Historical Issue Details

The output from WyeBot Signatures (Issue Details tile) can now be viewed for up to a month. This allows administrators to look back at all issues that have been triggered on a WyeBot sensor. To view past issues, click on *Show Historical Data* in the Issue Detail tile.

Issue Detail		Show Historical Data
Problem	Solution	
Legacy 802.11b data rates may be negatively affecting network performance.	Lower data rates take more airtime to transmit and can lead to higher channel utilization. Change access point configur...	
Neighboring access points are using the same channel.	Move access points to free channels and/or reduce channel width.	
Optimal 5GHz wireless channel plan not being used.	There are only 6 non-overlapping channels available when using 80MHz channel widths. Switch to 40MHz channels to avoid c...	
WiFi management traffic overhead is too high	Remove legacy access points advertising beacons at 1 and 2 Mbps or	

Total: 9 issue(s) ● Critical: 0 ● Major: 5 ● Minor: 4

This will bring up a historical graph that shows all issues.





Enhanced Test Details

Network test results now include additional timing details captured during the test run. These include:

- RADIUS Response Time
- DHCP Response Time
- Per-host DNS Resolution Times
- DHCP Lease Information

General

Test Type: Ping
Start Time: 2019-06-28 09:21:02
End Time: 2019-06-28 09:21:10
Duration: 8.037 seconds

Wireless Connection

Duration: 4.991 seconds
Result: **SUCCESS**
SSID: Aerohive-enterprise
BSSID: c4:13:e2:21:25:a5
Channel: 40
RSSI: -18
RADIUS Response Time: 54 milliseconds

DHCP

Server Response Time: 39 milliseconds
IP Address: 10.0.3.100
Subnet Mask: 255.255.255.0
Gateway: 10.0.3.1
DNS Server: 10.0.1.2
8.8.8.8
Lease Duration: 1 hour

Auto-Create Network Tests

The MySSID workflow has been enhanced to automatically create scheduled network tests (both wired and wireless) for a sensor. This allows tests to start running as soon as the sensor is configured. The Auto-create feature is available before MySSIDs have been confirmed and credentials have been added for at least one SSID.



Confirm the SSID names shown below are the SSIDs you wish to monitor. You may add additional networks from the "Detected SSIDs" box above. Hidden networks can be added using the "Manual Entry" box. We also suggest configuring credentials for your SSID Profiles at this time so they are available for use in Network Tests. Click "Confirm" when complete.

SSID Profiles

SSID ^	Security Type	Configured	
Aerohive-enterprise	WPA2 Enterprise		
Aerohive-portal	WPA2 Personal		
Aerohive-psk	WPA/WPA2 Personal		

Confirm

Create Network Tests

iPerf Version 3 Support

The iPerf network throughput test now supports using either version 3 or 2 as an option when running the test. The version to be used is selectable per test - allowing a sensor to test using both versions.

Test Profile Settings

Enable:

Type: iPerf

Profile Name: iPerf3 Wireless Test

Interface: Wireless

iPerf Server: Use my own server

SSID: Aerohive-enterprise

If your SSID is not listed in the dropdown menu, it must first be configured. Please click [here](#) to configure additional SSIDs. Sensors using WiFi for network connectivity cannot be used for Network Tests.

Apply test profile to the following sensors:

- All
- Lab

Test Parameters

iPerf version: 3

Server (Hostname/IP): 10.0.1.99

Duration time: 20 seconds

Minimum upload speed: Mbps

Minimum download speed: Mbps

Tip:
When using your own iPerf server, Please use iPerf Version 2.0.5

Server Command:
iperf -s

Client Command (used by WyeBot Sensor):
iperf -c *server ip* -r



Enhanced Automatic Client and AP Name Discovery

Putting a sensor on a VLAN trunk port with access to wireless and wired VLANs will allow it to discover client names from DHCP. The sensor can also automatically discover AP names from DHCP for the following vendors:

- Aerohive
- Meraki
- Ubiquiti

New Signatures and Bug Fixes

v2.2 includes new signatures designed to detect wireless network config problems and client connectivity issues. As with all WyeBot software releases, bug fixes have been included as well as customer Wishlist requests.