

A signaling architecture for wireless ATM access networks

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A multiservice wireless Asynchronous Transfer Mode (ATM) access system is considered from a signaling protocol viewpoint. In an attempt to generalize and extend results and experiences obtained from the specification, design, and implementation of fixed ATM-based access networks, we extend the concept of the broadband V interface (referred to as VB) for application to wireless ATM access networks. The proposed architecture follows the signaling structure of Broadband ISDN (B-ISDN) User–Network Interface (UNI), thus offering the possibility for integration of the wireless ATM access system into fixed B-ISDN. It is shown that the use of the proposed access signaling architecture provides cost effective implementations without degrading the agreed Quality of Service (QoS), and simplifies call/connection and handover control. The evaluation of the proposed access signaling protocol structure yields results that fall within acceptable ATM signaling performance measures. A performance comparison of our approach with an alternative access signaling configuration is also carried out to quantify the relative gains.

1. Introduction

In recent years, the developments in the telecommunication industry have been affected by two major trends: broadband and mobile communications. Broadband communication is mainly driven by new multimedia services and applications, requiring more bandwidth and better Quality of Service (QoS) than that offered by existing network solutions. Asynchronous Transfer Mode (ATM) is considered the major technology for the future Broadband Integrated Services Digital Network (B-ISDN) [11]. On the other hand, the parallel emergence of wireless communications networks, based on new digital technologies, is paving the way to provide multiservice capabilities to mobile terminals. These two trends motivate the integration of wireless access systems with the ATM-based fixed broadband network.

The wireless ATM technology combines the advantages of wireless operation and freedom of mobility with the service advantages and QoS guarantees of fixed ATM networks. The main challenge of wireless ATM is to harmonize the development of broadband wireless systems with fiber-optic-based infrastructure B-ISDN/ATM and ATM Local Area Networks (LANs), and offer similar advanced multimedia, multiservice features for the support of time sensitive voice communications, LAN data traffic, video and desktop multimedia applications for the wireless user [40]. Such networks aim to provide true ATM wireless access with high-speed transmission (tens of Mbps), flexible bandwidth allocation, QoS selection and guarantees, which cannot be supported by the early proprietary wireless LAN designs, or the wireless LAN standards being developed by IEEE and ETSI [12,20], which are mainly oriented to support data traffic.

The implementation of the aforementioned broadband features over the radio interface is a more involved technical challenge than over wired media, owing to the unreliable

physical medium and user mobility. However, it is important to aim at system architectures that provide qualitatively similar attributes, even if the complete quantitative equivalence with the fixed ATM network may not be feasible [40]. In this context, a number of efforts are in progress to explore this new technology [2–5,14–16,26,30,32,38,41,46]. Most of them comprise wireless research prototypes that are implementing wireless and mobile ATM, though with different approaches and scope.

In this paper, we elaborate on the design of wireless ATM access networks from a signaling protocol viewpoint. The proposed signaling protocol structure is based on the same concepts as those used in the fixed broadband access network configurations, currently being considered in standardization bodies [17,18]. Although the signaling architecture considered here aims at local area wireless ATM access systems, it can be readily extended to fulfill the access signaling requirements of public environment wireless ATM access systems.

Current trends in designing the access network (AN) part of fixed B-ISDN aim at concentrating the traffic of a number of different User Network Interfaces (UNIs) and routing this traffic to the appropriate Service Node (SN) through a broadband V interface (referred to as VB), as shown in figure 1 [17]. The main objective in AN design is to provide cost effective implementations without degrading the agreed QoS, while achieving high utilization of network resources. This is reflected both in the reduction of the AN physical equipment and in the limitations imposed on the AN functionality, such as the inability to interpret the full ATM layer control information and signaling. The selection of a low-level operating AN forces the establishment of several internal mechanisms that are used to unambiguously identify the connection an ATM packet belongs to, and to convey only those connection parameters that are absolutely necessary for traffic handling.

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