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### Newsletter

Issue 6 – July to December 2023

## 5GMediaHUB Progress

In this stage, the primary focus of the project is on WP4, ‘Experimentation Facility and Network Apps Validation’, a pivotal component for the seamless integration of all project use cases with the respective platforms. In this crucial stage, AppArt has successfully deployed and activated a security feature on the data collector. This enhancement allows users to acquire a secure token, ensuring a robust data submission process.

To achieve seamless integration between the data collector and the use cases, collaborative efforts from CTTC and TNOR have resulted in the development of diverse application programming interfaces (APIs). These APIs play a crucial role in the collection of metrics from each use case, serving as conduits for forwarding the collected data to the Data Collector. Once collected, this data is dynamically presented on the user-friendly portal of the 5GMediaHUB Experimentation Facility (Figure 1).

This strategic approach not only emphasises the importance of security in data submission but also underscores the collaborative efforts undertaken to establish efficient communication channels between the use cases and the data collector. The robust API infrastructure ensures a streamlined flow of metrics, enriching the overall functionality of the 5GMediaHUB Experimentation Facility.

## Consortium

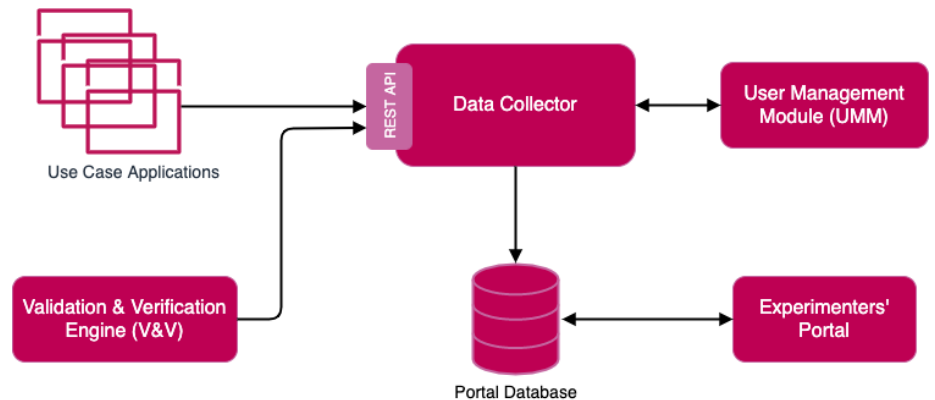


Figure 1: Data Collector flow diagram

# Dissemination activities

## A. Participation at Smart City Expo World Congress



Figure 2: IQADRAT representing 5GMediaHUB at Smart City Expo World Congress 2023

The project Coordinator IQADRAT participated with a booth in the Smart City Expo World Congress 2023 (Figure 2). The highly influential event for the smart city sector was held 7-9 November 2023 in Barcelona. More than 25,300 people attended Smart City Expo World Congress 2023. Read more [here](#).

## B. Presentation of paper at CAMAD 2023

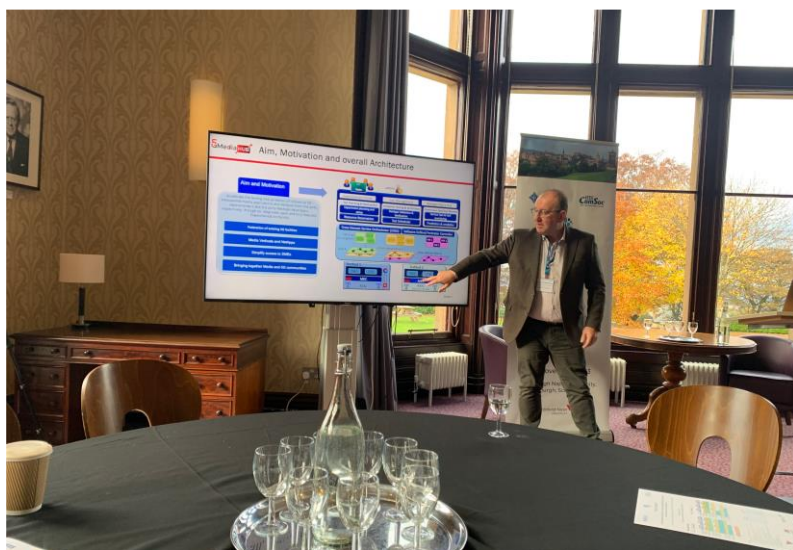


Figure 3: Presentation of the paper titled '5GMediaHUB QoS/QoE Monitoring Engine' during CAMAD 2023

The paper titled '5GMediaHUB QoS/QoE Monitoring Engine' was presented during CAMAD 2023, held 6-8 November 2023, in Edinburgh, Scotland (Figure 3). Target audience of the conference includes diverse group of scientists, engineers, manufacturers and providers in the field of communications and networking.

