

Unified 3D Networks: Architecture, Challenges, Recent Results, and Future Opportunities

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This work is supported in part by the German Federal Ministry of Education and Research (BMBWF) within the project Open6G-Sub under grant numbers 16K05K018, 16K05K012, 16K05K004, and 16K05K000K.

ABSTRACT The very new evolution towards 6G networks necessitates a paradigm shift towards unified 3D network architectures, encompassing space, air, and ground segments. This paper outlines the conceptualization, challenges, and prospects of such a transformative architecture. We outline the foundational principles, drawn from standardization endeavors and cutting-edge research initiatives, to articulate the envisioned architecture poised to redefine network capabilities. Driven by the need to enhance capacity, increase data rates, support diverse mobility models, and facilitate heterogeneous connectivity, the conceptual framework of a unified 3D network is presented. The focus is on seamlessly integrating diverse network segments and fostering holistic network orchestration. In examining the technical challenges inherent to the realization of a unified 3D network, we outline our strategies to address mobility management, handover optimization, interference mitigation, and the integration of distributed physical layer concepts. Proposals encompass federated learning mechanisms, advanced beamforming techniques, and energy-efficient computational offloading strategies, aimed at enhancing network performance and resilience. Moreover, we outline compelling utilization scenarios and highlighted promising avenues for future research.

INDEX TERMS 6G, Non-terrestrial networks, mobile communications, 3D networks, interference management, handover strategies, distributed PHY techniques.

I. INTRODUCTION

THE escalating demand for ubiquitous, high-speed, and reliable connectivity has driven the development of diverse communication networks, including terrestrial, satellite, and aerial networks (encompassing unmanned aerial vehicles (UAVs), high-altitude platforms (HAPs), and flying nodes) [1], [2]. While each network possesses distinct strengths and limitations, the emergence of three-dimensional (3D) unified networks has emerged as a com-

promising solution to transcend the boundaries of traditional infrastructure and deliver seamless 3D connectivity across all network segments: space, air, and ground [3], [4]. This unified network approach envisions a holistic design, encompassing flying network nodes and terrestrial network components working in tandem to dynamically provide functionalities on demand. This holistic approach has the potential to surpass the limitations of 5G non-terrestrial networks (NTNs) approach standardized by the third-generation

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