

# SUPPORTING THE DIGITAL CLASSROOM WITH PROACTIVE WI-FI MONITORING



**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 SYSTEMS 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 leader in wireless experience monitoring, 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. caregivers and better outcomes for patients.

## OUR PRODUCTS

**7SIGNAL Sensors** Patented Wi-Fi sensors 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.

### 7SIGNAL SENSOR 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	One 7S6300 Sensor measures 4 to 6 APs based on RSSI
Radio Specs	802.11ax Wave 2 4x4:4

**7SIGNAL Agents** crowdsource Wi-Fi performance data at pre-defined intervals from wireless devices on the network. Smartphones, tablets and laptops running Windows, macOS, Linux, 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 virtual and traditional 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
- Monitor remote Wi-Fi issues without the need for workaround 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.

