

Hytera PoC Case Study Album




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What is PoC?

Push-to-talk over cellular (PoC) technology enables subscribers to make one-to-many calls to different groups of people at the same time over a mobile operator's network. One person can be in continuous half-duplex PTT communication with one or more active call groups with a single push of a physical button or touch screen.

There is no need for the caller to dial a phone number. The connection is made almost instantly providing a low latency to rival private PTT calls on Professional Mobile Radio (PMR) networks, also known as Land Mobile Radio (LMR). Unlike most PMR networks (unless they are national networks) subscribers also benefit from an almost unlimited coverage range as they can talk to anyone within the mobile network's national coverage footprint

Who uses PoC?

The kinds of industries which use PoC services include transportation and logistics, retail, security, energy and utilities, construction, councils and local government organisations, hospitality, manufacturing, and others. PoC provides long distance communications with a low start-up cost.

PoC is therefore particularly useful for businesses needing to communicate across widely dispersed sites or with mobile work forces, such as logistics firms, travelling long distances not just nationally but also internationally. It also provides a cost-effective solution for smaller organisations such as retail outlets or hospitality concerns for whom a PMR solution might be more than is required or too high an investment.

POC benefits

 Free from the limitation of frequency resource

 Reduce the investment for deploying network

 Flexible organizational management

 Large capacity of group and system

 Increase mobility of workforce

 Powerful and versatile data functionality



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Hytera PoC Solution Boosts Efficiency at Kazakhstan Gold Mine



User
JSC AK Altynalmas, Kazakhstan

Market segment
Energy

Project time
2019

Products
PNC380
PNC550
Hytalk



Introduction >>

Hytera's Hytalk Push-to-Talk over Cellular (PoC) platform and terminals have enabled Kazakhstan mining company JSC AK Altynalmas to upgrade its communications system with a digital multimedia solution supporting voice, video and data.

Background >>

JSC AK Altynalmas is one of the best known gold producers in the Republic of Kazakhstan. It undertakes geological exploration and gold ore extraction using both deep mining and open cast methods. It also carries out smelting and processing operations to produce 'Doré' gold, a semi-pure alloy of gold and silver. Doré gold is then transported to a refinery for further purification.

The company owns nine deposits in the Akbakai region in the Zhambyl area of Kazakhstan, along with the Pustynnoye deposit and the Karyernyi site in the Karaganda area. The company employs 2,000 highly qualified engineers and technicians and deploys more than 60 mining equipment units. It produces approximately 149,000 ounces of gold per year.

The Challenge >>

Some of the gold mines reach depths of 500 meters underground. It is a harsh and difficult environment to operate in and there is no public communications network coverage available. JSC AK Altynalmas has deployed a company intranet using WiFi. An analogue two-way radio network was also installed, but it can only be used for voice services, so the company wanted a more modern digital solution that could handle data as well.



PNC380

PNC550





Solution >>

Hytera worked with a local agent to come up with a solution that would provide the company with a multi-media communications network service. It was suggested that Hytera's new Hytalk Push-to-Talk over Cellular (PoC) platform could be used. The server for the PoC platform was implemented using the existing intranet WiFi network.

The prototype was trialled for three months after which JSC AK Altynalmas declared it was "very satisfied" with the performance of the platform and the PoC terminals provided by Hytera. It ordered a PoC platform and more terminals for a large-scale trial. JSC AK Altynalmas plans to continue expanding the capacity of the platform in 2020.

Results >>

Thanks to the efforts of the Hytera team, the intranet WiFi can now meet the demands for a public network supporting the Hytera solution. The mining staff are using Hytera PNC380 and PNC550 PoC devices. The PNC380 adopts the form factor of a compact two-way radio with display screen and full keypad. The PNC550 adopts a cellular smartphone form factor with full 5-inch touchscreen. Both enable PTT group and individual voice calls. Hytera noise cancelling technology enables improved audio to cope with the noisy mining environment.

