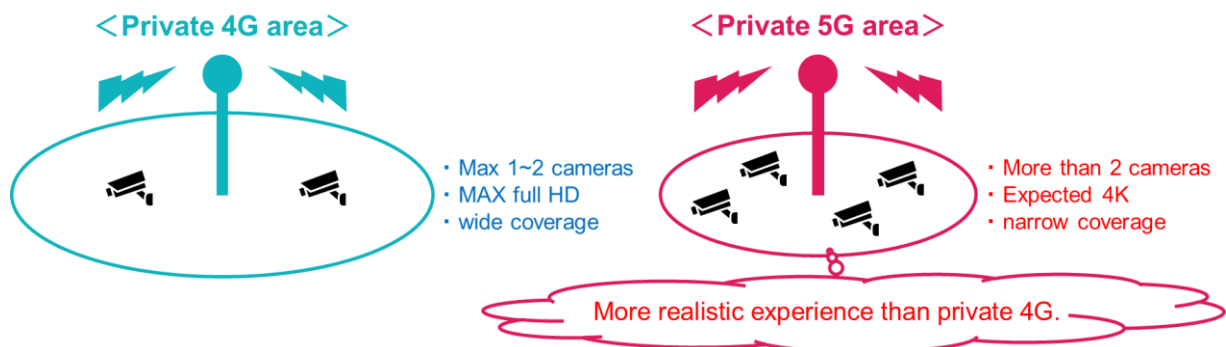


«Question»

Discuss the rationale, advantages and potential challenges in adopting a private 5G network for a power utility.

«Answer»

- ① The advantage of private 5G is that it can stably transmit large amounts of traffic such as video data captured by cameras without being affected by public transmissions. In particular, in the event of a large-scale disaster, such as an earthquake, a stable and highly reliable means of communication is required for quick recovery. In addition, videos are easier to understand and more accurate than information obtained from other sensors. By using a camera, it is possible to check and monitor the damage status of power equipment. By the way, 4G can also be built privately. However, as a result of testing with private 4G, we found that few cameras can be connected simultaneously, and it is very difficult to transmit video quality above full HD. We expect that 5G will be able to connect more cameras simultaneously, transmit 4K video data, and provide more realistic experiences than 4G.



- ② The challenge of private 5G is the high price of the product.

We can lower the prices by moving away from specialized products, and adopting commercial products and using specialized software.

As a result, general-purpose servers can be adopted, and there is a possibility that equipment prices can be significantly reduced.

In addition, by using software technology, we believe that not only will it be the prices lower, but they will also be easier to carry around and set up than before.

I look forward to software advancement in the future.