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**Television systems;
Allocation of Service Identification (SI) codes for
Multiplexed Analogue Component (MAC)/Packet services**

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Foreword

This ETSI Technical Report (ETR) has been produced under the authority of the Joint Technical Committee (JTC) of the European Broadcasting Union (EBU) and the European Telecommunications Standards Institute (ETSI).

This ETR is used to publish material, relating to the use or the application of MAC/Packet system related ETSs.

NOTE: This EBU/ETSI JTC was established in 1990 to co-ordinate the drafting of European Telecommunications Standards in the specific field of radio, television and data broadcasting.

The EBU is a professional association of broadcasting organisations whose work includes the co-ordination of its Members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has active members in about 50 Countries in the European Broadcasting area; its headquarters is in Geneva *.

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Introduction

This ETR accompanies the European Telecommunication Standards (ETSs) for the various members of the MAC/Packet family of systems. Two sets of code values, in particular to identify the type of Conditional Access system(s) in use and to identify the Channel itself, are likely to change as further systems of Conditional Access are introduced, or as new channels of MAC/Packets are broadcast. It is therefore not appropriate to incorporate this information within the related ETS, but instead to publish a register in the form of an ETR, which may be updated as necessary.

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1 Scope

This ETSI Technical Report (ETR) supplements the European Telecommunication Standards (ETSS) ETS 300 250 [1], ETS 300 352 [2] and ETS 300 355 [3] which describe the various MAC/Packet systems.

This ETR identifies the Service Identification codes allocated for MAC/Packet systems. Two sets of code values are identified:

- the type of Conditional Access system(s) in use; and
- the channel itself.

2 References

This ETR incorporates by dated and undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETR only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 250: "Television systems; ETSI/EBU Joint Technical Committee (JTC) Specification of the D-MAC/Packet system".
- [2] ETS 300 352: "Television systems; Specification of the D2-HDMAC/Packet system".
- [3] ETS 300 355: "Television systems; Specification of the D-MAC/Packet system".

3 Symbols and abbreviations

For the purposes of this ETR, the following symbols and abbreviations apply:

| | |
|----------|--|
| CA | Conditional Access |
| CHID | Channel Identification |
| D-MAC | Digital-Multiplexed Analogue Component |
| D2HD-MAC | Digital 2 High Definition-Multiplexed Analogue Component |
| Hex | Hexadecimal |
| WARC | World Administrative Radio Conference |

4 Satellite services in D-MAC, D2-MAC and D2-HDMAC

Register of Service Identification (SI) codes (June 1994)

4.1 Conditional Access byte (CA-byte)

- "10" NR-MSK;
- "20" System S;
- "30" EuroCypher;
- "40" EuroCrypt;
- "50" Videoguard.

4.2 Channel Identification (CHID)

CHID code allocations are given in table 1.

NOTE: The presence of a CHID code allocation in this table does not necessarily imply that the service is active.

