

SUPPORTING THE DIGITAL CLASSROOM WITH PROACTIVE WI-FI MONITORING

SOLUTION OVERVIEW K – 12 EDUCATION

The digital technologies in our schools provide new and unique opportunities to enhance teaching and learning. But to engage our students and link with other teachers we need fast, reliable Wi-Fi and system to monitor and ensure great, productive experiences.



Wi-Fi networks are often asked to provide reliable connectivity and high levels of performance for classroom lessons, group collaboration and other activities listed below that affect the learning experience. This is where 7SIGNAL can help.

As the Wi-Fi Performance Company, our mission is to help you identify issues before they result in a negative review on social media, phone call, trouble ticket or site visit. Our discrete and continuous Wi-Fi monitoring measures the quality of Wi-Fi experiences from the end-user's point of view.

Value to Your Organization

Rather than a set of tools that find and fix Wi-Fi issues at a point in time, 7SIGNAL provides a comprehensive system for continually monitoring the performance of Wi-Fi networks and wireless experiences across all your facilities.

API integration to market leading monitoring systems puts 7SIGNAL Wi-Fi performance alerts into existing IT triaging workflows. With alerts and notifications indicating poor performance, you can address Wi-Fi issues proactively before people notice or complain. In addition, you can avoid those “drop-everything” moments when connectivity and throughput disrupt the enjoyment of the event your guests are paying to experience.

Products

Patented Wi-Fi sensors called **Sapphire Eyes™** act like high performance clients and benchmark the performance in locations with around-the-clock user experience testing and passive scanning of the 2.4 and 5 GHz frequency bands.

Sapphire Eye Capabilities

Active Tests	Throughput, packet loss, latency, jitter, radio association, authentication, IP and DNS services
Passive Tests	Beacon availability, airtime utilization, channel utilization, data rate utilization, spectrum analysis, packet capture
APs Measured	<ul style="list-style-type: none">• One Sapphire Eye 2100 measures 4 to 8 APs based on RSSI• One Sapphire Eye 500 measures 1 to 3 APs based on RSSI
Radio Specs	802.11ac Wave 1 3x3:3

7SIGNAL's **Mobile Eye™** software crowdsources Wi-Fi performance data at pre-defined intervals from wireless devices on the network. Smartphones, tablets and laptops running Windows, macOS, iOS and Android operating systems execute discrete Wi-Fi performance tests in the background against test endpoints you strategically place in your environment, at a periodic interval you define.

WHY 7SIGNAL

- Enhance the Wi-Fi experience by ensuring students and teachers are connected at the speeds they expect
- Proactive alerts allow you correct issues before students notice or complain
- Quickly identify if the performance issues experienced are Wi-Fi related or not
- Find and fix remote Wi-Fi issues without the need for walkaround tools
- Wi-Fi performance testing is discrete, at pre-defined intervals

How It's Different

Unlike your Wireless LAN vendor, 7SIGNAL provides visibility of the Wi-Fi experience from the end-user's point of view. 7SIGNAL software “lives on the edge”, on client devices, where the wireless experience matters most.