The devices offer 2G, 3G, 4G and Wi-Fi services. Cameras enable live video streaming and the devices support positioning services using GPS, GLONASS, and BDS in combination, together with the assisted GPS technology. The PNC380 is IP67 rated and the PNC550 is IP68 rated for dust and water resistance. Both meet MIL-STD-810G standards for shock, drop and vibration resistance.

The Hytalk dispatch platform enables the command and control centre to be in constant communication with staff via their PoC terminals and to carry out a variety of functions remotely. An orange emergency button on the top of the radio enables staff to send an emergency call to a dispatcher or supervisor in case of an emergency, thus boosting worker safety. Hytalk can be easily adapted to support future large screen terminals thereby providing the customer with a flexible, future-proof solution.

Benefits >>

The Hytera PoC solution helps customers to save costs on network construction, improve the efficiency of communications and meet their demands. The Hytalk platform and terminals can be used for a long time and the maintenance cost is very low. Different terminals can be assigned to leaders and employees at different positions to meet different needs. It also greatly improves the communication efficiency between the command center and the front-line staff.

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Hytera PoC Technology Delivers Enhanced Safety and Video Functionality to Power Generation Company in Turkey

User
Power Generation Company in Turkey

Market segment
Energy

Project time
2019

Products
VM780 bodycam
PNC550 PoC terminal



Introduction >>

Hytera supplied its PoC technology, including devices and bodycams, to deliver instant PTT voice and real-time video streaming for front-line maintenance and headquarters staff at Turkish power generation company.

Background >>

This power generation company is now the biggest private sector power supply company in Turkey with around 3,600 MW of installed capacity. The company distributes its electricity to 21 million people in 21 provinces. It is also involved in the trading of electricity and natural gas and generation of steam.

The Challenge >>

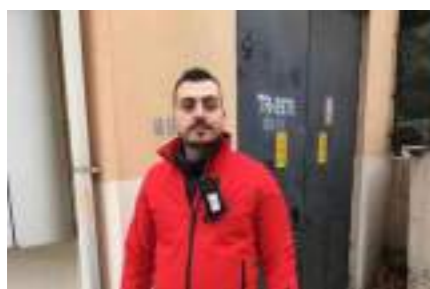
The power generation company's power plants, power transmission infrastructure and other facilities are dispersed across Turkey. Ensuring safe and reliable communications between the different sites and teams spread around the country is critically important. The front-line maintenance personnel urgently need reliable voice and video communication systems to keep in contact with different types of teams in the field and to liaise with headquarters.



PNC550

PNC380





Its facilities are often located in harsh environments, so the working conditions are often challenging for personnel. Staff, therefore, need sturdy, dust- and water-resistant smart radio terminals to ensure reliable communications and to help protect them if they get into trouble.

Working in the energy sector is a high-risk occupation. In order to ensure the safety of front-line personnel, the company wanted to deploy an on-site video solution during maintenance work, which was capable of streaming video images back to headquarters in real time. The video solution was also needed to enable managers at headquarters to conduct real-time remote guidance and to hold multi-party meetings with front-line personnel whenever necessary.

The Solution >>

Hytera's smart Push-to-Talk over Cellular (PoC) technology was chosen as the solution. PoC provides strong mobile communications using commercial mobile operator broadband networks. The choice of PoC meant the power generation company could access a much wider area network than if it had chosen a land mobile radio (LMR) solution and it saved money as it did not have to deploy its own base stations and other LMR network infrastructure.

Two types of Hytera devices have been deployed. Front-line maintenance staff have been issued with Hytera's top-of-the-range VM780 body worn cameras (bodycams). The VM780 has a small, slim, lightweight and portable design suitable for front-line maintenance personnel to use.

As well as integrating a body camera with a remote speaker microphone to provide video dispatch and real-time video streaming over 3G/4G/Wi-Fi, it also doubles as a PoC device, so users can make push-to-talk (PTT) voice calls and initiate an emergency alarm in mission critical conditions.

The device features a 216° rotatable camera, 1080p high definition image and video capture. The VM780 also supports AES256 advanced encryption technology to protect all the captured evidence in local storage or during transmission.

