

**Proposed Amendment No. 1
To Conditional Access System for Terrestrial
Broadcast, Doc. A/70A**

Advanced Television Systems Committee
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1. INTRODUCTION AND EXPLANATION OF REASON FOR CHANGES

As originally intended, the CA_system_id field in ATSC A/70 was intended to mirror and take values directly from the DVB-maintained list of CA_system_id in ETR 162. This intention was not fully codified in the document.

This amendment corrects this error, as well as updating the reference to FIPS 46-3 (DES) and correcting a typographical error in reference 10.

Change instructions are given in *italics*. New text that is to be added is shown in blue underline. Text that is to be deleted is shown in ~~red strikethrough~~.

2. AMENDMENT

2.1 Update References

Update reference 1 as shown below:

- [1] ATSC ~~Standard A/53CE-(2004)~~; “ATSC Digital Television Standard, Revision E with Amendment No. 1” Advanced Television Systems Committee, Washington, D.C., 27 December 2005 (Amendment No. 1 dated 18 April 2006). (*Normative*). Available from the ATSC at www.atsc.org.

Update reference 2 as shown below:

- [2] ATSC ~~Standard A/65BC:-(2003)~~; “Program and System Information Protocol for Terrestrial Broadcast and Cable (PSIP), Revision C with Amendment No. 1,” Advanced Television Systems Committee, Washington, D.C., 2 January 2006 (Amendment No. 1 dated 9 May 2006). (*Normative*). Available from the ATSC at www.atsc.org.

Update reference 3 as shown below:

- [3] ~~CEA-679-BC (1999)~~2005, “National Renewable Security Standard (NRSS),” Consumer Electronics Association (*Normative*). Available from Global Engineering Documents at www.global.ihs.com.

Revise reference 5 as shown below:

- [5] ISO/IEC 13818-1:2000, Information Technology — Generic coding of moving pictures and associated audio — Part 1: ~~S~~systems. (*Normative*). Available from the International Telecommunications Union at www.itu.org (as ITU-T Rec. H.222.0), and Global Engineering Documents at www.global.ihs.com.

Revise reference 6 as shown below:

- [6] FIPS PUB 46-3 (1999) ~~Specification for the~~ “Data Encryption Standard (DES),” National Institute of Standards and Technology. (*Normative*). ~~Note this standard is withdrawn and no longer approved for U.S. Government use, yet~~ Available from ~~the U.S. Department of Commerce, National Technical Information Service at~~ www.itl.nist.gov/fipspubs/ ~~the National Institute of Standards and Technology, Computer Security Division, Computer Security Resource Center at~~ <http://csrc.nist.gov/publications/fips/fips46-3/fips46-3.pdf>.

Revise reference 7 as shown below:

- [7] FIPS PUB 74 (1981), “Guidelines for Implementing and Using NBS DES,” National Institute of Standards and Technology. (*Informative*). Available ~~from the U.S. Department of Commerce, National Technical Information Service at www.itl.nist.gov/fipspubs/.~~ [at http://www.itl.nist.gov/fipspubs/fip74.htm.](http://www.itl.nist.gov/fipspubs/fip74.htm)

Revise reference 8 as shown below:

- [8] FIPS PUB 81 (1980), “DES Modes of Operation,” National Institute of Standards and Technology. (*Normative*). Available ~~from the U.S. Department of Commerce, National Technical Information Service at www.itl.nist.gov/fipspubs/.~~ [at http://www.itl.nist.gov/fipspubs/fip81.htm.](http://www.itl.nist.gov/fipspubs/fip81.htm)

Revise reference 10 as shown below:

- [10] ETR 289 ed.1 (1996-10), “Digital Video Broadcasting (DVB); Support for use of scrambling and Conditional Access (CA) within digital broadcast systems,” European Telecommunications Standards Institute (*Informative*). Available from ETSI at www.etsi.org <http://www.etsi.org>.

Add reference 13:

- [13] [ETSI: “Digital broadcasting systems for television, sound and data services; Allocation of Service Information \(SI\) codes for Digital Video Broadcasting \(DVB\) systems,” ETR 162 ed.1 \(1995-10\), Section 4.3, European Telecommunications Standards Institute \(Informative\). Available from ETSI at <http://www.etsi.org>.](#)

Renumber cited references as appropriate.

2.2 Update Section 4.1.3.1

Revise section 4.1.3.1 as shown below:

4.1.3.1 Conditional Access Table

There shall be a Conditional Access Table (CAT), as defined in ISO/IEC 13818-1 [5]. The CAT shall contain one or more CA_descriptor, as defined in ISO/IEC 13818-1 [5]. Each CA_descriptor provides the PID for EMMs for a particular conditional access system.

~~The~~ [CA_system_id](#) values shall be as defined in ETR 162 Section 4.3 (Table 3). ~~managed by ATSC. A set of CA_system_id values shall be given to each CA provider. Conditional access system vendors are advised to contact DVB (<http://www.dvb.org>) for assignment of new values.~~

NRSS-B CA modules shall filter the CAT table. NRSS-A CA modules may filter the CAT table.