

# Technical Report TR-026

## T1.413 Issue 2 ATM based ADSL ICS

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# 1. Revision History

Date (M/D/Y)	Version	Major Changes.
12/1/98	1	Creation, First draft.
3/1/99	2	Swap body and annex, 3 annexes
3/24/99	3	Include contributions 99-014,99-004
5/26/99	4	Prepare for first straw ballot
9/1/1999, 9/9/99	5	Comments from 99-179,99-233 as agreed at Hawaii meeting. Minor edits (spaces, table of contents, etc.)

## 2. Introduction

The ADSL Forum Testing & Interoperability Working Group has developed this ADSL ICS (ADSL Implementation Conformance Statement).

The ADSL ICS can be used for several purposes:

1. As a starting document used by two equipment vendors to determine their respective implementations and their degree of interoperability.
2. As a guide for selection of the appropriate test cases to build a test suite.
3. For self-verification or certification of compliance to a specific standard, when comparing to an ADSL ICS filled out with the requirements of this standard.

When this proforma list is filled out by both parties and a match is obtained, then interoperability should be possible. Having a match for interoperability does not imply that the systems are [ANSI] compliant.

## 3. Scope

This Technical Report presents an ADSL ICS list targeting an [ANSI] compliant system. This ADSL ICS contains an ICS for an ATM based implementation. An STM based ICS is for further study.

Three types of ICS exist:

1. Electrical ICS,
2. Physical Layer ICS, and
3. Protocol ICS (also called PICS).

The format of the ADSL ICS is according to the guidelines specified in [ETR212]. [ETR212] also references [ISO9646].

ANNEX A contains the Conformance statement.

ANNEX B contains the Physical layer ADSL ICS.

ANNEX C contains the electrical ADSL ICS. Each ANNEX can be used as a proforma.

The Protocol ICS is for further study.

## 4. A guide to the use of the ADSL ICS proforma

### 4.1 Abbreviations and conventions

The information in this document is comprised of information in tabular form in accordance with the guidelines of [ETR212] and [ISO9646]. A detailed description of how to create or fill out the ICS can be found in these documents.

The item column contains a number which identifies the item in the table. The item description column describes in free text each respective item (e.g., parameters, timers). It implicitly means "is <item description> supported by the implementation?".

### Status column

The following notations, defined in [ISO9646], are used for the status column:

- m mandatory - the capability is required to be supported.
- o optional - the capability may be supported or not.
- n/a not applicable - in the given context, it is impossible to use the capability.
- x prohibited (excluded) - there is a requirement not to use this capability in the given context.
- o.i qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.

NOTE: In the case where items of the group do not always belong to the same table, all o.i shall be defined in the last sub-clause of the ICS proforma.

- c.i conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table.

### Reference column

The reference column makes references to [ANSI], except where explicitly stated otherwise.

### Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in [ISO9646], are used for the support column:

- Y or y supported by the implementation
- N or n not supported by the implementation
- N/A, n/a or - no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status)

### Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values: <min value> .. <max value>  
example: 5 .. 20
- list of values: <value1>, <value2>, ....., <valueN>  
example: 2 ,4 ,6 ,8, 9  
example: '1101'B, '1011'B,  
example: '0A'H, '34'H, '2F'H
- list of named values: <name1>(<val1>), <name2>(<val2>), ....., <nameN>(<valN>)  
example: reject(1), accept(2)
- length: size (<min size> .. <max size>)  
example: size (1 .. 8)
- comment: one can give additional useful information an item in the form Ô- <comment>Ó  
For example in case of a list of values, a unit of measurement can be added  
example: 1..63 -- dB

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