

Network Slicing Based 5G and Future Mobile Networks: Mobility, Resource Management, and Challenges

Haijun Zhang, Na Liu, Xiaoli Chu, Keping Long, Abdol-Hamid Aghvami, and Victor C. M. Leung

The authors introduce a logical architecture for network-slicing-based 5G systems, and present a scheme for managing mobility between different access networks, as well as a joint power and subchannel allocation scheme in spectrum-sharing two-tier systems based on network slicing, where both the co-tier interference and cross-tier interference are taken into account.

ABSTRACT

5G networks are expected to be able to satisfy users' different QoS requirements. Network slicing is a promising technology for 5G networks to provide services tailored for users' specific QoS demands. Driven by the increased massive wireless data traffic from different application scenarios, efficient resource allocation schemes should be exploited to improve the flexibility of network resource allocation and capacity of 5G networks based on network slicing. Due to the diversity of 5G application scenarios, new mobility management schemes are greatly needed to guarantee seamless handover in network-slicing-based 5G systems. In this article, we introduce a logical architecture for network-slicing-based 5G systems, and present a scheme for managing mobility between different access networks, as well as a joint power and subchannel allocation scheme in spectrum-sharing two-tier systems based on network slicing, where both the co-tier interference and cross-tier interference are taken into account. Simulation results demonstrate that the proposed resource allocation scheme can flexibly allocate network resources between different slices in 5G systems. Finally, several open issues and challenges in network-slicing-based 5G networks are discussed, including network reconstruction, network slicing management, and cooperation with other 5G technologies.

INTRODUCTION

With the rapid development and innovations of mobile networking technologies, an entirely new era of mobile communications, the fifth generation (5G) of mobile communication systems, is coming. There is a consensus that 5G systems can be rolled out around 2020. 5G systems are expected to provide society with full connection, which can break through the limitations of time and space to create all-dimensional user-centered or service-centric interconnections between people and things [1].

5G networks aims to meet various user quality of service (QoS) requirements in different application scenarios (e.g., in terms of data transmission rate and latency) [2]. In scenarios where seamless wide-area coverage is needed, 5G systems should

provide users with seamless high-data-rate services anytime and anywhere, even at cell edges or with high-speed (up to 500 km/h) mobility. In metropolitan areas where the density and volume of wireless traffic demand are both very high, 5G networks should provide dense hotspot coverage with high capacity. In scenarios where reliable connections of a large number of widespread low-power nodes (e.g., wireless sensors) are needed, 5G networks should be able to connect millions of devices under the constraints of low power consumption and low cost per device. Extremely low latency and high reliability of 5G networks are required to meet the performance requirements of real-time, reliable, and secure communications in some vertical industries such as interconnected vehicles and industrial production control.

Faced with the abundant, distinct, customized service requirements, and in the new application scenarios mentioned above, the network architecture and networking technologies need to be revisited for 5G systems [3]. This has become the focus of research and development activities of operators, equipment vendors, and research institutes all over the world. In order to provide customized reliable services using limited network resources while reducing capital expenditure and operating expense of 5G networks, network slicing has recently been proposed by the wireless industry as a main enabler of network service convergence and on-demand customized services [4–6]. By slicing a physical network into several logical networks, network slicing can support on-demand tailored services for distinct application scenarios while using the same physical network. Supported by network slicing, network resources can be dynamically and efficiently allocated to logical network slices according to the corresponding QoS demands.

Network slicing has also attracted a lot of research interest in academia. In [7] a user-centric service slicing strategy considering different QoS requirements was proposed based on software defined networking (SDN), and a genetic algorithm was devised to optimize the virtualized radio resource management based on resource pooling. In [8], a network slicing mechanism was introduced for network edge nodes to offer low-la-

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