

## Chuchubi

## Benefits



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

## Client overview



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 2004 Zenitel Caribbean owns and operates a mission critical TetraNode



TETRA network, named ChuChubi in the territories mentioned above, with large clients like emergency services, prisons, customs and coastguard etc. The name ChuChubi refers to a tropical mocking bird, known in the region for its whistling that is said to spread news and stories around the islands.



# 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 on one network, 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 redundant microwave rings, 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 and offer

mutual authentication, air interface encryption and support for End to End encrypted communications.

In TetraNode the air interface process takes place at the TETRA switching level, meaning that the lines to the Base Station systems are encrypted as well.

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.