QuickSpecs

Overview

Cape Networks Solution

With today's reliance on Wi-Fi for SaaS Enterprise and IoT applications, IT departments are facing new challenges to deliver the best user and client experience possible. To provide a consistent level of performance, the Cape Networks Solution enables IT to proactively simulate real-world user and client experiences. It continuously tests network and connectivity performance in critical, high-value locations like office spaces, meeting areas and similar types of public venues.

Customizable test scripts and easy to deploy sensors help to ensure any wireless and wired agnostic network can handle the influx of mobile and IoT devices – while delivering the app responsiveness needed for worry free access. In addition, this allows IT to get in front of service issues before they occur.

Unique features

- Simple to use one-glance Wi-Fi app-performance dashboard and diagnostics
- Vendor-agnostic sensor with Wi-Fi, Ethernet and mobile backup connections
- Tests for Wi-Fi, LAN, DHCP, DNS, authentication, captive portals, cloud apps, and more
- Dashboard access using Chrome and Safari with diagnostics views
- Customizable thresholds for alert notification
- Alert integration with, email, SMS, Slack and PagerDuty
- Scalable to any number of sensors

How it works

The Cape Networks Solution includes simple to deploy sensors, cloud-based data processing and an easy to learn web-based administrative dashboard that can be accessed from anywhere using either Chrome or Safari. It's ideal for any organization and IT team tasked with delivering the best possible network experience with their user's connectivity and app performance in mind.

The Sensor

The Cape Networks sensors can be placed within any high-density area where users or IoT devices are located to reduce the time to identify and resolve app responsiveness issues. The sensor is placed at the same height where user's devices are placed or held, to run accurate simulated tests over Wi-Fi. Wired connections are also supported.

Tests can be set up for LAN and WLAN access, DHCP, DNS, authentication, captive portal response, cloud apps availability and more. Installation of the sensor, even in extremely remote locations is easy due to built-in out-of-band cellular connectivity. This reduces the time and effort normally required to go on-site, diagnose a problem and put a resolution into action.

Hewlett Packard Enterprise

Overview

Figure 1: Cape Networks sensor

Configuration and visibility

The cloud-based data processing engine provides a robust and scalable model that allows IT to centrally configure and run Wi-Fi and wired tests from anywhere. Pre-configured templates or custom defined tests can monitor the most important apps and services. It can automatically ping a server to confirm responsiveness, or see how Dropbox is performing before users encounter a problem.

The Cape Networks web-based dashboard is designed with simplicity and one-glance visibility in mind. It changes how an assurance dashboard should work. A unique, five-column traffic light model easily lets you see when things are working great and when they're not.

The status of each location, SSID, service and app being tested are highlighted under each of the traffic light icons. This provides IT a good understanding of overall user experience status, Wi-Fi connectivity and quality, core network services responsiveness, and the reachability of internal and external services. Smart notifications help keep you informed when you're on the run.

Figure 2: Cape Networks Solution web-based dashboard

Configuration

Ordering information

The optional unlimited cellular subscription provides customers with additional cellular service beyond the 5 MB per month allotted via the Cape Networks cloud/dashboard subscription. This optional subscription is recommended for locations when the celluar connection is needed to consistently send packet captures from the sensor to the cloud.

Deployment Guidelines

Multiple sensors can be placed within an environment to monitor performance within different areas. This number is dependent on many factors, including the density of both the end-users and APs. Guidance:

- One sensor for every five APs in a campus environment (i.e. Hi-Tech office space)
- One sensor per branch site (i.e. Retail store)
- One sensor per every 10 APs in a large public venue (i.e. Stadium or conference space)

Description	Part Number
Cape Sensor (US)	Q9X64A
Cape 1yr Subscription + 5 MB Cellular Data E-STU	Q9X69AAE
Cape 3yr Subscription + 5 MB Cellular Data E-STU	Q9X70AAE
Cape 5yr Subscription + 5 MB Cellular Data E-STU	Q9X71AAE
Cape 1yr Cellular Data Unlimited Subscription E-STU	Q9X72AAE
Cape 3yr Cellular Data Unlimited Subscription E-STU	Q9X73AAE
Cape 5yr Cellular Data Unlimited Subscription E-STU	Q9X74AAE

Cape Networks is now part of Aruba, a Hewlett Packard Enterprise company.

Technical Specifications

Specifications

Sensor Operating Mode

- Emulates a single client for wireless and wired testing
- Supports testing of multiple SSIDs

Electronic Security

- SSL encryption

Supported Interfaces

- 802.11 a/b/g/n dual-band Wi-Fi (2.4 & 5GHz) with dual-stream MIMO
- Gigabit Ethernet 10/100/1000
- 3G (HSPA+) connection for onboarding with fully managed SIM and service

Power

- Power over Ethernet (PoE) – 802.3af
- AC adapter
- Power failover – array of supercapacitors for short-term connectivity

Mounting

- Wall and ceiling mounting bracket with screw-in option or adhesive backing for quick install (no-residue 3M Command Strips)
- Security fins to prevent the removal of sensor from mounting bracket
  NOTE: Recommend mounting near users, on a wall or pillar ±4-5 feet (±1.5m) off the ground

Mechanical

- Dimensions/weight (sensor, excluding mounting accessories):
    - 152 mm x 152 mm x 40 mm (W x D x H), 6 in x 6 in x 1.6 in
    - 318 grams, 11.2 ounces

Environmental

- Operating:
    - Temperature: +14° F to +113° F (-10° C to +45° C)
    - Humidity: 5% to 93% non-condensing
- Storage and transportation:
    - Temperature: -40° F to +158° F (-40° C to +70° C)

Reliability

- MTBF: 640khrs (73yrs) at +25° C operating temperature

Regulatory

- FCC ID: PPD-AR5B22
- FCC ID: QISMU609
  NOTE: For more country-specific regulatory information and approvals, please see your Aruba representative.

Technical Specifications

Warranty

- Aruba Hardware Limited Warranty (90 days)

Summary of Changes

Date	Version History	Action	Description of Change
04-Jun-2018	Version 1	Created	Document creation.

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