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# Engineering Manual

- ◆ Description of the organization of the Standards and Technology Department of the Telecommunications Industry Association and its Engineering Committees
- ◆ Rules for operation of the Engineering Committees
- ◆ Intellectual Property Rights Policy
- ◆ Rules for operation of the Technical Standards Subcommittee
- ◆ Legal Guidelines

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## 1 **Revision History**

2 TIA's first-ever Engineering Manual was issued December 6, 1991 and supplemented  
3 with various Advisory Notes until May 31, 2001.

4 The second edition of TIA's Engineering Manual was approved and released on June 1,  
5 2001.

6 The third edition of the TIA Engineering Manual incorporated required changes per the  
7 American National Standards Institute Subcommittee on Accreditation. Specifically,  
8 changes were made to the following sections:

9 Section 6.10, Comment Resolution

10 Section 11.1, Standards Secretariat Record Retention

11 Section 13.2, Formal Appeals

12 This 4<sup>th</sup> Edition responds to changes required as a result of recommendations following  
13 TIA's 2003 ANSI audit and direction from the ANSI Executive Standards Committee  
14 (ExSC). In addition, the TIA Technical Committee approved changes to the Intellectual  
15 Property Rights policy in 2004. Lastly, some portions were updated to reflect current  
16 TIA practice.

17 The changed text is shown in revision control throughout the 4<sup>th</sup> Edition Manual

18 Major changes were made in the following areas:

19 Inclusion of IMPORTANT NOTICE OF PARTICIPATION

20 Statements of Policy, Intellectual Property Rights Policy

21 Definitions

22 Section 3.2.1, Eligibility for Participation in Formulating Groups

23 Section 3.2.2, Formulating Group Balance

24 Section 5.3.3.1, Voting in Formulating Group Meetings

25 Section 6.4, Copyright and Submissions

26 Section 6.5, Disclosure of Essential Patents

27 Section 6.7.1, TIA Standards

28 Section 6.7.2, ANS Standards

1	Section 6.11.6, Negative Ballots and Negative Comments, Right to Appeal
2	Notification
3	Section 14, Changes to TIA Engineering Manual
4	ANNEX A, Section A5.4 Hearing
5	ANNEX B, Section B. Procedures for Conducting Activities
6	ANNEX D, Sample Meeting Notice & Agenda
7	ANNEX G, TIA Submission Cover Sheet Template
8	ANNEX G.1, TIA Submission Cover Sheet Template with Optional Disclosure
9	Clauses
10	ANNEX H, Patent Holder Statement-Specific
11	ANNEX H.1, Patent Holder Statement-General
12	ANNEX I, Software Copyright Holder Statement
13	ANNEX J, Software Evaluation License
14	ANNEX K, Numbering of Documents

## 1 Introduction

2 A major function of the Telecommunications Industry Association (TIA) is the writing and  
3 maintenance of voluntary industry Standards and Specifications, the formulation of  
4 positions for presentation on behalf of the United States in international standards fora,  
5 and the preparation of technical information and reports for use by industry and  
6 government. These activities are carried out by the volunteer Members of TIA  
7 Engineering Committees, operating under the authority of the TIA Technical Committee,  
8 a Special Committee created by the TIA Board of Directors. The TIA Standards and  
9 Technology Department administers and supports the activities of the Engineering  
10 Committees.

11 This Manual describes the manner in which the Standards activities of the  
12 Telecommunications Industry Association are organized and the manner in which its  
13 activities are conducted.

14 Specific responsibility for overseeing the Standards and Technology Department and  
15 the Engineering Committees has been assigned by the TIA Board of Directors to the  
16 TIA Technical Committee, one of the standing committees established by the Board  
17 under the provisions of the bylaws of the Association. The product Divisions of the  
18 Association sponsor the Engineering Committees working in their product areas by  
19 providing guidance, direction, and administrative funding.

20 Special legal requirements apply to Standards writing. Because of this, Standards and  
21 Specification writing are administered and supported by the Standards and Technology  
22 Department, which also coordinates the technical program and provides a unified  
23 interface with the American National Standards Institute (ANSI) and other Standards  
24 Development Organizations (SDOs).

25 A further purpose of this Manual is to provide legal and policy guidelines for the  
26 formulation and conduct of Engineering Committees, Subcommittees, and Working  
27 Groups. It specifies how such groups are formed or disbanded, how leadership is  
28 chosen and maintained, membership requirements; the development and  
29 implementation of a program of work; the conduct of meetings; administrative  
30 processing of contributions, drafts, and correspondence; relations with other SDOs; and  
31 the responsibilities of the Chairs.

32

## 1 **Statements of Policy of the Standards and Technology Department**

### 2 **Relationship with Other Elements of the TIA**

3 The TIA Engineering Committees shall confine their activities to the preparation of  
4 Standards and Specifications, and to other documents and technical matters, as further  
5 defined in this Manual. The Engineering Committees shall conduct their activities in  
6 strict compliance with the policies, rules and procedures set forth in this Manual, and  
7 with the Legal Guides in ANNEX B to this Manual.

8 It is intended that the other standing and special committees, and the TIA Product  
9 Divisions shall confine their activities to other than Standards, Specifications, and  
10 technical matters, and shall refer such technical matters to the Standards and  
11 Technology Department and appropriate Engineering Committees.

12 The Product Divisions may recommend work programs and guide the efforts of the  
13 Engineering Committees that they sponsor within the Standards and Technology  
14 Department, but shall not themselves engage in the preparation of Standards or  
15 Specifications.

### 16 **Relationship with ANSI**

17 The TIA is a member of the American National Standards Institute which recognizes TIA  
18 as a National Standards Body for the United States.

19 As a matter of policy, it is expected that most new TIA Standards and Specifications are  
20 intended for submission to ANSI as candidates for recognition as American National  
21 Standards. Some areas of technical work may first be defined as TIA Standards, for a  
22 period of five years, before consideration of advancing the document to the status of  
23 American National Standard.

### 24 **International Cooperation and Harmonization**

25 The TIA's trade policy goals include removal of barriers to market access, full  
26 participation of U.S. government and industry in the Standards-setting process  
27 worldwide, and achievement of a minimum level of Standards required to ensure  
28 interoperability and proper function of the international network. In the spirit of these  
29 goals, the TIA encourages its Committees and Staff to work cooperatively with other  
30 Members of the ANSI confederation, international standards bodies and counterpart  
31 national and regional Standards bodies outside the United States to harmonize  
32 telecommunications equipment Standards and to avoid unnecessary duplication of  
33 effort. To this end, the TIA will share its Standards and Specifications, whether work in  
34 progress or completed works, with counterpart Standards organizations in other

1 countries, subject to the intellectual property rights, other property and contractual rights  
2 of third parties and any applicable laws and government regulations. The TIA will also  
3 allow non-voting international observers representing international, regional and  
4 national SDOs to participate in TIA Formulating Group meetings and activities unless  
5 contrary to U.S. law or regulation.

6 In recognition of the common telecommunications network shared by the United States  
7 and Canada, and of the North American Free Trade Agreement (NAFTA), TIA  
8 Engineering Committees are encouraged to work with their Canadian and Mexican  
9 counterpart groups to produce common harmonized Standards as well as encouraging  
10 Canadian and Mexican organizations to directly participate in TIA Formulating Group  
11 activities, subject to any applicable laws and government regulations.

## 12 **Important Notice for Participation**

13 Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-  
14 element thereof, constitutes acceptance of and agreement to be bound by all provisions  
15 of the TIA Engineering Manual and permission that all communications and statements,  
16 oral or written, or other information disclosed or presented, and any translation or  
17 derivative thereof, may without compensation, and to the extent such participant or  
18 attendee may legally and freely grant such copyright rights, be distributed, published,  
19 and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or  
20 TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be  
21 granted or permitted in writing to the Chair of the Formulating Group by TIA's Senior  
22 Vice President, Standards and Special Projects on a case-by-case basis.

## 23 **Intellectual Property Rights Policy**

24 TIA has an Intellectual Property Rights (IPR) Policy, the full text of which can be found  
25 in the TIA Engineering Manual ([www.tiaonline.org/standards/sfg/procedures](http://www.tiaonline.org/standards/sfg/procedures)). We call  
26 to the attention of participants and attendees that TIA's Policy is to encourage, but not  
27 require, the voluntary disclosure (preferably early) of Essential Patent(s) and published  
28 pending patent application(s) that may be essential to the practice of a TIA Publication.  
29 If any such disclosures are made, the procedures to be followed are contained in  
30 Sections (1) through (5) in the Introduction of this Manual.

31 To further assist in the understanding of this Policy, refer to "Guidelines to the  
32 Intellectual Property Rights Policy of the Telecommunications Industry Association"  
33 posted on the TIA website at [www.tiaonline.org/standards/sfg/procedures](http://www.tiaonline.org/standards/sfg/procedures)

34 When an Essential Patent(s) has been identified in any proposed Standard, TIA will  
35 follow a policy based upon that of the American National Standards Institute (ANSI)  
36 ([www.ansi.org](http://www.ansi.org)).

1     1.     *Inclusion of Patents in Standards*

2     There is no objection in principle to drafting a Standard in terms that include the use of a  
3     patented invention, if it is considered that technical reasons justify this approach. If TIA  
4     receives notice that a proposed Standard may require the use of a patent or a published  
5     pending patent application, then the procedures stated below in Sections (2) through (5)  
6     shall be followed.

7     Any discussion regarding terms and/or conditions of a license are not permitted in any  
8     TIA activity.

9     1.1    *Responsibility as Respects Identifying Patents and Licensing Terms*

10    TIA staff is directed to include the following statement in every TIA Publication, which  
11    statement is hereby incorporated by reference in every such TIA Publication.

12         TIA shall not be responsible for identifying patents for which licenses may be  
13         required in connection with any TIA Publication or for conducting inquiries into  
14         the legal validity or scope of those patents that are brought to its attention.  
15         TIA will neither be a party to discussions of any licensing terms or conditions,  
16         which are left to the parties involved, nor will TIA opine or judge whether  
17         proposed licensing terms or conditions are reasonable or non-discriminatory.

18    1.2    *Patent Holder Statement*

19    Prior to approval of each such proposed Standard, TIA shall receive an effective Patent  
20    Holder Statement in the form of ANNEX H from any party identified in any manner as a  
21    Patent Holder. The statement must be in the words of the TIA-approved form entitled  
22    “Patent Holder Statement-Specific”, attached hereto as ANNEX H with one of the  
23    paragraphs 1, 2a, or 2b checked. Where a party identified as a Patent Holder refuses  
24    to furnish a statement in the form of ANNEX H with one of the paragraphs 1, 2a, or 2b  
25    checked, the standard should be referred back to the Formulating Group for further  
26    consideration.

27    In addition, “Patent Holder Statement-General”, attached hereto as ANNEX H.1 can be  
28    used for multipart Standards or other specific groupings of Reference Documents. All  
29    forms of ANNEX H are also located at  
30    <http://www.tiaonline.org/standards/sfg/procedures/ipr.cfm>, and such form shall be used  
31    to submit Patent Holder Statements whether electronic or written. If a Patent Holder  
32    Statement is received by TIA that is deemed not to be in accordance with this  
33    Intellectual Property Rights Policy by the Standards and Technology Department, TIA  
34    will return the Statement to the submitter with an explanation of reasons for rejection  
35    and deem the Statement ineffectual. TIA will also advise the Chair of the Formulating  
36    Group of any patent(s) or published pending patent application(s) identified therein, and  
37    that the Statement was deemed ineffectual. Whenever a proposed Standard undergoes

1 a revision necessitating a new ballot, new Patent Holder Statements will be requested  
2 from each identified party or Patent Holder unless the revision is encompassed in a  
3 previously submitted ANNEX H.1 Statement.

#### 4 1.3 *Record of Statement*

5 Prior to approval of a proposed Standard, a record of the Patent Holder's Statement  
6 shall be placed and retained in the files of TIA. TIA will forward a copy of the statement  
7 to ANSI when the document in process is related to the development of an American  
8 National Standard.

#### 9 1.4 *Notice*

10 Unless otherwise directed by TIA's Senior Vice President, Standards and Special  
11 Projects, when TIA receives a Patent Holder Statement with either Paragraphs (2a) or  
12 (2b) of ANNEX H marked, the Standard shall include a note as follows:

13 NOTE: The user's attention is called to the possibility that compliance with this  
14 document may require use of one or more inventions covered by patent rights.

15 By publication of this Standard, no position is taken with respect to the validity or scope  
16 of any claims of such rights or of any patent rights in connection with this Standard. The  
17 Patent Holder(s) so far identified to TIA have, however, filed statements of willingness to  
18 grant licenses under those rights on reasonable and nondiscriminatory terms and  
19 conditions (either with or without monetary compensation) to applicants desiring to  
20 obtain such licenses for the purpose of practicing any or all Normative portions of this  
21 Standard for the field of use of practice of the Standard. Details regarding the filed  
22 statements may be obtained from the TIA.

#### 23 2. *Inclusion of Software as a Normative Element (Mandatory, Optional or Alternate)*

24 The purpose of this Section is to provide guidance in the event a Formulating Group  
25 decides to incorporate Software in a Standard under such circumstances that any party  
26 seeking to practice the Standard may require a copyright license to do so. In other  
27 words, it is intended to cover the situation where the practice of the Standard in the  
28 absence of a copyright license would necessarily infringe copyright in the Software.  
29 Since, unlike patents, a copyright grants to its owner the right to exclude others from  
30 copying a particular expression of an idea, or several ideas, without granting protection  
31 to the ideas expressed, it is clear that such rights are substantially different from those  
32 involved when a patent is issued. Some Software is protected by patents. These  
33 guidelines are not concerned with such cases. These guidelines are in addition to the  
34 provisions contained in this TIA Engineering Manual, which deal with the grant of  
35 copyright to TIA, with certain sublicensing rights, for the purpose of printing, distribution  
36 and other reproduction of Standards and other TIA Publications.

1    2.1    *General Considerations*

2    In general, TIA discourages Formulating Groups from including essential copyrighted  
3    Software in a Standard in such a manner that the Standard cannot be practiced without  
4    infringing the copyright rights in the absence of a license. It should also be noted that if  
5    a different expression of the same ideas as are contained in the copyrighted software is  
6    possible so those wishing to do so may practice the Standard without infringing the  
7    copyright, then such copyright is not deemed essential and these guidelines do not  
8    apply.

9    2.2    *Exclusions*

10   Object Code shall never be included in a TIA Standard as a Normative element. Object  
11   Code may be included for Informative purposes.

12   2.3    *Source Code*

13   In the event a Formulating Group, for technical reasons, concludes that is necessary for  
14   essential Software to be included in a Standard, the procedures outlined in Section 2.4  
15   shall be followed. An example of such a conclusion may be the use of complex  
16   algorithms in speech coders in which only one algorithm can be used for interoperability  
17   purposes.

18   2.4    *Procedures*

19   If a Formulating Group is considering a decision to incorporate copyrighted Software as  
20   a Normative element in a Standard, then the following shall apply:

21   (a) Software Copyright Holder shall submit, in addition to a submission cover sheet with  
22   required elements as specified in Section 6.4.5, and as part of its submission, a  
23   Software Copyright Statement in the form of ANNEX I, "Software Copyright Holder  
24   Statement" attached hereto.

25   (b) if the Formulating Group so decides, a submission of Software will not be considered  
26   for inclusion in a Standard unless the Software Copyright Holder agrees to grant a  
27   license to all who apply for it for the purpose of evaluating the Software for inclusion in  
28   the proposed Standard, then such agreement shall be in the form of ANNEX J,  
29   "Software Evaluation License" attached hereto.

30   (c) the Formulating Group shall use reasonable efforts to define responsibility for the  
31   maintenance of the Normative Software.

1 **Metric Policy**

2 As shown in the *TIA Style Manual (Section 4.8)*, the International System of Units (SI),  
3 as specified in *ANSI/IEEE-268* or its subsequent revisions, shall be used in TIA  
4 Standards. If necessary, dual dimensioning can be used but the policy requires that any  
5 variation from the policy be explained in the foreword or introduction.

6

## 1 **Definitions and Terms**

2 An understanding of the terms below will be helpful in following the text of this Manual.

3 **Addendum** – a document which supplements an existing standard and

4 i. Adds technical requirements to an existing standard that do not change previously  
5 published requirements; or

6 ii. Revises one or two portions of a large existing standard.

7 **Advisory Note** - text to change or modify the current Engineering Manual until revised  
8 and approved by ANSI. The proposed text must be approved by the Technical  
9 Committee prior to release, and is withdrawn after it has been incorporated into the next  
10 version of the Manual. (See Section 14)

11 **American National Standard** - a standard developed by an ANSI-accredited standards  
12 developer and approved by the ANSI Board of Standards Review.

13 **American National Standards Institute or ANSI** – serves as administrator and  
14 coordinator of the United States private sector voluntary standardization system.  
15 Founded in 1918 by five engineering societies and three government agencies, the  
16 Institute remains a private, non-profit membership organization supported by a diverse  
17 constituency of private and public sector organizations and accredits standards  
18 developers in the United States.

19 ANSI does not itself develop American National Standards; rather it facilitates  
20 development by establishing consensus among qualified groups. The Institute ensures  
21 that its guiding principles – consensus, due process and openness – are followed by the  
22 almost 200 distinct entities currently accredited under the Federation's accreditation  
23 program

24 **Association** - (when capitalized) The Telecommunications Industry Association.

25 **Ballot** – as used in this Manual, there are two types of ballots: Letter Ballot and  
26 Standards Proposal Ballot (See specific definitions).

27 **Bulletin** - although not a Standard, contains technical information that may have  
28 significant value to industry or users. Most often, TIA publishes Telecommunications  
29 Systems Bulletin (TSB); however, other types of Bulletins exist. (See Section 8.2)

30 **Consensus** – established when those participating in the consideration of the subject at  
31 hand have reached substantial agreement. Substantial agreement means more than a  
32 simple majority, but not necessarily unanimity. Consensus requires that all views and  
33 objections be considered and that a concerted effort be made toward their resolution.  
34 Consensus may also be achieved when the minority no longer wishes to articulate its

- 1 objection. The opinions of the minority should be recorded with the report of the  
2 substantial agreement (consensus) of the majority.
- 3 **Contribution** - as defined in Section 6.4.2 of this Manual.
- 4 **Division** - an affinity grouping of TIA Member companies by product category. (See  
5 Section 2.1)
- 6 **Engineering Committee** - a Committee of volunteer members, established under the  
7 authority of the TIA Technical Committee to formulate Standards and provide other  
8 engineering functions in support of the TIA. (See Section 3.1)
- 9 **Erratum** - a document which corrects a manifest mistake or omission in the original text  
10 of the Standard or an error subsequently discovered.
- 11 **Essential Patent** - only the claim(s) of a patent (whenever issued) which is (are)  
12 necessarily infringed by the practice of a Normative portion of a TIA Standard.
- 13 **FO- Committee** - an Engineering Committee sponsored by the TIA Fiber Optics  
14 Division.
- 15 **Formulating Group** - Engineering Committee, Subcommittee, or Working Group that  
16 specifically has been delegated formulating authority to develop standards. It elects its  
17 leadership and conducts all of its meetings with the same formality (e.g., notice of  
18 meetings, meeting reports, voting lists, recorded votes, etc.), and within the authority  
19 granted by its parent body. Such term does not include a Task Group. (See Section 3.1)
- 20 **Interim Standard or IS** - a term used by TIA until 2001 to indicate a standard released  
21 for a limited period, prior to its being submitted for approval as an American National  
22 Standard. All interim standards in effect *upon the date* of the adoption of 3<sup>rd</sup> edition of  
23 the TIA Engineering Manual (July 2001) shall be governed by the TIA Engineering  
24 Manual dated 1991.
- 25 **Joint Standards Document or JSD** - standard developed by a Joint Standards Group  
26 comprised of two or more internal or internal/external entities of Standards Developing  
27 Organizations. (See Section 6.1.1).
- 28 **Interest Category** – classification of the respondents to a Standards Proposal Ballot is  
29 required by ANSI. The categories used by TIA are (See Section 3.2.2):
- 30 **Producer** - a manufacturer or fabricator of a product or device;
- 31 **User** - a company or organization or individual that utilizes the product or item  
32 standardized
- 33 **Producer/User** - a company or organization that both produces the product or  
34 device or standardized item and also utilizes the product or item standardized;

1           and

2           **General Interest** - any interested party not defined in the other listed categories.

3   **Letter Ballot** – submitted to the TIA Standards Secretariat for distribution to specified  
4 TIA Formulating Group(s). It is issued for no less than 30 days, but at the Chair’s  
5 discretion can be issued for a longer period of time. It can also be extended if it is  
6 determined that a simple majority of Formulating Group member ballots have not been  
7 returned.

8   **Member (of the TIA)** - a company holding general class membership in the TIA. (See  
9 Section 2.1.)

10 **Member (Formulating Group)** - a company or organization which holds voting status in  
11 a TIA Formulating Group, but not necessarily a TIA Member. (See Section 3.2)

12 **Normative (alternate) elements** - those elements of a Standard, any one or more of  
13 which may be complied with in order to claim conformity with the Standard.

14 **Normative (mandatory) elements** - those elements of a Standard which always must  
15 be complied with in order to claim conformity with the Standard.

16 **Normative (optional) elements** - those elements of a Standard which may be selected  
17 in order to claim conformity with the Standard and which if selected, must be  
18 implemented as specified in the Standard.

19 **Object Code** – instructions which can be directly run by a computer. Object code is not  
20 intended to be human-readable, and generally can be used only on a subset of  
21 computers or systems. For the purposes of this document Object Code includes, but is  
22 not limited to, dynamically linked libraries, object code libraries, and binary executable  
23 code. (Definition based on ITU TSB Director’s Ad hoc Group on IPR Software Copyright  
24 Guidelines – Issue 2.1)

25 **Patent Holder** – a party having the legal ability to grant licenses with respect to patents  
26 under the conditions provided by the TIA IPR Policy.

27 **Public Review Document** – a Standards Proposal announced in the *ANSI Standards*  
28 *Action* for a 30, 45 or 60-day review and comment period.

29 **Publication** - any TIA Standard and Technology Department document that is  
30 published by the department and available for sale or distribution to the general public.  
31 It does not include documents intended for distribution to only members of Formulating  
32 Groups.

33 **Quorum** – a simple majority of the listed voting member companies in a formulating  
34 group (See Section 5.3.2)

- 1 **Reference Document** – the associated Project Initiation Number, Standards Proposal  
2 number, reserved or actual document number, or designated title of a Standard as  
3 provided by the TIA Standards Secretariat.
- 4 **Simple Majority** - 50% of those eligible to vote, rounded down to an integer value  
5 plus 1  
6
- 7 **Software** -- a program, or portion thereof, written in Source Code regardless of  
8 programming language or storage medium used.
- 9 **Software Copyright Holder** – a party having the legal ability to grant licenses with  
10 respect to Software copyrights under the conditions provided by the TIA IPR Policy.
- 11 **Source** – the owner of the copyright or license right, if any, submitted in a submission.  
12 Examples include a company’s name, an individual’s name, or an organization’s name.  
13 In the case of a United States government agency, it is acceptable to list the agency  
14 name even though the material submitted by the government is in the public domain.
- 15 **Source Code** – the input to a compiler, interpreter, or assembler which can be  
16 processed to produce Object Code. Source Code is intended to be human-readable,  
17 and in principle can be converted to Object Code usable on any computer or system.  
18 (Definition based on ITU TSB Director’s Ad hoc Group on IPR Software Copyright  
19 Guidelines – Issue 2.1)
- 20 **Specification** - as used in this Manual, a document which is a form of Standard  
21 prepared specifically to facilitate procurement that clearly and accurately describes the  
22 essential technical requirements for purchased material. Procedures necessary to  
23 determine that the requirements for the purchased material covered by the Specification  
24 has been met are also referenced or included. (See Section 6.2)
- 25 **Standard (TIA)** - as used in this Manual, a document that establishes engineering and  
26 technical requirements for processes, procedures, practices and methods that have  
27 been adopted by consensus. Standards may also be established for selection,  
28 application and design criteria for material. (See Section 6.2)
- 29 **(1) TIA Standards** – a Standard developed through the consensus process of a TIA  
30 Formulating Group that is submitted as a Letter Ballot to the TIA Standards  
31 Secretariat. The relevant documentation is approved by TSSC before it is issued as  
32 a TIA Standard. It is not necessary for the document to be submitted for the ANSI  
33 public review period because the Standard is not designated as an American  
34 National Standard at the time of ballot. (See Section 6.2)
- 35 **(2) ANSI/TIA (ANS) Standards** – a Standard developed through the consensus  
36 process of a TIA Formulating Group that is submitted as a Standards Proposal Ballot  
37 to ANSI (as this term is used by ANSI) for a public review period. At the close of the  
38 public review period, the TSSC must approve the relevant documentation. In

1 addition, the voting record and relevant documentation must be approved by the  
2 ANSI Board of Standards Review before it is approved and designated as an  
3 American National Standard developed by TIA. (See Section 6.2)

4 **Standards Development Organization (SDO)** – there are at least two types of  
5 standards development organizations. The first type is an organization in the United  
6 States accredited by ANSI that uses a method of consensus development in which the  
7 standards developer must develop its own operating procedures. The procedures must  
8 meet the requirements of the ANSI Procedures. By choosing to use this method,  
9 flexibility is provided, allowing the standards developer to utilize a system that  
10 accommodates its particular structure and practices. Entities outside the United States  
11 are also referred to as SDOs, but the body that accredits or authorizes the operating  
12 procedures is unique to a particular country or region. The second type of SDO is an  
13 organization which develops standards but is not accredited by ANSI or some body that  
14 accredits or authorizes the operating procedures unique to a particular country or  
15 region.

16 **Standards Proposal Ballot** – used for approving the creation, revision, reaffirmation or  
17 withdrawal of an American National Standard. It is submitted to the TIA Standards  
18 Secretariat with the appropriate Ballot Authorization form by the Formulating Group for  
19 distribution to the registered voters for the subject standard. The formulating group may  
20 request a 45-day Public Review instead of the normal 60-day Public Review if the  
21 document meets the ANSI guidelines for 45-day Public Review. All Standards Proposal  
22 Ballots designated for 45-day Public Review must be available electronically to the  
23 requestor. The availability of the document must be announced in ANSI's *Standards*  
24 *Action*.

