

UIT - Secteur de la normalisation des télécommunications
ITU - Telecommunication Standardization Sector
UIT - Sector de Normalización de las Telecomunicaciones

Study Period 1997-2000

Commission d'études }
Study Group } **16**
Comisión de Estudio }

Contribution tardive }
Delayed Contribution } **D.322 (WP 2/16)**
Contribución tardía }

Geneva, 7-18 February 2000

Texte disponible seulement en }
Text available only in } **E**
Texto disponible solamente en }

Question(s): 11/16

SOURCE*: PictureTel Corp.

TITLE: Usage of extended T.35 country codes in Recommendations H.221, H.224, and H.242

1. Introduction

At the Red Bank Rapporteur meeting (October 18-22, 1999), the Rapporteur of Q11 requested PictureTel to investigate the effects that the revised Recommendation T.35 to be decided in February 2000 will have on the H.320 suites of recommendations. The revised Recommendation T.35 extends the number of possible country codes to allow more than 254 countries. This is being achieved by introducing a second byte for new countries being reached by an escape code in the first byte of "1111 1111" (0xFF). Countries defined in the first byte are listed in Annex A/T.35 and countries defined in the second byte are listed in Annex B/T.35.

2. References

- [1] ITU-T Recommendation T.35 (COM 8-93-E)
- [2] ITU-T Recommendation H.221 (1999)
- [3] ITU-T Recommendation H.224 (COM 16-104-E)
- [4] ITU-T Recommendation H.242 (1999)

* **Contact:** Patrick Luthi

Tel: +1 978-292-4354
Fax: +1 978-292-3328
E-mail: luthip@pictel.com

Attention: This is not an ITU publication made available to the public, but an **internal ITU Document** intended only for use by the Member States of the ITU and by its Sector Members and their respective staff and collaborators in their ITU related work. It shall not be made available to, and used by, any other persons or entities without the prior written consent of the ITU.

3. Recommendations affected

We have identified the following H.320 suite recommendation to need some additional text because of the introduction of a second byte of T.35 country codes:

- H.221 (section A.9)
- H.224 (section 10.2)
- H.242 (Appendix III)

4. Proposed changes

4.1 Clarifications to H.221

Country codes are used by NS-cap and NS-comm as described in section A.9 - Escape table values (111). In footnote 4, the following text should be added:

[Begin Correction]

- 4 Country code consists of two bytes, the first being according to Recommendation T.35 [Annex A](#). The second byte is assigned nationally, unless the first byte is 1111 1111, in which case the second byte shall contain the country code according to T.35 Annex B.~~and the~~ terminal manufacturer code consists of two bytes ~~are~~-assigned nationally.

[End Correction]

4.2 Clarifications to H.242

In Appendix III, two sections are affected by the extension of T.35 country codes.

4.2.1 Section III.2 - Subsequent capability exchange, including MBE capability message

Section III.2 is updated as follows:

[Begin Correction]

...

- {M} Information will be M-bytes
- {byte 1} Country code according to Recommendation T.35 [Annex A](#)
- {byte 2} Country code assigned nationally, unless the first byte is 1111 1111, in which case this field shall contain the country code according to T.35 Annex B
- {bytes 3, 4} Manufacturer code (Company XYZ)
- {bytes 5-M} Type identity

...

[End Correction]

4.2.2 Section III.3 Mode switch to non-standard mode using MBE command

Section III.3 is updated as follows:

...

{N} Information will be N-bytes

[Begin Correction]

{byte 1} Country code according to Recommendation T.35 [Annex A](#)

{byte 2} Country code [assigned nationally, unless the first byte is 1111 1111, in which case this field shall contain the country code according to T.35 Annex B](#)

[End Correction]

{bytes 3, 4} Manufacturer code (Company XYZ)

{bytes 5-N} Type identity

...

4.3 Clarifications to white document of H.224

The non-standard client IDs are impacted by the extension of T.35 country codes. Therefore, section 10.2 should be updated as follows:

10.2 Non-Standard Client IDs

The Standard Client IDs escape code 0x07F indicates that a five octet country, manufacturer, client code follows. Non-standard ID's are intended for use only if the manufacturer does not wish to register for a standard or extended client ID assignment.

Non-standard Client IDs shall include country and manufacturer codes exactly as Recommendation H.221.

[Begin Correction]

(octet 1) Upper Country code octet according to Recommendation T.35 [Annex A](#)

(octet 2) Lower Country code octet [assigned nationally, unless the first byte is 1111 1111, in which case this field shall contain the country code according to T.35 Annex B](#)

[End Correction]

(octets 3 and 4) Upper and Lower Manufacturer code octets (country specific)

(octet 5) Manufacturer Client ID

5. Conclusion

We recommend that:

- the changes to Recommendation H.221 and H.242, as described respectively in section 4.1 and 4.2 of this contribution, are added to the new H.320 Implementor's Guide
- the changes to Recommendation H.224 as described in section 4.3 of this contribution are added to the white document of H.224.

Both of these documents are up for approval at the end of this Study Group 16 meeting.