



## SUCCESS STORY BATMAN, TURKEY, September 2015

### Sector: OIL&GAS COMPANY

CCTV Backbone: BATMAN, TURKEY, September 2015

#### Requirements:

- Wireless connection of the remote facilities (oil wells and towers), located outside the city with monitoring center
- CCTV cameras surveillance with EC SYSTEM.
- Real-time CCTV video transmission from the thermal and infrared cameras to the monitoring center.
- High reliability of the links used
- Good price/quality ratio
- Possibility of future capacity and structural upgrade
- Immediate use after installation



#### Weather condition:

Batman, is a Mediterranean city in the south eastern Anatolia region of Turkey and lies on Batman and Tigris rivers. The floods usually occur between March and May, although they sometimes occur between October and November. Batman has a hot summer Mediterranean climate. Winters are cool and humid, with much precipitation and also cloudy. Summers are hot and dry with temperatures above 35 °C (95 °F). On average, Batman has a lot of sunshine.

#### Applications:

The EC SYSTEM point to multipoint and point to point microwave radios are used to connect cameras and transmit the video to the monitoring center.

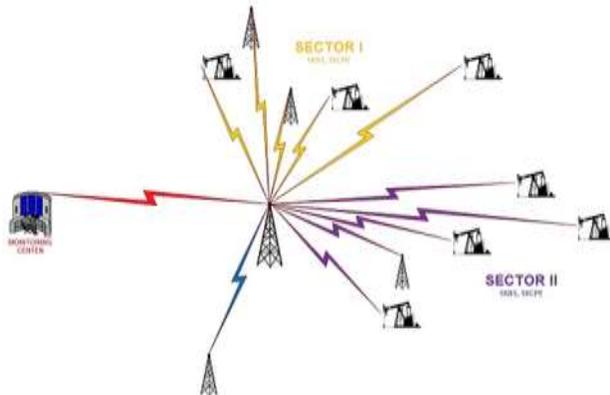
The EC SYSTEM microwave radio is ideal for such type of application like CCTV and other types of video surveillance to provide the real-time monitoring of the remote facilities and keep the property safe and prevent any kind of damage or loss.

#### Solution:

We used EC SYSTEM point to multipoint solution working in 5GHz bands. The base stations were chose with capacity 300 Mbps and customer premise equipment (CPEs) with capacity 50 Mbps. The installation



was made in cooperation with our business partner, an installation company in Turkey.



## NETWORK ARCHITECTURE CTV BACBONE ARCHITECTURE

### Upgrade possibilities:

As BTS models are able to connect to as many CPEs as needed, in case of expanding to more mining sites is possible just to add the corresponding number of CPEs.

The transmission capacity of „S5“ models can be upgraded anytime up to 300 Mbps by purchasing software license with no need of additional equipment.

### Result:

With growing energy consumption, safe ways of its production are vital POINT TO MULTIPOINT EC SYSTEM.

The control and monitoring of wells is an essential part of safe energy production.

### Next steps:

In the future, there will be expanding done by adding more CPEs to the current structure and adding a 3rd sector with 1 base point and several CPEs.

