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Version 2.2

**TIA
OID (Object Identifier)**

**ASSIGNMENT
GUIDELINES
AND
PROCEDURES**

**Prepared by: Telecommunications Industry Association (TIA)
Engineering Committee TR-45**

Editor: Gary Pellegrino CommFlow Resources Inc.

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1.0 PREFACE

This document contains the guidelines and procedures for the assignment and use of OID codes assigned by TIA under the “tia” OID tree branch for ASN.1 modules. TIA accepts no liability and makes no representation to the accuracy of “tia” OID sub-tree information. It is the responsibility of the applicant to verify any accuracy.

2.0 BACKGROUND

Many standards define certain objects for which unambiguous identification is required. Assignment of a name to an object makes the assignment available to interested parties and fosters interoperability.

Publishing in the standard the names and the corresponding definitions of the object effects identification. The form of name used and the management of the registration naming-domain ensures independent assignment of unambiguous names by different registration authorities.

In an open and international world such as the one of telecommunications and information technologies, you often need to be able to reference an "object" in a unique and universal way. The Abstract Syntax Notation One (ASN.1) standard defines an object as being "*a well-defined piece of information, definition or specification which requires a name in order to identify its use in an instance of communication.*".

In general, an object is a “class of information” (for example, a file format), rather than an “instance” of such a class (for example, an individual file). It is thus the class of information (defined by some referenceable specification), rather than the piece of information itself, that is assigned a place in the tree. The naming structure that has been chosen is a tree structure that allows naming objects in a local or international context, without being limited either by the registration authority, or by the number of objects they can register. The naming pattern is therefore similar to the one of the Internet domains and sub-domains. Each new node is associated with an identifier (for the legibility; it is a word beginning with a lowercase letter) and a number (that will be used for data transfers).

Example: {joint-iso-itu-t(2) ds(5) attributeType(4) distinguishedName(49)}

An object identifier is semantically an ordered list of object identifier components. Starting with the root of the object identifier tree, each object identifier component identifies an arc in the object identifier tree. The last object identifier component identifies an arc leading to a vertex to which an object has been assigned. It is this object, which is identified by the object identifier.

The registration tree (object tree) is indeed managed in a completely decentralized way (a node gives full power to its children) and it is impossible to be exhaustive (particularly world-wide). The registration tree (object tree) is defined and managed following the ITU-T X.660 & X.670 Recommendations series (or the ISO 9834 series).

3.0 “tia” OID SUBTREE TIA CONTACT INFORMATION

Correspondence relating to the administration herein should be directed to TIA OID Administrator;

TIA OID Administrator
1320 N. Courthouse Rd. Suite 200, Arlington, VA 22201
Phone: 703-907-7700 Fax: 703-907-7727 e-mail: oidadmin@tiaonline.org

4.0 PURPOSE AND SCOPE

The (OID) is used as a means to facilitate interoperability and use of ASN.1 object identifier modules.

These guidelines describe the TIA administration and assignment process for the sub-tree designations below OID “tia”. The American National Standards Institute (ANSI) is the registration authority for the “iso/member-body/us” branch of the tree [see section. 8.0]. TIA has registered sub-tree “tia” with ANSI and is the “tia” sub-tree Assignor.

5.0 REFERENCES

Informative

- 5.1 ITU-TX.660
- 5.2 ITU-TX.670
- 5.3 ISO 9834

6.0 ASSUMPTIONS AND CONSTRAINTS

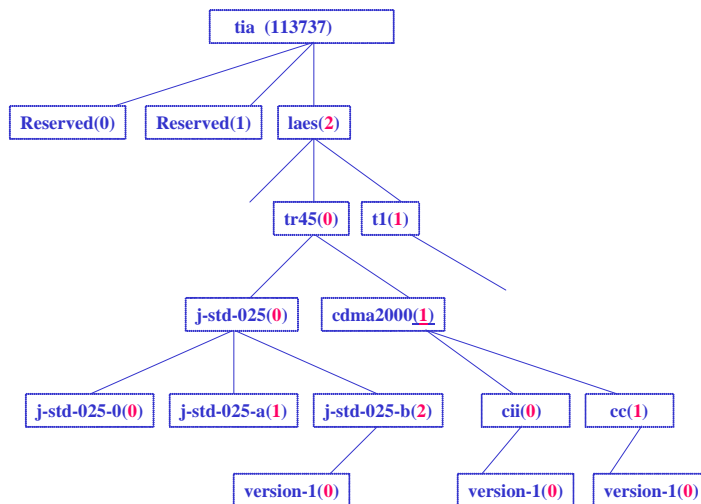
These guidelines are based on the following assumptions and constraints:

- 6.1 The TIA “tia” subtree allocated values 0 and 1 are reserved.