Headquarters staff were issued with Hytera's PNC550 smart PoC terminal.

The device adopts a smartphone form factor with a full 5-inch multi-touch screen and IP68 rated and has a 1.2m drop-proof design.

The Results >>

The choice of Hytera's versatile and flexible PoC technology helped the power generation company reduce the cost of network construction, as PoC operates over existing public mobile network operator infrastructure. The PoC solution provides safe, encrypted communications and a reliable, highly available network.

The PoC solution has helped improve daily work efficiency in the field and at the company's headquarters. The PNC550 and VM780 help keep front-line maintenance staff safe by providing instant PTT communications and supporting additional safety measures such as Man Down, Lone Workers and GPS location-based services.

Hytera entered the Turkish market in 2006 and is now widely recognized by clients in many different industries as a highly reliable provider of professional communications solutions, including the energy sector. Hytera was also able to customize its solution and add industry specific apps to greatly improve the customer experience and user satisfaction.



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Hytera improves efficiency and safety of electricity meter readings and repairs in Turkey

Client
Dicle Elektrik Dağıtım A.Ş. (DEDAŞ)

Industry
Electricity Distribution

Project time
2020-2021

Products
PNC550 LITE
PNC550



Introduction >>

Hytera's PNC550 PoC terminal has enabled Turkish electricity distributor DEDAŞ to overcome coverage issues, reduce device and service costs, and greatly improve the efficiency of meter readings thanks to a bespoke smart meter reading app.

The Background >>

Dicle Electricity Distribution (Dicle Elektrik Dağıtım A.Ş.), or DEDAŞ, is an electricity distribution system operator in southwestern Turkey. The region it operates in includes the cities of Diyarbakır, where the company is headquartered, and Şanlıurfa, Mardin, Siirt, Şırnak and Batman.

DEDAŞ is the second largest electricity distribution company in Turkey with around 5,500 employees. It serves more than 1.8 million subscribers across an area covering more than 60,000km². One of its key tasks is reading the electricity meters of its customers, as well as carrying out electrical maintenance and repairs.



PNC550





The Challenge >>

The ability of DEDAŞ field staff to conduct meter readings and undertake repair and maintenance of electricity infrastructure was being hampered by the poor quality of their existing communications products. This was leading to slower and poorer quality services and higher costs.

In addition, it was not always easy for staff to conduct inspections and carry out work, as equipment was sometimes hard to access making it difficult to inspect. Sometimes staff had to undertake electricity maintenance operations without first being able to properly assess the state of the equipment they were working on. This increased the chance of accidents and threats to the health and safety of the workforce.

Another difficulty was that electricity meters are usually read manually. But if the meter was in a difficult to reach location, it took inspectors longer to take the reading, as well as making it easier to tamper with the data or lose it. A further problem facing personnel was the poor mobile network coverage in places and the fact that coverage in some areas was provided by a different mobile operator, so DEDAŞ staff had problems communicating at times.

As a result of these issues, DEDAŞ wanted to update its communication devices. It was looking for a durable device with a long battery performance, replaceable battery, and with a high degree of water and dust proofing. The company also wanted to deal with a device manufacturer who had a local office in Turkey. As well as looking at device performance and price, DEDAŞ also wanted to be able to develop bespoke solutions and to be able to access customer service support whenever they needed it.

The Solution >>

DEDAŞ decided to choose Hytera's PNC550 Push-to-Talk over Cellular (PoC) terminal as the new device for its staff. More than 2,000 PNC550 and PNC550 LITE terminals were supplied.

A Hytera solution was chosen partly due to the high level of brand awareness and the company's strong reputation for reliability and robustness of its devices. Hytera also had an office in Turkey, as the customer required, and it was able to offer the right level of service quality and speed of service, as well as having the ability to provide special solutions support when needed.

The PNC550 is a smart PoC Android-based terminal, integrating smart phone and professional PTT functionality with a 5-inch multi-touch screen and 2W high fidelity speaker. The inspectors use a separate electric meter reader to take the meter reading. The data is then automatically transferred via Bluetooth to the meter reader app on the PNC550.