25 **Sub-Element** –any Subcommittee, working group or ad hoc group under the auspices  
26 of a Formulating Group

27 **Supplemental Representative** - an individual designated by a company or  
28 organization which is a Member of a Formulating Group, to receive Committee mailings,  
29 but is not the Voting Representative. (See Section 3.2.3.3.)

30 **Technical Committee** - one of the special committees created by the Board of  
31 Directors of the TIA to set policy for the operation of the TIA engineering program. (The  
32 Technical Committee is not to be confused with "Engineering Committee"). (See  
33 Section 2.4.1)

34 **Technical Standards Subcommittee (TSSC)** - a Subcommittee of the Technical  
35 Committee, which performs a specific role in the Standards approval process. (See  
36 Section 2.4.2 and ANNEX A)

37 **Telecommunications Systems Bulletin or TSB** - a document proposed by a  
38 Formulating Group to publicize material which, although not a published Standard, may  
39 have significant value to industry or users. On occasion, a TSB may be used to bring

- 1 important information to the attention of industry and the public prior to the publication of  
2 a Standard on the same subject, but a TSB is not a Standard, and must bear a  
3 statement to that effect. Accordingly, a TSB shall not modify or amend any existing  
4 Standard, but may announce planned enhancements or modifications for a particular  
5 Standard. The defined purpose of a TSB is to be informative in nature and shall not  
6 contain any Normative elements, including in the annexes.
- 7 **TR- Committee** - an Engineering Committee sponsored by one of the TIA's product-  
8 oriented Divisions, other than the Fiber Optics Division. The designator "TR" is historic,  
9 and probably refers to "transmitters", although a modern definition would be  
10 "Telecommunications Requirements."
- 11 **Voting Representative** - an individual designated by a member company that is a  
12 Member of a Formulating Group, to vote on its behalf at meetings. (See Section  
13 3.2.3.1.)



## 1 **1 Objective**

2 The engineering activities of the TIA are organized to conduct standardization programs  
3 and to provide other appropriate technical and engineering services within the scope of  
4 the Association, subject to policies established by the Board of Directors. All activities  
5 must be conducted within the Legal Guides established by the Association (See ANNEX  
6 B).

## 7 **2 Organization**

### 8 **2.1 General**

9 The TIA is a national trade association serving manufacturers, suppliers, distributors,  
10 and users of telecommunications equipment and systems. General members are  
11 companies (or a division of a company) formed under the laws of the United States  
12 engaged in the business of developing, manufacturing, distributing, selling, installing,  
13 launching or consulting in respect to, communications or information technology  
14 products (including software) or services other than common carrier services. TIA  
15 publishes an Annual Report that is available upon request that describes TIA's  
16 organization and accomplishments. In addition, TIA publishes a *Standards and*  
17 *Technology Annual Report (STAR)* that covers the activities of the Standards and  
18 Technology Department and the Engineering Committees. Both documents are  
19 available on the TIA website.

20 The affairs of the Association are managed by the Board of Directors elected from the  
21 TIA Membership. The general operations of the Association and its Staff are under the  
22 direction of the President who is also a member of the Board. The Board has created  
23 standing committees to establish policy and carry out specialized programs within the  
24 scope of the standing committee.

25 In addition to the general activities of the Association, Member companies have the  
26 option of associating with one or more of the TIA's product-oriented Divisions in such  
27 product areas as: Fiber Optics, Wireless Communications, Network Equipment, Satellite  
28 Communications, and User Premises Equipment.

### 29 **2.2 Standards and Technology Department**

30 The Standards and Technology Department is one of many departments of the TIA and  
31 provides services to the various TIA product-oriented Divisions, the standing  
32 committees, and the TIA general membership. All TIA Engineering Committees fall  
33 under the jurisdiction of the TIA Technical Committee of the TIA Board of Directors. TIA  
34 product-oriented Divisions and other trade associations often outline technical needs to  
35 the Standards and Technology Department for action, the result of which may take the  
36 form of TIA Standards, Specifications, Bulletins, or other publications, technical  
37 positions on government regulations or military specifications, formulation of positions

1 on international and regional Standards, or the sponsoring of technical conferences and  
2 symposia. ANSI requires open membership in the Formulating Groups to all interested  
3 parties when developing American National Standards. Since the product-oriented  
4 Divisions are only open to general members, direction and guidance from the Division  
5 on technical matters within the scope of the Formulating Groups is advisory and not  
6 mandatory.

## 7 **2.3 Administration**

8 The Standards and Technology Department is headed by the Vice President, Standards  
9 and Technology who reports to the President and is responsible for carrying out the  
10 engineering activities of the Department. The responsibilities include the management  
11 of the Standards and Technology Department Staff and facilities, and general guidance  
12 of the activities of the Committees.

13 Any of the Standards staff may assist the Vice President, Standards and Technology in  
14 the conduct of work of the Standards and Technology Department.

## 15 **2.4 Structure**

16 At the highest level, the TIA Board of Directors oversees the affairs of the Association  
17 and directs its President and professional staff. The technical affairs of the Association  
18 are under the TIA Technical Committee. The Standards and Technology Department  
19 staff provide administrative support to the Technical Committee and its sub-elements,  
20 the product-oriented Divisions and their sub-elements, and the Engineering Committees  
21 and their sub-elements. A current organizational chart can be found in *the Standards  
22 and Technology Annual Report*.

### 23 *2.4.1 TIA Technical Committee*

24 The Technical Committee is one of the special committees created by the Board of  
25 Directors and chaired by a member of the Board to oversee the Standards and  
26 Technology Department and the standards program. The Technical Committee has  
27 overall responsibility for establishing the broad technical policy of the Association,  
28 including the organization and operating policies of the Standards and Technology  
29 Department and Engineering Committees, and advises the Board of Directors on  
30 technical issues. The Technical Committee monitors the activities of TIA's Formulating  
31 Groups and TIA's liaison and coordination with ANSI and domestic and international  
32 standards-setting organizations. The Committee also serves as liaison to EIA's  
33 Engineering Department. From time to time the Technical Committee may create  
34 Subcommittees or Working Groups to address specific issues as necessary. All  
35 Engineering Committees are under the authority and jurisdiction of the Technical  
36 Committee. The Technical Committee acts as the contact point for members' technical  
37 concerns.

## 1 2.4.2 TIA Technical Standards Subcommittee (TSSC)

2 The Technical Standards Subcommittee (TSSC) is a special Subcommittee of the TIA  
3 Technical Committee. The TSSC provides the initial approval of all projects requested  
4 by TIA Formulating Groups and monitors for duplication of work between Formulating  
5 Groups. In addition, the TSSC reviews projects being undertaken by other Standards  
6 Development Organizations (SDO) to determine if there is overlap of projects between  
7 TIA and other SDOs.

8 TSSC ensures there is liaison internally and externally so that TIA Standards activities  
9 remain within assigned Scopes. The TSSC approves all Scopes of new Engineering  
10 Committees and revisions to those Scopes. The TSSC monitors the overall  
11 Engineering Committee work program at TIA and provides guidance as necessary.

12 When conflicts develop between Formulating Groups, the TSSC will attempt to resolve  
13 the conflict, and failing a resolution will escalate the matter to the Chair of the Technical  
14 Committee for appropriate action.

15 The TSSC reviews all new Standards Proposals recommended by Formulating Groups.  
16 The TSSC does not review Standards Proposals for technical content. This review  
17 verifies that the Standards Proposal has been prepared in full compliance with the rules  
18 and procedures of TIA for such programs and further verifies that the balloting process  
19 has met the requirements of TIA and ANSI, where appropriate. The TSSC has given  
20 the Standards Secretariat the authority to review and approve Standards Proposals for  
21 creation, reaffirmation, revision, and withdrawal of a proposed document that has no  
22 unresolved comments. The full membership of the TSSC will review all Standards  
23 Proposals that have unresolved comments before recommending the document for  
24 publication to ANSI. In the case of documents that are not Standards Proposals, only  
25 the Chair of the TSSC reviews documents recommended by Formulating Groups and  
26 approves the document for publication.

27 The membership and operating procedures for the TSSC are set forth in ANNEX A.

## 28 **3 Engineering Committees**

29 The work of the Standards and Technology Department is conducted through its  
30 Engineering Committees and their sub-elements with the assistance of the Standards  
31 and Technology Department Staff.

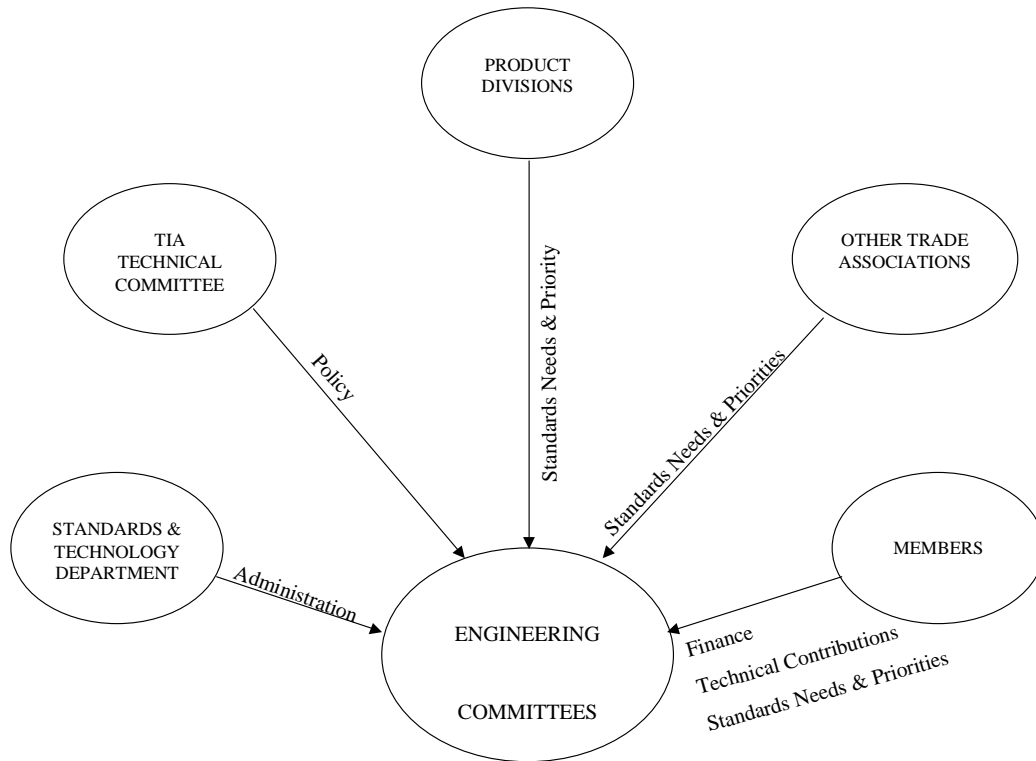
### 32 **3.1 Establishment and Dissolution of Engineering Committees**

33 The Chair of the Technical Committee has authority to create Engineering Committees  
34 and to dissolve those that are no longer needed, subject to the approval of the  
35 Technical Committee membership. Such Engineering Committees normally will be  
36 organized to correspond to the appropriate product structures of the TIA product-  
37 oriented Divisions. Engineering Committees also may be organized directly under the

1 auspices of the TIA Technical Committee when the planned work is interdisciplinary or  
2 when other circumstances dictate (as shown below).

3

4



5

### 6 3.1.1 Election of Leadership

7 The election to the office of Chair and Vice Chair of an Engineering Committee is a  
8 personal one, not directly tied to a person's employer. However, TIA and ANSI have  
9 policies that require balance in Committee structures. No one company should  
10 dominate a Committee's leadership positions. In addition, when an individual is initially  
11 a candidate for a leadership position or when that individual changes employers, the  
12 support of their company or organization is required.

13 The Chair of the Technical Committee shall appoint a facilitator for any newly organized  
14 Engineering Committee. A new Engineering Committee shall elect a candidate by the  
15 end of its second meeting to serve a two-year term, and the term of office shall begin at  
16 the close of the meeting at which they are elected. Leadership elections shall be held in  
17 accordance with the election procedures described in Section 4.

18 The new Engineering Committee shall forward the elected candidate's name to the  
19 Chair of the Technical Committee and TIA Standards Secretariat for confirmation.

1 The Chair of the Technical Committee in consultation with the Standards Secretariat  
 2 shall review the candidate's eligibility requirements as herein (See Section 4.1)  
 3 provided. If the candidate is eligible, the Chair of the Technical Committee shall confirm  
 4 the candidate to the office to which he/she was elected. If the candidate is ineligible, the  
 5 Chair of the Technical Committee shall so advise the Engineering Committee in  
 6 question and re-initiate the election procedure by appointing a facilitator.

7  
 8 The Chair of an Engineering Committee shall appoint a facilitator for any newly  
 9 organized sub-element. A new sub-element shall elect a candidate by the end of its  
 10 second meeting to serve a two-year term, and the term of office shall begin at the close  
 11 of the meeting at which they are elected. New leadership elections shall be held in  
 12 accordance with the election procedures described in Section 4.

13  
 14 The Chair of the Engineering Committee shall forward the elected candidate's name to  
 15 the Chair of the Technical Committee and TIA Standards Secretariat for confirmation.  
 16 The Chair of the Technical Committee in consultation with the Standards Secretariat  
 17 shall review the candidate's eligibility requirements as herein provided. If the candidate  
 18 is eligible, the Chair of the Technical Committee shall confirm the candidate to the office  
 19 to which he/she was elected. If the candidate is ineligible, the Chair of the Technical  
 20 Committee shall so advise the Engineering Committee in question and re-initiate the  
 21 election procedure by appointing a facilitator.

22  
 23 Chairs and Vice Chairs of even numbered Formulating Groups shall stand for re-  
 24 election in even numbered years (i.e., 2000, 2002), Chairs and Vice Chairs of odd  
 25 numbered Formulating Groups shall stand for re-election in odd numbered years (i.e.,  
 26 2001, 2003). This will ensure continuity when leadership changes.

### 27 28 *3.1.2 Dismissal of Leadership*

29 If requested by a simple majority of the Formulating Group voting membership (at a  
 30 meeting or in writing) a 30-day secret Letter Ballot of the voting membership shall be  
 31 conducted for the proposal to dismiss a Chair or Vice-Chair. For dismissal at least 75%  
 32 of the votes cast must be in favor of dismissal. The parent Committee Chair and  
 33 Technical Committee Chair shall confirm the dismissal process.

### 34 *3.1.3 Establishment and Dissolution of Subcommittees, Working Groups, or Task* 35 *Groups*

36 Subcommittees, Working Groups, or Task Groups may be established by an  
 37 Engineering Committee if deemed necessary to carry out its mission.

- 38 (1) **Subcommittees** normally will be formed when it is desirable to divide  
 39 responsibility for the subject matter falling within the scope of an Engineering  
 40 Committee. Subcommittees, like their parent Committees, have no fixed term of  
 41 existence and are intended to continue to exist until there is no need.  
 42 Subcommittee Chairs and Vice Chairs shall be elected by the Subcommittee

1 Membership, using the same processes and subject to the same term limitations  
2 as that of Engineering Committee leadership. The Chair of the parent  
3 Engineering Committee may dissolve the Subcommittee, with the approval of the  
4 Engineering Committee when it is no longer required.

5 (2) **Working Groups** are established by an Engineering Committee or  
6 Subcommittee for specific purposes, such as (but not limited to) developing a  
7 draft of a specific Standard or Specification, and may be dissolved by the Chair  
8 of the parent body when their function is no longer required. The Chair of the  
9 Working Group is appointed by the Chair of the parent body except when the  
10 Working Group is a formulating body. If a Working Group is granted formulating  
11 authority, its leadership shall be elected as described for Formulating Groups and  
12 it must follow all procedures for submitting meeting notices, agenda and reports.  
13 The Vice Chair is appointed by the Chair of the Working Group with the provision  
14 that the Vice Chair is not from the same company as the Chair.

15 (3) **Task Groups or ad hoc groups** are bodies that are established by an  
16 Engineering Committee, Subcommittee, or Working Group to address a specific  
17 problem as part of the larger body. Task Groups meet informally and do not  
18 have a standard-formulating mission. The Chair of the parent body shall dissolve  
19 the task or ad hoc group when the purpose for which it was formed has been  
20 completed. Appointment of a Task Group Chair (where appropriate) and  
21 dissolution of the Task Group are functions of the Chair of the parent body. The  
22 Vice Chair is appointed by the Chair of the Task Group or Ad Hoc Group with the  
23 provision that the Vice Chair is not from the same company as the Chair.

24 An alphanumeric designation of the pattern *TRXX* (or *FOXX*) (e.g., *TR-15*) will be  
25 assigned to each Engineering Committee by the TIA Standards and Technology  
26 Department. Subcommittees shall be designated by the addition of a decimal and a  
27 numerical suffix; e.g., *TR15.1*, and Working Groups shall be designated by the addition  
28 of a further decimal and numerical suffix; e.g., *TR15.1.1*. Where a Working Group or an  
29 ad hoc group is directly attached to an Engineering Committee, the numerical suffix 0  
30 (i.e., *TR15.0.1*) or an alphabetical suffix (*i.e.* *TR15ABC*) may be used to so indicate.

### 31 *3.1.4 Establishment and Revision of Formulating Group Scope*

32 When a new Engineering Committee has been established, the elected Committee  
33 Chair shall be required to submit a proposed Committee Scope, defining the technical  
34 area of responsibility, for the review and approval of the TIA Vice President, Standards  
35 and Technology and the TSSC. When approved and published, that scope becomes  
36 the principal guide for the work of the Committee. Subcommittee Scopes must be within  
37 the parent Engineering Committee Scope and should be forwarded to the parent  
38 Engineering Committee for initial approval. The Scope approved by the parent  
39 Engineering Committee shall then be transmitted to the TSSC for final approval and  
40 publication. Formulating Group Scopes do not require ANSI approval.

1 Scopes of all Engineering Committees and Subcommittees are published by the  
2 Standards and Technology Department in a Committee Scope Manual supplied to all  
3 Engineering Formulating Group Chairs. The Scope Manual is posted on the TIA web  
4 site.

### 5 *3.1.5 Formulating Group Functions*

6 TIA Formulating Groups shall develop projects listed in Section 6.1, as well as  
7 contribute to the development and coordination of U.S. positions (See Section 3.2.1) on  
8 technical matters related to international, regional, and other national Standards bodies.  
9 The TIA Formulating Groups may also provide assistance, information, and  
10 recommendations on engineering matters to the product-oriented Divisions, the  
11 standing and special committees, the officers, and the Board of Directors of the TIA.  
12 The Formulating Groups may also select delegates that will represent the group in  
13 meetings with other standards groups. In addition, at the suggestion of their sponsoring  
14 Divisions or the Standards and Technology Department, they may engage in other  
15 engineering-related activities in keeping with their scopes and the TIA Legal Guides.

## 16 **3.2 Application for Membership to Formulating Groups**

17 Application for membership on a TIA Formulating Group shall be submitted either in  
18 writing or via e-mail to the TIA Standards Secretariat who will forward a copy to the  
19 Chair of the Formulating Group. An organization requesting membership shall state its  
20 reason(s) for seeking membership and the relevant contact information for its  
21 designated representatives. The organization shall designate one such representative  
22 as its Voting Representative and may designate additional parties as Supplemental  
23 Representatives. The TIA Standards Secretariat will inform the party of the fees  
24 involved, if any, and the rules for participation. The Secretariat will also inform the  
25 requester of the requirement to attend two meetings to demonstrate an active interest  
26 and to obtain meeting voting rights. The requirements to maintain meeting voting rights  
27 will also be provided. The TIA Standards Secretariat will advise the Formulating Group  
28 Chair on the verification of status and whether all TIA general class member dues or  
29 non-member fees have been paid. (See Section 3.2.9)

### 30 *3.2.1 Eligibility for Participation in Formulating Groups*

31 Participation in Engineering Committees and their sub-elements is open to any person  
32 or company (or comparable body)<sup>1</sup> that has a direct and material interest within the  
33 respective jurisdiction of the Formulating Groups. TIA Membership is not a prerequisite  
34 to participation. (See Section 3.2.4 for government participation.)

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<sup>1</sup> A company (or comparable body) is a corporation, other legal entity, partnership, or sole proprietorship organized under the laws of a specific country or countries. Comparable bodies include organizations; associations; trade unions; and institutions, including government agencies and international organizations.

1 The working language for all such Committees and sub-elements shall be English.  
2 Persons participating in such programs should be technical personnel. Under some  
3 circumstances, eligibility for Membership may be limited by circumstances beyond the  
4 TIA's control, such as government regulations, the need for security clearances, etc.  
5 Any question as to eligibility shall be referred to the TIA Standards and Technology staff  
6 person assigned to a respective Formulating Group. Whenever government regulations  
7 or government policies require, or the need to develop a USA-only position or  
8 recommendation arises, that portion of a meeting may be limited to USA participants<sup>2</sup>  
9 only.

### 10 *3.2.2 Formulating Group Balance*

11 All appropriate interests that might be directly and materially affected by the standards  
12 activity of the committee shall have the opportunity for fair and equitable participation  
13 without dominance by any single interest category, individual or organization. Each  
14 member shall designate its own interest category as appropriate and in accordance with  
15 the committee's already established categories. Interest categories appropriate to the  
16 development of consensus in any given standards activity are functions of the nature of  
17 the standards being developed. In defining the interest categories appropriate to a  
18 standards activity, consideration shall be given to at least the following: (a) Producer, (b)  
19 User, (c) Producer/User, and (d) General Interest.

20 The standards development process should have a balance of interests.  
21 Participants from diverse interest categories shall be sought with the objective of  
22 achieving balance.

23 Dominance means a position or exercise of dominant authority, leadership, or influence  
24 by reason of superior leverage, strength, or representation to the exclusion of fair and  
25 equitable consideration of other viewpoints. The requirement implicit in the phrase  
26 "shall not be dominated by any single interest category, individual or organization"  
27 normally will be satisfied by the historical criteria for balance that is: a) no single interest  
28 category constitutes more than one-third of the membership of a committee dealing with  
29 safety or b) no single interest category constitutes a majority of the membership of a  
30 committee dealing with product standards.

31 Unless it is claimed in writing (including electronic communications) by a directly and  
32 materially affected party that a single interest category, individual or organization  
33 dominated the standards development process, no test for dominance is required.

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<sup>2</sup> A USA Participant is a company or comparable body organized under the laws of any state of the United States of America.

### 1 3.2.3 *Company or Organizational Representation in Formulating Groups*

#### 2 3.2.3.1 *Voting Representative – One Company, One Vote*

3 Membership in TIA Formulating Groups is vested in companies (or comparable bodies)  
 4 whether TIA Member or non-Member<sup>3</sup>. An individual designated by the company is  
 5 placed on the list of Voting Representatives and exercises full Membership privileges  
 6 after the company has been represented at two consecutive meetings and such voting  
 7 right vests after quorum (See Section 5.3.2) has been established at the second  
 8 meeting attended<sup>4</sup>. (See Section 3.2.5 below for Membership voting continuation  
 9 requirements.)

10 Representatives on Engineering Committees and sub-elements are considered to be  
 11 acting for their respective companies or organizations in developing an industry position  
 12 on issues before such Formulating Groups. Voting representation from any company or  
 13 organization is limited to one representative on any Formulating Group or sub-element<sup>5</sup>.  
 14 Where a company includes several divisions or subsidiaries, voting representation is  
 15 limited to one person from that company unless it can be shown that the operations are  
 16 so different as to represent different interest categories (i.e., one company, one vote).

#### 17 3.2.3.2 *Alternate Voting*

18 When the designated Voting Representative is not present at a Formulating Group  
 19 meeting or is unavailable to respond to a ballot, any other employee or representative of  
 20 that company may be designated by it to exercise Formulating Group Membership  
 21 privileges, including voting, on behalf of that Member. In such case, only one such  
 22 company representative may vote, per the requirements of 3.2.3.1, above.

#### 23 3.2.3.3 *Supplemental Representative*

24 In addition to the Voting Representatives list referred to above, the TIA maintains a  
 25 supplemental mailing list, and individuals whose names appear on this list receive  
 26 copies of all Formulating Group correspondence distributed by the TIA.

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<sup>3</sup> Non-Member participation fees may be charged. See Section 3.2.9. Further details are available from the Standards and Technology Department.

<sup>4</sup> This two-meeting requirement applies in the case of joining an existing Formulating Group, and does not apply when a new Formulating Group is being established or reorganized.

<sup>5</sup> Some TIA Engineering Committees have traditionally chosen to operate as administrative groups coordinating the work of their Subcommittees, which function as the Formulating Groups. The Members of such Committees are often the Subcommittee Chairs, and are representing the Membership of the Subcommittees, rather than their individual companies. It may occur that two or more of the Subcommittee Chairs are employees of the same company. In such case, the TSSC may waive the one company, one vote provision of 3.2.3.1.

1 Non-members of the TIA holding voting Membership status in a Formulating Group may  
2 place additional names on the supplemental mailing list upon payment of a service fee  
3 per name, per list.

4 Member companies of the TIA may place additional names on the supplemental mailing  
5 list without charge for up to 10 individuals, and may place further additional names on  
6 the supplemental mailing list upon payment of a service fee per name, per list.

7 Deviations from this policy require approval of the TIA Vice President, Standards and  
8 Technology.

9 Persons whose names appear on the supplemental mailing list are not recognized as  
10 the Voting Representative, but when a vote is cast in the absence of the regular Voting  
11 Representative (Section 3.2.3.1), it is desirable that the vote be cast by an individual  
12 who has been receiving Formulating Group correspondence through the supplemental  
13 mailing list and who has been participating regularly in Formulating Group meetings.

#### 14 *3.2.3.4 Multiple Votes*

15 No individual may vote or cast a ballot on behalf of more than one Member. No proxy  
16 or absentee ballots will be recognized.

#### 17 *3.2.4 Government Participation*

18 The TIA, through its Standards and Technology Department, provides a forum for the  
19 writing and maintenance of voluntary industry Standards and Specifications that relate  
20 to the products and services its Members and others provide. The TIA desires and  
21 encourages the active participation in its Standards-developing activities of all parties  
22 having a direct and material interest in its Standards, including U.S. or other federal,  
23 state, and local government entities when they have such a direct and material interest.  
24 Contribution to the Standards-making process may take the form of liaison with  
25 appropriate Formulating Groups, participation in the open industry balloting of  
26 Standards Proposals, or active participation in Formulating Groups. Because  
27 Standards-making depends on consensus rather than the will of a simple majority,  
28 participation in the consensus-building process, in any of the forms described above, is  
29 of far greater significance than the final act of voting in a Committee.

