

ADVANCED PERSONAL COMMUNICATION SYSTEM

Kenji Kohiyama, Takashi Hattori, Hideo Sakiguchi, and Ryohji Kawaguchi

NTT Radio Communication Systems Laboratories
1-2356 Ta-ke, Yokosuka-shi, 238-03 JAPAN

Abstract: A new concept for Personal Communication System that achieves the ultimate object of all communications systems to enable anyone to communicate anywhere with anyone else anywhere is proposed. This concept offers a personal area or network with subscriber access systems for both wired and radio networks. Its three principal concepts are: (1) assigning a personal identity such as a Personal Telecommunication Number for an individual, and the network traces the person's routing; (2) serving a fixed and portable units for radio and wired, and (3) serving advanced functions such as the network playing the role of secretary. System architecture and some problems are also presented.

1. Introduction

Recently the information-intensive society has developed, and the social and cultural structure has changed to bring about a great variety of people's behavior. In the communication world, demand for advanced services that enable us to communicate conveniently with anyone anywhere is more and more increasing. In order to realize this type of user-oriented service, many kinds of systems are being studied or developed, such as mobile, automobile radio systems (MRS, IRS), and advanced cordless systems (NCT, ACR, Telecord, DCOM, NDC, etc.).

In international standardization, CCITT standardized in 1981 as the preliminary stage discussing a mobile and radio approach in ITU-T S11 and S12, ITU-T S13, S14, S15, S16, S17, and S18. Several subjects are discussed, for example, numbering, network functions, signaling, and so on (1)-(17).

There are many proposals proposed to offer big economic personal communication services to users by the mobile subscribers. Because work mobility and individual mobility have been applied to radio systems, a radio approach, proposed in (18)-(20)

utilization efficiency must be improved to accommodate an indefinite number of subscribers and a radio area must be less than several 100-1000m. The radio area should also be rationalized to realize area-wide portable terminals that are accompanied by large centers can be set wherever possible. Furthermore, in order to become a sufficient number of service areas, a large number of radio systems has to be set, and the more systems more have to be set in theory. Therefore, it is necessary to set in 1000m. The number of service systems must also be set and centers, centers will increase with the number of subscribers in the area. As a result, the existing system configuration methods will agree very difficult problems in extending the service area.

For this reason we propose an advanced personal communication system in which each subscriber is located registration and contains a portable service offered by public communication networks. Configuration and mobile service developments can be realized by using public communication network facilities as transport systems. The proposed system enables each person to afford a portable telephone service in a large and efficient and convenient capacity.

2. Service Concept

Our proposed service concept is shown in Table 1.

- (1) Personal communication anytime and anywhere by using Personal Telecommunication Number (PTN).
- (2) Portable - Easily to locate with both wired and radio systems for service areas including very small areas and large public centers.
- (3) Portable services according to user's choice and purpose.

Radio service design for service in PTN. The proposed system requires a portable stationary telephone sets, both the radio terminals. Services are available anywhere, such as home, office, or outdoors. The mobility should be less than or equal to that of mobile phone. A portable service provided from the

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