7.0 TIA OID TREE DIAGRAM AND ASSIGNMENTS

- 7.1 Structure below the TIA “tia” sub-tree (as of June 2011):

“tia” OID Object Tree



7.2 Assignments ;

Laesp-j-std-025-b;

{iso(1) member-body(2) us(840) tia(113737) laes(2) tr45(0) j-std-025(0) j-std-025-b(2) version-1(0)} ,

CDMA2000CIIModule;

{iso(1) member-body(2) us(840) tia(113737) laes(2) tr45(0) cdma2000(1) cii(0) version-1(0)},

CDMA2000CCModule;

{iso(1) member-body(2) us(840) tia(113737) laes(2) r45(0) cdma2000(1) cc(1) version-1(0)}

7.3 Structure below the iso(1) sub-tree:

The OID tree is found on the website <http://www.oid-info.com/get/1> . The following is an example from this website showing below the “iso (1)” sub-tree and is not intended to be updated in future revisions of this document unless required for further clarity. See section 7.1 for the structure below the TIA “tia” sub-tree (113737) which these guidelines address.

```
iso(1
)
  standard(0)
  registration-authority(1)
  member-
  body(2)
    au(36)
    at(40)
    be(56)
    unassigned(110)
    cn(156)
    tw(158
    )
    fi(246
    )
    f(250)
    de(276)
    ca(302)
    hk(344)
    372
    jp(392)
    410
    nl(528)
    no(578)
    pl(616)
    ru(643)
    702
    se(752)
    uk(826)
    us(840)
      organization(1)
```

z39-50(10003)
10006
ieee802-1B(10007)
dicom(10008
)
ieee802dot1partF(10011)
t1-114(10013)
10017
10022
ieee802dot1110036
x9-57(10040)
ansi-x962(10045)
ansi-x942(10046)
ansi-x952(10047)
x945(10052)
nortelnetworks(113533)
sun(113536)
rsadsi(113549)
mit(113554)
microsoft(113556
)
113560
113572
113618
113658
113699
tia (113737)
113741
114021
114050
114222
114283

862

8.0 ANSI OID ADMINISTRATION BACKGROUND

ANSI is the registration authority for the “US (840)” OID subtree for organization names under the global registration process established by ISO and ITU.

ANSI website (http://www.ansi.org/other_services/registration_programs/reg_org.aspx) states:”
The ANSI procedure is available from the Registration Coordinator Karen Hughes (Phone: 212.642.4992, e-mail: isot@ansi.org)”.

9.0 ASSIGNMENT PRINCIPLES

- 9.1 Assigned OIDs are found in section 7.0 of this document.
- 9.2 The current TIA Administration Guidelines and Procedures for “tia” (113737) OID can be found at TIA Web Site <http://www.tiaonline.org/standards/numbering-resources/tia-oid-object-identifier-assignment-guidelines-and-procedures> .
- 9.3 TIA OID assignments will be allocated in a fair and impartial manner.

10.0 CRITERIA FOR OID ASSIGNMENT

Potential OID applicants should consider the assignment criteria in this section before submitting a request;

A fee for assignments may be charged. Fees are waived if joint standards development use of an OID is maintained. There is no fee charged for TIA Engineering Committee or Subcommittee assignments.

Application of “tia” sub-tree requests are limited to standards bodies and forums working on ASN.1 modules and requires TIA Committee endorsement prior the TIA OID Administrator processing of the request.

The Assignee has the rights to use an assigned “tia” OID sub-tree designation as assigned by TIA and may assign nodes/OIDs under its assigned OID. The Assignee may designate and assign at-will any nodes under its OID. The “tia” OID sub-tree Assignee will maintain and make available to the TIA OID Administrator its sub-tree records reflecting any nodes assigned under its OID.

Codes assigned may be used by the Assignee but are not the property of the Assignee.

