

# AR and AI Wearable Electronics for PPDR Network Application

## SUMMARY

5G-EPICENTRE's AR and AI Wearable Electronics for PPDR Network Application is a vertical system relies on Q-Application component, which provides the collection of geolocated data and makes it available through a fast communication channel. Systems can use the Q-Application to deposit geo-located information that is later consumed by interconnecting, or data presentation systems.

The system is based on the Qube framework, allowing for high customisation in both NFs and data presentation and storage.

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## DEPENDENCIES

The application requires these hardware features:

- 24 virtual CPUs.
- At least 24Gb of RAM.
- At least 10Gb of persistent storage (this depends on the multimedia materials to be stored).
- Open ports: 80 for web interface and 5672 for the broker.

For more information, do not hesitate to visit the website <https://www.5gepicentre.eu/> and/or contact the 5G-EPICENTRE team.

Contact the 5G-EPICENTRE team by filling in the [form](#) provided. Apply [here!](#)

## ARCHITECTURE & MICROSERVICES

### 5G-EPICENTRE Experimentation Platform

ReShaping the Future of PPDR Services



As a vertical system relies on Q-Application component, which provides the collection of geolocated data and makes it available through a fast communication channel. Systems can use the Q-Application to deposit geo-located information that is later consumed by interconnecting, or data presentation systems. The system is based on the Qube framework, allowing for high customization in both NFs and data presentation and storage.

A summary of the different micro-services involved in the UC7 vertical system trial is provided below:

- Q-Application: Vertical application component responsible for data management and organisation of information by providing support to departments for submission of collected data:
  - ProcessToStoreData: It is responsible for processing the data taken from the broker, and saving it in the system.
  - LiveData: It is responsible for collecting data to produce a live data stream.

- DB: SQL DB used to store data and configuration information.
- Message Broker: It implements the intercommunication channel between systems and NFs.
- HTTP-Proxy: It is middleware of external HTTP traffic, redirecting HTTP traffic to the corresponding microservice.

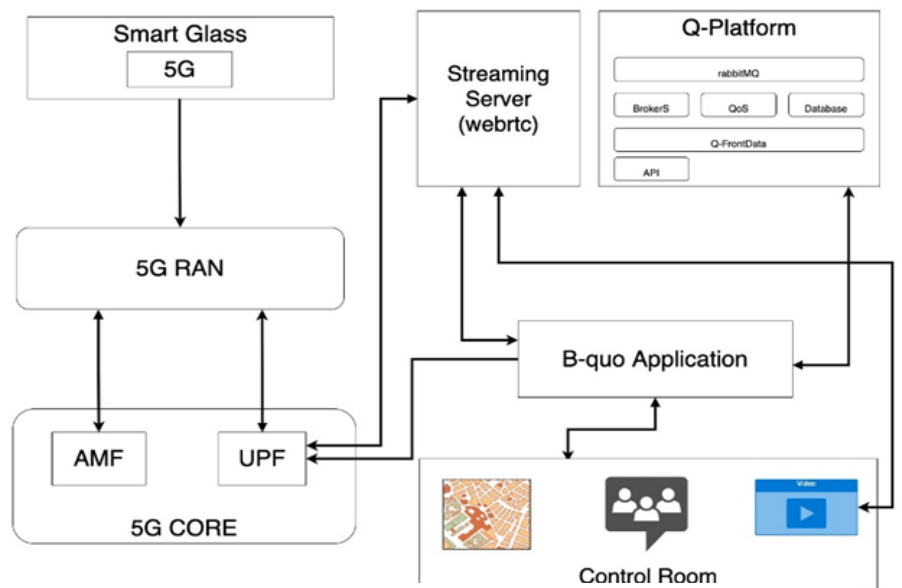


Figure: UC7 vertical system under test - specific architecture