

Reliable PDH - SAF CFM links for Cable & Wireless on Seychelles

“During the time that we have been using SAF radios, we have observed that the radio is easy to install and reliable, providing a service of almost 100% availability and flexibility.”

Kenneth Chetty
Telecommunications Engineer
Cable & Wireless Seychelles Ltd.

SAF links provide the following services for Cable & Wireless on Seychelles:

- Backhaul for GSM;
- E1 for PSTN and data
- Ethernet for Internet services

Benefits:

- Using only one radio to provide both TDM and Ethernet services;
- Cost effective solution;
- Easy to diagnose fault;
- Meets the requirements of the regional climate conditions.

- Customer:** Cable & Wireless Seychelles Ltd.
Location: Seychelles
Industry: GSM & ISP
Challenge: To make stable connections between the islands to provide customers with faultless GSM & internet services
Solution: SAF 34Mbps IDU - CFM-MP-MUX and ODU - CFM-8-LM

Cable & Wireless Seychelles Ltd. forms an integral part of the Cable & Wireless world wide group of businesses. Cable & Wireless Seychelles Ltd provides over 17,000 telephone lines and over 45,000 of mobile phones in Seychelles. There are actually 15 Remote Line Concentrators (RLC) located on the main three inhabited islands of Mahe, Praslin and La Digue. These RLCs are linked to the two main telephone exchanges by PCM cables, fibre optic and *digital microwave systems*. With a total of 30 Base Stations scattered around the three main islands, the company today provides over 90% radio coverage to its GSM mobile users.

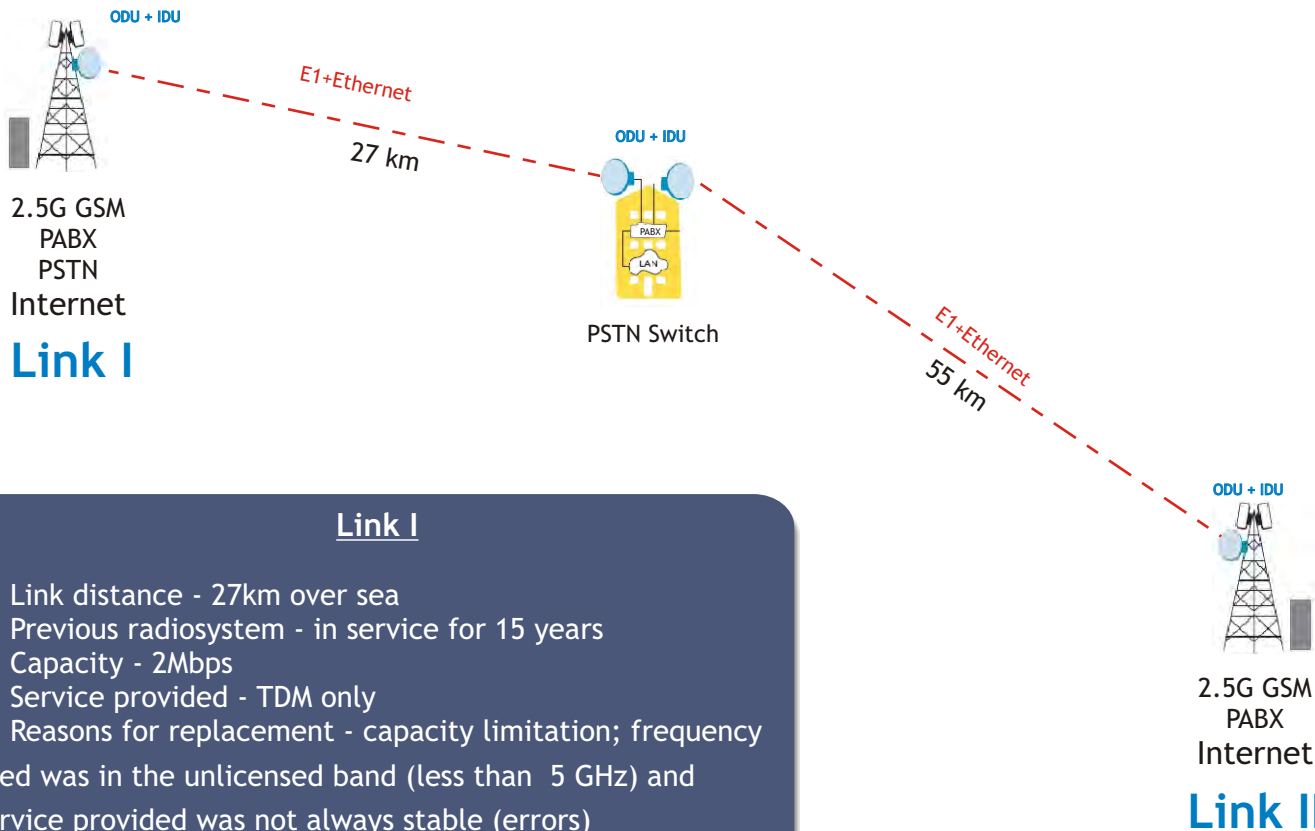
Challenge

SAF radios were used to replace two existing radio links that connected three islands of the Seychelles. The previous links did not provide the capacity needed and the frequency used was in the unlicensed band (less than 5GHz) that caused unstable services and frequent faults.

Solution

SAF Tehnika was chosen as SAF equipment provided a mix type of services and it was also a cost effective solution. As SAF was new to Cable & Wireless Seychelles, the arrangement was made to provide a trial period of 3 months. During that period C&W observed that SAF radios were stable and provided 100% availability service. After discussion of management of C&W the decision was made to purchase SAF equipment.





Link I

- Link distance - 27km over sea
- Previous radiosystem - in service for 15 years
- Capacity - 2Mbps
- Service provided - TDM only
- Reasons for replacement - capacity limitation; frequency used was in the unlicensed band (less than 5 GHz) and service provided was not always stable (errors)
- Replaced by SAF 34Mbps IDU - CFM- MP-MUX (1+1) and 8GHz ODU -CFM-8-LM
- Service being provided currently: TDM and Ethernet

Link II

- Link distance - 55km over the sea
- Previous radiosystem - in service for 18 years
- Capacity - 16Mbps
- Service provided - TDM only
- Reasons for replacement - capacity limitation and frequency used was in 3G band
- Replaced by SAF 34Mbps IDU - CFM- MP-MUX (1+1) and 8GHz ODU -CFM-8-LM
- Service being provided currently: TDM and Ethernet

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