30 Agencies at all levels of federal, state, and local government are encouraged to  
31 participate in TIA Standards-making activities when they have a direct and material  
32 interest in the Standards work and are willing and able to commit to full and consistent  
33 participation at any of the levels described above.

34 TIA provides many alternatives to encourage government entity participation:

- 35 1. If a government entity chooses to participate in a Formulating Group on a non-  
36 voting basis, all fees are waived. The names of the participants will be entered  
37 on the supplemental mailing list of the Formulating Groups, entitling those

- 1 representatives to all Formulating Group-related correspondence distributed by  
2 the TIA.
- 3 2. If a government entity chooses to participate in a Formulating Group on a voting  
4 basis, active participation is required by such government designees (See  
5 Section 3.2.5) and a participation fee is assessed (See Section 3.2.9). State and  
6 local jurisdictions in particular may find it more practical to be represented by  
7 their respective national associations which can consolidate their inputs.
- 8 3. Recognizing the limited resources of many government agencies, TIA offers an  
9 additional *optional* fee waiver provision that will provide voting rights:
- 10 a) If all branches and agencies of a **federal** government who have requested  
11 to participate in a Formulating Group on a voting basis designate one  
12 representative to represent the interests of all such branches and agencies,  
13 then the normal non-member participation fees will be waived as respects  
14 participation by such designee. (See Section 3.2.9 and paragraph 2 above.)
- 15 b) If all branches and agencies of a **state** government who have requested to  
16 participate in a Formulating Group on a voting basis designate one  
17 representative to represent the interests of all such branches and agencies,  
18 then the normal non-member participation fees will be waived as respects  
19 participation by such designee. (See Section 3.2.9 and paragraph 2 above.)
- 20 c) If all branches and agencies of a **local** government who have requested to  
21 participate in a Formulating Group on a voting basis designate one  
22 representative to represent the interests of all such branches and agencies,  
23 then the normal non-member participation fees will be waived as respects  
24 participation by such designee. (See Section 3.2.9 and paragraph 2 above.)

### 25 3.2.5 Membership Voting Continuation

26 Continuation of voting status as a Member of any Formulating Group or sub-element  
27 depends upon active participation in the work program. There are two types of  
28 participation: attendance at meetings and responding to ballots.

29 Option A (includes ballots)

30 The criterion for removal of a company (or organization) from voting status in a  
31 Formulating Group is absence from three consecutive meetings. If a Member of a  
32 Formulating Group does not respond to any Formulating Group ballots that close  
33 between any two consecutive meetings of the Formulating Group, then it shall be  
34 counted as a single absence for the purpose of maintaining voting status.

35 When a company holding voting status in a Formulating Group has gone unrepresented  
36 for three successive meetings or does not respond to at least 50% of the Formulating  
37 Group ballots between successive meetings, the Chair shall so advise the Staff unless,  
38 on a case-by-case basis, failure to attend or vote on ballots are excused. The Chair

- 1 shall notify the company of its failure to meet minimum participation requirements and  
2 shall remove the company and its representatives from the list of voting Members.  
3 Reinstatement requires a resumption of participation in the Committee's work, and  
4 participation in two consecutive meetings.
- 5 If a member of a Formulating Group votes on ballots between any two consecutive  
6 meetings of the Formulating Group, then it shall be counted as a single attendance for  
7 the purposes of maintaining voting status.
- 8 The Chair shall notify the Staff when reinstatement requirements have been met.
- 9 Formulating Group Chairs are required to enforce the Membership continuation rules in  
10 order to maintain their ability to raise a quorum at meetings. (See Section 5.3.2.) In  
11 addition, any participant in default of payment of fees may have membership rights  
12 dropped or suspended (See Section 3.2.9)
- 13 Formulating Group Chairs should also encourage Member companies to ensure that the  
14 person shown on the distribution lists as their Voting Representative is in fact the  
15 person who attends Formulating Group meetings.
- 16 Formulating Group Chairs shall be responsible for notifying the TIA Standards  
17 Secretariat of who the eligible member companies are when the ballot authorization  
18 form is submitted under this option.
- 19 Option B (excludes ballots)
- 20 The criterion for removal of a company (or organization) from voting status in a  
21 Formulating Group is absence from three consecutive meetings.
- 22 When a company holding voting status in a Formulating Group has gone unrepresented  
23 for three successive meetings, the Chair shall so advise the Staff unless, on a case-by-  
24 case basis, failure to participate or attend is excused. The Chair shall notify the  
25 company of its failure to meet minimum participation requirements and shall remove the  
26 company and its representatives from the list of voting Members. Reinstatement  
27 requires a resumption of participation in the Committee's work, and participation in two  
28 consecutive meetings. The Chair shall notify the Staff when reinstatement requirements  
29 have been met.
- 30 Formulating Group Chairs are required to enforce the Membership continuation rules in  
31 order to maintain their ability to raise a quorum at meetings. (See Section 5.3.2.) In  
32 addition, any participant in default of payment of fees may have membership rights  
33 dropped or suspended (See Section 3.2.9)
- 34 Formulating Group Chairs should also encourage Member companies to ensure that the  
35 person shown on the distribution lists as their Voting Representative is in fact the  
36 person who attends Formulating Group meetings.

### 1 3.2.6 *Liaison Representatives*

2 Formulating Group Chairs may appoint non-voting liaison representatives from other  
3 trade associations or professional societies when appropriate. Liaison arrangements  
4 are usually made on a reciprocal basis. A liaison representative has full privileges of  
5 participation in Formulating Group activities and will receive Committee mailings but  
6 may not vote. Fees will be waived when a reciprocal arrangement exists. Requests or  
7 recommendations for liaison arrangements with non-U.S. counterpart or regional or  
8 international Standards bodies should be referred to the Standards and Technology  
9 Department.

### 10 3.2.7 *Observers*

11 Requests for status as an Observer at a meeting from other organizations or individuals  
12 should be referred to the Standards and Technology Department. A Chair or Staff may  
13 allow any person to observe one meeting without the payment of any fees or dues, in  
14 order to allow the person to see if their company or organization is directly and  
15 materially interested in the work of the Formulating Group.

### 16 3.2.8 *Non-U.S. Observers*

17 Requests from non-U.S. Standards Development Organizations, individuals, or  
18 companies for observer status will be considered on a case-by-case basis, and should  
19 be referred to the Standards and Technology Department. Since in some cases U.S.  
20 export laws and regulations may bar participation in the meetings or receipt of technical  
21 information, special rules apply to non-U.S. participants.

### 22 3.2.9 *Fees*

23 Since the operations of the Engineering Committees and the Standards and Technology  
24 Department are heavily subsidized from the dues paid by Association Members, a  
25 charge per planned meeting commensurate with costs is assessed to companies that  
26 desire to be Members of Engineering Committees but are not general class Members of  
27 the TIA. In order to encourage participation in the Engineering Committees by under-  
28 represented interest categories, this fee may be waived or reduced for such individuals  
29 belonging to an underrepresented interest category. After consultation with the Chair of  
30 the Formulating Group, the Standards & Technology Staff person assigned to oversee  
31 the Formulating Group will make the decision to waive or reduce fees based on the  
32 interest category represented.

33 Companies having a direct and material interest in the matters being considered for  
34 standardization in TIA Committees, who can demonstrate that they would be prevented  
35 from participation in the Standards formulation process by imposition of participation  
36 fees or special fees may seek partial or complete abatement of the fees on a hardship  
37 basis by contacting the Standards and Technology staff person assigned to oversee the  
38 Formulating Group. Since the cost of travel to attend meetings usually far outweighs

1 the fees, such companies should also consider the alternative of participation in the pool  
2 of persons agreeing to receive unsolicited documents during the public review period,  
3 since this does not require meeting attendance. (See Section 6.6.2.)

4 In providing information dissemination, meeting room arrangement, and other  
5 administrative expenses to Formulating Groups, TIA undertakes a major financial  
6 commitment. Like any trade association, TIA's resources are finite. TIA will budget  
7 Standards activities based on historical information and revenue sources available to  
8 TIA. This budget will provide a finite amount of support. If Standards activities of  
9 Formulating Groups become extraordinary and exceed the budgeted resources, then  
10 the Formulating Group may be assessed an additional fee or asked to provide the  
11 additional resources internal to the Formulating Group.

12 Engineering Committees carrying out special projects which require the retention of  
13 outside labs or experts may also levy a voluntary assessment on themselves in order to  
14 finance the special expenses. Failure to pay such a voluntary assessment shall not bar  
15 a Member from further participation in the work of the Committee.

16 Some domestic Formulating Groups work closely with the U.S. Technical Advisory  
17 Groups (US TAGs) for the International Organization for Standardization (ISO) and the  
18 International Electrotechnical Commission (IEC). Voting members may be assessed a  
19 participation fee. TIA Standards and Technology Department is responsible for the  
20 assessment or collection of such TAG administrative fees.

### 21 **3.3 Responsibilities of Formulating Group Leadership**

22 The Chair and Vice Chair of each TIA Engineering Committee or sub-element is  
23 responsible to:

- 24 (1) Conduct group activities in accordance with the procedures prescribed in this  
25 Manual, especially Section 5, and the TIA Legal Guides as the presiding official  
26 to ensure a meeting that is prompt, efficient, and effective.
- 27 (2) Prepare (or have a Committee Secretary prepare) meeting notices and agendas  
28 and meeting reports and have them sent to the TIA Standards Secretariat in time  
29 to provide adequate notice of upcoming meetings.
- 30 (3) Request and prepare Project Initiation Notification System (PINS) and other  
31 authorization forms for transmittal to TIA Standards Secretariat.
- 32 (4) Submit ballots in accordance with the Style Manual and Engineering Manual on a  
33 timely basis.
- 34 (5) Provide adequate notice and information to the TIA Meeting Planner about future  
35 meeting dates, locations, and facility requirements if TIA is to contract for the  
36 arrangements. If TIA has signed a hotel contract, then TIA staff must be involved  
37 in any modifications to requirements with the hotel or meeting location.

- 1 (6) Ensure that, when requested by the TIA Meeting Planner, attendance rosters are  
2 transmitted to the TIA Meeting Planner for room pick-up verification. If TIA staff  
3 is present during the full duration of the meeting, the Meeting Planner shall  
4 request TIA staff to make the transmittal.
- 5 (7) Ensure special provisions of the Engineering Manual such as the Early  
6 Disclosure Request Statement of the Patent Policy and compliance with Export  
7 Control regulations are communicated. (See Section 6.5.1).
- 8 (8) Establish appropriate liaison whenever a matter in the work of an Engineering  
9 Committee or Formulating Group may concern another Department, Division, or  
10 standing committee within the Association. Liaison should also be established to  
11 organizations external to TIA including domestic and international Standards  
12 Development Organizations.
- 13 (9) Ensure that elections are conducted for Chairs for Subcommittees and Working  
14 Groups when they have a standard-formulating mission. The election should  
15 follow the process and criteria set forth in Sections 3.1.1 and 4.
- 16 (10) Appoint Chairs for Working Groups and Task Groups that do not have a  
17 standard-formulating mission.
- 18 (11) Provide the Standards and Technology Department with current information for  
19 the maintenance of lists of Members, Voting Representatives, and Supplemental  
20 Representatives.
- 21 (12) Oversee subordinate Subcommittees and Working Groups, ensure their activities  
22 are conducted in accordance with the agreed scope and in accordance with  
23 relevant procedures prescribed in this Manual, and prepare periodic and annual  
24 reports on Committee activities to be furnished to the Standards and Technology  
25 Department and the Technical Committee.
- 26 (13) Conduct the meeting in a dignified and professional manner.
- 27 (14) Elect a Vice Chair from among eligible candidates proposed by the Committee  
28 Membership and to create a Committee Secretary position to assist with the  
29 meeting reports and other administrative interfaces with the TIA Standards  
30 Secretariat. In the absence of a Committee Secretary, these functions are the  
31 responsibility of the Chair.
- 32 (15) Represent the consensus of the Group even when said position is not aligned  
33 with the person's company position.
- 34 (16) Lead the Group to consensus even when the consensus position is not aligned  
35 with the person's company position.

36

## 1    **4    Election Procedures**

2    The Chair and Vice Chair shall be elected by the Formulating Group to serve a two-year  
3    term or until their successors are elected. The terms of office shall begin at the close of  
4    the meeting at which they are elected. The anniversary of the election meeting shall be  
5    determined by each Formulating Group.

6    This election shall be conducted at a regularly scheduled meeting of the Formulating  
7    Group, and shall be announced in writing, to the Formulating Group, at least 30 days in  
8    advance of the meeting. When an election is held to fill the office of Chair, the  
9    announcement shall also indicate that there will be an election to fill the position of Vice  
10    Chair in the case where the Vice Chair may be elected to the office of Chair. If, at the  
11    election, the Vice Chair is elected to the office of Chair, that individual shall become  
12    Chair immediately, the position of Vice Chair shall be assumed vacant, and an election  
13    shall be held for the office of Vice Chair. If, as a result of the election, the Vice Chair is  
14    not elected to the office of Chair, that individual shall remain Vice Chair and stand for re-  
15    election. In all other cases, the individual(s) elected shall assume office at the close of  
16    the meeting at which they are elected.

### 17    **4.1    Eligibility for Formulating Group Chair and Vice Chair**

18    Acceptance of the Chair of a TIA Formulating Group represents a major commitment of  
19    talent and support resources by an employer. In order to ensure that such a  
20    commitment exists and will be ongoing, it is the TIA's policy that Chairs of Formulating  
21    Groups be elected from among qualified representatives of organizations holding voting  
22    status in the Formulating Group.

23    Maintaining a leadership position on a Formulating Group can require a significant  
24    amount of time and travel. Individuals seeking such positions should ensure that their  
25    personal commitments and their employer's priorities will allow them the necessary  
26    resources to serve effectively and review the responsibilities required in Section 3.3.  
27    Candidates' employers shall submit a letter of support to the parent Committee Chair  
28    and the TIA Vice President, Standards & Technology that the candidate and employer  
29    will commit the time and resources required in fulfilling the position.

30    Vice Chairs are recommended because it is desirable to have continuity of leadership  
31    within Formulating Groups. Vice Chairs are to be elected using the same process as  
32    that used for Chair, and shall not be from the same member company as the Chair.

33  
34    No individual shall serve more than two consecutive terms as Chair, or more than two  
35    consecutive terms as Vice-Chair. Should no candidate come forward seeking election at  
36    the end of a Chair's or Vice Chair's first two year term, that Chair or Vice Chair may  
37    continue in office for another consecutive term.

38  
39    For a Chair or Vice Chair to serve more than two consecutive terms, a waiver must  
40    allow the Chair or Vice Chair to run for reelection. To obtain such waiver, at least 75%  
41    of organizations in good standing listed on the quorum list of the Formulating Group

1 must be in favor of the waiver. It is the expectation but not the requirement that waivers  
2 will be granted in exceptional circumstances.

3 Whenever a vacancy exists in the office of Chair or Vice-Chair, the successor shall be  
4 elected for a full term of two years. This election shall be conducted at a regularly  
5 scheduled meeting of the Committee, shall be announced, in writing, to the Committee  
6 consistent with meeting notice guidelines (Section 5.2) with an additional seven days,  
7 and shall be conducted by secret letter ballot. When an election is held to fill the office  
8 of Chair, the announcement shall also indicate that there may be an election to fill the  
9 position of Vice-Chair in the case where the Vice-Chair may be elected to the office of  
10 Chair. If, at the election, the Vice-Chair is elected to the office of Chair, that individual  
11 shall become Chair immediately, the position of Vice-Chair shall be assumed vacant  
12 and an election should be held for the office of Vice-Chair. In all other cases, the  
13 individual(s) elected shall assume office at the close of the meeting at which they are  
14 elected or upon the occurrence of the vacancy, whichever is later.

#### 15 **4.2 Nomination of Candidates**

16 The following process will be used by a Formulating Group to receive nominations for  
17 candidates:

- 18 (1) Nomination letters and letters of support for Chair and Vice-Chair shall be sent to  
19 the Vice President, Standards and Technology and copied to the current  
20 Formulating Group leadership.
- 21 (2) Candidates are asked to submit a statement of interest, qualifications and  
22 objectives to the Standards Secretariat who will distribute it with the name of the  
23 nominees.
- 24 (3) At least 30-days before the designated election meeting, the names of nominees  
25 for Chair and Vice Chair will be sent by the Standards Secretariat to the  
26 organizations in good standing listed on the quorum list of the Formulating  
27 Group.
- 28 (4) Before the election, additional nominations from the floor shall be permitted.  
29 Each nomination from the floor shall be accompanied by a written letter of  
30 support from the employer of the candidate and a statement of interest,  
31 qualifications and objectives for their proposed administration.

#### 32 **4.3 Election of Candidates**

33 Voting for the Chair and Vice Chair shall be by the organizations in good standing listed  
34 on the quorum list of the Formulating Group. Elections shall be conducted via secret  
35 ballot. Official ballots shall be provided to the Formulating Group by the Standards  
36 Secretariat.

1 The election will be conducted by the current Chair or duly appointed neutral party  
2 (preferably TIA staff) at a plenary meeting of the Formulating Group. Election for Chair  
3 shall be by a majority on the first ballot. If no candidate receives a majority, a run-off  
4 election will be held among the candidates receiving the two highest number of votes on  
5 the first ballot. This process is repeated until one candidate receives a majority vote. At  
6 the conclusion of the election of a Chair, the election of the Vice Chair will be conducted  
7 in the same manner prescribed for the election of the Chair. The appointed neutral  
8 party shall forward all ballots to the Standards Secretariat for archiving.

#### 9 **4.4 Announcement of Results**

10 The result of the election of the Chair and Vice Chair shall be reported in the following  
11 manner:

- 12 (1) The current Chair shall announce the winner of both the Chair and Vice Chair  
13 positions after the ballots have been tallied by the appointed neutral party.
- 14 (2) The Chair shall not announce the ballot tally figures at the plenary.
- 15 (3) Any candidate shall be able to review the tally sheets by making their request  
16 known to the Standards Secretariat. This review will take place at the  
17 headquarters of the Secretariat. Request for review of said documents shall be  
18 made within 180 days after the election meeting.
- 19 (4) The Secretariat shall keep both the tally sheets and the ballots for no less than  
20 180 days after the election meeting where the election was held.

21 Newly elected officers will assume office immediately following the election meeting.  
22

## 23 **5 Meetings**

### 24 **5.1 Meeting Location and Facilities**

25 Formulating Group Chairs should consider convenience and travel costs for Members,  
26 costs to the TIA, and appropriateness of facilities when selecting meeting locations.  
27 The TIA has some conference rooms available for meetings and these can be used on  
28 a space-available basis. The TIA Staff can also provide assistance in locating and  
29 negotiating with commercial meeting facilities such as hotels and conference centers.  
30 When it is necessary to schedule a meeting at a location that will involve costs to the  
31 TIA, arrangements shall be made only by the TIA Staff, in recognition of the budget  
32 constraints for such activities.

1 Meetings also may be scheduled at company facilities provided by Formulating Group  
2 Members or underwritten by Members at commercial facilities, subject to the following  
3 guidelines:

- 4 (1) Host companies are requested to avoid inappropriate or elaborate hospitality  
5 actions.
- 6 (2) Attendees should not be subjected to sales or product presentations unless the  
7 Formulating Group requested such a presentation for reasons related to their  
8 deliberations. Any product presentation should not include pricing information or  
9 other commercial terms and should be done in a manner fair to all presenters.
- 10 (3) Gifts or other promotional items of significant value should not be given to  
11 attendees.
- 12 (4) The requirement for security clearances for attendees should be avoided.
- 13 (5) Expenses to be paid by the TIA shall be pre-authorized by Standards and  
14 Technology staff assigned to the Formulating Group, and shall be within budget  
15 constraints for such activities. TIA staff shall coordinate closely with the Chair to  
16 determine what additional requirements are necessary for the meeting (e.g.  
17 audio visual equipment, computer services, LANs, and copying services).
- 18 (6) Meetings may be held outside the United States if agreed to by the Members of  
19 the Formulating Group.
- 20 (7) The Formulating Group shall maintain a set of general guidelines to provide to  
21 the prospective host(s). Specific requirements may change from meeting to  
22 meeting depending upon scope and venue, however, the host should be notified  
23 of the specific requirements at least four (4) weeks prior to the meeting in order  
24 to secure appropriate facilities.

## 25 **5.2 Meeting Notices, Agendas and Reports**

### 26 *5.2.1 Meeting Notices, Notices of Cancellation*

27 Chairs shall coordinate meeting arrangements with the TIA Standards and Technology  
28 Department and shall electronically forward the meeting notice to the TIA Standards  
29 Secretariat at least 24 days prior to the first day of the scheduled meeting. Agendas  
30 should accompany the meeting notice, but will be accepted until two weeks prior to the  
31 first day of the meeting. (See Section 5.2.2.) Unless the Chair requests earlier  
32 transmittal, the TIA shall send out the meeting notices electronically at least 14 days  
33 before the meeting to the list(s) designated by the Chair, and post the information on  
34 TIA's web and File Transfer Protocol (FTP) sites.

35 Once meeting dates and locations are established, Chairs shall use preliminary  
36 announcements to allow participants ample time for travel arrangements. Chairs shall

1 coordinate meeting arrangements with the TIA Meeting Planner (if applicable) and  
2 forward to the Standards Secretariat an electronic copy of the meeting notice at least  
3 24-days prior to the first day of the scheduled meeting. The draft agenda shall  
4 accompany the meeting notice. If meetings are less than four weeks apart, the  
5 committee shall send the meeting notice to the TIA Standards Secretariat at the  
6 conclusion of the previous meeting. When the Chair requests earlier transmittal, the TIA  
7 shall send the meeting notices to the list(s) designated by the Chair, and post the  
8 information on TIA's web and File Transfer Protocol (FTP) sites within 48 hours of  
9 receipt. It is suggested that the notification of the next meeting be placed at the end of  
10 the meeting agenda of the previous meeting.

11 Meetings that do not fulfill the notification requirements can still be held, however, the  
12 results of the meeting are advisory and shall be contributed to the next meeting that  
13 fulfills the notification requirements.

14 Meeting reports are to be filed within six weeks of the meeting close date. Once  
15 received by the TIA Standards Secretariat, the TIA General Counsel or an attorney  
16 authorized by the TIA General Counsel is to approve the meeting report within five (5)  
17 business days. Upon approval, the TIA has five (5) business days to distribute the  
18 meeting report.

19 Meetings may be cancelled if it is anticipated, with cause, that there will be no quorum  
20 for conducting business at the meeting, no Chair or Vice Chair will be present to  
21 conduct the meeting, or an emergency or other act of nature precludes attendance at  
22 the meeting (e.g., hurricane. A notice of cancellation will be sent as soon as possible to  
23 provide the most time to the possible participants. A substitute meeting may be  
24 scheduled in order to continue the progress of a Formulating Group in the event a  
25 meeting is canceled. Notification requirements for substitute meetings shall be the  
26 same as for any other meetings of the Formulating Group.

### 27 *5.2.2 Meeting Agenda*

28 A detailed meeting agenda should be forwarded electronically to TIA Standards  
29 Secretariat concurrently with the meeting notice information. In all cases, the agenda  
30 shall be available at least two weeks prior to the first day of the meeting and contain the  
31 IMPORTANT NOTICE FOR PARTICIPATION as set forth in the Statements of Policy of  
32 this Manual. If more than one Formulating Group is meeting concurrently at the same  
33 place, the Chair of the senior group should submit the agenda for all such groups.

34 The agenda should list the items to be discussed, and shall clearly indicate any  
35 substantive items to be voted upon at the meeting. Examples of such items are:

- 36 (1) approval of Standards proposals for industry ballot (including issuing ballots for  
37 the reaffirmation, revision or withdrawal of existing Standards);
- 38 (2) adoption or revision of Formulating Group procedures;
- 39 (3) changes in Formulating Group scope;

- 1 (4) termination of the Formulating Group, or
- 2 (5) election of the leadership of the Formulating Group.
- 3 A sample agenda is shown in ANNEX D.
- 4 If so requested by a Formulating Group member, the Chair, with concurrence of the
- 5 Group, may defer action on substantive items that have not been the subject of prior
- 6 notification on the published agenda. Action may be deferred to a subsequent meeting
- 7 or a Letter Ballot may be issued.
- 8 Reference in the agenda to any document should be specific, using project or
- 9 publication numbers, to avoid confusion and misunderstanding. Well-prepared agenda
- 10 expedite the work of the Formulating Group. A typical agenda is included in ANNEX D.

### 11 *5.2.3 Meeting Reports*

12 Each Chair of a Formulating Group is encouraged to appoint a Secretary to record and  
13 prepare a meeting report for each meeting. In the absence of the Secretary, the Chair  
14 is responsible for preparation of the report.

15 Meeting reports are not "minutes" in the strict sense of the term, since a detailed record  
16 of all comments and discussions is not required. The report shall include:

- 17 (1) the date and place of the meeting;
- 18 (2) a list of persons in attendance (members and nonmembers);
- 19 (3) a statement that a quorum was (or was not) present;
- 20 (4) a statement of any identified patent holders, if any received
- 21 (5) actions taken;
- 22 (6) significant unresolved issues;
- 23 (7) voting records (the use of "unanimous" when applicable or the notation by
- 24 member name of negative and abstaining votes cast);
- 25 (8) a document list (See Section 5.2.3.1);
- 26 (9) future meeting schedules (if applicable);
- 27 (10) action items assigned;
- 28 (11) time of adjournment.

29 Meeting reports shall contain the following statement as the last paragraph before the  
30 signature(s):

1 "This meeting was conducted in accordance with the TIA Legal Guides and the  
2 Engineering Manual."

3 The Secretary shall prepare the meeting report in accordance with the format contained  
4 in ANNEX E. The draft meeting report shall be signed by the Secretary or the Chair and  
5 forwarded to the TIA Standards and Technology Department for review and distribution.  
6 *No distribution of the draft meeting report may be made in any form prior to review and*  
7 *approval by the TIA Standards and Technology Department and Legal Counsel for TIA.*  
8 (See Section 5.2.3.2.) After legal approval is received, the draft meeting report can be  
9 discussed, accepted or modified at a subsequent meeting, and any changes recorded in  
10 the report of that subsequent meeting. If the Legal Counsel-approved draft meeting  
11 report is modified substantially at the subsequent meeting, the entire report should be  
12 re-submitted for approval by Legal Counsel.