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Commercial



London Business Improvement District migrates to Hytera Push-to-Talk over Cellular solution

User Name

Otogar Taxi, Kemer Taxi, Güneş Hal Taxi

Date

2019

Place

London

Industry

Commercial

Products

Hytera PNC370 PoC Radio
HyTalk PoC Platform



Introduction >>

A Business Improvement District (BID) in London wanted to expand its existing traditional two-way radio communications system, but found managing its radio infrastructure and accessing repeater sites increasingly difficult. Its technology partner, Hytera dealer Audiolink Radiocommunications, suggested a Push-to-Talk over Cellular (PoC) solution instead.

Background >>

A BID is a business-led and business funded body formed to support economic growth and the aim of creating a vibrant destination for those who work, visit or live in the area. A BID is a not-for-profit company funded by an additional levy on participating businesses in the district. The BID focuses on improving the local environment by developing and implementing Green infrastructure projects. It brings businesses and police services together to enhance safety and security in the area and works to promote the area as a destination worth visiting. The BID was using a radio system featuring two repeaters installed on two high buildings to cover the area. The BID did not own the buildings, so getting permission to access the repeaters if there was an issue was sometimes a real struggle. While the radio solution was very successful, managing the infrastructure and negotiating licences from Ofcom was becoming a headache.

The Challenge >>

The BID wanted to expand the coverage area, which meant more repeaters, more sites, an external antenna installation and yet another Ofcom licence. The BID therefore decided to look at different technologies to see if there was another way forward. The BID was clear that it wanted a like-for-like solution with voice and messaging services similar to that provided by the traditional radio system. They did not require access to the Internet or back office databases. It also wanted rugged hand portable terminals that looked, felt and operated like a two-way radio, but without the drawback of having to own, operate and maintain infrastructure. But they did not want to rely on a normal consumer mobile phone solution. The BID approached its long-term technology partner Audiolink to see if it could come up with an alternative strategy.

The Solution >>

As the area had very good 3G/4G coverage, Audiolink suggested the BID look at a PoC solution. PoC provides two-way radio style services, including group, individual and emergency calling and data, such as text messaging. However, as PoC uses a mobile operator's 3G/4G network, there was no requirement to own and manage the infrastructure.

Audiolink took a strictly neutral view when it came to PoC terminals and supplied handsets from various manufacturers for the BID to trial for a few weeks. The one they liked best was the Hytera PNC370.

Staff liked the fact that the unit has the form factor of a traditional compact, handheld radio and they were impressed by the audio quality. The PNC370 is an easy to operate LTE device with dual-microphone noise suppression, which is helpful on London's busy, noisy streets. It has built-in GPS and Bluetooth and it is IP55 rated against dust and moisture ingress. APIs support third party applications and it can be managed via a web-based platform.

The BID has now equipped its mobile teams and some local shops and businesses with 130 Hytera PNC370 radios. The PoC platform is provided by PTTi, which also provides the embedded SIMs and radio services to the BID. The teams can now use the radio to make calls and send messages to alert users of any potential threat or public risk, such as a shoplifter in the area.

Audiolink provided training and also helped install a dispatch solution in the BID's control room. The dispatch solution allows controllers to deliver instant, efficient communications and respond quickly and effectively.

Dispatchers can manage users, talk groups and a list of contacts; view the status of and remotely control a radio; effectively dispatch the nearest user to an incident; record status of and remotely control a radio; record calls; and locate users and calls in real time using the online map.

The Benefits >>

The BID now has a 3G/4G voice and messaging service similar to its previous radio service, but now with no limits on the coverage area. One reason the local businesses like the solution is that they can use the built-in GPS to track the whereabouts of their staff by using the tracking software and dispatcher, thereby helping to keep staff safer.

In addition, the BID no longer has to worry about buying and maintaining its own radio infrastructure as the mobile network operator takes care of that. It also saves money as it no longer needs to acquire Ofcom licences to operate. Audiolink continues to supply ongoing support to ensure the system remains operational at all times.

