

Digitization of the APA, Cote d'Ivoire

Hytera XPT Digital Trunking System Deployed in the Second Largest Port of Africa

User

The Autonomous Port of Abidjan (APA), Cote d'Ivoire

Market segment

Port

Project time

2016

Products

Hytera XPT Digital Trunking

RD98XS Repeater

MD78X Mobile Radio

PD68X/PD78X Portable Radio



Background >>

The Autonomous Port of Abidjan (APA) is a public institution of the Ivorian State, which jointly has administrative, industrial and commercial functions. It serves as an industrial and commercial hub, and it is also responsible for the operation, management and promotion of the Abidjan port facilities.

Located on the shores of Treichville (South Abidjan) in Côte d'Ivoire, APA is the most important port of West Africa and the second largest port in Africa after Durban. APA ranks before the Port of Lagos and the Autonomous Port of Dakar. It contributes to 90 % of the country's customs revenue and 60 % of the state's income. About 65 % of the country's industrial units operate in the port, providing jobs for 50,000 people on-site. Nearly 70 % of the Ivorian GDP comes through the port. It transits 70 % of the foreign trade of the hinterland countries (Burkina Faso, Mali, Niger, Chad, and Guinea). It plays an important role in establishing cooperation and getting integrated to the region. Large global groups are setting branches here.

Customer Demands >>

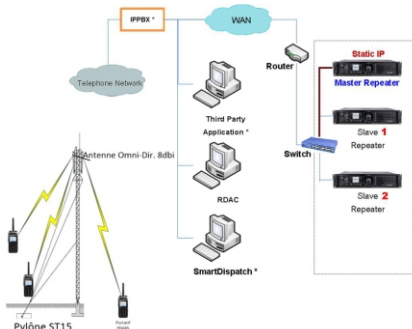
The APA already has a VHF analog network, which is supposed to be migrated to a DMR system to meet the communications needs.

APA's requirements for the installation of the VHF DMR communication system are as following:

- Migrating to digital from the existing analog network;
- Having a range of VHF digital terminals;
- Connecting its radio communication network to PSTN/PABX networks;
- Making calls (selective, group, emergency...);

Hytera XPT Digital Trunking





- Having text messaging service;
- Providing GPS data (tracking, geo-location, telemetry...);
- Having a network with high quality and security;
- Having a flexible network which can be extended easily;
- Counting radios remotely.
- Turning on and off radios remotely in case some radios are lost.

Hytera Solutions >>

This project started in January and was completed successfully in April 2016, which includes:

- Installation and programming of 350W XPT DMR RD98XS relays;
- IP network interconnection of the installed equipment (3 relays, RDAC, SMARTXPT and UMC6102 IPBX);
- Attachment of 3 8dbi VHF omni-directional antennas on the ST15 type towers;
- Attachment of 6 8dbi VHF omni-directional antenna for MD78XG at APA;
- Programming 8 portable PD68X units, 20 portable PD78XG units and 20 mobile MD78X units;
- Setting up a call group;
- Installation and configuration of the SmartXPT for the system management;
- XPT network coverage test.

Benefits >>

XPT (Extended Pseudo Trunk) is a digital mono-site trunking, scalable solution which allows users to increase the capacity by simply upgrading the current RD98XS repeater. Providing voice and data services for a larger number of users has never been such easier. Hytera XPT solution with the best two-way radio which adopts the latest digital technology meets the communication needs of this APA project.

The XPT digital system can provide signal coverage for a large area. Noise-cancellation technology is also applied in this solution. In addition, channels can be allocated automatically. Today, thanks to Hytera's XPT solution, APA becomes one of the first entities equipped with a high-end digital communication system using trunking technology, which helps improve efficiency by providing clearer voice and extended services. It can support voice and data communication workload of thousands of people with a single base station.

Voice from Customer >>

"Excellent voice quality, good network coverage and good functioning of the XPT system are what Hytera solution has."

—Mr. Alain DUBOIS, Supervisor of the Autonomous Port of Abidjan VHF Project



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