11.0 RESPONSIBILITIES OF “tia” OID SUBTREE APPLICANTS AND ASSIGNEES

Entities requesting OID assignments shall comply with these TIA OID Guidelines by submitting the appropriate Form with the purpose and justification stated (see the following forms):

- 11.1 Applicants must apply in writing to the OID Administrator by completing *Form A - OID APPLICATION* to request an OID sub-tree assignment under the “tia” OID.
- 11.2 Applicants must submit *Form B - CERTIFICATION OF COMPLIANCE WITH OID GUIDELINES* after implementation of the OID assigned from form A.
- 11.3 Applicants must submit *Form C – RETURN OF AN OID* to return an OID assigned from a Form A request when no longer needed.

Copies of all required forms are included in these guidelines.

12.0 RESPONSIBILITIES OF THE TIA OID ADMINISTRATOR

The role of the TIA OID Administrator is to manage the entire “tia” OID resource and to directly administer the “tia” OID under TIA “tia” sub-tree level. In this context, the TIA OID Administrator shall:

- 12.1 process requests received for a TIA “tia” sub-tree OID and submit to the appropriate supporting TIA Committee or Subcommittee for timely evaluation and recommendation for assignment.
- 12.2 allocate tree designation and maintain Tree assignment list (see: <http://oid-info.com/cgi-bin/display?oid=1.2.840.113737&action=display>).
- 12.3 reply to requester with status of the request and designation (if approved) with a copy to the supporting Committee/Subcommittee Chair.
- 12.4 periodically query an applicant/assignee to see if the OID is still in use and needed. The Administrator may initiate a request to return an OID if deemed unused.
- 12.5 maintain “tia” assignment from ANSI (see Section 8. herein)
- 12.6 accept all referrals of alleged non-use or misuse of OID assignments under “tia” sub-tree and investigate (also see section 15.0 regarding dispute resolutions).

13.0 MAINTENANCE OF GUIDELINES

It may be necessary to modify these guidelines periodically to meet changing and unforeseen circumstances. The TIA OID Administrator, any entity in the wireless telecommunications sector, or the appropriate wireless industry forum, may identify the need for guidelines modification. Maintenance of these guidelines is the responsibility under TIA TR-45 with guidance from appropriate Subcommittees.

Questions or concerns regarding the maintenance of the guidelines may be directed to:

Organization:	Telecommunications Industry Association
Name:	TIA OID Administrator
Address:	1320 N. Courthouse Rd. Suite 200
City:	Arlington
State:	VA
Zip:	22201
Telephone:	703-907-7700 (main #)
Fax:	703-907-7727
E-mail:	oidadmin@tiaonline.org

14.0 GLOSSARY

ANSI American National Standards Institute

ASN.1 Abstract Syntax Notation One, is an international standard that aims at specifying data used in communication protocols

LAES Lawfully Authorized Electronic Surveillance

OID Object Identifier

15.0 APPEALS PROCESS

Disagreements may arise between the OID Administrator and OID applicants or assignees in the context of the administration and management of OIDs and the application of these guidelines. In all cases, the OID Administrator and OID applicants/assignees shall make reasonable, good faith efforts to resolve such disagreements among themselves, consistent with the guidelines, prior to pursuing any appeal. Appeals may include, but are not limited to, one or more of the following situations,

By submitting an application for OID assignments, accepting these Guidelines, or accepting any OID Assignments, the company agrees that these Guidelines and all disputes arising out of or relating to the application for or assignment of OIDs shall be governed by the laws of the state of Virginia without giving effect to applicable conflict of laws provisions. The parties further agree that they will first attempt to resolve any and all disputes, differences, or questions arising out of or relating to these Guidelines, or the validity, interpretation, breach, or violation or termination thereof through a meeting of the principals of the parties. Such meeting may be in person, via telephone or via videoconference. If such a meeting does not resolve the dispute between the parties, the matter must first be brought to a meeting of the TIA TR-45 EUMAG. If that meeting does not resolve the issue, the matter must then be brought to the industry experts participating in TIA TR-45. In the event such meetings are unsuccessful, then such dispute shall be finally and solely determined and settled by arbitration in Washington, D.C. in accordance with the Commercial Arbitration Rules of the American Arbitration Association. In any such arbitration proceedings, the arbitrators shall adopt and apply the provisions of the Federal Rules of Civil Procedure relating to discovery so that each party shall allow and may obtain discovery of any matter not privileged which is relevant to the subject matter involved in the arbitration to the same extent as if such arbitration were a civil action pending in a United States District Court. Judgment upon any arbitration award may be entered and enforced in any court of competent jurisdiction. All notices required hereunder shall be in writing.

