ROHILL

Chuchubi

Benefits

- Islands independent communications in one unified network
- Independent private fleets
- Mixed clear, encrypted and end-to-end encrypted communications

Client overview

zenitel

Established in 1901, Zenitel is an international market leader in integrated communication on the professional market, where fast, reliable and secure communication is essential. Zenitel Caribbean is part of the worldwide Zenitel Group which is a listed company (EuroNext).

Zenitel Caribbean is present on the islands Aruba, Bonaire, Curacao, St Maarten/St Martin, Anguilla, St Eustatius and Saba with physical offices and staff on Curacao, Aruba and St Maarten.

Since 2005 Zenitel Caribbean owns and operates a mission critical TetraNode TETRA network, called ChuChubi, in the territories mentioned above with large clients like refineries, airports, taxis, public transport etc. The name ChuChubi refers to a tropical mocking bird, known in the region.
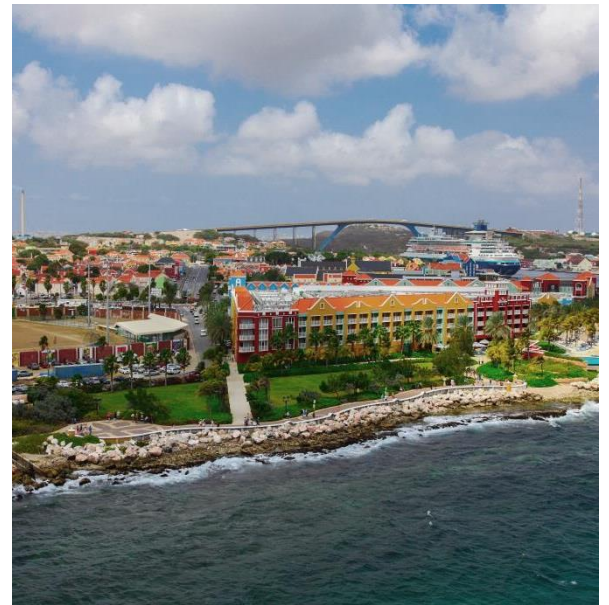
Chuchubi

Project challenge

Zenitel offers a digital radio system that connects Curaçao with Bonaire, Aruba, St Maarten, Anguilla, Saba and St Eustatius. It is a TetraNode TETRA network especially developed for professionals who have to rely on their communication equipment. The redundant network is designed and built to operate under heavy conditions, during power failures, storms, flooding and extreme high usage.

The Chuchubi network has Base Station sites on several key locations on all islands. The radios work in Trunking Mode, which means that all radios can contact each other anywhere on the island. The network has its own backup power supplies.

The sites are connected in a redundant microwave ring, leaving the network work independently and 100% managed by Zenitel. Zenitel offers round the clock support for all equipment and the network is continuously monitored to prevent outages.

Solution

A unique architecture with interconnected redundant TetraNode eXchanges on six former Netherlands Antilles islands form the heart of the network, completed with Base Station systems on every island. The Chuchubi Network today serves over 8.000 demanding customers.

Since its initial installation in 2004, the TetraNode network has been expanded to six networked redundant TetraNode eXchanges, serving a total of 32 Base Station Sites with a total of 90 TETRA carriers. Base Station sites are equipped with one to four carriers each.

Most of the islands offer gateway connectivity with telephony and some even to conventional radio channels.

Zenitel Caribbean offers additional TETRA radios, fleet management and location tracking systems.