High Energy Carnaval Connects a Crowd with High Capacity and Coverage Wi-Fi

"We created a secured and reliable Wi-Fi network, which can be deployed in a matter of few days, providing excellent navigation experience to the VIP area customers during the parade days."

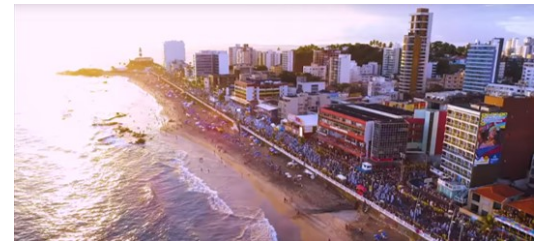– Mauricio Carvalho, Operations Manager at Camarote Salvador

Overview

www.camarotesalvador.com.br

Camarote Salvador is a private booth area located across the Carnival parade in Salvador city in Bahia, which provides to VIP services to over 5,000 people per day in a 10,000 square meter area.

People at events want to be able to connect with their friends and upload/download photos and videos - and there is no time to wait. Wi-Fi coverage and capacity must work all through the party that goes all day. The thousands of guests who connect to the WiFi network are the people who purchase premium credentials to enter the VIP area, and they expect satisfaction.

Camarote Salvador has tried in the past to deploy different technologies to provide Wi-Fi coverage in their booth area – each one came up short in different ways including: poor performance, incorrect design and deployment, and lack of coverage. They were not happy with the overall cost/benefit of the previous technologies, and needed a new solution that provided:
- large number of simultaneous connection capacity
- coverage across the entire area
- mitigation of high co-channel and adjacent-channel interference
- real time network analytics and centralized management
- rapid installation and dismantling of equipment

Solution

16 cnPilot™ e410 indoor and 6 cnPilot e500 outdoor enterprise 802.11ac access points were used to provide coverage, along with the cnMaestro™ management system. In conjunction with the cambium infrastructure, cloud4wi's Volare and Spaces analytics (www.cloud4wi.com) were used to provide authentication and collect business analytics, including people counting.

Because of zero-touch provisioning, and self-optimizing features, cnPilot installation took only 3 days to be fully completed by partners **BR Defender** and **T2H**, and access to the location and readiness of infrastructure was made available right before the event start date. Access to the Wi-Fi network was controlled via secured passwords.

cnPilot e410
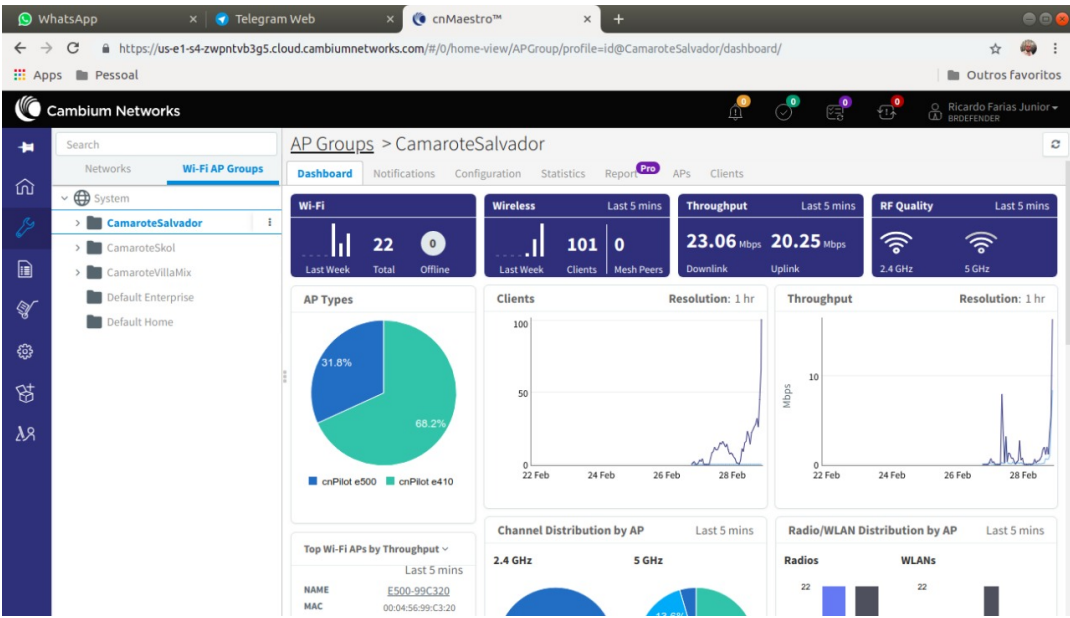- 802.11ac Wave 2
  2.4 GHz
- 2x2 MIMO

