

Telefónica optimises the Aigües de Barcelona plant thanks to 5G, hosting analytics from its video cameras in Edge Computing

Objective: Connect the video surveillance cameras via 5G and carry the video signals in HD quality to Telefónica's nearby Cloud or Edge Computing. There the images are processed in real time for monitoring and for automatic detection of intruders, anomalies, accidents, and other events.

Description: Aigües de Barcelona, Telefónica and Mobile World Capital Barcelona collaborated in a pilot project to migrate the security cameras at the Sant Joan Despí drinking water treatment plant (DWTP). Previously, these cameras were connected by conventional fixed networks, sending images to a local server located inside the DWTP. With this project, the images captured by the cameras are now sent using the 5G mobile coverage available in the area to a Telefónica Edge Computing node, where they are processed using Artificial Intelligence (AI) algorithms. In this way, the network's capabilities to maintain a stable flow of data (video signals) have been tested, as well as the low latency ensured by the proximity of the Edge Computing centers.

This pilot demonstrates the advantages of combining 5G and Edge Computing in real applications. Particularly in the industrial segment, customers such as Aigües de Barcelona see clear advantages in integrating their solutions into Telefónica's Cloud, connecting their devices through the 5G mobile network. This brings them several benefits: firstly, greater flexibility for their plants by not depending on cabling, then better operations by having their processes centralised in the cloud, and finally, greater ease and lower cost to evolve or scale their platforms.

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