Customer Testimonial >>

"We have a stable, guaranteed 3G or 4G connection, so Push-to-Talk over Cellular is absolutely the right choice for us. We no longer have a limit to radio coverage; we no longer have network infrastructure costs; we no longer have maintenance costs, or time spent thereon. However, with the dispatch solution offering features such as GPS tracking, user and talk group management, and voice dispatching and recording, we've still got access to all the Enterprise features we need. Audiolink has listened to our needs and delivered an optimal solution. We are delighted."

—HEAD OF SECURITY & BUSINESS RESILIENCE BUSINESS IMPROVEMENT DISTRICT



Hytera PNC370 PoC Radio HyTalk PoC Platform



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Hytera's PoC Solution Enhances Business Communications in Saudi Arabia

User
Max Media Communication Solutions

Market segment
Operator

Project time
2018

Products
Hytera PNC370 hand portable radio
Hytera PNC550 hand portable radio
Hytera HyTalk APP solution



PNC550

PNC370



Introduction >>

Max Media is an important partner of Hytera in the Middle East. At the end of 2018, Hytera worked with Max Media to set up and operate a Push-to-Talk over Cellular (PoC) network in Saudi Arabia. The PoC network help Max Media continue to generate profits.

Background >>

Max Media specializes in information and communication technology, e-marketing solutions such as bulk SMS services for commercial facilities, financial and government sectors and private entities. The company is STC's official business agent for medium and small enterprises. Recently, Max Media began operating a Push-to-Talk over Cellular (PoC) service using the STC mobile phone network.

The Challenge >>

Max Media provides its commercial and industrial customers with a greatly enhanced business communications service with a much wider range of applications and features.

They planned to operate a completed communications network, however, it was tough to carry forward because of the difficulty of obtaining frequency points in Saudi Arabia. Also if they provided communications service based on traditional PMR narrowband network, high costs of infrastructures and operating expenses were needed. After a comprehensive consideration, they chose Hytera PoC Solution, which provides a cost-effective alternative to land mobile radio (LMR) PTT solutions, as it requires no investment in infrastructure.

The Solution >>

Max Media chose to deploy Hytera's HyTalk APP PoC platform solution to manage and secure PoC services for its customers. HyTalk offers a PTT service, full-duplex audio and video services and IM service to meet various different communication priority requirements.

Hytera also supplied more than 5,000 hand portable terminals including the PNC370 and the PNC550. The PNC370 is a compact device that adopts the form factor of a traditional two-way radio with external stubby antenna. The PNC550 adopts a smartphone style form factor with a 5.0" HD multi-touch Gorilla Glass display and 13MP camera. It is both a smartphone and a PoC device, enabling it to support existing Android applications. It is IP68 certified for dust and moisture resistance and MIL-STD-810 G rated.

The Results >>

Max Media and Hytera continued to promote the PoC market throughout 2019 and the number of users has continued to expand. As of June 2020, the number of active users exceeded 5,000 and the daily call volume exceeded 200,000 calls. The PoC network continues to generate a profit.

The network is serving a variety of end users from different sectors and different application scenarios, supporting mega sports events, big music shows, hotels and tourism. For example, in 2018, Hytera helped its partner win the communications contract for the KAEC golf tournament in Jeddah. Also, the PoC solution is being used to provide communications services to the Ministry of Health in Saudi Arabia, where it has been deployed to support the running of the Kingdom's healthcare system. What's more, Amanco Safety & Security, one of the kingdom's leading safety and security products and solutions supplier, offers a wide variety of products to large and complex private firms and governments institutions with the assistant of Hytera PoC solution.

During the height of the 2020 COVID-19 pandemic, Max Media deployed its PTT communication equipment in Saudi Arabia's hospitals to enable safe, non-contact communications, including those run by the Saudi German Hospitals Group, which operates six multi-specialty tertiary level hospitals in the Kingdom.