Table 1: CHID code allocations

| Service or operator | Satellite | Location | CHID (Hex) | WARC channel or frequency | System |
|-------------------------------------|----------------|----------|------------|---------------------------|-----------------|
| Arte | TDF 1/2 | 18,8°W | 5003 | 9 | D2-MAC |
| BBC World Service TV | Intelsat 601 | 27,5°W | 4BBC | 10,995GHz | D2-MAC |
| BSkyB | Marcopolo 1 | 31°W | 20B1 | 4 | D-MAC |
| BSkyB | Marcopolo 1 | 31°W | 70B2 | 8 | D-MAC |
| BSkyB | Marcopolo 1 | 31°W | 48B3 | 12 | D-MAC |
| BSkyB | Marcopolo 1 | 31°W | D0B4 | 16 | D-MAC |
| BSkyB | Marcopolo 1 | 31°W | E8B5 | 20 | D-MAC |
| Canal Plus 16:9 | Télécom 2A | 8,0°W | | 12,522GHz | D2-MAC |
| Canal Plus | TDF 1/2 | 18,8°W | 6802 | 5 | D2-MAC |
| Children's Channel | Thor | 0,8°W | 6914 | 12 | D-MAC |
| Ciné-Cinéfil 4:3 | Télécom 2A | 8,0°W | | 12,564GHz | D2-MAC |
| Ciné-Cinémas 16:9 | Télécom 2A | 8,0°W | | 12,690GHz | D2-MAC |
| Ciné-Cinémas 4:3 | Télécom 2B | 5,0°W | | 12,669GHz | D2-MAC |
| CNN International | Thor | 0,8°W | C912 | 1 | D2-MAC |
| Discovery Channel | Thor | 0,8°W | | 12 | D2-MAC |
| 3Sat | TV Sat 2 | 19,2°W | | 10 | D2-MAC |
| Eins Plus | TV Sat 2 | 19,2°W | | 18 | D2-MAC |
| ESA | Olympus | 19°W | A820 | 20 | D2 and/or D-MAC |
| ESA | Olympus | 19°W | 6024 | 24 | D2 and/or D-MAC |
| ESA | Olympus | 19°W | 1028 | 28 | D2 and/or D-MAC |
| EuroPace | Eutelsat II F1 | 13,0°E | | 12,563GHz | D2-MAC |
| EuroStep | Eutelsat II F3 | 16,0°E | | 10,987GHz | D2-MAC |
| Eurosport Nordic | Thor | 0,8°W | F113 | 2 | D-MAC |
| FilmMax | Intelsat 601 | 27,5°W | | 11,667GHz | D2-MAC |
| FilmNet Plus (Scandinavia) | Astra 1A | 19,2°W | | 11,362GHz | D2-MAC |
| FilmNet: The Complete Movie Channel | Tele-X | 5,0°E | | 12,673GHz | D2-MAC |

(continued)

Table 1: CHID code allocations (concluded)

| Service or operator | Satellite | Location | CHID (hex) | WARC Channel or Frequency | System |
|-------------------------------------|----------------|----------|------------|---------------------------|--------|
| FilmNet: The Complete Movie Channel | Thor | 0,8°W | 9911 | 16 | D2-MAC |
| France Supervision | Télécom 2A | 8,0°W | | 12,606GHz | D2-MAC |
| Der Kabelkanal | Eutelsat II F1 | 13,0°E | | 11,055GHz | D2-MAC |
| MCM | TDF1/2 | 18,8°W | 3801 | 1 | D2-MAC |
| MTV Europe | Thor | 0,8°W | 5115 | 20 | D2-MAC |
| Norsk TV2 | Intelsat 515 | 18,0°W | 9014 | 11,540GHz | D2-MAC |
| NRK | Tele-X | 5,0°E | 0000 | 32 | D-MAC |
| NTA | Thor | 0,8°W | 5115 | 20 | D-MAC |
| RTL Television | TV Sat 2 | 19,2°W | | 2 | D2-MAC |
| Sat1 | TV Sat 2 | 19,2°W | | 6 | D2-MAC |
| SVT1 | Intelsat 512 | 1,0°W | 9102 | 11,681GHz | D-MAC |
| SVT1 | Intelsat 515 | 18,0°W | 3012 | 11,133GHz | D-MAC |
| SVT2 | Intelsat 512 | 1,0°W | A903 | 11,177GHz | D-MAC |
| SVT2 | Intelsat 515 | 18,0°W | 0813 | 11,176GHz | D-MAC |
| TDF | TDF 1/2 | 18,8°W | 3801 | 1 | D2-MAC |
| TDF | TDF 1/2 | 18,8°W | C804 | 13 | D2-MAC |
| TDF | TDF 1/2 | 18,8°W | F005 | 17 | D2-MAC |
| TV Plus | Eutelsat II F3 | 16,0°E | | 11,554GHz | D2-MAC |
| TV 1000 | Astra 1A | 19,2°E | | 11,303GHz | D2-MAC |
| TV3 Danmark | Astra 1B | 19,2°E | | 11,612GHz | D2-MAC |
| TV3 Sverige | Astra 1A | 19,2°E | | 11,244GHz | D2-MAC |

History

| Document history | |
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