

Core Connectivity for a new ERA

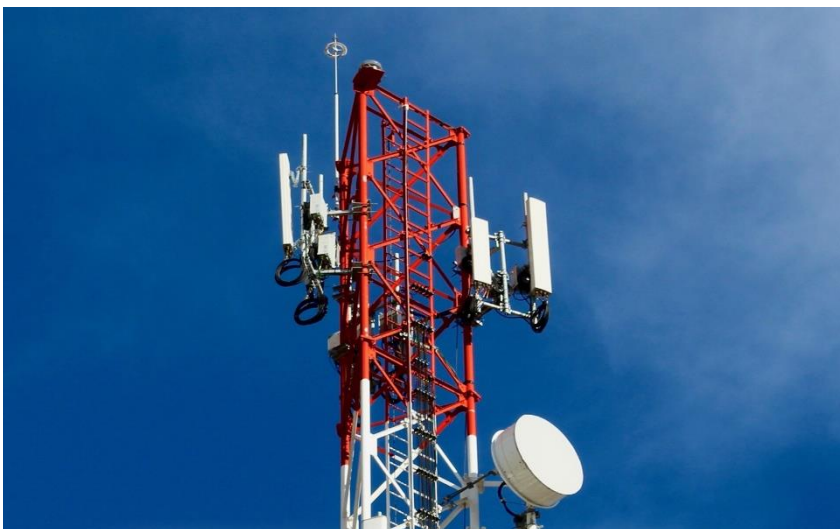
Enterprise Private Network



The Best Partner for Backbone Broadband and Enterprise Private Network

Deployment and Investment of Enterprise Private Network

The 5G Enterprise Private Network solution is designed for enterprises to have a large bandwidth, low latency, and seamless transmission with high mobility. The applying field includes factories, Science-Based Industrial Park, medical institute, logistics and also the project of police & fire department, port authority, power station, water station and emergency responding system. With different applying environments, building an enterprise private network may encounter different challenges such as the planning of the base stations and antennas, the signal interfering, the blind spot of the building and the large network demands for the operating devices. Due to the fact that the solution of Enterprise Private Network varies, the application may focus on the equipment or the device. The key of the system will be the quality of the connection, and it will be evaluated by the stability (package lost ratio) and speed (transmission rate) of the services.



When it comes to the evaluation of the 5G Enterprise Private Network system, apart from the mentioned challenges from the planning phase, the idea is to build a customized, unblocked highway for the registered vehicles only. The road will only allow the information to be transmitted internally, and it will be highly isolated to avoid the traffic jam and the security breach. That being said, building a private network may require a great investment in the early stage, and there will be continuous expenses for the maintenance. Thus, choosing a non-major brand product will be a good solution to lower the cost.

New Generation Mobile Network Architecture

The ISP established the O-RAN alliance. Differentiated from the highly integrated enclosed hardware system, they divided the system into multiple hardware layers like the Radio Unit, the Distributed Unit, the Central Unit and other layers with various interfaces and control systems. Through the opened architecture, it can reinforce the autonomy function of the system, lower the budget of the investment, speed up the development and import, and elevate the flexibility and performance.

Enterprise private networks solve problems such as network congestion and data leakage, provide enterprises with high-bandwidth, low-latency wireless access networks, and create market value and opportunities for 5G applications in the enterprise. 5G expands the scale of the network through the integration of the last mile of fiber-optic broadband. The per capita network maintenance cost burden is lower. The more network users there are, the higher the network value is. While controlling CAPEX construction costs, it can also bring more ARPU revenue, becoming a marketing method for various operators to compete to launch fixed-line integration solutions at this stage.