Voice from Customer >>

"The Hytera national PoC (Push-to-Talk) network serves the Kingdom of Saudi Arabia well and more than 80 different companies. It is running stably with the support of the Hytera support team. Customers are satisfied with the product and functionality."

—Shihab Ali Alyemani, PTT Operations Manager, Max Media Communication Solutions



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Hytera Multi-Converge Communications Solution for Dubai Luxury Hotel, Atlantis the Palm

User
Atlantis The Palm, Dubai

Market segment
Commercial

Project time
2016-2021

Products
DMR Tier II
PT580H Plus
Z1P
PTC760
PNC550
TS-9200
Smart MDM Platform
Hytera HyTalk Application



Introduction >>

Hytera supplied a POC Solution with MDM and DMR Tier II solution with Rugged Hand portable radios at Atlantis the Palm, Dubai, a luxury hotel resort located at the apex of the Palm, helping them for enhanced coverage, greater reliability and a wider range of additional features.

Background >>

Atlantis The Palm, Dubai is a luxury hotel resort located at the apex of the Palm Jumeirah in the United Arab. It was the first resort to be built on the island and is themed on the myth of Atlantis but includes distinct Arabian elements. The hotel is redefining the concept of international luxury living. With the contemporary living spaces offering uninterrupted views of the ocean and the Dubai city skyline, guests will also be able to enjoy a variety of unique amenities including soaring private gardens with their own pools, an awe-inspiring rooftop infinity pool suspended 90 meters above The Palm, relaxing private beaches, and world-class restaurants with award-winning celebrity chefs.

The Challenge >>

The massive size and scale of the properties throws up considerable challenges when it comes to ensuring security and enabling smooth operations across the huge site. A reliable communications network is essential to efficiently coordinate the many types of activity across the Hotel, Water park, monorail & beach areas.

Atlantis the Palm at Dubai have already deployed a private Tetra communications network, which has been in use for some years. The hotel includes water park, aquarium, beach restaurants, which need different types of communication solutions. And also the interconnection is difficult since there are many communication standards over dedicated networks.



The Solution >>

Hytera provides customers with portable radios and repeaters with DMR and TETRA standards, IP repeater stations interconnection and tetra indoor coverage using TS9200 systems, and overall communication solutions. One stop solution with Multi user communication with multiple technology which includes DMR Tier II, Tetra, LTE, POC and Mobile Device Management solution. Security team using TETRA communication includes PT580H plus, Z1P slim and rugged Hand portable unit and MT680H plus for control room radios.

Water park using the Dual mode terminals PTC760 which connect the Security team for emergency and using hotel management application as well. Also, extend the indoor coverage using TS-9200.

DMR System:

The water park has its own separate radio communication system called Digital Mobile Radio (DMR).

This was installed, rugged and waterproof radios since lifeguards were constantly dropping their radios into the pools and rivers around the park resulting in a large

expense being incurred to replace them. This digital System is supported by one repeater and one antenna in the water park and the same combination in dolphin bay. Dolphin bay is a separate part of the water park dedicated to dolphins.

Although this is a DMR system as opposed to the Tetra system in the hotel, the same brand of hand radio is used.

However, the model is different from that used in the Hotel, as the PD605 used in the Water Park is very rugged and much efficient communication solution. Hytera manufacture a specific brand of radio supported by the Tetra system (Atlantis The Palm) and a different model of radio supported by the DMR System.

Hytalk POC Solution with Smart MDM:

For internal Staff needs a smart communication solution over smartphone including to handle hotel management application. So Hytera offered smart POC terminal integrating smart phone and professional Push-to talk function over WLAN & Lte.

To improve the productivity and efficiency of the hotel and are adopting Push-To-Talk over 3G/4G/Wi-Fi networks which provides instant communications with large coverage for entire hotel and including MDM (Mobile Device Management) as well, so that can easily configure and manage PNC550 POC radio. It enables batch programming, upgrade, key management, permission control, App and file push to POC radio through WLAN and LTE, at the meanwhile and enables programming the radios.

