



Private Internet of Things

IoT Solution from Hytera

Hytera's Private Internet of Things (P-IoT) solution provides a highly reliable and secure communication channel of low latency supporting the open LoRa standard and mobile radio standards like DMR, TETRA, and LTE.

At the IoT data center (IDC), a series of big data algorithms are used to extract and mine data values, providing customers with a complete set of data-based end-to-end intelligent services.



Key Features and Highlights

IoT Solution from Hytera

The Internet of Things (IoT) is a network consisting of physical devices sharing data over the internet or private IP networks. The choice and possibilities which devices can be used in such an IoT network is almost unlimited.

Companies from the utility and industry sectors as well as cities and municipalities are faced with the task of mastering the challenges of the digital age. With its smart IoT solution, Hytera offers the opportunity to create integrated PMR-IoT structures in order to master digitization.

Your IoT toolbox

Whether large industrial machines or smallest sensors, the Internet of Things connects everything so that all these objects can communicate and work together, fully automated and smart. Processes can thus be optimized and entire business areas can be expanded. Hytera's IoT solution and our reliable and world-proven PMR radio systems are your toolbox for the step into the future.

Maximized network utilization

Data collected by sensors can be routed via the Hytera IOT Gateway via various transmission paths. Our solution allows hybrid use of DMR and TETRA radio networks and fast data technologies like Wi-Fi, LAN and 4G-LTE.

Inherent security

Data transfer also requires security. For this purpose, our solution offers three encryption types: Encryption at the IoT node, encryption of links and end-to-end encryption.

Outstanding scalability

IoT networks can grow rapidly. If additional sensors are added, for example because other buildings have to be equipped with sensory systems, the overall IoT solution used must be scalable and flexible.

Our IoT solution is designed for this. Additional gateways can be used at any time to provide new areas with IoT connectivity.

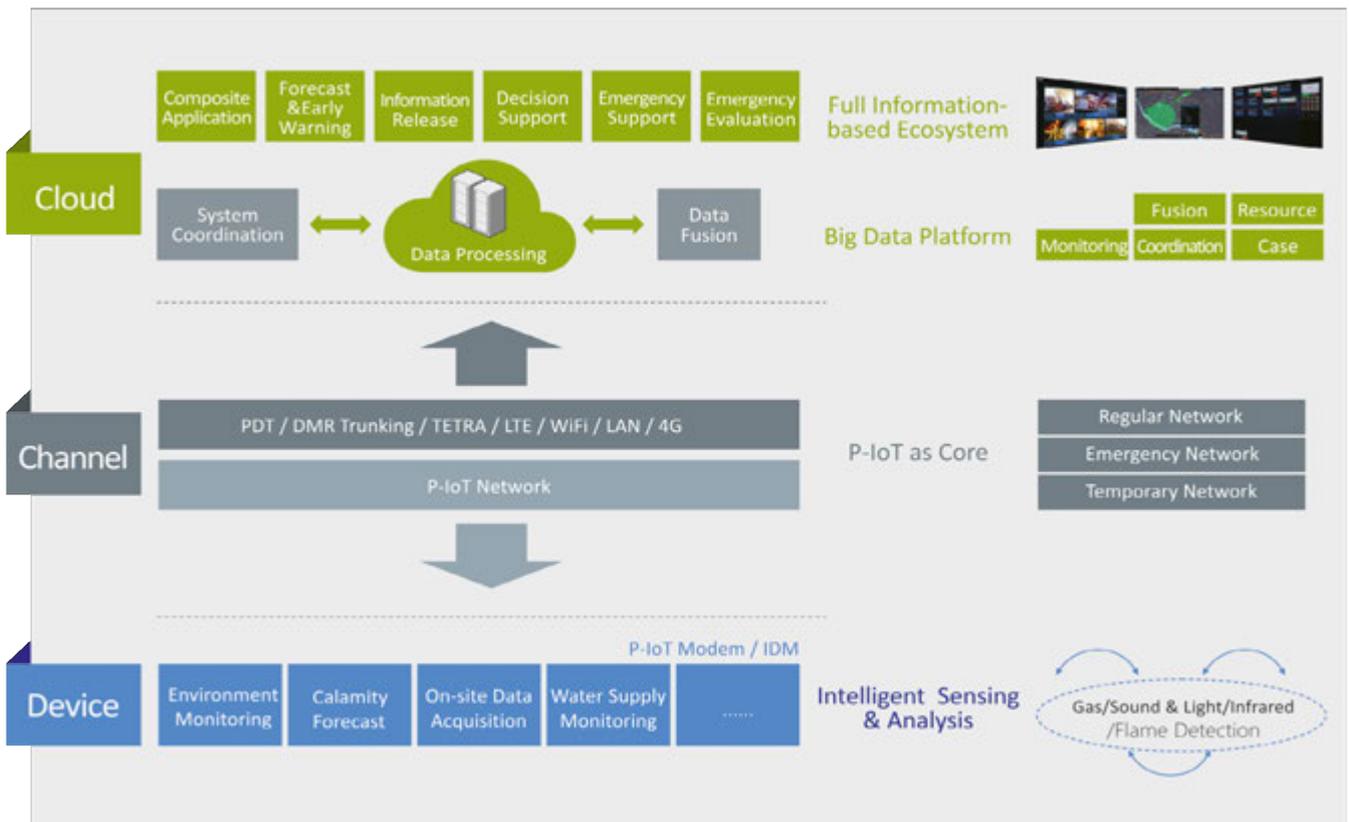


Hytera IoT Gateway





Hytera IoT Ecosystem



Smart IoT Solution Software

Web-based Service Platform (ISP)

The IoT Service Platform (ISP) is a web-based application that enables users to view, control, and administrate the P-IoT system. It features security management, device monitoring, intelligent analysis and etc.

- Monitoring of various sensors, devices, and license control
- Access to IDC to enable monitoring, statistics, forecast etc.
- Emergency-triggered alarm
- Access to video monitoring and voice dispatch

IoT Data Center (IDC)

The IoT Data Center (IDC) consists of a public gateway, a private gateway, IoT Hub, Data Hub and more. Located between the device layer and the application layer in the P-IoT system, the IDC enables data collection, data processing, storage, analysis and so on.

In addition, the IDC provides open RESTful API standard interfaces to enable upper-layer business applications.

Tuned for outstanding performance, yet easy to manage: Master the converged system and its ingenious functions by using just one tool.

Hytera IoT products

The construction kit for your IoT solution

IoT Gateway (IGW)

In IoT networks, data from sensors is transferred to a central location for analysis. In Hytera's IoT solution, this function is performed by the IoT Gateway (IGW). The IGW collects the data from sensors such as door alarms or measuring instruments and forwards them to the central evaluation centre (IDC) via a PMR radio system or broadband networks.

The collection, aggregation and transfer of the data can be configured and managed through the network management system (NMS).



IoT Data Modem (IDM)

The IoT data modem (IDM) is connected to end devices to enable them to access the P-IoT network through serial protocols such as RS232 and RS485. It features low power consumption design and supports sleep-wake up feature to save power.



IoT Link Module (ILM)

The IoT Link Module (ILM) can be directly installed in the end devices to enable them to wirelessly access the P-IoT network.



Hytera mobile radio solutions

In our IoT solution, our TETRA, DMR, and LTE radio solutions provide a channel for transmitting the IoT data to the central analysis center. Within the overall IoT solution, our radio systems and additional Wi-Fi, LAN or 4G LTE infrastructure can be used together as hybrid and/or redundant transmission paths.



Hytera LTE base station



Hytera TETRA base stations



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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