cnPilot e500
- Supports up to 256 clients
- 2.4 & 5 GHz
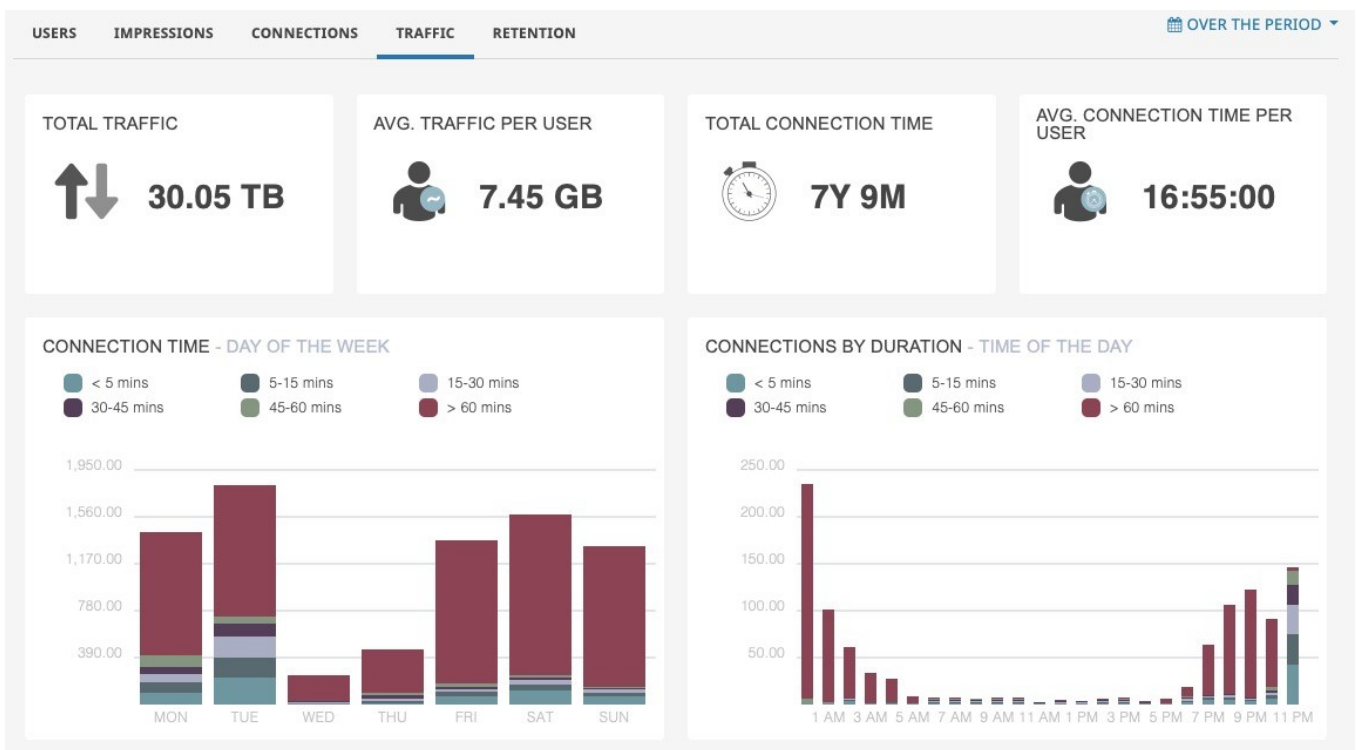- Supports 16 SSIDs

THE cn**Pilot**™ DIFFERENCE

- Installed in 3 days

- Indoor Wi-Fi in pavilion

- Outdoor Wi-Fi

- 1,700 simultaneous users at peak

- 30 Tbytes of data over event

Results

Over the six days of the event the system averaged 940 people per day, and ~1,700 people per day in peak hours, connecting over 30 TByte of data. Each user consumed an average of 7.45 Gbyte. During the 7-day event, more than 6,500 VIP guests used the Wi-Fi services at Camarote Salvador (out of the 2.25M persons walking around the VIP areas).

Plans for future carnival parades include further increasing maximum simultaneous access due to the expected increase on VIP area customers – this will lead to equipment upgrade and or additional equipment to be deployed.

cnPilot exceeded expectations. Satisfied with the connectivity provided by the Cambium Networks equipment, Camarote Salvador has extended their partnership to use cnPilot technology.