13 The Chair of the Formulating Group shall ensure corrections, additions, and  
14 reclassification from voting to non-voting and vice-versa are legibly marked on the forms  
15 provided by the TIA and are returned immediately following the meeting to the  
16 Standards and Technology Department for database maintenance.

17 The original attendance list may be sent separately when the meeting report is sent to  
18 the Standards Secretariat electronically. The attendance list may be attached to the  
19 meeting report and serve in lieu of the list of persons in attendance if all names are  
20 clearly legible when reproduced<sup>6</sup>. Short working documents not available at the meeting  
21 may be appended to the meeting report. When a large document falls into that  
22 category, its pertinent material should be abstracted.

23 Subcommittee and Working Group reports may optionally be included with the meeting  
24 report of the parent Committee or Subcommittee if the meeting took place in conjunction  
25 with a meeting of the parent Committee.

26 The TIA Standards and Technology Department normally circulates meeting reports to:

- 27 (1) Members of the Formulating Group;
- 28 (2) Individuals listed on the supplemental mailing list;
- 29 (3) "Others Present" when their complete mailing addresses are supplied by the  
30 Chair or Secretary to the Standards and Technology Department, and the Chair  
31 requests such distribution.

32 Availability of accurate meeting reports from previous meetings is essential to the  
33 orderly conduct of meetings. It is the responsibility of the Chair and the Secretary of the  
34 Formulating Group to submit meeting reports to the TIA in sufficient time to allow for  
35 their approval and distribution prior to the next regularly scheduled meeting. Once

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<sup>6</sup> The permanent archives of the Standards and Technology Department may be retained on microfilm and other image-based media. This places a higher standard of legibility on original documents.

1 received by the TIA Standards Secretariat, the TIA General Counsel or an attorney  
2 authorized by the TIA General Counsel is to approve the meeting report within five (5)  
3 business days. Upon approval, the TIA has five (5) business days to distribute the  
4 meeting report. Meeting reports must be approved and distributed prior to the next  
5 meeting.

#### 6 *5.2.3.1 Document List*

7 A document list identifying all documents distributed at or in preparation for the meeting  
8 shall be made a part of the meeting report, but items appearing on the document list  
9 should not be incorporated in or distributed with the meeting report. TIA meeting  
10 reports are intended as a permanent record of Formulating Group action, and not as a  
11 medium of information transmittal for those not attending meetings.

#### 12 *5.2.3.2 Legal Approvals*

13 All meeting reports shall be submitted for legal review to ensure the actions were in  
14 compliance with antitrust and liability laws. Strict compliance with this requirement  
15 serves to protect the Committee Members and the Association from allegations of  
16 wrongdoing.

17 All meeting reports shall be approved by the TIA General Counsel, or an attorney  
18 authorized by TIA General Counsel before any distribution is made. After TIA Staff  
19 approval, the meeting report is distributed to the Committee and approved by the  
20 Committee as a part of the permanent legal record. Distribution may take place by  
21 posting to the TIA web site and sending notification to members.

### 22 **5.3 Conduct of Meeting**

#### 23 *5.3.1 General*

24 All meetings whether face-to-face, conference call or web based, shall be conducted in  
25 accordance with the Legal Guides contained in ANNEX B. The Chair is responsible for  
26 maximizing the time spent at a meeting so that the time and expense of all present can  
27 be justified. This requires that the agenda be followed and that discussion be kept  
28 pertinent to the agenda. At the beginning of each meeting, Section 6.5.1,  
29 Encouragement of Early Disclosure, should be satisfied.

30 TIA periodically conducts training sessions (e.g., Leadership Workshops), which focus  
31 on topics such as the TIA Engineering Manual, ANSI processes or how to conduct a  
32 meeting. The Chairs of Formulating Groups, their Vice Chairs and Secretaries are  
33 strongly encouraged to attend.

1    5.3.2 *Quorum*

2    A quorum of a Formulating Group, consisting of a simple majority of the listed voting  
3    Member companies, is required to conduct business. Listed, in this case, means those  
4    Member companies represented on the Formulating Group voting Member list  
5    established by the Chair and maintained in the offices of TIA. If a Member company is  
6    not represented at a meeting, and if its absence constitutes a failure to meet the  
7    participation requirements for maintaining voting membership (See Section 3.2.5), it  
8    may be removed from the Voting Member list for the purpose of determining if a quorum  
9    is present. After quorum is established, any new Members who have vested voting  
10   rights should be so advised. (See Section 3.2.5.)

11   Any participant who is not a member of the Formulating Group and who desires to join  
12   the group, should be advised to submit a membership application in accordance with  
13   Section 3.2.

14   After the first meeting of a new Formulating Group, the participants participating in the  
15   first meeting shall establish quorum.

16   It is the Chair's responsibility to ensure that decisions or actions are only taken in the  
17   presence of a quorum.

18   If a quorum is not present, no final action may be taken, but material may be distributed  
19   to the Formulating Group for action by Letter Ballot.

20   5.3.3 *Voting Procedures*

21   Voting may be conducted in meetings, including electronic meetings where all  
22   participants can hear and be heard, or may be accomplished by Letter Ballot.

23   5.3.3.1 *Voting in Formulating Group Meetings*

24   At a meeting where a quorum is present *at the time of the vote*, a simple majority of  
25   those voting (excluding abstentions) is sufficient to act in all matters except the final  
26   approval of a TIA Standard, or approving a Standards Proposal for public ballot, in  
27   which case a consensus within the Formulating Group is required. Each Formulating  
28   Group Member company or organization represented shall have one vote. If the Chair's  
29   company is represented by a Voting Representative other than the Chair, the Chair is  
30   without vote.

31   The Chair, with the concurrence of the group, may put a question out for a Letter Ballot,  
32   and not call for a vote at the meeting.

33   At a meeting, a Formulating Group may recommend publication of a TIA standard if  
34   consensus has been reached and **all** the following are true:

- 1           • TIA has completed a Letter Ballot of the proposed TIA standard.  
2           This is typically a 30-day ballot.
- 3           • The meeting agenda includes an item for approval of the document.
- 4           • The Letter Ballot results in no ballot comments or if comments are  
5           received, all ballot comments (both technical and editorial) are  
6           satisfactorily resolved.
- 7           • No one at the meeting dissents to the recommendation to publish.

8   **Note:** If technical changes are made to resolve ballot comments on the document, or  
9   are made for any other purpose, any voting member at the meeting may request a  
10 default Letter Ballot on the matter.

11 At a meeting, a Formulating Group may recommend publication of an American  
12 National Standard if consensus has been reached and **all** the following are true:

- 13           • TIA has completed a Standards Proposal Ballot.
- 14           • The meeting agenda includes an item for approval of the Standards  
15           Proposal.
- 16           • The Standards Proposal ballot results in no ballot comments or if  
17           comments are received, all editorial ballot comments are  
18           satisfactorily resolved. (See Section 7.2.1)
- 19           • No one at the meeting dissents to the recommendation to publish.

20 If technical changes are made to resolve ballot comments on the Standards Proposal,  
21 or for any other purpose, a rebalot is required according to Section 6.11, and a  
22 recommendation to publish cannot be made at the time of comment resolution.

### 23 5.3.3.2 Letter Ballots

24 A simple majority of those casting ballots is required to approve any procedural matter  
25 posed as a question on a Letter Ballot. Consensus is required to approve a TIA  
26 Standard or to approve a Standards Proposal. (See Section 6.7 for additional  
27 information on ballot options.) In all other matters, a two-thirds majority of those casting  
28 ballots within the balloting period is sufficient.

29 If the number of required affirmative votes on a Letter Ballot is not attained, the Chair  
30 shall attempt to determine the nature of the objections and changes necessary to  
31 resolve the concerns. The Chair, with concurrence of the Formulating Group, may  
32 decide to issue a second Letter Ballot (default or rebalot), or may decide the matter  
33 should be carried over as an agenda item for the next meeting.

34 The Chair or Secretary of the Formulating Group shall forward the exact wording of the  
35 issue(s) to be resolved by the Letter Ballot and any attached material to the TIA  
36 Standards and Technology Department. The Staff will prepare a Letter Ballot and

1 electronically transmit it to the last known e-mail address of Formulating Group  
2 interested parties. All responses received within the specified voting period will be  
3 forwarded to the Chair, editor, or Secretary as specified.

4 The period for voting on Formulating Group Letter Ballots shall be at least 30 days from  
5 the date of issuance unless otherwise noted on the ballot with the approval of the  
6 cognizant Chair. At the Chair's discretion, the voting period may be longer than 30  
7 days.

## 8 **6 Development of Standards**

### 9 **6.1 Types of Projects**

10 Engineering Committees may initiate projects to produce the following types of TIA  
11 documents:

- 12 (1) Standards, both TIA Standards and American National Standards;
- 13 (2) Adoption of international standard as ANS Standard;
- 14 (3) Bulletins;
- 15 (4) Engineering Publications;
- 16 (5) Input documents to other Standards bodies;
- 17 (6) Such other projects as may be authorized or requested by the Chair of the  
18 sponsoring Division or by the Chair of the Technical Committee;
- 19 (7) Joint Standards.

#### 20 *6.1.1 Joint Standards Development*

21 A joint standards group is a standards development body that consists of two or more  
22 internal or internal/external entities. Its purpose is to develop a standard that is of  
23 mutual interest to all the entities concerned. When a joint standards group is formed,  
24 TSSC shall be notified with the PINS form that will state the objectives and deliverables  
25 of this group.

26 Where the interests of the industry are served by having TIA Engineering Committees  
27 work jointly with other SDOs external entities to develop Joint Standards Documents  
28 (JSD), then the Engineering Committee Chair who desires to undertake a program of  
29 joint standards development should advise the Vice President, Standards and  
30 Technology, of the nature of the technical work plan, and an agreement for technical  
31 coordination as well as an agreement covering copyrights, publication rights, and other  
32 commercial matters shall be negotiated and approved by the Chair of the TSSC.

### 1 6.1.2 *Initiation of Joint Standards*

2 Prior to the formation of such a joint standards group with an external entity, a signed  
3 agreement shall be reached between TIA and the other organization on the following  
4 items:  
5

- 6 a) procedures for future revisions of the standard;
- 7 b) selection of Chair(s);
- 8 c) voting procedure (acceptance criteria, resolution of comments, and disapprovals);
- 9 d) patents procedure;
- 10 e) distribution rights including copyright and use of organizational logos;
- 11 f) meetings and related legal requirements (notices, agendas, motions, meeting  
12 minutes, cost, etc.);
- 13 g) development costs;
- 14 h) development timetable.

### 15 **6.2 Standards**

16 Both American National Standards and TIA Standards are issued to achieve one or  
17 more of the following purposes:

- 18 (1) promoting interchangeability and interoperability of products falling within the  
19 scope of TIA Engineering Committees;
- 20 (2) eliminating misunderstandings or confusion between manufacturers and buyers  
21 with respect to products on which TIA Standards or Specifications are adopted;
- 22 (3) providing assistance to the purchaser in selecting and obtaining the proper  
23 product for a particular need;
- 24 (4) improving the quality of products covered by TIA Standards or Specifications.

25 Technical standardization work of the TIA consists of discussion in an open forum by  
26 technical representatives from a wide spectrum of all interested groups, leading to a  
27 consensus on electrical, mechanical, optical, environmental, quality, reliability and other  
28 properties of telecommunications components, equipment and systems. It also includes  
29 the drafting, review, approval and issuance of Standards based upon that consensus,  
30 and the maintenance of Standards once issued. Where appropriate, and where the  
31 requirements of ANSI have been met, such material will be proposed as an ANS  
32 Standard. In cases where the standard is not intended to become an American

1 National Standard, such material will be proposed as a TIA Standard and published in a  
2 uniform format described in the *TIA Style Manual*.

### 3 **6.3 Establishing a New Project**

#### 4 *6.3.1 New TIA Standards*

5 For all new projects for TIA Standards, a Formulating Group must initiate a project by  
6 submitting a completed New TIA Internal Project Request (ANNEX C) to TIA Standards  
7 Secretariat. The project will be forwarded to the TSSC through the TIA Standards  
8 Secretariat and processed by TSSC as described in ANNEX A. Upon approval by the  
9 TSSC, a Project Number (PN) will be assigned by the TIA Standards Secretariat, and  
10 the Committee will be so informed. (See Section 2.4.2 for approval by the TSSC) The  
11 Project Number will be used to identify the drafts through each stage of the  
12 development process.

13 The Staff assigns a four-digit identifying number with the prefix PN (Project Number)  
14 during the development process. Upon assignment of a Project Number, the TIA  
15 Standards Secretariat will, on the advice of the Formulating Group, circulate project  
16 information to persons or organizations believed to be affected by the finished Standard,  
17 affording them the opportunity to participate in the development process. Projects shall  
18 be assigned by the Engineering Committee to a Subcommittee, a Working Group of a  
19 Subcommittee, or itself for implementation.

20 Notice of the Project Number (PN) assignment shall also be placed in TIA's *Industry*  
21 *Pulse* and posted to web pages used by TIA. An unique publication number for the final  
22 document may be reserved in the appropriate numbering series or a number may be  
23 reserved in the J-STD series for Joint Standards Documents intended to be TIA  
24 Standards.

25

#### 26 *6.3.2 New American National Standards*

27 For all new projects for American National Standards, a Formulating Group must initiate  
28 a project by submitting the appropriate forms listed in ANNEX C to TIA Standards  
29 Secretariat. The project will be forwarded to the TSSC through the TIA Standards  
30 Secretariat and processed by TSSC as described in ANNEX A. Upon approval by the  
31 TSSC, a Project Number (PN) will be assigned by the TIA Standards Secretariat, and  
32 the Committee will be so informed. The Project Number will be used to identify the  
33 drafts through each stage of the development process. For any project which is  
34 expected to result in the publication of an American National Standard, the Project  
35 Request must also be accompanied by *ANSI Project Initiation Notification System*  
36 *(PINS) Input Form*.

37 For any project the Staff assigns a four-digit identifying number with the prefix PN  
38 (Project Number) during the development process. The prefix will change to SP  
39 (Standards Proposal) when the document is circulated for Standards Proposal ballot.

1 Upon assignment of a Project Number, the TIA Standards Secretariat will, on the advice  
2 of the Formulating Group, circulate project information to persons or organizations  
3 believed to be affected by the finished Standard, affording them the opportunity to  
4 participate in the development process. A project shall be assigned by the Engineering  
5 Committee to a Subcommittee, a Working Group of a Subcommittee, or itself for  
6 implementation.

7 Notice of the Project Number (PN) assignment shall also be placed in TIA's *Industry*  
8 *Pulse* and posted to web pages used by TIA. ANSI will also provide notice via ANSI  
9 *Standards Action* when an American National Standard is contemplated.

10 An unique publication number for the final document may be reserved in the appropriate  
11 numbering series or a number may be reserved in the J-STD series for Joint Standards  
12 Documents intended to be American National Standards.

### 13 6.3.3 Existing Projects

#### 14 6.3.3.1 TIA Standards

15 For all existing projects for TIA Standards, a Formulating Group shall initiate a project  
16 by submitting a completed Existing TIA Internal Project Request (ANNEX C) to TIA  
17 Standards Secretariat. The project will be forwarded to the TSSC through the TIA  
18 Standards Secretariat and processed by TSSC as described in ANNEX A. Upon  
19 approval by the TSSC, a Project Number (PN) will be assigned by the TIA Standards  
20 Secretariat, and the Committee will be so informed. The Project Number will be used to  
21 identify the drafts through each stage of the development process.

22 The Staff will assign a three-alpha identifying suffix PN- XXXX-AAA (Project Number)  
23 during the development process. Upon assignment of a Project Number, the TIA  
24 Standards Secretariat will, on the advice of the Formulating Group, circulate project  
25 information to persons or organizations believed to be affected by the finished Standard,  
26 affording them the opportunity to participate in the development process.

27 Notice of the Project Number (PN) assignment shall also be placed in TIA's *Industry*  
28 *Pulse* and posted to web pages used by TIA. A number for the final document may be  
29 reserved in the appropriate numbering series or a number may be reserved in the  
30 J-STD series for Joint Standards Documents intended to be TIA Standards.

#### 31 6.3.3.2 American National Standards

32 For all existing projects for American National Standards, a Formulating Group must  
33 initiate a project by submitting a completed Existing TIA Internal Project Request  
34 (ANNEX C) to TIA Standards Secretariat. The project will be forwarded to the TSSC  
35 through the TIA Standards Secretariat and processed by TSSC as described in ANNEX  
36 A. Upon approval by the TSSC, a Project Number (PN) will be assigned by the TIA  
37 Standards Secretariat, and the Committee will be so informed. The Project Number will  
38 be used to identify the drafts through each stage of the development process. For any  
39 project which is expected to result in the publication of a ANS Standard, the Project

1 Request must also be accompanied by Existing ANSI Form PINS, *ANSI Project*  
2 *Initiation Notification System Input Form*.

3 The Staff will assign a three-alpha identifying suffix PN- XXXX-AAA (Project Number).  
4 The prefix will change to SP- (Standards Proposal) when the document is circulated for  
5 ANS ballot.

6 Upon assignment of a Project Number, the TIA Standards Secretariat will, on the advice  
7 of the Formulating Group, circulate project information to persons or organizations  
8 believed to be affected by the finished Standard, affording them the opportunity to  
9 participate in the development process.

10 Notice of the Project Number (PN) assignment shall also be placed in TIA's *Industry*  
11 *Pulse* and posted to web pages used by TIA. ANSI will also provide notice via ANSI  
12 *Standards Action* when an American National Standard is contemplated.

13 An unique publication number for the final document may be reserved in the appropriate  
14 numbering series or a number may be reserved in the J-STD series for Joint Standards  
15 Documents intended to be American National Standards.

#### 16 **6.4 Copyrights and Submissions**

17 Once a project is undertaken, a proposed standard begins to take form in the  
18 Formulating Group as the result of written submissions, and of open discussion in  
19 meetings. Ultimately, the finished document will be copyrighted and published by the  
20 TIA. Joint standards may be copyrighted by all pertinent Standards Development  
21 Organizations involved in development and as determined by agreement among them.

22 If Joint Standards Documents are being produced, the language may need slight  
23 modification to include all Standards Development Organizations who will hold  
24 copyright.

25 The applicable statements mentioned below grant TIA the right to copyright and sell TIA  
26 Publications, which contain the submission in whole or in part, and to allow publication  
27 of excerpts from the TIA Publications. The statements also extend these rights to TIA's  
28 existing policy of allowing and encouraging other regional, national or international  
29 standards bodies to adopt TIA Publications as their own. (These statements make it  
30 clear that a license to use the TIA's copyrighted material contained in a TIA Publication  
31 granted to another region, nation, or SDO does not automatically convey rights to  
32 Essential Patents or copyrights required for conformance with the TIA Publication.)

33 No Formulating Group may establish rules which would have the effect of excluding  
34 submissions based on a copyright policy which is more restrictive than that stated within  
35 this Section 6.4.

#### 1    6.4.1   *Submissions and Contributions*

2    Any submission contributed to a TIA Formulating Group or any sub-element thereof, is  
3    subject to and submitted in accordance with the IMPORTANT NOTICE FOR  
4    PARTICIPATION contained in the Introduction of this Manual and the terms and  
5    provisions of Sections 6.4.1-6.4.6 inclusive. It is called to the participant's attention that  
6    every Contribution is a submission, however, not every submission is a Contribution  
7    under the definition in Section 6.4.2. There are several types of submissions that can  
8    be made to a TIA Formulating Group but not all submissions are intended for  
9    incorporation into a TIA Publication. Some submissions are purely for information while  
10   others are for reference or backup material. When a submission is intended to or may  
11   be incorporated into a TIA Publication and fits the definition contained in Section 6.4.2  
12   then the submission is formally called a Contribution.  
13

#### 14   6.4.2   *Definition of a Contribution*

15   A Contribution is any expression in tangible form that is intended to or may be  
16   incorporated in whole or in part in any TIA Publication or the work product of any TIA  
17   Formulating Group or any sub-element thereof.

#### 18   6.4.3   *Exceptions*

19   The following (“the excepted writings”) are not considered submissions and, without  
20   more, need not be accompanied by a submission cover sheet as mentioned hereinafter:  
21   meeting notices, meeting agendas, meeting minutes or reports, communications by  
22   committee officers in their capacity solely as such officers, and any writing authored by  
23   a third party (i.e. a person other than the submitter or an employee of the submitter’s  
24   employer). However, no submission shall be made of a writing authored by a third party  
25   unless the identity of such third party is disclosed by the submitter at the time of  
26   submission. Submitters of excepted writings waive and release any claim of the  
27   submitter and the submitter’s employer to copyright with respect to such writings.

#### 28   6.4.4   *Third Party Writings*

29   Any writing authored by a third party and received by the Formulating Group should not  
30   be reproduced or distributed to the Formulating Group without appropriate permission or  
31   license. Any such writing authored by a third party shall not be incorporated in any TIA  
32   Publication without an appropriate grant of copyright license to TIA in substantially the  
33   language contemplated by this TIA Engineering Manual.

#### 34   6.4.5   *Submission Cover Sheet*

35   Each submission to a Formulating Group or sub-element thereof, except as otherwise  
36   provided in 6.4.3, shall be accompanied by a submission cover sheet identifying the  
37   name of the Source, the name of the person(s) making the submission as an agent of

1 the Source, the intended purpose of the document (for incorporation into TIA  
2 Publication, for information, or other) and the following statement:

3 “The document to which this cover statement is attached is submitted to  
4 a Formulating Group or sub-element thereof of the Telecommunications  
5 Industry Association (TIA) in accordance with the provisions of Sections  
6 6.4.1-6.4.6 inclusive of the TIA Engineering Manual dated March 2005,  
7 all of which provisions are hereby incorporated by reference.”

8 Such a submission cover sheet might take the form attached hereto as ANNEX G. If a  
9 submission contains Software, then submission of ANNEX I and/or ANNEX J may be  
10 applicable for protection of certain Software copyrights.

11 A submission cover sheet may also contain one of the optional disclosure clauses set  
12 forth in Section 6.4.7 in the form attached hereto as ANNEX G.1.

### 13 *6.4.6 General Provisions and License Grants*

14 Without limiting the generality of the IMPORTANT NOTICE FOR PARTICIPATION  
15 contained in the Introduction of this Manual:

#### 16 *6.4.6.1 Modifications to Specified Statement*

17 A submission shall contain the required language set forth in Section 6.4.5 and,  
18 optionally, the language set forth in section 6.4.7 of this Manual without any change  
19 whatsoever. If the submission contains any added text to the required language or the  
20 optional language, any such addition which is inconsistent with such Sections, is of no  
21 force or effect.

#### 22 *6.4.6.2 Grant of Copyright License*

23 To the extent to which the Source(s) may legally and freely do so, the Source(s), upon  
24 submittal of a submission, grants a free, irrevocable, non-exclusive, worldwide license  
25 to the TIA, under the Source’s copyright or copyright license rights in the submission, to,  
26 in whole or in part, copy, make derivative works, perform, display and distribute the  
27 submission and derivative works thereof consistent with TIA’s policies and procedures,  
28 with the right to (i) sublicense the foregoing rights consistent with TIA’s policies and  
29 procedures and (ii) copyright and sell in TIA’s name any TIA Publication even though  
30 the TIA Publication may contain the submission or a derivative work thereof. Not  
31 withstanding the preceding, any Software which is the subject of an ANNEX I or J  
32 submitted by the Contributor may not be sublicensed by TIA to others for the purpose of  
33 making derivative works, or performance, of the submission. The submission shall  
34 disclose any known limitations on the Source’s rights to license as herein provided.

35 When a submission is submitted by the Source(s) to assist the TIA Formulating Group,  
36 it is proposed to the Committee as a basis for discussion and is not to be construed as a

1 binding proposal on the Source(s). The Source(s) specifically reserves the right to  
2 amend or modify the material contained in the submission. Nothing contained in the  
3 submission shall, except as herein expressly provided, be construed as conferring by  
4 implication, estoppel or otherwise, any license or right under (i) any existing or later  
5 issuing patent, whether or not the use of information in the document necessarily  
6 employs an invention of any existing or later issued patent, (ii) any copyright, (iii) any  
7 trademark, or (iv) any other intellectual property right.

#### 8 *6.4.6.3 Public Domain Exception*

9 If the content of the submission is in the public domain and not subject to copyright  
10 protection, the grant of license contained in Section 6.4.6 2 above and the IMPORTANT  
11 NOTICE FOR PARTICIPATION in the Introduction of this Manual is not applicable, and  
12 TIA may therefore exercise all the rights of publication, distribution, sale and  
13 assignment, as allowed by law, without such grant of license.

#### 14 *6.4.7 Optional Disclosure on Submission Cover*

15 TIA's IPR Policy, stated in the Introduction of this Manual, encourages but does not  
16 mandate the early disclosure of Essential Patent(s) and published pending patent  
17 application(s) in order to make the standards development process more efficient and  
18 avoid unnecessary delays. Patent searches are not required by the Policy.

19 The following two optional paragraphs, which are not in substitution for the submission  
20 of ANNEX H, when required, are intended to assist Source(s) who elect to insert them  
21 on the submission cover sheet in an effort to advance the process through early  
22 disclosure of any patent(s) and published pending patent application(s).

23

1           **Optional Paragraph 1:**

2           The submitter presenting this Contribution has reason to believe that there are  
3           patent(s) and/or published pending patent application(s) that may be essential to  
4           the practice of all or part of this Contribution as incorporated in a TIA Publication.

5           **Optional Paragraph 2:**

6           The Source may have patent(s) and/or published pending patent application(s)  
7           that may be essential to the practice of all or part of this Contribution as  
8           incorporated in a TIA Publication and the Source is willing to comply with  
9           Paragraphs 1, 2(a), or 2(b) of ANNEX H of this Manual as to such patent(s)  
10          and/or published pending patent application(s).

11          Such a submission cover sheet for optional disclosure might take the form attached  
12          hereto as ANNEX G.1.

13          6.4.8 *Document Identification*

14          Where a submission cover sheet is not required by this Manual, a Formulating Group  
15          chair may (but is not required) elect to identify any document(s) with a number or other  
16          symbol for purposes of clarification and orderly procedure.

17          **6.5 Disclosure of Essential Patents**

18          The Standards development and approval process is made more efficient if the  
19          existence of Essential Patent(s) and published pending patent application(s) are made  
20          known as early as possible in the development work. Early disclosure affords  
21          Formulating Group participants the greatest opportunity to evaluate the propriety and  
22          desirability of the text of the proposed standard in view of the disclosed patented  
23          technology. Conversely, the discovery at the final stages of standards development of  
24          an Essential Patent(s) or published pending patent application(s) that is not available for  
25          licensing under reasonable and non-discriminatory terms may result in the loss of years  
26          of Committee effort.

