Designing Network Topologies with Appropriated Bandwidth Management as Professional Resources to Support the Quality of Research and Higher Education to Initiate Covid-19 Effects in Mali

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Abstract

This paper presents a review of literature about the topic of Integrating New Network Topologies with Appropriated Bandwidth Management as Professional Resources to Support the Quality of Research and Higher Education to Initiate the Covid-19 Effects in Mali. The consensus admitted by all is the indispensability of Internet data services in the sector of education and research especially in this period of a breakout due to the coronavirus pandemic. The current paper reviewed literature about the scope to support insights that will contribute to raising the quality of research and higher education through the integration of new network topologies and the appropriated Internet data as professional resources to initiate the Covid-19 effects in Mali. This research contributes to providing both teachers and students with access to the internet with a personal user account, to facilitate the adoption of blended learning through virtual learning platforms and other relevant materials to complement their degrees programs. Thanks to the integration of these technologies, Malian higher education staff will get facilities to multiply their cooperation with highly technology-integrated countries like Indonesia, Malesia, Australia, and Korea.

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Keywords: Network Topologies; Bandwidth Management; Professional Resources; Research and Higher Education

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Conceptual Framework

The conceptual framework consists of local network topology design for each research institution or university campus, and design a topology that brings together all the institutions networks, to become a national network for research and higher education as professional resources.

Figure 1

Figure 1 represents a simple basic design of campus LAN Topology

Figure 2