### C. Networking event in Valencia 5G Days



5GMediaHUB hosted a networking event during the Valencia 5G Days (V5G) 2023 event in the Universitat Politècnica de València (UPV) in Valencia, Spain, in November 2023 (Figure 4). The workshop was organised by Brainstrom. Some of the themes of the workshop included how the 5GMediaHUB Experimentation Facility can be employed for Network Application testing and validation and the potential commercial opportunities of the Facility. Read more [here](#).

Figure 4: BRA introducing the 5GMediaHUB workshop at V5G Days 2023

### D. Exhibition booth at V5G Days

5GMediaHUB had a booth in V5G days, where a demo of the immersive media network application was available for event participants to interact with and better understand the outcomes of the project (Figure 5).



Figure 5: Exhibition booth at V5G days

## E. Participation of 5GMediaHUB at Infocom World 2023

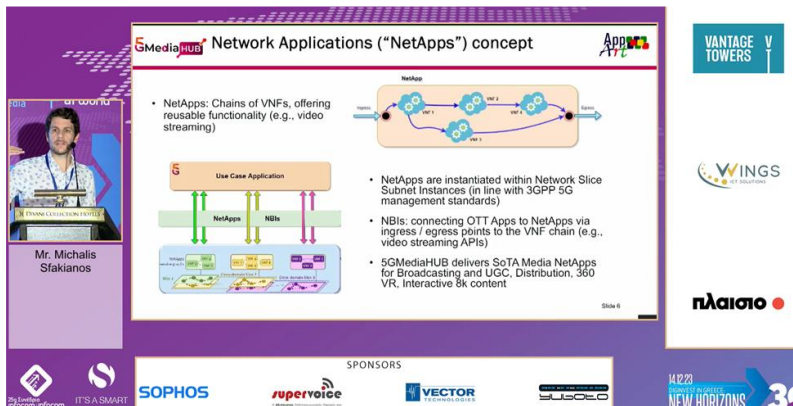


Figure 6: APART presenting 5GMediaHUB during Infocom World 2023

APPART presented the 5MediaHUB project during the scientific section of the highly esteemed Infocom World 2023 conference (Figure 6). Mr Sfakianos provided an insight into the state-of-the-art network applications offered by the project aiming to change the testing and validation of broadcasting applications through the all-in-one 5GMediaHUB Experimentation Facility. Find out more [here](#).

## Scientific Dissemination

- Garrido, L., Dalgitsis, A., Famitafreshi, G., Siokis, A., Ramantas, K., & Verikoukis, Ch. (2023). An Experimental Platform of a Beyond-5G Network with Machine Learning Integration. In *IEEE Globecom 2023*.
- Siokis, A., Stamou, S., Ramantas, K., McCloskey, R., Tolan, M., Margetis, G., & Verikoukis, Ch. (2023). In *CAMAD 2023*.
- Song, R., Wu, J., Pan, Q., Imran, M., Naser, N., Jones, R., & Verikoukis, Ch. (2023). Zero-Trust Empowered Decentralized Security Defense against Poisoning Attacks in SL-IoT: Joint Distance-Accuracy Detection Approach. In *IEEE Globecom 2023*
- Xie, M, Awan, M.F., Pajo, J.F., Cherifi, A., Lajoie, E., & Gill, J. (2023). i-CORA – a Large-Scale Experimentation Platform for End-to-End 5G Services”. In *IEEE Globecom 2023*.

## Submitted deliverables July - December 2023

Title	Month	Description
D3.6 - Interfacing and configuration of 5GMediaHUB Experimentation Tools and Network Applications with 5G testbeds - Final	July 23	Final versions of Experimentation Tools and Network Applications layer integrated and interconnected with the underlying 5G testbed infrastructure
D3.8 - CSDO deployment, 5G testbeds upgrade & interfacing and slice management - Final	July 23	Final versions of umbrella CSDO and testbeds upgraded to 3GPP R.16 (A) and R.17 (B) releases.
D3.10 - Dry-run testing and operational readiness of 5GMediaHUB Experimentation Facility - Final	July 23	Final versions of Experimentation Facility, ready for validation.
D4.2 - Planning, setup and operational management handbook - Final	Dec 23	Final versions of reports, updated at the end of each iterative testing cycle period, providing reporting on progress made.
D6.6 - Information package for external SMEs, 3rd party Network Applications developers and experimenters - Final	Sep 23	A report consolidating the information package for the SMEs and procedures for managing the online application and the selection procedures of the proposals and their evaluation
D7.7 - Project quality handbook - Final	Dec 23	Quality assurance and risk management final report presenting the risk library, quality procedures and reporting by partners on quality matters.

All the public deliverables are available on the project website. Have a look at the page [Public Deliverables](#) where you will find the submitted documents. Happy reading!

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**Grant Agreement:**  
No. 101016714

**Project Duration:**  
01.01.2021 – 30.06.2024

## 5GMediaHUB in Social Media

Follow us to keep up to date with the project progress!

 [@5gmediahub](https://twitter.com/5gmediahub)

 [5GMediaHUB Project](https://www.linkedin.com/company/5gmediahub/)

 <https://www.5gmediahub.eu/>

