Abstract

Main focus in this paper is placed on demystifying the 5G paradigm from different aspects and viewpoints. From the beginning, from the time when the term 5G started to emerge in scientific circles it was unclear what exactly it represents. In the scientific community, there are many papers that are trying to present views of what they think 5G should be. In the past, several years it can be noticed that significant evolution in defining the term 5G is made. Most importantly in the past year it can be seen that requirements for 5G from business perspective are converging toward unified set of needed functions, functionalities and use cases that need to be satisfied by the next generation network called 5G. Basic idea of the paper is to present the business needs from the 5G network coming from the network operators/end-users and link them to what it represents viable and technically implementable architecture design given in different papers in scientific community. During this process of clarification paper also presents past and future views of 5G network paradigm and the needs of change.
1. Project METIS Deliverable D2.1 Requirements and general design principles for new air interface, 31.08.2013
2. NGMN 5G WHITE PAPER, https://www.ngmn.org/5g-white-paper.html, approved by NGMN board 17th of February 2015
8. ”Series H: Audiovisual and multimedia systems. Infrastructure of audiovisual services – Coding of moving video. High efficiency video coding”. Recommendation H.265, ITU-T

Index Terms

Computer Science Information Sciences

Keywords

5G, business needs, NFV, SDN, Orchestration, Cloud.