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Mobility Management Application Protocol (MMAP) - Extensions

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Supplement to
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American National Standard
for Telecommunications –

Mobility Management Application Protocol (MMAP) – Extensions

Secretariat

Alliance for Telecommunications Industry Solutions

Approved December 9, 1996

American National Standards Institute, Inc.

Abstract

This standard provides an application layer protocol for the exchange of information between peer applications running in a radio system and other network elements (e.g., mobility management platforms, switching systems, and other radio systems). The basic provisions of the protocol provide the semantics and syntax for operations necessary to support the mobility aspects of telecommunication services and call control in a wireless environment. This supplement provides additions and modifications to ANSI T1.651-1996.

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Contents

Foreword (This foreword is not part of American National Standard T1.651a-1996.)

This document is a supplement to ANSI T1.651-1996. It provides changes and additional operations for the RACF-SCF and RACF-RACF interfaces.

This standard has one annex. Annex A is informative and is not considered part of this standard; that is, this annex does not include requirements for this specification, but provides information about this specification.

Suggestions for improvement of this standard will be welcome. They should be sent to the T1 Secretariat, c/o Alliance for Telecommunications Industry Solutions, 1200 G Street, N.W., Suite 500, Washington, D.C. 20005.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Telecommunications, T1. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the T1 Committee had the following members:

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Mobility Management Application Protocol (MMAP) – Extensions

1 Scope, purpose, and application

1.1 Scope

The Mobility Management Application Protocol (MMAP) is a communication protocol between a radio system and other network elements (e.g., mobility management platforms, switching systems, and other radio systems). The scope of the radio systems supported are the wireless Personal Communications Services (PCS) radio systems defined by T1 and TIA. The scope of the information and operations is the support of personal and terminal mobility in a wireless environment and includes functionality such as registration, location updating, authentication, roaming, handover, and billing.

In addition, the scope of the protocol includes the exchange of information and invocation of operations as necessary to support the mobility aspects of telecommunication services (e.g., call waiting, call forwarding, short message service) and call control (e.g., call origination, call termination, call clearing) in a wireless environment.

1.2 Purpose

The purpose of this document is to provide additional functionalities beyond that specified in ANSI T1.651-1996. The document also provides revisions to operations previously defined in ANSI T1.651-1996.

1.3 Application

The operations defined in this supplement are applicable to the interfaces between PCS radio systems and other network elements such as the interfaces defined by the ISDN "A" Interface in TIA and the "C" and “D” interface in T1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ANSI J-STD-007-1996, *Telecommunications – Air interface specification for 1.8 to 2.0 GHz frequency Hopping time division multiple access (TDMA) for personal communication services* [1)]

ANSI J-STD-008-1996, *Telecommunications – Personal station-base station compatibility requirements for 1.8 to 2.0 GHz code division multiple access (CDMA) personal communication systems* [1)]

1) This standard is currently in production. Contact the secretariat for more recent information.