ATIS-1000672.2000(S2020)

Bearer Independent Call Control (BICC)

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ATIS-1000672.2000(S2020), *Bearer Independent Call Control (BICC)*

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T1.672-2000(S2020)

American National Standard for Telecommunications

Bearer Independent Call Control (BICC)

Secretariat

Alliance for Telecommunications Industry Solutions

Approved November 15, 2000

American National Standards Institute, Inc.

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Foreword (This foreword is not part of American National Standard T1.672–2000)

This standard describes the adaptation of the narrowband ISDN User Part (ISUP) for the support of narrowband ISDN services independent of the bearer technology and signalling message transport technology used.

This standard is based on T1.113–2000, *Signalling System Number 7—Integrated Services Digital Network (ISDN) User Part.* This standard is written as a set of exceptions to the text of T1.113-2000 and is suitable for anticipated needs and applications within and between U. S. networks. These specifications are the result of extensive work by the members of the T1S1.3 working group on Common Channel Signalling.

The protocol defined by this standard is the call control protocol to be used between "Serving Nodes." This protocol is called the "Bearer Independent Call Control" protocol, (BICC). Between Serving Nodes the control of bearers is provided by other protocols—not specified by this standard.

The overall and detailed organization of individual chapters of this standard parallels that used in T1.113-2000. This standard contains seven chapters. The first six chapters of this standard detail the exceptions for BICC to the corresponding chapters of T1.113-2000. Chapter 7 of this standard describes use of the Application Transport Mechanism (APM), specified in T1.113.7-2000, by BICC.

This standard is intended for use in conjunction with *American National Standard for Telecommunications—Signalling System No. 7 (SS7)—General Information*, ANSI T1.110–1999.

There are 9 annexes in this standard. Chapter 1 contains one informative annex. Chapter 4 contains five normative and three informative annexes. Information contained in a normative annex forms an integral part of this standard. Information contained in an informative annex is not considered part of this standard, but is rather auxiliary to the standard. Similarly, footnotes are not part of this standard.

Suggestions for improvement of this standard are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, T1 Secretariat, 1200 G Street NW, Suite 500, Washington, DC 20005.

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Chapter 7 (T1.672.7-2000)

American National Standard
for Telecommunications –

Chapter 1

Functional Description of the Bearer Independent Call Control (BICC) Protocol

1 Scope

This standard describes the adaptation of the narrowband ISDN User Part (ISUP) for the support of narrowband ISDN services independent of the bearer technology and signalling message transport technology used.

This standard is written as a set of exceptions to T1.113-2000. In some cases these exceptions are displayed by quoting the original text of T1.113-2000 with revision marks. (Deleted text is shown using strikeouts, and added text is shown underlined.)

The protocol defined by this standard is the call control protocol to be used between “Serving Nodes”. This protocol is called the “Bearer Independent Call Control” (BICC) protocol. Between Serving Nodes the control of bearers is provided by other protocols not specified by this standard.

Three types of Serving Node (SN) are defined:

- Interface Serving Node (ISN) –Provides an interface to circuit switched networks.
- Transit Serving Node (TSN) –Provides transit functionality, for call and bearer, within one network using the BICC protocol.
- Gateway Serving Node (GSN) –Provides inter-network gateway functionality, for call and bearer, using the BICC protocol.

The main body of this document defines the protocol at Transit Serving Nodes and Gateway Serving Nodes. The scope is thus as shown in Figure 1/T1.672.1.