

# Extend to Expo and Beyond

## Hytera Offers TETRA Solution to Light Rail in Antalya, Turkey

**User**  
Antalya Tramway, Turkey

**Market segment**  
Light Rail

**Project time**  
2016

**Products**  
Hytera TETRA ACCESSNET-T IP System  
DIB-R5 Base Station  
PT580H Portable Radio



DIB-R5

PT580H



### Background

Being the largest Turkish city on the Mediterranean coast, Antalya attracts millions of tourists and witnesses numerous important activities every year. Right after successfully holding G20 Summit in 2015, Antalya started the preparation for the Expo in 2016.

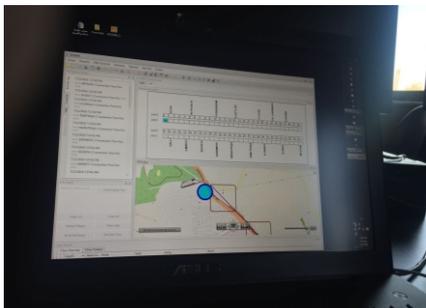
To Expo Committee, it was their priority to make travel convenient for global visitors. However, as one of the most important public transportations, the Light Rail system can only reach the city center. It was necessary and urgent to extend the line to Expo Site as well as the airport.

Antalya ULAŞIM (meaning Transportation in Turkish) was in charge of the extension-line project. Realizing the significance of communication, they required advanced and reliable wireless communication solution in a short time.

### Challenge

Apart from the tight schedule, customers faced a series of challenges.

1. Various radios were used in the old and the extension line, which made it difficult to ensure the inter-operation between the system and terminals.
2. Not only voice communication but also extensive applications (eg. customized light rail AVL application) are needed to be integrated in the same system.
3. Because of the continuous operation in the daytime, any modification of the system can be done only at night. As a result of limited set-up time, rapid and smooth replacement solution was required.
4. The extension line passed through many suburban areas, suffering from the insufficiency of city infrastructure. The lack of fiber-optic link made it extremely difficult to connect different sites, which was very important for the field test and operation on the early stage.



## Solution >>

In order to meet the demands, Hytera and Nevada Elektronik, distributor of Hytera in Turkey, proposed the state-of-art DIB-R5 TETRA Solution. Leading TETRA base stations offered stable service to various radios, while open interface allowed useful external applications for integration. Furthermore, dispatcher and voice recording system were recommended for efficient coordination and effective management. Aiming to deliver the project in time, flexible link solution was adopted.

## Benefits >>

### 1. Convenient Inter-operation

With flexible configuration in Hytera TETRA System and minor modification of the terminal setting, staffs using different radios can enjoy abundant service from Hytera network conveniently.

### 2. Open Interface and Rich Third-party Development

DIB-R5 TETRA system provides our partner with open application interface. Through this interface, customized light rail AVL system can get the GPS position from Hytera system, showing the intuitive position of each train to the staffs in ICC.

### 3. Flexible Link Solution that Saves Time

Aiming at delivering the project in time, the link problem must be solved. Therefore, a microwave link system was set up between different base stations. When the fiber-optic link was available, the temporary microwave link was replaced overnight, without interrupting the normal operation for even one second.

### 4. Efficient Dispatch and Record

Using Hytera Dispatch System, ICC staffs can easily communicate with drivers in the trains and employees in the depot area. With the Hytera Voice Recording System, all calls and messages can be stored for future traceability.

## Voice from Customer >>

*“Expo is an important event for Antalya and we try our best to complete the project of Antray (meaning Antalya Light Rail in Turkish) extension line. Regarding the wireless communication system, Hytera and Nevada have made great effort to overcome difficulties. Thanks to their hard work, the system is working well.”*

*— Aslihan, Technical Manager of Communication Department*



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