Reports on any resolution resulting from the above situations, the content of which is mutually agreed upon by the involved parties, and kept on file by the OID Administrator. At a minimum, the report contains the final disposition of the appeal; e.g., whether or not an OID was assigned.

16.0 REVISION HISTORY

Version 0.1 – July 16, 2003 Draft release with initial comments for LAES AHG

Version 0.4 – June 3, 2004 Draft release with edits including “ti” OID correction to “tia”

Version 1.0 – June 3, 2004 Initial publication version

Version 1.1 – March 15, 2006 TIA OID Administrator contact & editorial updates

Version 2.0 – December 13, 2010 TR-45 approved

Version 2.1 – June 1, 2011 Publication includes appeals process and editorial updates

Version 2.2 – March 12, 2014 Includes TIA address change and editorial updates

17.0 TIA OID APPLICATION AND RELATED FORMS PACKAGE

The forms in this package are used for communication between the TIA OID Administrator and applicants for assignments of these resources. Forms included in this package are:

Form A – (OID) APPLICATION

Applicants complete, sign, and return this form to apply for an OID.

Form B – CERTIFICATION OF COMPLIANCE WITH OID GUIDELINES

Applicants/Assignees complete, sign, and return this form after the Standard using the OID applied for is published to certify compliance of OID Guidelines and use.

Form C – RETURN OF AN OID

Applicants/Assignees using an OID assigned as a “tia” OID subtree identifier complete this form to return a “tia” OID sub-tree designation to TIA when no longer needed.

Return completed forms to:

TIA OID Administrator
1320 N. Courthouse Rd. Suite 200, Arlington, VA 22201
Phone: 703-907-7700 (main #) Fax: 703-907-7727 e-mail: oidadmin@tiaonline.org

FORM A – (OID) APPLICATION

Entity requesting assignment:

General description of the use for the OID (e.g., purpose and justification):

.....
.....
.....

Standard and/or Project Number referencing use of OID

Do special considerations apply or an addendum?

YES NO

If YES, please specify the special consideration needed

.....
.....

Contact name:

Company:

Address:

Room:

City, State, ZIP:

Country:

Phone: Fax: E-mail:

Signature below indicates that the applicant:

- Certifies the accuracy of the information provided in this application,

Authorized name:

Authorized signature:

Date of application:

Please Note: Applications for Alphanumeric Names will be rejected if not signed.

FORM A – (OID) APPLICATION

There may be a non-refundable fee for each OID requested and allocated by the administrator. Pricing for applications are set by the OID Administrator. Please contact the OID Administrator or refer to the TIA website for the current fee structure. Payment of the non-refundable fee is:

- by enclosed check (made payable to TIA) or
- by credit card (mark one):
 - MasterCard
 - Visa
 - American Express

Credit card number _____

Expiration date _____

Signature of card holder _____

Printed name of card holder _____

Dated: _____

Return completed application forms to:

TIA OID Administrator
1320 N. Courthouse Rd. Suite 200, Arlington, VA 22201
Phone: 703-907-7700 (main #) Fax: 703-907-7727 e-mail: oidadmin@tiaonline.org

FORM B - CERTIFICATION OF COMPLIANCE WITH OID GUIDELINES

We/I, _____, certify that OID Code _____, has been used in accordance
(Assignee)
with all of the terms and provisions set forth in the TIA OID Guidelines as published by TIA and posted on the TIA web site on the date of this certification. We/I further specify that we/I have complied in specific with applicable Sections of the TIA OID Guidelines. We/I understand that we/I have no ownership in the Code assigned.

We/I understand that failure to comply with the OID Guidelines may result in the forfeiture of the above OID Code(s).

Signed: _____

Title: _____

Date: _____

Return completed Form B to:

TIA OID Administrator
1320 N. Courthouse Rd. Suite 200, Arlington, VA 22201
Phone: 703-907-7700 (main #) Fax: 703-907-7727 e-mail: oidadmin@tiaonline.org

FORM C – RETURN OF AN OID

We/I, _____, no longer use or require the assignment and posting of OID
(Assignee)

Code _____, as of the date of this certification. We/I further specify that we/I have complied in specific with applicable Sections of the TIA OID Guidelines.

Signed: _____

Title: _____

Date: _____

Return completed Form C to:

TIA OID Administrator
1320 N. Courthouse Rd. Suite 200, Arlington, VA 22201
Phone: 703-907-7700 (main #) Fax: 703-907-7727 e-mail: oidadmin@tiaonline.org