Nile NSE 1000 Wireless Sensor

OVERVIEW

As a key component of the Nile Service Block, the NSE 1000 is an integral part of the Nile Access Service. Used in conjunction with Nile virtual sensors located within Nile elements, the physical sensors are strategically placed throughout Nile indoor Wi-Fi environments.

The sensors continuously collect and transmit RF data against DHCP, RADIUS, Internet, DNS, and applications. The data is sent to the Nile cloud for real-time analysis to identify any issues that can cause end-to-end service interruptions within the Nile network.

The NSE 1000 helps deliver the industry's first performance guarantee for coverage, capacity, and availability for campus and branch local area network (LAN) connectivity.

EASY INSTALLATION

The physical sensors are strategically plugged into wall power outlets throughout a building where wireless is deployed. The installer activates them using a mobile application, making deployment easy. There is no customer setup or configuration required.

AUTOMATED CONNECTIVITY

Nile Sensors are programmed to identify and connect to a correct customer's Nile APs. This is important as Nile may be deployed in two geographically co-located customer environments within RF range.

SECURITY

The sensors are designed for tamper-proof operation and come preinstalled with a Trusted Platform Module (TPM) certificate for secure device identification and 802.1X authentication.

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SPECIFICATIONS

Hardware Model	
	NSE 1000
Wi-Fi Radio Specifications	
	Indoor, Dual-radio; • 5GHz radio, 802.11ac 2x2 MIMO • 2.4Ghz radio 802.11ac 2x2 MIMO • Station-mode capable
WLAN Radios	
5GHz Radio	2x2 MU-MIMO Capable; DL-MU-MIMO, UL-MU-MIMO, DL-OFDMA, UL-OFDMA capable
2.4GHz Radio	2x2 MU-MIMO Capable; DL-MU-MIMO, UL-MU-MIMO, DL-OFDMA, UL-OFDMA capable
Supported Frequency Bands, Channels, DFS (country-specific restrictions apply)	2.400-2.4835GHz 5.150-5.250GHz 5.250-5.350GHz 5.470-5.725GHz 5.725-5.850GHz
Transmit power	2.4GHz radio – Max 18dBm (18dBm EIRP), Min 0dBM 5GHz radio – Max 18dBm (18dBM EIRP), Min 0dBm
Power Sources, power consumption	
	AC Power: 100-240VAC Direct Plug-in Operating Power – 7W at full load

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Mechanical specifications, Enclosure, LEDs, BT/BLT	
	Direct insertion mounting into AC wall power outlet Indoor mechanical design Shock and vibration-resistant Plenum rated for use in air-handling specs Dimensions: 4.7." x 3.9" x 2.1" (120mm x 98mm x 54mm) Weight: 0.68 lbs (0.31 kg)
Mounting	Direct insertion mounting into AC wall power outlet
Environment/Operation Conditions	
Operating Temperature	0°C to 45°C
Operating Humidity	5 to 95% Relative Humidity, non-condensing ETS 300 019 class 3.2 Environments
Storage and Transportation Conditions	--40C to +70C; Humidity 5% to 93% non-condensing ETS 300 019 classes 1.2 and 2.3 environments
MBTF	1,077,401 hrs at 77°F (25°C)
Regulatory Compliance	
	Meets required Regulatory Compliance standards applicable to similar products: FCC/IC/CE UL/IEC/EN 60950 UL2043 plenum rating Bluetooth SIG

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