



ATIS-1000672.2000(\$2020)

Bearer Independent Call Control (BICC)

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS



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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.

T1.672-2000(S2020)

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 bearer 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, 200 G Street NW, Suite 500, Washington, DC 20005.

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Table of Contents

Chapter 1 (T1.672.1-2000) - Functional Description of the Bearer Independent Call Control (BICC) Protocol

1 Scope 1-1

2 Normative References 1-2

3 Definitions 1-3

4 Abbreviations & Acronyms 1-5

5 Conventions 1-7

6 Architecture 1-8

7 Exceptions to T1.113.1-2000 1-11

Annex A/T1.672.1 - Bibliography 1-13

Chapter 2 (T1.672.2-2000) - General Function of Messages and Signals

1 Scope, Purpose, and Application 2-1

2 Exceptions to T1.113.2-2000 2-1

Chapter 3 (T1.672.3-2000) – Formats and Codes

1 Scope, Purpose, and Application 3-1

2 Exceptions to T1.113.3-2000 3-1

Chapter 4 (T1.672.4-2000) - Signalling Procedures for Bearer Independent Call Control (BICC)

1 Scope, Purpose, and Application 4-1

2 Basic call control and signalling procedures 4-8

3 End-to-end signaling 4-35

4 User facilities 4-35

5 Table 1/T1.113.4-2000 – Switch-through when interworking 4-36

6 Table 2/T1.113.4-2000 – Circuit Query State Actions 4-36

7 Table 3/T1.113.4-2000 – Timers in chapter T1.113.4 4-36

8 Figures in T1.113.4-2000 4-36

9 Annex A/T1.113.4-2000 – Contents of interfacial elements between the ISDN User Part and the SCCP 4-36

10 Annex B/T1.113.4-2000 – Continuity of sections 4-37

11 Annex C/T1.113.4-2000 – Circuit and circuit group maintenance requirements 4-37

12 Annex D/T1.113.4-2000 – Automatic Congestion Control System 4-38

13 Annex E/T1.113.4-2000 – Top Counter Procedure Logic Diagram 4-38

14 Exceptions to T1.113.7-2000 4-39

Annex A/T1.672.4-2000 - Procedures for re-use of idle bearers (network option) 4-42

 A.1 Introduction 4-42

 A.2 Procedures 4-42

Annex B/T1.672.4-2000 - The BICC Signalling Transport Service 4-45

 B.1 Architecture 4-45

 B.2 Definitions 4-45

 B.3 The BICC Signalling Transport Service 4-46

Annex C/T1.672.4-2000 - Additional Specification for the deployment of BICC on MTP3 4-48

 C.1 Scope 4-48

 C.2 Additional Abbreviations 4-48

 C.3 Structure of the signaling transport converter on MTP sublayer 4-48

 C.4 Services provided by the STC 4-49

 C.5 Functions of the STC 4-49

 C.6 Elements for layer-to-layer communication 4-49

 C.7 Protocol Elements for Peer-to-Peer Communication 4-51

 C.8 Procedures of the STC 4-52

T1.672-2000(S2020)

Annex D/T1.672.4-2000 - Additional Specification for the deployment of BICC on SSCOP and on SSCOPMCE	4-55
D.1 Scope	4-55
D.2 Definitions	4-55
D.3 Additional Abbreviations	4-56
D.4 Structure of the signaling transport converter on SSCOP sublayer	4-56
D.5 Services provided by the STC	4-56
D.6 Functions of the STC	4-57
D.7 Elements for layer-to-layer communication	4-57
D.8 STC PDUs	4-60
D.9 Specification of the STC	4-61
Annex E/T1.672.4-2000 - Interworking with ISUP at an ISN	4-63
E.1 Scope	4-63
E.2 General	4-63
E.3 Incoming ISUP, outgoing BICC, (Incoming ISN)	4-64
E.4 Incoming BICC, outgoing ISUP, (Outgoing ISN)	4-64
Annex F/T1.672.4-2000 - Message Flow Examples	4-67
F.1 Introduction to message flows	4-67
F.2 Contents	4-67
Annex G/T1.672.4-2000 - Generic BCF functions	4-79
G.1 Introduction	4-79
G.2 BNC-ID	4-79
G.3 Bearer release control	4-80
G.4 BIWF Address	4-80
G.5 BNC Characteristics	4-80
Annex H/T1.672.4-2000 - Procedures at a Call Mediation Node (network option)	4-81
H.1 Introduction	4-81
H.2 Procedures	4-81
Chapter 5 (T1.672.5-2000) - Performance Objectives in the BICC Application	5-1
Chapter 6 (T1.672.6-2000) - State Transition Diagrams	6-1
Chapter 7 (T1.672.7-2000) – BICC Application Transport Mechanism	
1 Scope	7-1
2 Layout of Chapter	7-1
3 Modeling	7-2
4 BICC Application Process Functions	7-8
5 Single Association Control Function (SACF) – BICC SACF	7-10
6 BAT ASE	7-11
7 BICC Transport Formats and codes of application data	7-13
Table of Figures	
Chapter 1 (T1.672.1-2000)	
Figure 1/T1.672.1 - Scope of this Standard	1-2
Figure 2/T1.672.1 - Network Functional model	1-9
Figure 3/T1.672.1 - Protocol model	1-10
Chapter 3 (T1.672.3-2000)	
Figure 1/T1.672.3 – CIC field	3-1
Chapter 4 (T1.672.4-2000)	
Figure 1/T1.672.4 – BICC specification model	4-40