27          6.5.1 *Encouragement of Voluntary Disclosure*

28          A three-part approach will be used by TIA to encourage voluntary disclosure (preferably  
29          early) of Essential Patent(s) and published pending patent application(s).

30          The first part of the approach is that Formulating Group Chairs will ensure that  
31          participants and attendees are aware that:

32                  TIA's Intellectual Property Rights Policy can be found in Statements of  
33                  Policy and subsequent sections of the TIA Engineering Manual.  
34                  Participants in the work of the TIA Formulating Group are urged to review

1 the appropriate Sections. Individual participants are encouraged to notify  
2 TIA of any patent(s) or published pending patent application(s) of which they  
3 are aware that may be essential to the practice of a proposed TIA  
4 Publication early on in its development to reduce the possibility for delays in  
5 the development process and increase the likelihood that the proposed TIA  
6 Publication will become a Standard. However, a Patent Holder who has  
7 provided TIA with the statement set forth in ANNEX H with respect to the  
8 applicable proposed TIA Publication need not (but may elect to) identify its  
9 specific patent(s) or published pending patent application(s) that may be  
10 essential to the practice of the proposed TIA Publication in question. Patent  
11 searches are not required to comply with the TIA Intellectual Property Rights  
12 Policy.

13 The second part of the approach is that the TIA will place a notification on each ballot  
14 for a proposed Standard that the TIA IPR Policy is applicable to the Reference  
15 Document, which encourages identification of Essential Patent(s) or published pending  
16 patent application(s) necessary for the practice for any or all of the Normative portions  
17 of the Reference Document and, if appropriate, the filing of a Patent Holder Statement.

18 The third part of the approach may be the placement of an optional, voluntary disclosure  
19 statement by the Source(s) on a submission cover sheet to a Formulating Group. Such  
20 a submission cover sheet might take the form attached hereto as ANNEX G.1 and use a  
21 statement in the form shown in Section 6.4.7.

22 No Formulating Group may establish rules which would have the effect of excluding  
23 submissions based on an early disclosure policy which is more restrictive than that  
24 stated within this Section 6.5.1.

#### 25 *6.5.2 Patents Discovered Subsequent to Publication of a Standard*

26 By its terms, the TIA IPR Policy applies with equal force to situations involving Essential  
27 Patent(s) whenever discovered, whether before, during, or subsequent to the  
28 publication of a Standard. Once disclosure is made, the Patent Holder will be requested  
29 to provide the same Patent Holder Statement to TIA as is required in situations where  
30 Essential Patent(s) exist or are known prior to the approval of a proposed Standard.

31 Thus, if notice is given of an Essential Patent(s) that may be required for the practice of  
32 any or all of the Normative portions of a Standard, Patent Holders will be requested to  
33 provide the Patent Holder Statement set forth in Paragraphs 1, 2(a) or 2(b) of ANNEX H  
34 unless such Patent Holder Statement was previously given, or the Standard may be  
35 withdrawn by the TSSC.

## 36 **6.6 Balloting of Standards**

37 Standards shall be produced by consensus (See Definitions and Terms Section).  
38 Consensus is achieved through a process of discussion, correspondence, draft  
39 contributions, and revision, all leading to the final result. Final adoption of text shall be

1 by the organizations in good standing listed on the quorum list of the Formulating Group  
2 or those registered to vote on the subject standard.

### 3 6.6.1 *Balloting of TIA Standards*

4 When consensus is reached within the Formulating Group and has been formalized by  
5 a vote, the Chair shall forward the text of the proposed TIA Standard to the Standards  
6 and Technology Department for issuance as a Letter Ballot with a completed Ballot  
7 Authorization Form.

8 The TIA Standards Secretariat will issue a notification to all interested parties identified  
9 on the Ballot Authorization form by the lead Formulating Group, or from the Formulating  
10 Group Chair. This notification will include the instructions and password for the  
11 interested parties identified to review and vote on the ballot. Balloting of TIA standards  
12 will be no less than 30-days, and may be extended at the chair's discretion.

### 13 6.6.2 *Balloting of Standards Proposals*

14 When consensus is reached within the Formulating Group and has been formalized by  
15 a vote, the Chair shall forward the text of the Standards Proposal to the Standards and  
16 Technology Department for issuance as a Standards Proposal ballot with a completed  
17 Ballot Authorization Form.

18 For an American National Standard, the Standards Proposal must receive at least a 45-  
19 day public review period. This public review period is announced in ANSI's *Standards*  
20 *Action*. The Standards Proposal cannot be published prior to the close of the ANSI  
21 Public Review period.

22 The material submitted to the Standards and Technology Department shall be prepared  
23 in accordance with the *TIA Style Manual*. It shall be accompanied by a statement of the  
24 background and intended purpose of the Standard, and any other information that will  
25 improve industry's understanding of the proposal.

26 Simultaneously with issuance with the Standards Proposal, ANSI is notified (by use of  
27 its BSR-8 form) of the availability of the Standards Proposal for comment. ANSI  
28 publishes notice of the Standards Proposal in *ANSI Standards Action*, based on the  
29 ANSI established Publication Schedule, for a 45-day or 60-day public review period  
30 during which the public may request copies of the proposal. Balloting of an American  
31 National Standard is not complete until this public review period expires.

32 Outside interested parties will be afforded the opportunity to comment on the document  
33 through the ANSI Comment and Review Period.

34 Copies of the text of Standards Proposals shall also be available for purchase from the  
35 TIA's publisher during the public review comment period. An appropriate fee, not to  
36 exceed the anticipated sales price of the finished Standard, is charged for copies of  
37 Standards Proposals.

1 Only those companies who return ballots will receive a complimentary copy of the  
2 published document.

### 3 **6.7 Ballot Response Options**

4 Both TIA Standards and American National Standards have identical ballot response  
5 options. Parties responding to either type of ballot have three options, plus abstention.

#### 6 *6.7.1 TIA Standards*

7 Parties responding to a Letter Ballot for approval of a TIA Standard or a TSB have the  
8 following ballot response options:

9 **Approve without comment.** Indicates agreement with the proposed text.

10 **Approve with comment.** Indicates general agreement, but suggests  
11 enhancements or changes to the proposed text that, if not acted on, would not  
12 cause the party to change their vote. Comments shall be acknowledged by the  
13 Formulating Group Chair, and shall be considered during the comment resolution  
14 process (See Section 6.10). Comments not adopted may be deferred to the next  
15 revision of the TIA Standard.

16 **Disapprove (Comments mandatory).** Indicates disagreement with the  
17 proposed text for the technical reasons stated. Comments shall be specific as to  
18 the points or omissions being objected to, and shall state what changes or  
19 actions would resolve the objection. Comments shall be acknowledged by the  
20 Formulating Group Chair and shall be considered during the comment resolution  
21 process (See Section 6.10).

22 The ballot is recorded on the ballot summary as incomplete and no action is  
23 taken. Disapprove ballots received with nonspecific comments or which do not  
24 state what changes or actions would resolve the objection shall be counted as  
25 incomplete. If, after being contacted by the TIA Standards Secretariat, the  
26 originator fails to furnish their specific written objections or fails to state what  
27 changes or actions would resolve the objections, the ballot is recorded as  
28 incomplete on the ballot summary.

29 **"Abstain" (with or without stated reasons for the abstention).** A company  
30 may return a ballot indicating that it has chosen to abstain from voting. A  
31 returned ballot indicating abstention shall be counted as a response for the  
32 purpose of meeting Membership continuation criteria and shall be counted as a  
33 returned ballot, but will not be counted as part of the consensus determination of  
34 the matter being balloted. (See Section 3.2.5).

35 An unreturned ballot for a TIA Standard shall not be recorded on the final voting  
36 tally on TIA forms.

1 **6.7.2 American National Standards**

2 Parties responding to a Standards Proposal (SP) Ballot for approval of ANS have the  
3 following ballot response options:

4 **Approve without comment.** Indicates agreement with the proposed SP text.

5 **Approve with comment.** Indicates general agreement, but suggests  
6 enhancements or changes to the proposed SP text that, if not acted on, would  
7 not cause the party to change their vote. Comments shall be acknowledged by  
8 the Formulating Group Chair, and shall be considered during the comment  
9 resolution process (See Section 6.10). Comments not adopted may be deferred  
10 to the next revision of the Standard.

11 **Disapprove (Comments mandatory).** Indicates disagreement with the  
12 proposed SP text for the technical reasons stated. Comments shall be specific  
13 as to the points or omissions being objected to, and shall state what changes or  
14 actions would resolve the objection. Comments shall be acknowledged by the  
15 Formulating Group Chair and shall be considered during the comment resolution  
16 process (See Section 6.10).

17 Disapprove ballots received without comments shall be counted as incomplete.  
18 The ballot is recorded on the ballot summary as incomplete and no action is  
19 taken. Disapprove ballots received with nonspecific comments or which do not  
20 state what changes or actions would resolve the objection shall be counted as  
21 incomplete. If, after being contacted by the TIA Standards Secretariat, the  
22 originator fails to furnish their specific written objections or fails to state what  
23 changes or actions would resolve the objections, the ballot is recorded as  
24 incomplete on the ballot summary.

25 **"Abstain" (with or without stated reasons for the abstention).** A company  
26 may return a ballot indicating that it has chosen to abstain from voting. A  
27 returned ballot indicating abstention shall be counted as a response for the  
28 purpose of meeting Membership continuation criteria and shall be counted as a  
29 returned ballot, but will not be counted as part of the consensus determination of  
30 the matter being balloted. (See Section 3.2.5).

31 An unreturned ballot for a Standards Proposal shall be recorded on the final voting tally  
32 as "not returned" on ANSI forms.

33 **6.8 Types of Ballot Comments**

34 **6.8.1 Substantive Changes/Technical Changes**

35 A substantive change in a Standard is one that directly and materially affects the use of  
36 the Standard. Examples of substantive changes:

- 1 (1) "shall" to "should"; "should" to "shall";
- 2 (2) addition, deletion or revision of requirements, regardless of the number of
- 3 changes;
- 4 (3) addition of mandatory compliance with referenced Standards

#### 5 *6.8.2 Editorial Changes*

6 An editorial change in a Standard is one that corrects typographical errors, grammatical  
7 errors, or clarifies a concept without making a substantive change.

8 An Erratum may be issued after publication to correct a manifest mistake, omission in  
9 the original text or an error subsequently discovered.

10 Any other changes to a TIA Standard or ANS Standard may be made only by revision or  
11 addendum. (See Section 7.2.1)

#### 12 *6.8.3 Non-Technical or Non-Germane Comments*

13 TIA Engineering Committees are expected to limit themselves to technical matters, and  
14 to leave commercial considerations to others.

15 Problems arise when ballots are cast on Standards Proposals, with comments attached  
16 that are not technical in nature or are not germane to the document being balloted.

17 The Technical Committee has the authority to create a standing committee to address  
18 non-technical Standards related matters, and that such a Committee be comprised of  
19 the Chair of the Technical Committee, the Chairs of the Sections and Divisions of the  
20 related Engineering Committees, Association Staff, and Association counsel, where  
21 appropriate.

22 The Technical Committee Chair will act as the Chair of the Standing Committee, which  
23 shall be known as "The Standing Committee on Non-Technical Standards-Related  
24 Matters."

25 It is intended that the Membership of the Standing Committee will vary depending on  
26 which TR or FO Committee referred the comment. In each case, the Chairs of the TIA  
27 Division and Section sponsoring that TR or FO Committee will serve, along with the  
28 Technical Committee Chair, Staff, and TIA General Counsel where appropriate.

29 The following process will be followed for resolution of non-technical or non-germane  
30 comments attached to ballots:

31 Approve with comment: The Committee Chair should acknowledge the comment,  
32 and where appropriate, advise the person making the comment that non-  
33 technical matters are outside the purview of the Committee. If the Chair deems it

1 appropriate, or upon a majority vote of the Committee, the non-technical or non-  
2 germane comment(s) may be sent to the Standing Committee on Non-Technical  
3 Standards-Related Matters for consideration and recommendation. The  
4 Standing Committee on Non-Technical Standards-Related Matters shall render  
5 its decision by majority vote and in writing within 30 days of the submittal, stating  
6 findings of fact and conclusions, with reasons therefor, based on a  
7 preponderance of the evidence.

8 Unless there are other technical comments, the ballot should be counted as  
9 "affirmative without comments".

10 Disapprove with comment: The Committee Chair should acknowledge the  
11 comment, and advise the person making the comment that such matters are  
12 outside the purview of the Committee. Non-technical or non-germane comments  
13 accompanying a negative ballot shall be forwarded to the Standing Committee on  
14 Non-Technical Standards-Related Matters for consideration and  
15 recommendation. The ballot should be counted as "negative with comments".  
16 The person casting the ballot should be advised that the non-technical or non-  
17 germane comments have been forwarded to the Standing Committee on Non-  
18 Technical Standards-Related matters for consideration and recommendation.

## 19 **6.9 Processing Ballot Comments**

### 20 *6.9.1 TIA Standards*

21 If no negative ballots have been received by the close of the balloting period, the TIA  
22 Standards Secretariat, after receiving the final text and supporting documentation from  
23 the Chair and/or Editor, will proceed to process the proposal.

24 If negative ballots have been received, the TIA Standards Secretariat advises the Chair  
25 of comments via email. The chair shall provide a means for the originator of the  
26 negative comment to indicate whether the response is satisfactory or not. The  
27 response letter will give the negative commentor 5-business days to complete the form  
28 and submit it the TIA Standards Secretariat. The Chair will contact the TIA Standards  
29 Secretariat at the end of the 5-day period to verify if the change form has been received.  
30 If the form has not been received, then the TIA Standards Secretariat will send a  
31 registered letter to the originator of the negative comment requesting the change form  
32 be sent to the TIA Standards Secretariat within 5-business days. If the TIA Standards  
33 Secretariat does not receive the change form the document will be forwarded for  
34 publication with the continuing objection.

### 35 *6.9.2 American National Standards*

36 If no negative ballots have been received by the close of the balloting period, the TIA  
37 Standards Secretariat, after receiving the final text and supporting documentation from  
38 the Chair and/or Editor, will proceed to process the proposal.

1 If negative ballots have been received, the TIA Standards Secretariat advises the Chair  
2 of comments via email. The chair shall provide a means for the originator of the  
3 negative comment to indicate whether the response is satisfactory or not. The  
4 response letter will give the negative comment or 5-business days to complete the form  
5 and submit it the TIA Standards Secretariat. The Chair will contact the TIA Standards  
6 Secretariat at the end of the 5-day period to verify if the change form has been received.  
7 If the form has not been received, then the TIA Standards Secretariat will send a  
8 registered letter to the originator of the negative comment requesting the change form  
9 be sent to the TIA Standards Secretariat within 5-business days. If the TIA Standards  
10 Secretariat does not receive the change form the document will be forwarded for  
11 publication with the continuing objection.

## 12 **6.10 Comment Resolution**

13 Purely editorial comments, once acknowledged, do not require further coordination with  
14 the originator.

15 Technical comments received with an "Approve" ballot shall be acknowledged when  
16 received, and the originator shall be advised, in writing, of the disposition of the  
17 comments. If the Formulating Group adopts the comments, resulting in technical  
18 changes, the proposed Standard shall be recirculated and relisted for public review  
19 (See Section 6.11 below).

20 Objections accompanying a "Disapprove" ballot shall be acknowledged when received,  
21 and the Chair of the Formulating Group shall attempt to resolve the negative ballot in  
22 one of the following ways:

- 23 (1) by explaining to the originator the rationale followed by the Formulating Group in  
24 arriving at the proposed Standard. The Chair shall maintain a detailed written  
25 record of all correspondence and contacts on this matter;
- 26 (2) by proposing changes to the proposed Standard which are editorial only and  
27 which do not result in changes in the technical requirements of the proposed  
28 Standard. Such revisions shall be supported by a consensus within the  
29 Formulating Group;

30 **Note:** If the originators of negative ballots agree to withdraw their objections without  
31 technical changes in the proposed Standard, they will be asked to do so in writing, and  
32 to return the response form to the TIA as proof that the negative has been withdrawn.  
33 This action will be reflected in the meeting summary. When all objections are  
34 withdrawn, processing will continue as in Section 6.12 below.

- 35 (3) by proposing revisions to the technical requirements of the proposed Standard  
36 which would remove the objections of the originator. Such revisions shall be  
37 supported by a consensus within the Formulating Group. If the revisions result in  
38 changes in the technical requirements of the proposed Standard, the proposed  
39 Standard shall be recirculated and relisted for public review (See Section 6.11  
40 below).

1 If the originator of a disapprove ballot does not return the response form to TIA within 5  
2 business days to indicate agreement or disagreement with the rationale followed by the  
3 Formulating Group in arriving at the proposed Standard, then processing will continue,  
4 as in Section 6.12 below.

5 If one or more unresolved "Disapprove" ballots remain in spite of reasonable efforts to  
6 resolve them, and if a consensus is believed to exist, a default ballot shall be issued as  
7 described in Section 6.11.2, below.

8 Copies of all acknowledgments and correspondence with originators of comments shall  
9 be furnished to the TIA Standards Secretariat. This file is necessary when the TIA  
10 submits the Standard Proposal for TSSC and ANSI approval.

## 11 **6.11 Recirculation of Ballots**

12 Text for a ballot shall be recirculated if revisions have been made which change the  
13 technical requirements or increase the range of products to which the Standard applies.  
14 There are two types of recirculation ballots: Complete Re-ballot and Default Ballot.

### 15 *6.11.1 Complete Re-ballot of TIA Standard*

16 If, as the result of a major rewriting of large sections of a proposed TIA Standard, the  
17 revisions are so broad as to merit a complete re-balloting, a new ballot is prepared and  
18 issued as in Section 6.6.1. The identifying number of the new ballot will be that of the  
19 original with a suffix letter added (e.g., PN-1111-A).

20 When a document is balloted to become a TIA document (i.e., TSB or TIA), the re-ballot  
21 will be sent to all ballot recipients that received the original ballot.

### 22 *6.11.2 Default Ballot of TIA Standard*

23 A default ballot, which is a form of a 30-day Letter Ballot, may be issued whenever;

24 (1) limited technical changes are made to a proposed Standard in order to resolve a  
25 negative ballot, or;

26 (2) when all reasonable efforts have been exhausted without success to resolve a  
27 continuing objection, and yet a clear consensus is believed to exist.

28 A default ballot for a TIA Standard allows those parties to reaffirm or change their  
29 response, based upon the changes made. New objections may not be raised on  
30 sections of the document that has not been the subject of the default ballot. Failure to  
31 return a default ballot leaves the recorded vote on the document "as originally cast."

1 *6.11.3 Complete Re-ballot on an American National Standard*

2 If, as the result of a major rewriting of large sections of Standards Proposal, the  
3 revisions are so broad as to merit a complete re-balloting, a new ballot is prepared and  
4 issued as in Section 6.6.2. The identifying number of the new Standards Proposal will  
5 be that of the original with a suffix letter added (e.g., SP-1111-A).

6 *6.11.4 Default Ballot on an American National Standard*

7 A default ballot is a form of a re-ballot that may be issued for a 30-day or 60-day period  
8 whenever;

- 9 (1) limited technical changes are made to the Standards Proposal in order to resolve a  
10 comment from either a “Approve, with comment” vote or a “Disapprove” vote, or;  
11 (2) when all reasonable efforts have been exhausted without success to resolve a  
12 negative vote, and yet a consensus exists to publish the Standards Proposal  
13 without change.

14 A default ballot is sent to those parties who received the original ballot and allows those  
15 parties, regardless of their current voting status in the Formulating Group, to reaffirm or  
16 change their response based on the changes made, or the statement of objections  
17 accompanying the unresolved negative ballots, if any. New objections may not be  
18 raised to unchanged material that has not been the subject of a negative ballot.

19 If the amount of changed material in a default ballot can be reproduced in ANSI  
20 *Standards Action*, (approximately 2 pages) then a 30-day public review notice will be  
21 requested by TIA Standards Secretariat to ANSI for publication in ANSI Standards  
22 Action. If the amount of changed material cannot be reproduced in ANSI Standards  
23 Action, then a 45 or 60-day public review notice will be given by TIA Standards  
24 Secretariat to ANSI for publication in ANSI Standards Action. Formulating Groups may  
25 request a 45-day ANSI public review only if the document is available electronically.

26 *6.11.5 Necessary Documentation for Default Ballots*

27 The following information will be included with all default ballots for TIA Standards or  
28 American National Standards:

- 29 (1) a summary page of the changes made to the document;  
30 (2) either the document in its entirety with changes clearly marked, or only the changed  
31 pages with the changes clearly marked;

32 In the event of a continuing objection, a final default ballot is issued to determine  
33 support within the Formulating Group for the continuing objection(s), and shall include a  
34 ballot summary from each of the default/re-ballot stages and a copy of all response  
35 letters to the continuing objector(s).

1 When the results of the default ballot show a consensus in favor of adoption of the  
2 proposed Standard, the TIA will proceed toward approval of the Standard as described  
3 in Section 6.12, below. If unresolved negative ballots still remain at this time, full  
4 documentation of the objections and of the efforts to resolve them shall be provided to  
5 the Vice President, Standards and Technology Department for review and consideration  
6 by the TSSC. The TSSC shall take action, as it deems appropriate.

#### 7 *6.11.6 Negative Ballots and Negative Comments, Right to Appeal Notification*

8 If after reballoting under Section 6.11, any Negative Ballots or Public Review comments  
9 remain unresolved, then all parties with Unresolved Negative Ballots or Negative  
10 Comments, shall be advised in writing, including electronic means, of the efforts of the  
11 Formulating Group to resolve the Negative Comments and those parties shall be  
12 advised in writing, including electronic means, of their right to file a Complaint or Appeal  
13 under A.5 of ANNEX A of this Manual.

## 14 **6.12 Standards Approval**

### 15 *6.12.1 TIA Standards Approval*

16 TIA Standards are approved by the TSSC as outlined in Section A4 of ANNEX A of this  
17 Manual.

18 When the TIA Standards Secretariat, with approval of the TSSC, has verified the  
19 proposed text has been prepared in full compliance with the rules, policies and legal  
20 guides of the TIA, the Chair of the TSSC shall approve the proposed text as a TIA  
21 Standard.

### 22 *6.12.2 American National Standards Approval*

23 Standards Proposals are approved as American National Standards by the TSSC as  
24 outlined in Section A4 of ANNEX A of this Manual.

25 When the TIA Standards Secretariat, with approval of the TSSC, has verified the  
26 Standards Proposal has been prepared in full compliance with the rules, policies and  
27 legal guides of the TIA, the relevant documentation shall be submitted to ANSI. The  
28 TIA Standards Secretariat shall submit the ANSI BSR-9 form and relevant  
29 documentation to ANSI to obtain approval from the Board of Standards Review (BSR)  
30 to designate the document as an American National Standard.

### 1 6.12.3 Declaration as an American National Standard

2 After receipt of ANSI BSR's Notification of Approval, the material therein is declared to  
3 be an American National Standard<sup>7</sup>. Notification is issued to the industry by the  
4 Standards and Technology Department through the TIA Communications Department  
5 and other media means.

### 6 6.12.4 Publication of American National Standards

7 A proposed new American National Standard, proposed revision or reaffirmation of an  
8 American National Standard to be approved by the Board of Standards Review (BSR)  
9 shall be submitted to the Secretary of the BSR by the TIA Standards Secretariat within 1  
10 year from the close of the comment period listed in *Standards Action* using the  
11 appropriate form provided by ANSI, unless the standards developer notifies the  
12 Secretary of the BSR in writing of good cause for a different schedule for submittal. If a  
13 document cannot be published within one year from the close of the comment period  
14 listed in *Standards Action*, then the Formulating Group may petition the BSR for up to  
15 an additional year to publish. Failure to make the submittal within two years from the  
16 close of the comment period listed in *Standards Action* shall require consideration by  
17 the BSR, i.e., withdrawn, extension for cause, or another listing in *Standards Action*  
18 (See ANSI Procedures, Section 1.2.12, Consideration of Standards Proposal).

## 19 7 Maintenance of Standards

### 20 7.1 Revision, Reaffirmation or Withdrawal of Standards

21 The Formulating Group, or its parent consensus body if the former no longer exists, is  
22 responsible for the maintenance of TIA standards, specifications, and bulletins as well  
23 as American National Standards. Maintenance of a standard takes the form of a  
24 periodic review wherein the Formulating Group shall determine whether the document  
25 in question should be reaffirmed, revised, or withdrawn.

26 Unless otherwise noted, all American National Standards shall be reviewed every five  
27 years. The Formulating Group shall initiate action to

- 28 (1) **revise** the Standard to incorporate additional language or delete language that  
29 will change its technical content or meaning;
- 30 (2) **reaffirm** that a review of the Standard resulted in a decision that the technical  
31 content is valid and does not need change; or

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<sup>7</sup>Prior to 1988, TIA Standards have an "EIA" or "RS" (Recommended Standard) prefix. From 1988 to 1992, such documents had an "EIA/TIA" prefix. In 1992, the prefix was changed to "TIA/EIA". Beginning in 2001, the prefix will be shortened to just "TIA". If the document was approved by ANSI as an American National Standard, then "ANSI" is added in front of the TIA designation (i.e., ANSI/TIA-xxx).

- 1 (3) **withdraw** the Standard following determination that the technical content is no  
2 longer of value.

3 **Note:** *Revisions require that a Standards Proposal be developed and processed*  
4 *in the same manner as that of a new proposed American National Standard.*  
5 *Reaffirmation and withdrawals shall use the same project number that was used*  
6 *to publish the document. Reaffirmation shall use an extension of RF with a*  
7 *numeric extension depicting the number of reaffirmation (i.e., SP-1234-RF(1)[first*  
8 *reaffirmation]). Withdrawals shall use an extension of WD (i.e., SP-1234-WD).*  
9 *See ANNEX K.*

10 *TIA Standards, at the discretion of the Formulating Group may choose either a*  
11 *Letter Ballot or vote during an official formulating group meeting to reaffirm or*  
12 *withdraw a standard. Revisions require the same process as that for the*  
13 *development of a new TIA Standard.*

14

## 15 **7.2 Procedures to Initiate Five Year Review**

16 The TIA Standards Secretariat automatically shall issue to the Formulating Group Chair  
17 and the responsible Standards and Technology staff member a notice requesting the  
18 document to be reviewed. The review notice process shall commence 24 months prior  
19 to the end of the fifth year. Where appropriate, the Standards and Technology  
20 Department Staff shall provide the Chair with a summary of all comments not  
21 incorporated into the Standard during its prior development period five years earlier.