The Results >>

Leading digital platform, innovative ergonomic design, complete product lines make Hytera the best choice for Atlantis the Palm in improving management efficiency and implementing smooth business-critical communication.



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Transportation

Hytera PoC Fleet Management and Dispatching Solution Boosts Productivity of Turkish Taxi Companies

Client
Otogar Taxi, Kemer Taxi, Güneş Hal Taxi

Industry
Transportation

Project time
2019-2021

Products
Hytera PNC370 radio
Hytera PoC3000 HyTalk system



Introduction >>

Hytera's PoC3000 platform and PNC370 radios have greatly enhanced the way taxi companies in Turkey are able to communicate with and accurately locate their drivers, thereby resulting in a much better service for customers.

Background >>

Turkish taxi companies are privately operated businesses. Each taxi company employs approximately 100 people and is responsible for providing services in specific areas of a particular city. However, it is not that easy for potential passengers to call a taxi.

Taxi-hailing software apps such as Uber are not much used in Turkey due to legal restrictions and technology limitations. If someone wants to take a taxi, they have to make a phone call to the central taxi control station or go there by themselves and tell the staff that they want a taxi. The station controller informs the taxi driver by phone that a fare is waiting and the taxi driver returns to the station to pick the passengers up.

The Challenge >>

The current system has a number of challenges. If a passenger wants to order a taxicab, the controller has to notify the taxi driver by calling their mobile phone. But if the taxi driver happens to be occupied, the controller has to keep calling other drivers one at a time until he finds a driver available to accept the job.

The other main problem is the fact that controllers do not have a clear idea about the location of each taxi in the city. This makes it difficult to find the closest available taxi driver for the job and can mean passengers are unnecessarily delayed waiting for their ride.





The Solution >>

Hytera provided a Push-to-Talk over Cellular (PoC) solution to solve the communication issues facing the taxi companies. The staff in the central taxi station are equipped with Hytera PNC370 PoC radios and a dispatching system, while each taxi driver is also issued with a PNC370.

PoC provides all the advantages of private two-way radio systems, but operates over existing cellular and WLAN networks to deliver wide area coverage. PoC supports one-to-one and one-to-many group calling.

When a job comes in, the controller initiates a group call over the dispatch system, which can be heard by all the drivers, to see who is available. In-built GPS technology enables the controller to see the location of each taxi through the dispatching system and quickly assign the job to the nearest available driver.

The PoC solution has a number of advantages over mobile smartphones. For a start, the controller can group call all the taxi drivers by simply pressing the dedicated push-to-talk (PTT) button, which will initiate a call much faster than a mobile phone. Mobile phones are also restricted to one-to-one calling.

The audio quality of PoC radios is louder and clearer than mobile phones, as they feature a 2W professional speaker, which reduces audio distortion and background noise. The user interface of the PNC370 is simple and easy to use and drivers are not distracted by entertainment apps found on smartphones. The PNC370 also features a high capacity battery, which ensures drivers can continue to communicate throughout the length of a long shift.

Unlike a smartphone, the PNC370 is both rugged and durable, as it has IP55 levels of protection against dust and moisture ingress and it meets MIL-STD 810 G standards for shock, drop and vibration resistance. The PoC3000 (Hytera HyTalk) platform provides a reliable service and supports unified management, so radios can be remotely controlled from the central taxi station.

The Benefits >>

The main benefit of the Hytera PoC system is that it greatly improves the efficiency of communications between central controllers and taxi drivers. Taxi companies can now provide a much more efficient and faster service for customers and reduce passenger waiting times.

The ability to make group calls cuts the cost of one-to-one calls using smartphones. As there is no need to invest in spectrum or infrastructure, this makes PoC a very cost effective solution.

The PoC dispatch function available through the Hytera PoC3000 system and PNC370 radios means central controllers now know the exact position and status of each taxi, making their job easier and the service more efficient.

The PNC370 radio also provides enhanced safety protection for taxi drivers as they can make an emergency call at a single click of the button. Finally, Hytera's policy of providing an open API platform means that taxi companies can customize their solution.



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