T1.672-2000(S2020)

Figure B.1/T1.672.4 – Functional architecture of the CSF signalling	4-45
Figure E.1/T1.672.4 – ISUP ISN Functional model.....	4-63
Figure F.1/T1.672.4 - Forward establishment of backbone network connection, no notification of bearer connect required ..	4-68
Figure F.2/T1.672.4 - Forward establishment of backbone network connection, notification of bearer connect is required....	4-69
Figure F.3/T1.672.4 - Backward establishment of backbone network connection	4-70
Figure F.4/T1.672.4 - Use of idle backbone network connection, established in the forward direction	4-71
Figure F.5/T1.672.4 - Use of idle backbone network connection, established in the backward direction	4-72
Figure F.6/T1.672.4 - Multi-network example: Connect forward, plus notification, followed by Connect forward, no notification, followed by Connect backward, re-use of idle bearer	4-73
Figure F.7/T1.672.4 - Forward establishment of backbone network connection (plus notification of bearer connect), with Codec negotiation	4-74
Figure F.8/T1.672.4 - Backward establishment of backbone network connection, with Codec negotiation.....	4-75
Figure F.9/T1.672.4 - Codec modification	4-76
Figure F.10/T1.672.4 - Forward call and bearer release; Forward bearer set-up	4-76
Figure F.11/T1.672.4 - Forward call and bearer release; Backward bearer set-up.....	4-77
Figure F.12/T1.672.4 - Forward call release; Bearers not released	4-77
Figure F.13/T1.672.4 - Forward call and bearer release; Gateway interworking between forward and backward bearer set-up	4-78
Figure H.1/T1.672.4 – CMN Functional model.....	4-81

Chapter 7 (T1.672.7-2000)

Figure 1/T1.672.7 - BICC Network Topology	7-3
Figure 2/T1.672.7 – BICC specification model.....	7-5
Figure 3/T1.672.7	7-7
Figure 4/T1.672.7	7-7
Figure 5/T1.672.7	7-8
Figure 6/T1.672.7	7-8
Figure 7/T1.672.7 - Encapsulated Application Information field.....	7-13
Figure 8/T1.672.7 - Length indicator	7-14
Figure 9/T1.672.7 - Compatibility Information	7-14
Figure 10/T1.672.7 – Action Indicator	7-16
Figure 11/T1.672.7 – Backbone Network Connection Identifier.....	7-17
Figure 12/T1.672.7 – Interworking Function Address	7-18
Figure 13/T1.672.7 – Codec List.....	7-18
Figure 14/T1.672.7 - Single Codec	7-19
Figure 15/T1.672.7 - Codec Information subfield.....	7-19
Figure 16/T1.672.7 – Coding for the 16-bit long configuration field.....	7-21
Figure 17/T1.672.7 – BAT Compatibility Report.....	7-23
Figure 18/T1.672.7 – Diagnostics	7-24
Figure 19/T1.672.7 – Bearer Network Connection Characteristics	7-24

Table of Tables

Chapter 4 (T1.672.4-2000)

Table 1/T1.672.4 – BAT primitive interface	4-3
Table 2/T1.672.4 – BAT primitive interface	4-8
Table B.1/T1.672.4 – Primitives and parameters of the BICC Signalling Transport Sublayer	4-46
Table C.1/T1.672.4 – Message Transfer Part service primitives	4-50
Table C.2/T1.672.4 – Primitives and parameters between the STC and layer management	4-51
Table C.3/T1.672.4 – Parameters in the MTP-TRANSFER.request primitive.....	4-53
Table C.4/T1.672.4 – Cause parameter mapping	4-54
Table D.1/T1.672.4 – SSCOP primitives and parameters.....	4-59
Table D.2/T1.672.4 – State transition table.....	4-62

T1.672-2000(S2020)

Chapter 7 (T1.672.7-2000)

Table 1/T1.672.7 – Primitives between AP and BICC SACF	7-9
Table 2/T1.672.7 – Contents of the BICC_Data Ind/Req primitive	7-9
Table 3/T1.672.7 – Contents of the BICC_Error Ind primitive	7-10
Table 4/T1.672.7 – Mapping between BAT ASE and APM ASE primitives	7-10
Table 5/T1.672.7 – Mapping between AP and BAT ASE primitives	7-10
Table 6/T1.672.7 – Mapping between BAT ASE and AP primitive	7-11
Table 7/T1.672.7 – Mapping between APM ASE and BAT ASE primitives	7-11
Table 8/T1.672.7 – Mapping between EH ASE and BAT ASE primitives	7-11
Table 9/T1.672.7 – Primitives between BICC SACF and BAT ASE	7-11
Table 10/T1.672.7 – Contents of the APM_U_Data Ind/Req primitive	7-13
Table 11/T1.672.7 – Contents of the APM_U_Error Ind primitive	7-13
Table 12/T1.672.7 – List of Identifiers	7-16
Table 13/T1.672.7 – Coding of configuration fields	7-22

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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.