22 If the review process (reaffirmation, revision, or withdrawal) cannot be completed within  
23 the five-year period, it is the obligation of the Chair to request an extension for the  
24 review. This is done by sending correspondence to the TIA Standards Secretariat  
25 requesting an extension. The TIA Standards Secretariat shall complete an ANSI  
26 BSR11 (Request for Extension of Time) and submit it to ANSI for approval. The request  
27 from the committee shall include a specific date by which the review will be completed  
28 and submitted to ANSI for approval. The committee can request an extension for up to  
29 five years (for a total of 10 years review). If the document has not completed the ANSI  
30 BSR Review by the end of the 10<sup>th</sup> year, then ANSI will cancel the project and notify the  
31 TIA Standards Secretariat. The committee will then have to start the ANSI approval  
32 process from the beginning. The BSR11 must be completed in order to extend the  
33 review period. If the BSR11 is not requested by the end of the five-year review period,  
34 ANSI will cancel the project.

35 The review process will be five years for all documents and standards. TSBs and TIA  
36 Standards can be reaffirmed or withdrawn at a committee meeting. The disposition for  
37 reaffirmation or withdrawal shall be reported in the official committee meeting report,  
38 and the appropriate form filled out online and sent to the TIA Standards Secretariat. At  
39 the committee's request a Letter Ballot may be issued to reaffirm or withdraw these

1 documents. Revisions and withdrawals shall follow the current procedures for revisions  
2 and withdrawals of standards and documents.

### 3 *7.2.1 Procedures for Revision for American National Standards*

4 The process of revising a Standard is similar to the development of a new Standard in  
5 that consensus shall be reached by industry ballot on changes to the technical content  
6 or meaning of the Standard. Usually the revision takes the form of a complete revision  
7 and reissuance of the Standard.

8 Revision of or addition to the technical content of an existing TIA Standard or American  
9 National Standard, even in the form of an addendum, requires that the procedures for  
10 the development of a new Standard be followed. (See Sections 6.3 through 6.12.)

11 **Note:** *When additional technical requirements need to be added to an existing*  
12 *Standard without changing the previously published requirements, or when only*  
13 *one or two portions of a large existing Standard need to be revised, a*  
14 *Formulating Group may propose an **addendum** instead of a complete revision.*  
15 *When the Standard is next revised, the addendum is incorporated in the revision.*

16 When a revision of an American National Standard is approved, it will be reprinted with  
17 the same TIA number, but with a suffix revision letter. The date carried on the front  
18 cover of the revised Standard will be the date of the revision. When issued, an  
19 addendum will carry the same number as the Standard, followed by a dash and a  
20 numerical suffix. See ANNEX K.

#### 21 *7.2.1.1 Substantive Change*

22 A substantive change in a Standard is one that directly and materially affects the use of  
23 the Standard. Examples of substantive changes:

- 24 (1) “shall” to “should”; “should” to “shall”;
- 25 (2) addition, deletion or revision of requirements, regardless of the number of  
26 changes;
- 27 (4) addition of mandatory compliance with referenced Standards

#### 28 *7.2.1.2 Editorial Change*

29 Once approved as an American National Standard, no changes shall be made in a  
30 Standards document without going through the full consensus, comment and balloting  
31 process prescribed for a Standards Proposal. A TIA Standard also shall go through the  
32 consensus process for changes, but it need not be submitted for a public review  
33 process at ANSI. The only exception to this rule allowed by ANSI is the issuance of an  
34 erratum to correct a manifest mistake or omission in the original text or an error

1 subsequently discovered, and that only where the error should have been obvious to  
2 the user of the Standard.

3 Any other changes to a TIA Standard or ANS Standard may be made only by revision or  
4 addendum. (See Section 7.2.1.)

#### 5 *7.2.2 Procedures for Reaffirmation of American National Standards*

6 A Formulating Group shall recommend reaffirmation of a Standard if it finds the  
7 technical content valid and does not require change.

8 Reaffirmation shall be accomplished without any substantive change to the main text of  
9 the Standard.

10 Reaffirmation requires a formal industry balloting process. The procedures for the  
11 development of a new ANS shall be followed. (See Sections 6.3 through 6.12.) Copies  
12 of the Standard will not normally be distributed with the industry ballots, but scanned  
13 electronic copies may be requested through the Standards Secretariat.

#### 14 *7.2.3 Procedures for Withdrawal of American National Standards*

15 A Formulating Group shall recommend withdrawal of a Standard if it determines that the  
16 Standard is no longer required to meet the purpose for which it was written. (See  
17 Section 6.2.)

18 Withdrawal requires a formal industry balloting process. The procedures for the  
19 development of a new ANS shall be followed. (See Sections 6.3 through 6.12.) Copies  
20 of the Standard will not be distributed with the industry ballots, but scanned electronic  
21 copies may be requested through the Standards Secretariat.

## 22 **8 TIA Standards, Specifications and Bulletins**

### 23 **8.1 TIA Standards and Specifications**

24 A Formulating Group may prepare a TIA Standard or TIA Specification that is not an  
25 American National Standard (ANS) on any subject matter within its Scope when the  
26 Formulating Group determines such a document will satisfy the requirement for  
27 standardization. [These non-ANS documents were formerly known as Interim or Trial  
28 Use Standards] If not prepared by a Formulating Group, it must be submitted via a  
29 parent body that is a Formulating Group. Project initiation and development is the same  
30 as for an American National Standard, except to demonstrate the consensus of the  
31 Formulating Group (See Section 6.7.1) for balloting options. No public review or  
32 Standards Proposal to ANSI is required to approve a TIA Standard. The final document  
33 and comment resolution record are reviewed by the full TSSC only if there are

1 continuing objections, otherwise, the TSSC has delegated the review to the TIA  
2 Standards Secretariat.

3 A TIA Standard shall contain an introductory statement indicating that public review via  
4 the TIA Standards Proposal and comment resolution process was not conducted.

## 5 **8.2 Bulletins**

6 TIA Bulletins may be proposed by Formulating Groups to publicize material that,  
7 although not a published Standard, may have significant value to industry or users.  
8 Approval of a proposed Bulletin requires a two-thirds affirmative vote on a 30-day Letter  
9 Ballot (See Section 6.7 for balloting options). Negative ballots shall be accompanied by  
10 comments, and all comments must be considered by the Formulating Group, not all  
11 negative comments need be resolved if a 2/3 affirmative vote has been achieved.

12 Once approved by the Formulating Group, Bulletins require the approval of the TSSC  
13 Chair prior to publication.

14 On occasion, a Bulletin may be used to bring important information to the attention of  
15 industry and the public prior to the publication of a Standard on the same subject, but a  
16 Bulletin is not a Standard, and must bear a statement to that effect.

17 A Bulletin shall not modify or amend an existing Standard.

18 Reaffirmation or withdrawal of a Bulletin may be accomplished by a recorded vote in the  
19 Meeting Report demonstrating a consensus for the reaffirmation. The fact that a  
20 reaffirmation or withdrawal vote will be taken shall have been listed on the published  
21 agenda for the meeting. Alternatively, a Letter Ballot may also be used for reaffirmation  
22 or withdrawal of a Bulletin. After a reaffirmation or withdrawal vote, a letter must be sent  
23 by the Chair and to the TIA Standards Secretariat reporting the reaffirmation or  
24 withdrawal.

## 25 **9 Published Documents**

### 26 **9.1 General**

27 Documents published by the Standards and Technology Department are issued through  
28 the authority of the Chair of the TSSC and fall into broad categories of TIA Standards  
29 and other documents listed below.

### 30 **9.2 TIA Standards and Technology Department Documents**

31 ♦ Standards and Specifications (ANS)

32 ♦ Standards and Specifications (non-ANS)

- 1       ♦ Bulletins (non-ANS)
- 2       ♦ Standards Proposals
- 3       ♦ Engineering Publications
- 4       ♦ Workshop Proceedings
- 5       ♦ Index of Standards and Engineering Publications
- 6       ♦ Roster of Engineering Committees
- 7       ♦ Formal Interpretations of TIA Standards and Specifications
- 8       ♦ Committee Scope Manual
- 9       ♦ Style Manual
- 10      ♦ Engineering Manual

11 This list may be modified from time to time.

12 Some documents are not for distribution beyond the Formulating Groups such as:

- 13      ♦ Meeting Reports
- 14      ♦ Legal Requests
- 15      ♦ Working documents and meeting contributions

### 16 **9.3 Subscriptions and Sale of Documents**

17 The Standards and Technology Department makes finished documents and ballots  
18 available. TIA Standards and Specifications, American National Standards, Bulletins,  
19 Standards Proposals, and Letter Ballots are available for sale from TIA's publisher  
20 ([www.global.ihs.com](http://www.global.ihs.com)) and other parties. Catalogs are available from the publisher for  
21 free and a listing of all Project Numbers, Standards Proposals, and Published  
22 Documents is maintained on the TIA web site. TIA's publisher also makes documents  
23 available in CD-ROM, and on-line delivery format for a subscription fee. Site licenses  
24 can be arranged.

25 A limited number of existing TIA Publications are provided to Formulating Groups as  
26 needed for Committee work. Requests should be made directly to the TIA Standards  
27 Secretariat.

28 Committee rosters and mailing lists are made available for use of Committee Chairs and  
29 Members in the course of TIA business but remain the property of the TIA. Standards

1 and Technology Department policy does not permit distribution to or use of its lists by  
2 other outside parties.

### 3 **10 Interpretation of TIA Published Documents**

4 The TIA Staff and Formulating Group Members may from time to time be called upon by  
5 users or would-be users of TIA Standards and Specifications, and American National  
6 Standards and other documents<sup>8</sup> to provide guidance in the application or  
7 understanding of these documents. While the TIA encourages a helpful attitude toward  
8 users of such TIA Publications, Staff and Formulating Group Members are cautioned  
9 that since use of the Standards is voluntary, their interpretation should be left to the  
10 user, except as provided below.

11 **Caution:** *An interpretation shall not be used as a means to change the*  
12 *requirements of a TIA published document (either ANS or non-ANS).*

#### 13 **10.1 Request for Formal Interpretation**

14 When a Member of the public, having a direct and material interest in a TIA Publication,  
15 wishes a formal interpretation of any provisions of the TIA Publication, he or she may  
16 request the Standards and Technology Department in writing for such an interpretation.  
17 The request shall include as a minimum the following information:

- 18 (1) the name, address, email and telephone number of the person requesting the  
19 interpretation;
- 20 (2) a statement demonstrating the requestor's direct and material interest in the  
21 document
- 22 (3) the number, issue, and issue date of the document in question;
- 23 (4) a statement of the question(s)

#### 24 **10.2 Processing an Interpretation Request**

25 Upon receipt of a written request, the Standards and Technology Department shall  
26 review the request for proper form, contacting the requester if necessary. The  
27 Department will then forward the request to the appropriate Formulating Group Chair. If  
28 the Formulating Group is a Subcommittee no longer in existence, then the request shall  
29 be forwarded to the Parent Committee. If the Formulating Group is an Engineering  
30 Committee that is no longer in existence, then the Standards and Technology

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<sup>8</sup>Experience has shown that it is useful in such cases to determine whether the inquiring party has in their possession a current copy of the Standard in question.

1 Department will consult with the TSSC and appropriately route the request to the  
2 subject matter experts within TIA's existing structure of Engineering Committees.

3 The Formulating Group Chair shall acknowledge receipt of the request in writing to the  
4 requester and provide an estimate of the time required for response to the request. The  
5 Chair shall place the request on the agenda of the next regularly scheduled meeting of  
6 the Formulating Group and distribute copies of the request to Members of the  
7 Formulating Group. The Chair may add their comments if desired.

8 The Formulating Group shall attempt to form a consensus on a reply to the requester.  
9 The reply may include clarifying explanations or other comments of the Formulating  
10 Group. If a consensus is formed, the Chair shall forward the agreed-upon reply to the  
11 Standards and Technology Department for formal transmittal to the requester. The  
12 request and the reply will be retained with the records of the Standard in the  
13 Department files, and copies will be furnished to the Formulating Group for  
14 consideration when the Standard is next considered for revision or reaffirmation.

15 Failure to form a consensus on a request for interpretation is an indication of serious  
16 trouble with the subject Standard, and the Standard should be scheduled for prompt  
17 study and revision.

18 Formal interpretations will not be provided on Standards Proposals or Committee Letter  
19 Ballots.

## 20 **11 Correspondence and Records**

### 21 **11.1 Standards Secretariat Record Retention**

22 TIA has developed a document retention policy to maintain and control important TIA  
23 records, eliminate unnecessary or duplicative documents, and save space. The  
24 determinative factors in deciding whether to discard documents should be the practical  
25 value of the document and any legal reason for keeping it.

26 For each document, the following criteria are used:

27 (1) There is some practical reason for keeping it.

28 (a) Will it be referred to as it is part of an on-going project, or

29 (b) Does it have historical value and will someone know how to access it?

30 (2) There is a valid legal reason for keeping it.

31 (a) It affects the obligations of TIA

32 (b) It is the official record of committee action

- 1 (c) It may be discoverable in pending litigation.
- 2 (3) The document falls within a category for which TIA has set retention periods:
- 3 (a) Complaints – See correspondence, general.
- 4 (b) Correspondence, agreements – At signing of agreement, discard all  
5 correspondence except that having special significance regarding  
6 interpretation of agreement.
- 7 (c) Correspondence, general – Maintain correspondence relevant to the  
8 development of standard.
- 9 (d) TIA Printed Publications – maintain at least one copy (hard and soft) of TIA  
10 publications in the EIA Library. (Soft copy of published documents are  
11 required as of January 1999) All required documents (ballots, ballot  
12 summaries, response letters, and blue cards) are retained for five years after  
13 the withdrawal of the document.
- 14 (e) Mailing Lists – as a rule, mailing lists should be destroyed when modified.  
15 However, when mailing lists are part of standards development balloting  
16 process, refer to standards-setting documents.
- 17 (f) Meeting Reports – Discard committee meeting reports after ten (10) year  
18 period.
- 19 (g) Other Records – Contact the TIA General Counsel or an attorney authorized  
20 by TIA General Counsel.
- 21 (h) Standards Setting Background – maintain all required documents for the  
22 issuance of a standard shall be retained for five years after the withdrawal of  
23 the document.

## 24 **11.2 Formulating Group Handling of Correspondence**

25 The Chair of each Formulating Group shall ensure prompt and proper handling of  
26 correspondence concerning the activities of their group. This is vital to the satisfactory  
27 operation of TIA Formulating Groups.

28 The Formulating Group Chair shall send copies of all correspondence to the staff  
29 responsible in the TIA Standards and Technology Department.

30 A Formulating Group Chair shall send copies of all correspondence to the next higher  
31 Chair in the Committee and to the staff person responsible in the TIA Standards and  
32 Technology Department.

1 When the Chair is responding to correspondence on which others have been copied,  
2 the Chair shall in addition send copies of the response to all recipients of the original  
3 correspondence.

4 Formulating Group correspondence shall be on TIA Committee Correspondence  
5 letterhead (See ANNEX F) and shall be signed by the Chair or Secretary with their title  
6 in the TIA Formulating Group.

7 Upon receiving a comment on a TIA Standards Proposal originated by their Formulating  
8 Group, the Chair or their designee shall acknowledge the comment to its originator  
9 regardless of its nature. This notification may be in the form of an email or via letter on  
10 official TIA correspondence letterhead.

11 The Chair shall maintain a complete file of meeting reports, correspondence, and other  
12 records. These files shall be turned over by the Chair to their successor upon leaving  
13 office. If the Formulating Group is dissolved, records should be turned over to the next  
14 higher Chair in case of a Subcommittee or Working Group, or to the Standards and  
15 Technology Department in the case of an Engineering Committee.

16 Chairs, in corresponding with government bodies or agencies, shall comply with the  
17 requirements of Section 12.3 of this Manual.

18 To provide an audit trail, the Standards and Technology Department will maintain its  
19 files for a period of at least 5 years for meeting announcements, published agenda, and  
20 10 years for meeting reports.

## 21 **12 Relations with Other Organizations**

22 It is TIA policy to work cooperatively with other organizations in the development of  
23 standards and other technical documents needed by the industry. (See Statements of  
24 Policy Section) Appropriate formal liaisons shall be established, preferably at the  
25 direction of the Chair, whenever work of the Formulating Group may concern another  
26 organization, within or outside of TIA. Those organizations seeking liaison with a TIA  
27 formulating group must do so in writing to the formulating group Chair, with a copy to  
28 the Vice President, Standards and Technology.

### 29 **12.1 Avoidance of Duplication of Effort**

30 Standardizing activities by TIA Formulating Groups should primarily be directed toward  
31 the preparation of documents pertaining to telecommunications products within their  
32 Scopes. Adequate liaison should be maintained with professional societies and other  
33 Standards bodies in order to avoid unnecessary duplication of effort and to permit  
34 complementary activities. When appropriate, Joint Standard Documents may be  
35 developed as specified in Section 6.1.1.

## 1 12.2 References

2 TIA Formulating Groups are encouraged to make reference to any pertinent Standards  
3 of other Standards bodies. As specified in the *TIA Style Manual*, such references  
4 should indicate whether they are “normative” or “informative” and for normative  
5 references. The Patent Policy of the other Standards body shall be consistent with the  
6 TIA and ANSI Policies in order to be considered as normative references in a Standard  
7 developed by TIA.

## 8 12.3 Public Pronouncements

9 Generally, Formulating Group Members are not permitted to speak in the name of the  
10 Telecommunications Industry Association or to transmit outside the  
11 Telecommunications Industry Association any document which appears to present a  
12 public position on behalf of the Association or any of its parts. These functions are  
13 specifically reserved for the TIA Board of Directors. However, a Chair may request prior  
14 clearance from the Standards and Technology Department to make a statement on  
15 technical matters for publication or oral presentation on behalf of the Formulating Group  
16 or the TIA. Both the nature of the event or publication and the text of the statement  
17 shall be cleared through the Standards and Technology Department and the TIA  
18 General Counsel or an attorney authorized by TIA General Counsel prior to publication  
19 or presentation.

20 For liaison purposes, Formulating Groups may exchange working technical documents  
21 with other comparable technical organizations so long as it is made clear that the  
22 document is a working paper and does not represent the policy of the  
23 Telecommunications Industry Association, its product-oriented Divisions, or its standing  
24 committees. The use of "Committee Correspondence" letterhead (See ANNEX F) is  
25 required for such exchanges. When in doubt, Chairs should consult the Vice President  
26 Standards and Technology or the TIA General Counsel or an attorney authorized by TIA  
27 General Counsel. Persons engaging in such correspondence shall comply with the TIA  
28 Legal Guides.

29 If a Formulating Group desires to conduct a survey to determine industry interest in a  
30 particular subject, the proposed questionnaire shall be submitted to the Standards and  
31 Technology Department for review and approval.

## 32 12.4 International Commonality

33 During the development of a TIA Standards Proposal, the TIA Formulating Group  
34 should review and compare the proposed technical content with any similar  
35 International Electrotechnical Commission (IEC), International Organization for  
36 Standardisation (ISO) Standards, or with the International Telecommunication Union  
37 ITU-T and ITU-R Recommendations. Where similar international standards exist, a  
38 determination shall be made regarding the extent to which the TIA Standards Proposal  
39 can be based upon an existing international standard. Where similar international  
40 standards do not exist, it shall be recognized during the development of the TIA

1 Standards Proposal that the resulting standard may represent a basis for an U.S.  
2 position in the development of an international standard.

3 The TIA maintains contact with the U.S. Secretariats for many international Technical  
4 Advisory Groups (TAG) and with the U.S. National Committee for IEC, and the ANSI  
5 International Committee. In addition, TIA staff participates in preparatory work for the  
6 ITU as well as direct participation in many Study Groups at ITU-T and ITU-R. The  
7 Standards and Technology Department Staff can provide information on how a draft TIA  
8 Standards Proposal may be reviewed by these groups.

9

## 10 **13 Complaints and Appeals**

### 11 **13.1 Informal Complaints**

12 At any point in the standards development process that a Member of a Formulating  
13 Group believes the Engineering Manual process is not being followed, the person with  
14 the complaint should feel free to bring the matter to the attention of the Department  
15 staff. If after investigating the matter, the objection is sustained, staff will take remedial  
16 action to correct the problem. If the complaint involves actions the staff took or failed to  
17 take, then such an informal complaint can be directed to the TIA Technical Committee  
18 Chair or the TIA President for investigation and possible remedial action. If the matter  
19 requires a clarification or interpretation of the Engineering Manual, an Advisory Note will  
20 be issued by the staff after approval by the Technical Committee.

### 21 **13.2 Formal Appeals**

22 Persons who have directly and materially affected interests and who feel that they have  
23 been or will be adversely affected by a TIA Publication within the TIA's jurisdiction, or by  
24 the lack of such a TIA Publication, have the right to formally appeal substantive or  
25 procedural actions or inactions of the TIA Standards and Technology Department and  
26 its Formulating Groups. The appeals procedure is described in detail in Section A5 of  
27 ANNEX A to this Manual.

## 28 **14 Changes to TIA Engineering Manual**

29 From time to time the TIA Engineering Manual requires modification as a result of  
30 changes made by ANSI in its procedures, or as a result of problems experienced by TIA  
31 with a particular Section of the Manual. Some areas of change may also be highlighted  
32 as part of normal review of processes and procedures to make the standards process  
33 more efficient and effective or as a result of issues discovered during a routine ANSI  
34 audit.

1 Such proposed modifications should be brought to the attention of the Vice President,  
2 Standards and Technology or the TIA Technical Committee Chair. The revised  
3 language shall be drafted by such person or ad hoc group as designated by the TIA  
4 Technical Committee Chair. This proposed text for updating the Manual or an Advisory  
5 Note shall then be circulated among members of the TSSC for comments and  
6 suggestions and balloted within the Technical Committee to achieve approval of the  
7 revised text. Upon such approval, the updated Manual or the Advisory Note shall be  
8 effective within TIA and sent to ANSI for its review. Depending on the nature of the  
9 change, ANSI may call for a public review period in its *Standards Action* on the revision  
10 or make such other requests as it deems appropriate.

11

12

## 1 **ANNEXA - Technical Standards Subcommittee (TSSC)**

### 2 **A1. Scope of the Technical Committee and The TSSC**

3 The Technical Committee of the TIA is charged by the Board of Directors with  
4 overseeing the Association's engineering activities and the Standards and Technology  
5 Department.

6 A specialized Subcommittee of the Technical Committee, known as the **Technical**  
7 **Standards Subcommittee (TSSC)**, oversees the manner in which the various  
8 Engineering Committees carry out their Standards and Specifications programs and  
9 acts as a final procedural review body in the development of a TIA Standard or  
10 Specification.

11 The roles of the TSSC and the product Divisions differ in that the Divisions have the  
12 responsibility to provide guidance and direction, which is advisory and not mandatory,  
13 for their respective Engineering Committees, while the TSSC is responsible for  
14 reviewing the manner in which these activities are carried out.

### 15 **A2. Responsibilities**

16 The TSSC is specifically responsible for the following functions:

- 17 (1) to review, confirm, or deny the stated justification of need for any requested TIA  
18 Standards project.
- 19 (2) to act as a procedural review body, to review the comment resolution action on  
20 all TIA Standards Proposals, and to give final approval for their publication as TIA  
21 Standards;
- 22 (3) to resolve disputes between Formulating Groups, if possible;
- 23 (4) to monitor projects of other Standards Developing Organizations for overlap with  
24 TIA projects;
- 25 (5) to oversee the relations between the Standards and Technology Department  
26 and its Engineering Committees and other portions of the TIA and other trade  
27 associations, technical societies, national and international standards  
28 organizations, and governmental bodies;
- 29 (6) to approve recommendations for TIA Engineering Awards to individuals who  
30 have performed outstandingly in TIA engineering activities.

### 31 **A3. Membership**

32 The membership of the TSSC consists of the following:

- 1 (1) the Chair of the TIA Technical Committee, who is also Chair of TSSC;
- 2 (2) the Vice Chair of the TIA Technical Committee, who is also the Vice Chair of the  
3 TSSC, and who will act in the Chair's absence
- 4 (3) the Chair of each Division, or a duly delegated representative;
- 5 (4) the Chair (or in the Chair's absence the Vice Chair) of each Engineering  
6 Committee;
- 7 (5) limited number of persons, not exceeding six, to act as members-at-large, as  
8 appointed by the TSSC. Members-at-large should be of such national distinction  
9 and experience as to aid and complement the TSSC in its procedural reviews  
10 and managerial functions.
- 11 The term of office of the members-at-large shall be one year. They shall be  
12 eligible for reappointment.
- 13 (6) the Vice President responsible for Standards activities, *ex officio*. The Vice  
14 President Standards and Technology or a designated representative is the  
15 Secretary of the TSSC.

#### 16 **A4. Operation of the Technical Standards Subcommittee (TSSC)**

17 The TSSC shall operate through meetings held in person, by telephone, or by other  
18 suitable telecommunications means, and through mail or electronic distribution of  
19 documents and ballots.

