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Rev. 4 — 5 April 2006  
Rev. 5 — 3 May 2006

**WORKING DRAFT AMENDMENT No. 1**

**TO CONDITIONAL ACCESS SYSTEM FOR TERRESTRIAL  
BROADCAST**

**Doc. A/70A**

## 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

*Revise reference 6 as shown below:*

- [6]. FIPS PUB 46-3 (1999), Specification for the Data Encryption Standard, 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 ~~Note this standard is withdrawn and no longer approved for U.S. Government use, yet~~ Available from ~~the U.S. Department of Commerce, National Technical Information Service at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/](http://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 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 11:*

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

### 2.2 Update §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 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.