

Optimal Broadband Wireless Technology Deployment in Conjunction with Traffic Trends in the Network of Makedonski Telekom

Before being introduced with the traffic trends in the Network of Makedonski Telekom and by that, to be introduced with the traffic network trends in Macedonia, students should have some basic information about the global traffic trends. The purpose of this short introduction is to provide this information.

Wireless broadband access technologies refers to high-speed wireless access services that businesses can use to build metropolitan area networks or gain Internet access. These wireless services take the place of traditional TDM circuits.

Wireless access systems are usually owned by a service provider that operates within a metropolitan areas. Services include Internet access for businesses, MTUs (multitenant units), and homes, as well as private LAN bridging in metro areas. The topic "Wireless LANs" covers enterprise wireless networking in which an enterprise owns and manages wireless systems used to interconnect its users and systems. Even shorter in range than wireless LANs are wireless PANs (personal area networks) that let nearby users create spontaneous networks. See "Bluetooth" and "Wireless PANs (Personal Area Networks)."

The cellular telephone system, as covered under "Wireless Mobile Communications," allows users to move about, not only within the range of the local base station but to other cells within the same system and even to other service provider systems. The fixed wireless systems discussed here allow some mobility, but do not typically support the extended roaming features of mobile cellular systems.

Wireless broadband access systems have relatively high data rates and the target subscriber is often an entire enterprise rather than an individual subscriber. Broadband wireless systems can provide bandwidth that exceeds DSL and cable network technologies. Also, the traffic is data, although some of the fixed wireless systems use spectrum that was originally designated for one-way delivery of cable TV.