- 20 (1) The TSSC shall hold at least one meeting per year at such time and place as  
21 directed by the Chair. As many additional meetings as shall be deemed  
22 necessary in the judgment of the Chair and the Vice President Standards and  
23 Technology may be called by the Chair to carry out the TSSC's responsibilities.  
24 The meeting can be held concurrently with a Technical Committee meeting if the  
25 Chair so elects. All members of TIA and its Engineering Committees may  
26 participate but not vote at TSSC meetings. However, the Chair may restrict  
27 attendance at all or part of a meeting to TSSC members.
- 28 (2) A meeting notice and agenda for each meeting shall be issued by the Secretary  
29 to each Member of the TSSC not less than one month prior to the meeting date.  
30 The notice of the meeting shall also be posted on the TIA website. In emergency  
31 situations, the time requirements may be waived.
- 32 (3) The Chair (or Vice Chair) shall preside, and the Secretary shall keep the minutes  
33 or reports of all meetings. The Chair may designate a presiding officer pro tem if  
34 he or she or the Vice Chair will not be present.
- 35 (4) A quorum of the TSSC shall be a majority of the voting Members or their  
36 designated representatives. A simple majority of those present shall be

- 1 adequate for taking action on all matters. A representative may be designated in  
2 writing by a TSSC Member to vote on their behalf. Failure to attend two  
3 consecutive meetings shall cause loss of voting status unless non-attendance  
4 was excused by the Chair. Failure to return a TSSC ballot also counts as missed  
5 meeting.
- 6 (5) When matters are referred to the TSSC for action by letter ballot, a two-thirds  
7 majority of the eligible voters is required to take action except as otherwise  
8 provided.
- 9 (6) The Secretary shall be responsible for the circulation of all documents and ballots  
10 that come to the Subcommittee in the conduct of its business. The Secretary has  
11 the authority to delegate the responsibility of circulation of ballots to the TIA  
12 Standards Secretariat.
- 13 (7) The TSSC may authorize or the Chair may appoint such special Task Groups as  
14 the responsibilities of the TSSC may require.
- 15 (8) The TSSC reviews and approves as appropriate all requests for new projects as  
16 forwarded by the TIA Standards Secretariat. TSSC Members have five (5)  
17 business days to indicate if they have a problem with a particular project request.  
18 If there are none, the Standards Secretariat will assign the Project Number and  
19 notify the requesting Formulating Group. This process helps ensure that TIA  
20 Engineering Committees and Subcommittees do not undertake overlapping  
21 projects. If a problem develops that can be handled intra-Committee, the Chair  
22 of that Committee should resolve it. If the issue is inter-Committee, the Chairs  
23 involved should try to resolve it, failing that, the TSSC can attempt a resolution or  
24 escalate the matter to the Chair of the Technical Committee for resolution.
- 25 (9) If the TIA Standards Secretariat receives notification from other SDOs of  
26 particular Project Initiation Notification System (PINS) Forms of interest to TIA,  
27 then the information shall be forwarded to the TSSC for review and to monitor  
28 duplication with TIA's Standards activities. Depending on the issues raised,  
29 appropriate action may be required.
- 30 (10) In acting to approve or disapprove a new or revised Standards Proposal for the  
31 TIA, the TSSC shall act in a procedural and policy review capacity only, without  
32 regard to technical subject matters, to ensure that:
- 33 (a) the Proposal has been prepared in accordance with the rules of the  
34 Standards and Technology Department and the Legal Guides therefor;
- 35 (b) the Proposal includes a valid justification of need;
- 36 (c) all known parties having a substantial interest in the subject have been  
37 given a fair opportunity to be heard and to express approval or  
38 disapproval or comment including, if warranted, an opportunity to briefly  
39 present their views directly to the TSSC;

- 1 (d) a proper tabulation of approve, approve with comment, disapprove with  
2 comment, and abstain has been submitted;
- 3 (e) all comments accompanying favorable returns have been acknowledged  
4 and have received consideration;
- 5 (f) all unfavorable comments submitted with substantive technical reasons  
6 have been considered by the responsible Committee, and that its Chair  
7 has diligently attempted to resolve such comment either through  
8 personal meeting or correspondence;
- 9 (g) there is evidence of consensus of all parties of interest. (Unanimity of  
10 opinion is not required.)

## 11 **A5. Appeals**

12 Persons who have directly and materially affected interests and who have been or will  
13 be adversely affected by a Standard or Specification within the TIA's jurisdiction, or by  
14 the lack thereof, shall have the right to formally appeal substantive or procedural actions  
15 of the TIA Standards and Technology Department and its Formulating Groups. Parties  
16 are encouraged to file informal complaints to the Vice President, Standards and  
17 Technology early in the process if they believe the TIA standardization process is not  
18 being followed.

### 19 **A5.1 Complaints**

20 The Appellant shall file a written complaint with the Standards and Technology  
21 Department within 30 days after the date of notification of action or at any time with  
22 respect to inaction. The complaint shall state the nature of the objection(s) including  
23 any adverse effects, the clause(s) of these procedures or the Standard(s) that are at  
24 issue, actions or inactions that are at issue, and the specific remedial action(s) that  
25 would satisfy the Appellant's concerns. Previous efforts to resolve the objection(s) and  
26 the outcome of each shall also be noted. A copy of the complaint shall be served on the  
27 Respondent by the Appellant concurrent with the filing at TIA.

### 28 **A5.2 Response**

29 Within 30 days after receipt of the complaint, the Respondent (TIA, Formulating Group  
30 Chair or Department representative) shall respond in writing to the Appellant,  
31 specifically addressing each allegation of fact in the complaint to the extent of the  
32 Respondent's knowledge. A copy of the response shall be filed with the Standards and  
33 Technology Department.

1 **A5.3 No Further Filings**

2 No further filings beyond the Complaint and Response are allowed unless an Appeals  
3 Panel authorizes additional filings.

4 **A5.4 Hearing**

5 If the Appellant and the Respondent are unable to resolve the written complaint  
6 informally in a manner consistent with these procedures, the Standards and Technology  
7 Department shall schedule a hearing with an Appeals Panel if requested to do so by the  
8 Appellant, and provided the Appellant has paid the \$1,000 Appeals Fee to TIA. If the  
9 Appellant can demonstrate economic hardship for the payment of the Appeals Fee, TIA  
10 will give fair consideration to granting either an Appeals Fee reduction or waiver. Each  
11 side shall bear its own attorney's fees incident to the Appeal. Typically such hearings  
12 will be held within 3 months after filing of the Response or any additional documents  
13 permitted by the Panel. The hearing shall be on a date agreeable to all participants and  
14 the Appeals Panel or at least ten (10) business day's notice.

15 **A5.5 Appeals Panel**

16 TIA will provide to Appellant a list of individuals who have agreed to be considered as  
17 candidates to serve on TIA Appeals Panels. This list will include individuals with  
18 standards experience. The Appeals Panel shall consist of three individuals who have  
19 not been directly involved in the matter in dispute and who will not be materially or  
20 directly affected by any decision made or to be made in the dispute. At least two  
21 Members of the Appeals Panel shall be acceptable to the Appellant, and at least two  
22 shall be acceptable to the Respondent. A questionnaire seeking background  
23 information and potential bias shall be served on possible candidates for the Appeals  
24 Panel. Copies of the completed questionnaires shall be delivered to the parties to the  
25 Appeal. (Note for reviewers: model questionnaire to be included in the next revision of  
26 the Manual) Initially, each side, starting with the Appellant, shall alternately strike a  
27 name from the list, until only one remains and that candidate shall be the Chair of the  
28 Appeals Panel and the Member acceptable to both sides. After that Member is chosen,  
29 each side will select one additional Member from the list. If a disinterested Appeals  
30 Panel cannot be seated from the list maintained by TIA in a reasonable amount of time,  
31 the matter may be referred to the ANSI Executive Standards Council or its designee,  
32 which shall appoint the members of the Appeal Panel. Members of the Appeals Panel  
33 will be compensated for their reasonable expenses and time in preparation for and  
34 during their attendance at the Hearing and for time spent on the decision phase of the  
35 Appeal.

36 **A5.6 Preparation for the Hearing**

37 In preparation for the Hearing, each Member of the Appeals Panel will be provided the  
38 Complaint filed per Section A5.1 and Response filed per A5.2, along with a copy of the  
39 TIA Engineering Manual, Advisory Notes, and the record of the matter at issue. No

1 other filings are allowed unless authorized by a majority of the Panel. The Appeals  
2 Panel may serve Questions on the Respondent or Appellant before the Hearing to help  
3 focus the issues. Each side can file a brief Response not in excess of five pages in  
4 length to any Answers provided by the other side in accordance with the schedule  
5 established by the Panel.

#### 6 **A5.7 Communications with the Appeals Panel**

7 No party shall communicate with any member of the Appeals Panel (except by invitation  
8 of the Panel, upon notice therefore to all parties) an except for presentations at a  
9 Hearing as provided in these rules.

#### 10 **A5.8 Conduct of Hearing**

11 The Appellant has the burden of demonstrating improper actions or inactions  
12 complained of, adverse effects of such improper actions or inactions, and the efficacy of  
13 the requested remedial action. If the Appellant has met its burden, the Respondent has  
14 the burden of demonstrating that the Formulating Group, Chair, TSSC, and the  
15 Department took all actions in compliance with the version of these procedures in effect  
16 during the time period in question and that the requested remedial action would be  
17 ineffective, detrimental or is otherwise unwarranted.

18 The hearing shall be conducted in an informal manner and subject to such rules as the  
19 Appeal Panels may determine. The Appeals Panel and the parties shall not be bound  
20 by any formal rules of evidence.

21 Each party may have up to 5 persons in attendance at the Hearing.

22 Each party shall present its views through a person of its choosing, without interruption  
23 for up to one hour, saving a part of the time for rebuttal if desired. The Appellant shall  
24 go first. Members of the Appeals Panel shall then have up to thirty minutes of questions  
25 directed to each side, 30 minutes each side. Parties may suggest questions that they  
26 believe the Panel should ask the other side, but all questions must come from the Panel  
27 and there shall be no cross-examination or direct questioning or interruption of one side  
28 by the other. After a recess of one hour, the Respondent shall deliver a Closing  
29 Statement for not more than 15 minutes in length followed by a Closing Statement of  
30 the Appellant. The Panel may again pose questions to either side for 30 minutes total.  
31 Each side will then have 5 minutes for a Summation, starting with the Appellant. The  
32 Chair of the Panel shall enforce the time limits.

33 Representatives of other interested parties shall be allowed to observe the Hearing and  
34 will not be allowed to directly participate, except with the permission of the Appeals  
35 Panel.

36 Any documents requested by the Appeals Panel during the Hearing shall be provided to  
37 the Chair of the Panel within 10 days of the Hearing.

1 Closing briefs shall be filed only if specifically requested by the Appeals Panel and in  
2 time frame requested.

### 3 **A5.9 Decision**

4 The Appeals Panel shall render its decision by majority vote and in writing within 30  
5 days of the Hearing, stating findings of fact and conclusions, with reasons therefor,  
6 based on a preponderance of the evidence. The decision shall reference the  
7 controlling sections of the Engineering Manual.

8 Consideration may be given to the following positions, among others, in formulating the  
9 decision:

10 (1) finding for the Appellant, remanding the action to the Committee or the  
11 department with a specific statement of the issues and facts in regard to which  
12 fair and equitable action was not taken;

13 (2) finding for the Respondent, with a specific statement of the facts that  
14 demonstrate fair and equitable treatment of the Appellant and the Appellant's  
15 objections;

16 (3) finding that new, substantive evidence has been introduced, and remanding the  
17 entire action to the Committee or the Department for the appropriate  
18 reconsideration.

### 19 **A5.10 Further Appeal**

20 If the matter under Appeal relates to a TIA Standard or Specification, a TIA Bulletin, or  
21 other non-ANSI matter, then either side may seek further Appeal to the TIA Executive  
22 Committee any portion of the Appeals Panel decision. The full record of the complaint,  
23 response, hearing documents, and decision shall be submitted to the TIA Executive  
24 Committee for its review on further Appeal.

25 The Executive Committee shall make its decision on the record before it with no further  
26 hearings except that it may, if it deems it appropriate, allow each party to make a written  
27 or oral statement with the oral statement limited to fifteen minutes on behalf of each  
28 party.

29 If the matter under appeal relates to a TIA Standard or Specification that has been or  
30 expected to be recognized as an American National Standard, further appeal may be  
31 made directly to ANSI. If the Appellant gives notice that further appeal to ANSI is  
32 intended, a full record of the complaint, response, hearing, and decision shall be  
33 submitted by the department to ANSI.

34

## 1 ANNEX B - TIA Legal Guides

### 2 Part I – General Guides Applicable to All TIA Activities

3 This PART I includes general guides applicable to all Telecommunications Industry  
4 Association activities. They are required to be read and followed by all Members of the  
5 Association and Staff, Chairs and Members of all Committees, Sections, Divisions, and  
6 other TIA sponsored groups.

7 It is the policy of the TIA strictly to comply with the antitrust laws and regulations of the  
8 United States and any other jurisdiction applicable to TIA meetings, programs, or  
9 activities. Any discussion or conduct in violation of such laws or regulations is contrary  
10 to TIA policy and shall be avoided.

#### 11 *Section A. Improper Activities and Programs*

12 TIA activities or programs relating to any of the following subjects are **improper** and are  
13 **not permitted**:

14 (1) **Restraint of Trade Agreements.** The establishment of prices, production  
15 quotas, or uniformity of conduct, the allocation of customers or markets,  
16 Standard terms or conditions of sale, boycotts, or other competitive restraints are  
17 improper activities. Therefore, any activities within, or in conjunction with,  
18 Association meetings relating to any of these matters are improper and  
19 Committee Chairs, Staff, and participants should take affirmative action to assure  
20 that no such discussions are initiated or pursued.

21 (2) **Prices and Pricing Policies.** Any consideration or discussion of product prices  
22 or industry pricing policies is improper and therefore not permitted. This applies  
23 to all discussions and casual remarks relating to individual company prices,  
24 changes in prices, or general price levels whether involving formal or informal  
25 exchanges between participating representatives. Such discussions are  
26 improper and must be avoided.

27 (3) **Terms and Conditions of Purchase and Sale.** Any discussion at, or in  
28 conjunction with, TIA meetings of terms and conditions of purchase and sale,  
29 including but not limited to warranty and warranty periods, discounts, allowances,  
30 or terms of credit, or the formulation of uniform or Standard terms and conditions  
31 of purchase or sale, uniform basing points or zoning prices, or the recommenda-  
32 tion thereof for voluntary use by the Membership also is improper and is  
33 prohibited. It is usually proper, however, to discuss and propose comments and  
34 recommendations to Government agencies relating to general contract  
35 provisions, or modifications thereof, or other procurement practices or policies  
36 proposed or adopted by such agencies.

1 (4) **Costs.** Programs or activities involving the exchange of information relating to  
2 individual company costs of production or distribution and any formulas for  
3 computing such costs are improper. Discussions at TIA meetings of industry  
4 costs are not permitted.

5 (5) **Future Plans.** Programs involving the exchange of future plans of individual  
6 companies affecting the design, research and development, production, and  
7 distribution or marketing of products are also improper. Any discussions at TIA  
8 meetings relating to such programs are not permitted. This does not preclude  
9 normal new product introductions or announcements at TIA sponsored trade  
10 shows.

11 (6) **Boycotting Customers or Products.** Any activity involving the blacklisting or  
12 boycotting of customers, competitors, suppliers, or others or establishment of  
13 patterns of uniform dealing is improper. Therefore, there shall be no activities  
14 relating to any form of boycotting or any activity that may be interpreted as such.

15 *Section B. Procedures for Conducting Activities*

16 **IMPORTANT NOTICE OF PARTICIPATION**

17 Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-  
18 element thereof, constitutes acceptance of and agreement to be bound by all provisions  
19 of the TIA Engineering Manual and permission that all communications and statements,  
20 oral or written, or other information disclosed or presented, and any translation or  
21 derivative thereof, may without compensation, and to the extent such participant or  
22 attendee may legally and freely grant such copyright rights, be distributed, published,  
23 and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or  
24 TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be  
25 granted or permitted in writing to the Chair of the Formulating Group by TIA's Senior  
26 Vice President, Standards and Special Projects on a case-by-case basis.

27 **Intellectual Property Rights Policy**

28 TIA has an Intellectual Property Rights (IPR) Policy, the full text of which can be found  
29 in the TIA Engineering Manual ([www.tiaonline.org/standards/sfg/procedures](http://www.tiaonline.org/standards/sfg/procedures)). We call  
30 to the attention of participants and attendees that TIA's Policy is to encourage, but not  
31 require, the voluntary disclosure (preferably early) of Essential Patent(s) and published  
32 pending patent application(s) that may be essential to the practice of a TIA Publication.  
33 If any such disclosures are made, the procedures to be followed are contained in  
34 Sections (1) through (5) in the Introduction of this Manual.

35 To further assist in the understanding of this Policy, refer to "Guidelines to the  
36 Intellectual Property Rights Policy of the Telecommunications Industry Association"  
37 posted on the TIA website at [www.tiaonline.org/standards/sfg/procedures](http://www.tiaonline.org/standards/sfg/procedures)

- 1 When an Essential Patent(s) has been identified in any proposed Standard, TIA will  
2 follow a policy based upon that of the American National Standards Institute (ANSI)  
3 ([www.ansi.org](http://www.ansi.org)).
- 4 (1) **Notices and Agendas.** Notices and agendas for TIA meetings shall be  
5 prepared in advance and distributed prior to the date of the meeting. Agendas  
6 shall not include any subjects that are stated as improper for consideration or  
7 discussion under the rules established in these Legal Guides. All agendas  
8 otherwise shall be in conformity with the rules established in the TIA Engineering  
9 Manual and any rules which may be established by the TIA General Counsel or  
10 an attorney authorized by TIA General Counsel. Any exceptions must be  
11 specifically approved by the TIA General Counsel or an attorney authorized by  
12 TIA General Counsel or an attorney authorized by the TIA General Counsel or an  
13 attorney authorized by TIA General Counsel. Whenever feasible, background  
14 information which would be helpful in the consideration of items on the agenda  
15 should be distributed in advance of meetings.
- 16 (2) **Conduct of Meetings.** All meetings shall be conducted in such a way as to  
17 assure ample opportunity and freedom in the exchange of ideas and an equal  
18 voice in all decisions by parties entitled to vote thereon. Committee Chairs and  
19 TIA Staff personnel shall make sure that all actions and discussions at meetings  
20 are kept within the bounds of proper Association activity. Committee Chairs  
21 should immediately rule out of order discussion deemed improper or  
22 questionable under the policies set forth herein until the propriety of such  
23 discussion has been determined by General Counsel. If any doubt exists  
24 concerning the propriety of a program, either from a legal or policy point of view,  
25 it shall not become final or effective until after review by General Counsel.  
26 Committee Chairs should follow the published agenda and not depart therefrom  
27 except for a good and legitimate reason, in which event the reports should record  
28 the reasons for such departure.
- 29 (3) **Voting in Committees.** All Committees other than Engineering Committees  
30 shall adopt rules consistent with these Guides and other rules, policies and by-  
31 laws adopted by the TIA to ensure that each company represented shall be  
32 entitled to vote in a manner which will give equal weight to the vote of each  
33 company represented on the Committee, regardless of the number of  
34 representatives from any one company, if there should be more than one.  
35 Engineering Committees shall follow the rules set forth in the TIA Engineering  
36 Manual.
- 37 (4) **Preparation and Review of Reports.** Reports of all meetings shall be taken  
38 and recorded. Reports shall include the time and place of the meeting, a list of  
39 all Committee Members and non-Members attending, a statement of all matters  
40 discussed and actions taken with appropriate reasons therefore, and a record of  
41 all voting. The votes of participants need not be identified by company or  
42 individual.

1 All meeting reports shall be approved by the TIA General Counsel or an attorney  
2 authorized by TIA General Counsel or an attorney authorized by the TIA General  
3 Counsel or an attorney authorized by TIA General Counsel before distribution. Upon  
4 approval, they should be distributed to all Members of the Committee and any other TIA  
5 Members desiring or requesting copies.

## 6 **Part II – Special Guides Applicable to Engineering Standardization Programs**

7 This PART II contains legal policies applying specifically to the operations and conduct  
8 of all TIA engineering Standardization and related programs. It details the general  
9 policies of the TIA and supplements the procedures contained in Standards and  
10 Technology Department "Engineering Manual" ("Manual"). In addition to the rules  
11 established in this PART II, all engineering Standardization programs are required to be  
12 conducted in accordance with the rules set forth in PART I of these Legal Guides.

### 13 *Section A. Limitations On Standardization Programs*

14 TIA Standardization programs shall be confined to the formulation of Standards within  
15 the rules set forth in this PART II defining or describing the dimension, quality, reliability,  
16 operating characteristics, performance, compatibility, interoperability, nomenclature, or  
17 any combination of these, and similar factors relating to telecommunications products,  
18 processes, systems, and procedures or those useful in the provision of communications  
19 services. These programs include not only those sponsored or initiated by the TIA and  
20 its Members but also those recommended by Government agencies.

### 21 *Section B. Statement of Policy*

22 The following statement of policy, reflecting the basic objectives of all Standardization  
23 programs, shall be included in all TIA Standards:

24 "TIA Standards are designed to serve the public interest by eliminating  
25 misunderstandings between manufacturers and purchasers, facilitating  
26 interoperability, interchangeability and improvement of products, and assisting  
27 the purchaser in selecting and obtaining the proper telecommunications product  
28 for their particular need. Existence of such Standards shall not in any respect  
29 preclude any Member or non-Member of the TIA from manufacturing or selling  
30 products not conforming to such Standards.

31 "Except as provided in the Engineering Manual, Standards are proposed  
32 or adopted by the TIA without regard to whether their proposal or adoption  
33 may in any way involve patents or intellectual property on articles,  
34 materials, or processes. By such action, the TIA does not assume any  
35 liability to any patent owner, nor does it assume any obligation whatever to  
36 parties adopting TIA Standards, to parties manufacturing or selling  
37 products or services conforming to such Standards or to users of such  
38 products or services. Other TIA rules respecting Standards where patents

1 are involved are contained in the Manual and should be read in  
2 conjunction with these Guides-PV. Furthermore, in all cases specific  
3 requirements and restraints expressed elsewhere in these Guides must  
4 govern."

5 *Section C. Basic Rules for Conducting Programs*

6 All TIA Standardization programs shall be conducted in accordance with the following  
7 basic rules:

- 8 (1) They shall be carried on in good faith under policies and procedures which will  
9 assure fairness and unrestricted participation;
- 10 (2) Participation shall be extended to all technically qualified Members of the  
11 industry, including representatives of user groups where appropriate, irrespective  
12 of Membership in the TIA;
- 13 (3) Each program shall be shown to serve one or more of the public interest  
14 objectives as provided in Section D of this PART II;
- 15 (4) They shall not involve any agreement, expressed or implied, to adhere, or require  
16 adherence to a Standard or the use of any coercion, directly or indirectly, with  
17 respect thereto;
- 18 (5) They shall not be proposed for or indirectly result in:
- 19 (a) effectuation of a price fixing arrangement, facilitating price uniformity or  
20 stabilization, or restricting competition, giving a competitive advantage to  
21 any manufacturer, excluding competitors from the market, limiting or  
22 otherwise curtailing production, or
- 23 (b) reducing product variations except where required to meet one or more of  
24 the objectives set forth in Section D of this PART II; and
- 25 (6) Personnel participating in such programs as the representatives of Members of  
26 the industry should be technical personnel.

27 *Section D. Selecting a Program*

28 All Standardization programs must be shown to serve a legitimate public interest  
29 objective and that objective should be specifically stated in the context of the Standard.  
30 To assure this, the program should relate to the achievement of one or more of the  
31 following objectives:

- 32 (1) promoting interchangeability and interoperability of products falling within the  
33 scope of TIA Engineering Committees;

- 1 (2) eliminating misunderstandings or confusion between manufacturers and buyers  
2 with respect to products on which TIA Standards or Specifications are adopted;
- 3 (3) providing assistance to the purchaser in selecting and obtaining the proper  
4 product for a particular need;
- 5 (4) improving the quality of products covered by TIA Standards or Specifications.

6 *Section E. Notice of Meetings*

7 Advance notice shall be given to all participating representatives as to the matter to be  
8 considered for Standardization and the nature of the action being contemplated.  
9 Procedures should provide reasonable means for making available all data,  
10 Specifications, and other technical information relating to a product, process or  
11 technology proposed for Standardization to all persons participating in or contributing to  
12 the program involved irrespective of their Membership in the TIA. Committee activities  
13 should be limited to discussions of the engineering and technical aspects of  
14 Standardization or the procedures relating thereto.

15 *Section F. Special Rules for Conducting Standardization Programs*

- 16 (1) **Voluntary Adherence to Standards.** Adherence to Standards shall be entirely  
17 voluntary and within the discretion of individual manufacturers. Any agreement,  
18 expressed or implied, or any coercion, direct or indirect, to adhere or to require or  
19 compel adherence to a Standard is **not permitted**.
- 20 (2) **Engineering and Technical Considerations.** All Standardization activity shall  
21 be confined to the technical and engineering considerations in the establishment  
22 of a Standard and these considerations shall relate to one of the legitimate  
23 objectives as provided in Section D of this PART II.
- 24 (3) **Commercial Standards.** Standardization relating to the commercial aspects of  
25 products, such as conditions or terms defining commercial relationships between  
26 manufacturer and buyer with respect to engineering Standards is **not permitted**.  
27 This type of activity is the proper concern of each interested company acting  
28 individually and is not a proper Association activity. (See Section A(3), PART I of  
29 these Guides.)
- 30 (4) **Standards Involving Quality or Performance.** Generally, Standards relating to  
31 quality or performance of products should not specify or describe the  
32 characteristics of such products in terms of maximum quality or maximum  
33 performance. This does not preclude Standards stated in terms of maximum or  
34 minimum - maximum characteristics which are prescribed for the sole purpose of  
35 indicating that the product meets certain limited requirements and is designed to  
36 serve limited technical functions and purposes. Such Standards generally  
37 involve product differentiation as distinguished from product quality. Standards  
38 may include suggested specific AQL's (Acceptable Quality Level) for guidance

1 purposes with the actual AQL to be agreed upon between the manufacturer and  
2 the user, or include ranges of AQL's for the same purpose.

3 (5) **Revision of Standards.** Any revision of an existing Standard shall conform to  
4 the same procedures and policies applicable to the initiation of the original  
5 Standard. Such revision should be clearly justified as to legitimacy of objective  
6 and that objective should be stated in the revision.

7 (6) **Interpretation of Standards.** The interpretation of Standards, insofar as it may  
8 relate to a specific product or manufacturer, is a proper matter for individual  
9 company concern and should not be undertaken by TIA Staff Members or any  
10 person acting in the capacity of a TIA Engineering Committee Member. TIA Staff  
11 comments, if any, shall be limited to an explanation or clarification of technical  
12 language or provisions in a Standard but not related to its application to specific  
13 products or manufacturers. Means are provided in the Engineering Manual for  
14 the rendering of formal interpretations of TIA Standards, which interpretations will  
15 be available to all interested parties.

16 (7) **Acceptability of Standards.** All proposed Standards recommended by TIA  
17 Engineering Committees or task groups shall be submitted for final review and  
18 approval in accordance with the TIA Standards and Technology Department's  
19 Engineering Manual.

