



A European View on 5G Architecture and Beyond

Opening

Dr. Ömer Bulakçı, Nokia, Vice-chairman of 5GPPP Architecture WG

13 October 2021

Please note that this event will be recorded.

The Scope



- Architecture WG is one of the Working Groups as part of the 5GPPP Initiative
- Brings 5GPPP projects together to attain the European View on the Overall Architecture & the Network Domains
- Provides a consolidated view on the technical directions for the architecture design

- 5GPPP Architecture White Paper issued in June 2016 (V1.0) and updated in January 2018 (v2.0) based on Phase I projects' results
- Previous release (v3.0) issued during the EuCNC 2019 based on Phase II and III project results

5GPPP Architecture White Paper Releases

<https://5g-ppp.eu/white-papers/>



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Top Downloads from www.5g-ppp.eu [To-Euro-5G D3.2 July 2019]

Event Label ?	Total Events ?	↓	Unique Events ?
	20,329 % of Total: 33.41% (60,842)		18,772 % of Total: 33.58% (55,895)
1. https://5g-ppp.eu/wp-content/uploads/2018/01/5g-ppp-5g-architecture-white-paper-jan-2018-v2.0.pdf	1,675 (8.24%)		1,541 (8.21%)

White Paper v4.0 ([Link](#))



5GPPP Architecture WG re-started the work in Oct 2020 with the inclusion of 5GPPP Phase 3 Projects (ICT 17-20 Projects, ICT 41-42 projects, ICT 52- 53 projects)

→ **43 Projects participating**

CHAPTERs

Chapter 2 – Overall Architecture

Chapter 3 – Radio & Edge Architecture

Chapter 4 – Core & Transport Architecture

Chapter 5 – Automated Management & Orchestration Architecture

Chapter 6 – Cross-Domain Aspects

Chapter 7 – Arch Instantiations and Validations



White Paper v4.0 ([Link](#))



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→ **Part 1 White Paper V4.0: A European View on 5G Architecture and Beyond**
→ **Part 2 Workshop #2 "Architectural Evolution toward 6G Networks: A European View"** (Thursday 14 October 2021, 22:30-00:30 CEST – Hosted by the IEEE 5G WF)

Agenda



TIME (CEST)	PRESENTATION	SPEAKER(S)
15:00-15:05	Welcome	Ömer Bulakci, Nokia, Arch WG Vice-chairman
15:05-15:30	Keynote - On the path toward 6G System: Forming the Foundation	Mikko Uusitalo Nokia Bell Labs, Hexa-X Project Manager
15:30-15:55	Keynote - Bringing Reinforcement learning Into Radio Light Network for Massive Connections	Yue Zhang, Univ. of Leicester & John Cosmas, Brunel Univ.; Project 6G BRAINS
	Short Break	
16:00-16:05	Overall introduction to the white paper	Marco Gramaglia, UC3M
16:05-16:20	Chapter 2 - Overall Architecture	Anastasius Gavras, Eurescom GmbH
16:20-16:35	Chapter 3 - Radio & Edge Architecture	Mir Ghoraishi, Gigasys Solutions
16:35-16:50	Chapter 4 - Core & Transport Architecture	Jesus Gutierrez Teran, IHP
	Break	
17:00-17:15	Chapter 5 - Automated Management & Orchestration Architecture	Xi Li, NEC laboratories Europe
17:15-17:30	Chapter 6 - Cross-Domain Aspects	Valerio Frascolla, Intel
17:30-17:45	Chapter 7 - Architecture Instantiations & Validations	Haeyoung Lee, Univ. of Surrey
17:45-18:15	Joint Panel / Q&A	All
	Closing	Ömer Bulakci, Nokia, Arch WG Vice-chairman



Thank You!

The 5G Infrastructure Public-Private Partnership

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Stay tuned! Next White Paper on B5G/6G in 2022.

<https://5g-ppp.eu/white-papers/>

<https://5g-ppp.eu/wp-content/uploads/2021/11/Architecture-WP-V4.0-final.pdf>