20 (8) **Final Adoption.** Final adoption of proposed Standards shall be in accordance  
21 with the Standards and Technology Department's Engineering Manual. In the  
22 process of adopting a Standard, consideration shall be given to all comments of  
23 industry and user interests where applicable irrespective of TIA Membership, and  
24 industry consensus must be demonstrated. If there is no consensus on the  
25 adoption of a proposed Standard, or if due process has not been afforded all  
26 commentators, the program involving such Standard should be abandoned or  
27 referred to an appropriate Formulating Group for further consideration.

## 28 *Section G. Procedures for Commenting on Military Specifications and Products*

29 In offering comments or recommendations to elements of the Department of Defense on  
30 Military Standardization documents, the following procedures shall be followed:

31 (1) Participation shall be unrestricted and extended to all companies which have  
32 made known their interest regardless of Membership in the TIA or on the  
33 cognizant Committee or Committees;

34 (2) Adequate notice of meetings shall be given all Committee Members and all other  
35 companies or representatives known to have an interest and shall include all  
36 issues to be discussed;

37 (3) Comments and recommendations shall be offered merely as such, limited to the  
38 technical aspects of the Specifications, and shall reflect any divergence of views  
39 among those participating;

- 1 (4) Copies of comments and recommendations shall be sent to all company  
2 representatives known to have an interest;
- 3 (5) All submissions to the military departments shall contain a statement that the  
4 comments and recommendations reflect only the views of the group participating;  
5 and
- 6 (6) They shall be reviewed and submitted by TIA Staff in accordance with  
7 established procedures.
- 8 (7) All applicable laws and regulations shall be strictly adhered to.
- 9

1 **ANNEX C – TIA Standards and Technology Department Forms**

2 TIA Standards and Technology Department New Project Request and Authorization  
3 Form can be found at:

4 [http://www.tiaonline.org/standards/sfg/procedures/new\\_pn\\_request\\_form.cfm](http://www.tiaonline.org/standards/sfg/procedures/new_pn_request_form.cfm)

5 TIA Standards and Technology Department Existing Project Request and Authorization  
6 Form can be found at:

7 [http://www.tiaonline.org/standards/sfg/procedures/pn\\_request\\_form.cfm](http://www.tiaonline.org/standards/sfg/procedures/pn_request_form.cfm)

8 Ballot Authorization Form can be found at:

9 <http://www.tiaonline.org/standards/sfg/procedures/ballot.cfm>

10 TIA Publication Authorization Form can be found at:

11 <http://www.tiaonline.org/standards/sfg/procedures/publication.cfm>

12  
13 TIA Change Vote Form “Blue Card” can be found at:

14 [http://www.tiaonline.org/standards/sfg/procedures/blue\\_card.cfm](http://www.tiaonline.org/standards/sfg/procedures/blue_card.cfm)

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16

1 **ANNEX D – Sample Meeting Notice & Agenda**

2

Organization: TIA-TR-15  
High Frequency Communications Systems and Equipment

Chair: Willard P. Smith  
202-457-4912, wsmith@anywhere.com

Date: June 16, 2006

Time: 9:00 a.m.-5:00 p.m.

Place: Toledo Towers Hotel  
Toledo, OH  
(900) 238-1056

**IMPORTANT NOTICE OF PARTICIPATION**

**Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of and agreement to be bound by all provisions of the TIA Engineering Manual and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA’s web site, in whole or in part, on a non-exclusive basis by TIA or TIA’s licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by TIA’s Senior Vice President, Standards and Special Projects on a case-by-case basis.**

1. Call to Order
2. Approval of Meeting Report (Meeting 53)
3. Subcommittee Reports
4. Consideration of PN-4035 (High Speed Interface) for circulation as a Standards Proposal.
5. Set future meeting schedule
6. Other Business – (i.e., Reaffirmation of Chairs)
7. Adjournment

3

# 1 **Annex E – Sample Meeting Report**

## 2 **Telecommunications Industry Association**

3 Standards and Technology Department

4 Meeting Report, Meeting Number 54

5 Committee TR-15 High Frequency Communications Systems and Equipment

6 June 16, 2006 Toledo Towers Hotel Toledo, OH

### 7 Quorum Members Present

<u>Name</u>	<u>Organization Represented</u>
Willard P. Smith (Chair)	Afgo Communications
Moe Diehl	Acme
Joe Morgan	Uvicom
Douglass de Jesus	Ephemerex
Tom Nissan	Holorex
Fred Once	De Coriolis Data Systems

8

### 9 Quorum Members Absent

<u>Name</u>	<u>Organization Represented</u>
David LeBest	Demovox
Enid Howard	Southern ComTel
Arnold Lafitte	Duro Inc

10

11 Others:  
12 (None)

### 13 1. Call to Order

14 The meeting was called to order at 9:00 am, on Friday, June 14, 2002, by Chair Willard P. Smith. The  
15 meeting was held at the Toledo Towers Hotel, Toledo, OH. The Chair announced that a quorum was  
16 present. The Chair inquired whether any attendee was aware of any patents that had not yet been  
17 disclosed that might relate to any of the pending standards in the Committee. Moe Diehl advised that he  
18 believed MicroFirm held at least 2 essential patents on the high-speed interface described in PN-4035.  
19 The Chair indicated he/she will have the TIA Standards Secretariat follow up with MicroFirm.

### 20 2. Meeting Report

21 The Meeting Report of Meeting Number 53 was accepted with editorial corrections.

### 22 3. Subcommittee Reports

23 The Chair of Subcommittee TR-15.1, Ephemeral Interfaces, reported that the Subcommittee had  
24 completed work on project PN-4035, Ephemeral Communications, High-speed Interface, and had voted

1 unanimously to request that it be issued for public comment as a Standards Proposal. Since the final  
2 draft of PN-4035 had been mailed to all TR-15 members in advance of the meeting, and the Proposal had  
3 been included in the published agenda, the Chair called for discussion prior to a vote to issue a  
4 Committee Letter Ballot to approve PN-4035 as an SP. Mr. Once asked the Subcommittee Chair to  
5 explain the need for dual backsignals on the F3 and Q5 leads, when it seemed that either one would do.  
6 The Chair explained the Subcommittee's rationale, which concerned time delays on satellite circuits. Mr.  
7 Once withdrew his objection. The Committee then voted 6-0 for release of the letter ballot.

8 There were no action items from the other Sub-committees. Two draft documents from TR-15.2 were  
9 distributed for information.

10 4. Future Meetings

11 The next meeting will take place September 4-7 at the Sunnyside Hilton, Sunnyside, GA and will be hosted  
12 by Demovox and Uvicom.

13 The schedule for the next meeting is as follows:

<u>Tues, 9/04</u>	<u>Wed, 9/05</u>	<u>Thurs, 9/06</u>	<u>Fri, 9/07</u>
TR-15.4	TR-15.3	TR-15.1	TR-15.2
TR-15.2.1	TR-15.2.1	TR-15	

14 5. Other Business

15 All of the Subcommittee Chairs reported they had completed the Reaffirmation process. The Committee  
16 unanimously voted to Reaffirm Willard Smith again, he has been ably leading this Committee for 23  
17 years.

18 There was no other business.

19 6. Adjournment

20 The meeting was adjourned at 5:00 pm. This meeting was conducted in accordance with the TIA Legal  
21 Guide and TIA Engineering Manual.

22

23 /Signature/  
24  
25

26

27

28 Willard P. Smith, Chair TR-15 High Frequency Communications Systems and Equipment

29 /Signature/  
30  
31

32

33 Tom Nissan, Secretary

34 LEGAL APPROVAL: John Doe, Esq.\_\_\_\_\_

35

1 **Document Register**

2 Committee: TR-15 Year: 2006

<u>Document Number</u>	<u>Title</u>	<u>Source</u>
TR-15/2006/06/001	PN-4035 High Speed Interface	TR-15.1
TR-15/2006/06/002	IS for Automode Procedures	TR-15.2
TR-15/2006/06/003	Modem (GSTN) Beyond 14400 bit/s	TR-15.2

3

4 **Note:** This is a minimum set of information for the document register. Other information, such as meeting  
5 report references may be added.

1

2 **Annex F – Committee Correspondence**

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BUILDING GLOBAL COMMUNICATIONS

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(This correspondence represents "working papers." Therefore, contents cannot be viewed as reflecting the corporate policies or the views of the Telecommunications Industry Association or of any company. The Association, the companies and individuals involved, take no responsibility in the applications of this document.)

1 **ANNEX G – TIA SUBMISSION COVER SHEET TEMPLATE**

2

3 This template is a suggested format for the cover sheet to be used when submitting a  
4 document to a TIA Formulating Group. Regardless of whether this format is used or  
5 not, there are four required elements that must be contained in a cover sheet in  
6 whatever form the submitter prepares. These elements (shown in gray shading in the  
7 attached template) are: the statement in the exact words described in Section 6.4.5 of  
8 the TIA Engineering Manual dated March 2005 and shown in the first shaded box, the  
9 name of the Source as defined by the TIA Engineering Manual, the name of the person  
10 who prepared or submitted the document, and the intended purpose of the document.

If a submission contains Software, then Annex I, "Software Copyright Holder Statement," and/or Annex J, "TIA Software Evaluation License," may be applicable for protection of certain Software copyrights.

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12





1 **ANNEX G.1 – TIA SUBMISSION COVER SHEET TEMPLATE WITH**  
2 **OPTIONAL DISCLOSURE CLAUSES**

3 This template is a suggested format for a cover sheet with optional patent disclosure  
4 clauses that may be used when submitting a document to a TIA Formulating Group. If  
5 used, the optional disclosure clauses must conform to the wording set forth in Section  
6 6.4.7 of the TIA Engineering Manual dated March 2005. Regardless of whether this  
7 format is used or not, there are four required elements that must be contained in a cover  
8 sheet in whatever form the submitter prepares. These elements (shown in gray shading  
9 in the attached template) are: the statement in the exact words described in Section  
10 6.4.5 of the TIA Engineering Manual and shown in the first shaded box, the name of the  
11 Source as defined by the TIA Engineering Manual, the name of the person who  
12 prepared or submitted the document, and the intended purpose of the document.

13 The optional patent disclosure clauses from Section 6.4.7 for possible inclusion in a  
14 contribution cover sheet are shown in the attached template.

If a submission contains Software, then ANNEX I, "Software Copyright Holder Statement," and/or ANNEX J, "TIA Software Evaluation License," may be applicable for protection of certain Software copyrights.
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1  
2 **PATENT DISCLOSURE [OPTIONAL]<sup>23</sup>**

The submitter presenting this Contribution has reason to believe that there are patent(s) and/or published pending patent application(s) that may be essential to the practice of all or part of this Contribution as incorporated in a TIA Publication.

**OR**

The Source may have patent(s) and/or published pending patent application(s) that may be essential to the practice of all or part of this Contribution as incorporated in a TIA Publication, and the Source is willing to comply with Paragraphs 1, 2(a), or 2(b) of ANNEX H of the TIA Engineering Manual dated March 2005 as to such patent(s) and/or published pending patent application(s).

3

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<sup>23</sup> Per Section 6.4.7 of the Manual, early disclosure can be made by the submitter using one of the following phrases.

## 1 ANNEX H – PATENT HOLDER STATEMENT-SPECIFIC

2 †This Patent Holder Statement is located at <http://www.tiaonline.org/standards/sfg/procedures/ipr.cfm>,  
 3 and such form shall be used to submit Patent Holder Statements whether electronic or written. One form  
 4 per Reference Document should be submitted, however, the Patent Holder Statement-General can be  
 5 used for multipart Standards or other specific groupings of Reference Documents. If you do not know the  
 6 Reference Document Number, please contact TIA Standards Secretariat at +1.703.907.7961.

7 ‡ For definitions of terms used in this statement, please refer to TIA's Engineering Manual dated March 2005 located  
 8 at [http://www.tiaonline.org/standards/sfg/engineering\\_manual.cfm](http://www.tiaonline.org/standards/sfg/engineering_manual.cfm)

Date Statement Completed:	
Reference Document Number: (refer to Project Number, Standards Proposal Number, or reserved or actual document number)	
Reference Document Title: (optional)	
Patent Holder Name:	
Patent Holder Mailing Address:	
Patent Holder Web Site: (optional)	
Name of IPR Contact Person:	
Title of IPR Contact Person:	
Submitter Name:	
Submitter Mailing Address (if different than listed above for Patent Holder):	
Telephone:	
Fax:	
Email:	

9

10 On behalf of the above Patent Holder, and being authorized by the Patent Holder to make such  
 11 statements, the following is indicated:

12 With respect to any Essential Patent(s) necessary for the practice of any or all Normative portions of the  
 13 above Reference Document as it exists on the date of submittal of this form, should such Reference  
 14 Document be approved as a Standard:

1 (mark those Paragraphs below with an "X" that are applicable)

2 (1) The undersigned Patent Holder states:

3 \_\_\_ It does not hold the rights to license any Essential Patent(s) necessary for the practice of any or all  
4 of the Normative portions of the above Reference Document.

5 (2) The undersigned Patent Holder states one of the following:

6 \_\_\_ a) A license under any Essential Patent(s), the license rights to which are held by the undersigned  
7 Patent Holder, will be made available to all applicants under terms and conditions that are  
8 reasonable and non-discriminatory, without monetary compensation, and only to the extent  
9 necessary for the practice of any or all of the Normative portions of the above Reference Document  
10 for the field of use of practice of the Standard;

11 OR

12 \_\_\_ b) A license under any Essential Patent(s), the license rights to which are held by the undersigned  
13 Patent Holder, will be made available to all applicants under terms and conditions that are  
14 reasonable and non-discriminatory, which may include monetary compensation, and only to the  
15 extent necessary for the practice of any or all of the Normative portions of the above Reference  
16 Document for the field of use of practice of the Standard.

17 Either Paragraph (2a) or (2b), whichever is selected above, **may be modified** below by marking one or  
18 both of the following:

19 \_\_\_ The commitment to license above selected will be made available only on a reciprocal basis. The  
20 term "reciprocal" means that the licensee is willing to license the licensor in compliance with either  
21 Paragraph (2a) or (2b) above as respects the practice of the above Reference Document.

22 \_\_\_ The undersigned Patent Holder hereby limits its commitment to license under either Paragraph (2a)  
23 or (2b) above to the Essential Patent(s) identified by issuance and filing dates and numbers on  
24 Exhibit "A" attached hereto, and represents that Exhibit "A" contains all the undersigned's known  
25 licensable Essential Patent(s) rights, as of the date stated below, only to the extent necessary for the  
26 practice of any or all of the Normative portions of the above Reference Document. The undersigned  
27 Patent Holder undertakes to advise TIA of any licensable Essential Patent(s) rights of the  
28 undersigned which become known to the undersigned after this date and to notify TIA whether a  
29 license will be made available with respect thereto in accordance with the TIA IPR Policy. Nothing in  
30 this statement requires the undersigned Patent Holder to make a patent search.

31 The statements contained in Paragraphs (2a) or (2b), if marked, along with any modifications selected  
32 above are irrevocable and shall be binding upon the undersigned. In the event the rights of the  
33 undersigned in and to the Essential Patent(s) subject to such commitments are assigned or transferred,  
34 the undersigned shall notify the assignee or transferee of the existence of such commitments.

35 If none of the above Paragraphs are marked, the undersigned Patent Holder states that it declines to  
36 make any commitments to license on the terms set forth in Paragraphs (1), (2a) or (2b) above.

37 Agreed on behalf of the above Patent Holder:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Name printed)

\_\_\_\_\_  
(Date)

## 1 ANNEX H.1 – PATENT HOLDER STATEMENT-GENERAL

2 Scope means the TIA subject matter considered applicable to this Patent Holder Statement-General. There are three  
 3 categories of scopes, each being successively broader, of which one can be designated in this Patent Holder  
 4 Statement-General. The narrowest scope is limited to a Reference Document, which can include all subparts of a  
 5 multipart document or can be further limited to a specific subpart(s). In lieu of submittal of Patent Holder Statement-  
 6 Specific for each subpart of a multipart Standard, such as TIA/EIA-136 or IS-2000 which has several subparts, it is  
 7 acceptable to submit one statement provided that one selects Category A, provides the Reference Document  
 8 Number, selects Multipart, and indicates ALL PARTS INCLUSIVE.

9 TIA's policy requires the submittal of a new Patent Holder Statement for each revision of a Standard. The scope of  
 10 Category A can also be used to encompass all revisions of a document including subsequently published revisions. It  
 11 is acceptable to submit one Patent Holder Statement-General for all subsequent revisions of a Standard provided that  
 12 one selects Category A, provides the Reference Document Number, indicates Revision Designation, and indicates  
 13 THIS REVISION & ALL SUBSEQUENT REVISIONS.

14 In the scope of Category A, it is acceptable for the submitter to mark both Multipart and Revision Number  
 15 Designations. Please note that if you mark only multipart as an option, this option does not include future revisions of  
 16 the document. If you mark revision designation as an option, and select "THIS REVISION & ALL SUBSEQUENT  
 17 REVISIONS", then this is a designation for all subsequent revisions of the designated document, unless the Patent  
 18 Holder modifies this Statement at a later date.

19 The next category of scope, Category B, is limited to an identified TIA Formulating Group, which can be designated  
 20 by the numeric designation.

21 The broadest category of scope, Category C, is limited to the TIA in general, with specific designations to either (a) all  
 22 TIA Formulating Groups in which the Patent Holder participates; or (b) any TIA Standard.

23 To the extent that varying degrees of scope are selected that result in a conflict (e.g. Category B and C marked) then  
 24 the intent of the Patent Holder making the General Statement shall be construed to apply to the lesser, or more  
 25 limited, scope category. (i.e. Category B)

<b>Scope of Patent Holder Statement-General:</b> (mark one category only):	<b>SCOPE CATEGORY A</b> <input type="checkbox"/> Reference Document Reference Document Number: _____ (can mark one or both of the following designations) <input type="checkbox"/> Multipart Designation a) <input type="checkbox"/> ALL PARTS INCLUSIVE (including subparts, addendum); OR b) <input type="checkbox"/> Specific subpart(s) ; Subpart designation(s) (e.g. .1, .2, .3) _____ <input type="checkbox"/> Revision Designation a) <input type="checkbox"/> THIS REVISION & <b>ALL SUBSEQUENT REVISIONS</b> ; OR b) <input type="checkbox"/> Specific revision (s); Revision designation(s) (e.g. A, B, C) _____
	<b>SCOPE CATEGORY B</b> <input type="checkbox"/> All Patent Holder Contributions to Designated TIA Formulating Group, as specified below: Formulating Group Designation Number (e.g. TR-45.2): _____
	<b>SCOPE CATEGORY C</b> <input type="checkbox"/> The TIA generally, as specified below: (check one only) <input type="checkbox"/> All TIA Formulating Groups in which Patent Holder participates; <b>OR</b> <input type="checkbox"/> Any TIA standard.

26 This Patent Holder Statement is located at <http://www.tiaonline.org/standards/sfg/procedures/ipr.cfm>, and  
 27 such form shall be used to submit Patent Holder Statements whether electronic or written. One form per  
 28 Reference Document should be submitted, however, the Patent Holder Statement-General can be used  
 29 for multipart Standards or other specific groupings of Reference Documents. If you do not know the  
 30 Reference Document Number, please contact TIA Standards Secretariat at +1.703.907.7961.

31 ‡ For definitions of terms used in this statement, please refer to TIA's Engineering Manual dated March 2005 located  
 32 at [http://www.tiaonline.org/standards/sfg/engineering\\_manual.cfm](http://www.tiaonline.org/standards/sfg/engineering_manual.cfm)

Date Statement Completed:	
Patent Holder Name:	
Patent Holder Mailing Address:	
Patent Holder Web Site: (optional)	
Name of IPR Contact Person:	
Title of IPR Contact Person:	
Submitter Name:	
Submitter Mailing Address (if different than listed above for Patent Holder):	
Telephone:	
Fax:	
Email:	

- 1 On behalf of the above Patent Holder, and being authorized by the Patent Holder to make such
- 2 representations, the following is indicated:
- 3 With respect to any Essential Patent(s) relevant to the Standards which fall within the above indicated
- 4 Scope:
- 5

1 (mark those Paragraphs below with an "X" that are applicable)

2 (1) The undersigned Patent Holder states:

3 \_\_\_ It does not hold the rights to license any Essential Patent(s) necessary for the practice of any or all  
4 of the Normative portions of any Standards which fall within the above indicated Scope.

5 (2) The undersigned Patent Holder states one of the following:

6 \_\_\_ a) A license under any Essential Patent(s), the license rights to which are held by the undersigned  
7 Patent Holder, will be made available to all applicants under terms and conditions that are  
8 reasonable and non-discriminatory, without monetary compensation, and only to the extent  
9 necessary for the practice of any or all of the Normative portions of Standard(s) falling within the  
10 above indicated Scope for the field of use of the practice of said Standard(s);

11 OR

12 \_\_\_ b) A license under any Essential Patent(s), the license rights to which are held by the undersigned  
13 Patent Holder, will be made available to all applicants under terms and conditions that are  
14 reasonable and non-discriminatory, which may include monetary compensation, and only to the  
15 extent necessary for the practice of any or all of the Normative portions Standard(s) falling within the  
16 above indicated Scope for the field of use of the practice of said Standard(s);

17 Either Paragraph (2a) or (2b), whichever is selected above, **may be modified** below by marking the  
18 following:

19 \_\_\_ The commitment to license above selected will be made available only on a reciprocal basis. The  
20 term "reciprocal" means that the licensee is willing to license the licensor in compliance with either  
21 Paragraph (2a) or (2b) above as respects the practice of the Standard covered by the requested  
22 license.

23 The statements contained in Paragraphs (2a) or (2b), along with the modification, if selected above, are  
24 irrevocable as to all Reference Documents in existence prior to balloting and shall be binding upon the  
25 undersigned. In the event the rights of the undersigned in and to the Essential Patent(s) subject to such  
26 commitments are assigned or transferred, the undersigned shall notify the assignee or transferee of the  
27 existence of such commitments.

28 Notwithstanding the forgoing, the statements contained in Paragraphs (2a) or (2b), along with the  
29 modification, if selected above, may be amended or terminated upon notice in writing delivered to TIA as  
30 to any or all Reference Documents that have not yet been balloted.

31 If none of the above Paragraphs are marked, the undersigned Patent Holder states that it declines to  
32 make any commitments to license on the terms set forth in Paragraphs (1), (2a) or (2b) above.

33 Agreed on behalf of the above Patent Holder:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Name printed)

\_\_\_\_\_  
(Date)

34

**1 ANNEX I – SOFTWARE COPYRIGHT HOLDER STATEMENT**

2 †This Software Copyright Holder Statement is located at  
 3 <http://www.tiaonline.org/standards/sfg/procedures/jpr.cfm>, and such form shall be used to submit  
 4 Software Copyright Holder Statements whether electronic or written. One form per Reference Document  
 5 should be submitted. If you do not know the Reference Document Number, please contact TIA  
 6 Standards Secretariat at +1.703.907.7961.

7 ‡ For definitions of terms used in this statement, please refer to TIA’s Engineering Manual dated March  
 8 2005 located at [http://www.tiaonline.org/standards/sfg/engineering\\_manual.cfm](http://www.tiaonline.org/standards/sfg/engineering_manual.cfm)  
 9

Date Statement Completed:	
Reference Document Number: (refer to Project Number, Standards Proposal Number, or reserved or actual document number)	
Reference Document Title: (optional)	
Software Copyright Holder Name:	
Software Copyright Holder Mailing Address:	
Software Copyright Holder Web Site: (optional)	
Name of IPR Contact Person:	
Title of IPR Contact Person:	
Submitter Name:	
Submitter Mailing Address (if different than listed above for Software Copyright Holder):	
Software Name or Identification and Version (the “Software”):	
Telephone:	
Fax:	
Email:	

10

11

1 On behalf of the above Software Copyright Holder, and being authorized by the Software Copyright  
2 Holder to make such statements, the following is indicated:

3 With respect to the Software as it exists on the date of submittal of this form, should such Reference  
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(Name printed) (Date)

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37  
38  
39 ACCEPTED AND AGREED TO:

40 \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name printed)

\_\_\_\_\_  
(Name printed)

\_\_\_\_\_  
(Title of Licensor)

\_\_\_\_\_  
(Title of Licensee)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Date)

## 1 ANNEX K – NUMBERING OF DOCUMENTS

Examples	Explanation of Numbering	Explanation of Characters
SP-1234	Initial publication or base document.	
SP-1234.XXX	With the creation of a base document, several parts can be created.  <b>Note:</b> <i>You must have a base document to have sub-parts. Each part can be balloted separately and revised separately; however, base document must be updated appropriately to reflect changes made to the parts.</i>	Committee's discretion as to how many characters will be used in the extension.
SP-1234-AD1 SP-1234-AD2	Addendum 1 to base document Addendum 2 to base document	
SP-1234-RV1 SP-1234-RV2	Revision 1 of TIA-999-A Revision 2 of TIA-999-B	
SP-1234-AD1-RV1 SP-1234-AD1-RV2	Revision A of addendum 1 to TIA-999 Revision B of addendum 1 to TIA-999	
SP-1234-RV1-AD1 SP-1234-RV1-AD2	Addendum 1 to revision A of TIA-999 Addendum 2 to revision A of TIA-999	
SP-1234-URV	Revision and upgrade of a TSB or IS to ANS Status	
SP-1234-UG	Upgrade of a TSB or IS to ANS Status	
SP-1234-RF1 SP-1234-RF2	Reaffirmation of TIA-999 first time Reaffirmation of TIA-999 second time	
SP-1234-WD	Withdrawal of a TSB, IS, or ANS document	

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**Note:** *Every time a document is revised, it incorporates all addenda from the previous revision. For example, if TIA-999 had two addenda (TIA-999-1 and TIA-999-2) then revision A of TIA-999 would incorporate the previous version and all its addenda.*

1           **Note:** *Every time a part is modified (revised or rescinded), the text of the*  
2           *umbrella document must be modified accordingly.*

3           These procedures allow the same project number (PN) to be associated with the life of  
4           a document. For example, PN-1234 would be assigned to a new TIA-999. If a revision  
5           is proposed for TIA-999, the same project number (PN-1234) can be used again with  
6           the addition of the letter "A" (PN-1234-A) using the nomenclature described in the above  
7           table. If an addendum is proposed for TIA-999, the project number would be  
8           PN-1234-1.

9  
10          The same nomenclature also will be used for Standards Proposals (SP). The  
11          advantage of having the same PN/SP number associated with the life of a document is  
12          ease of tracking related parts.