

International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.994.1
Amendment 4
(06/2009)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,
DIGITAL SYSTEMS AND NETWORKS

Digital sections and digital line system – Access networks

Handshake procedures for digital subscriber line
(DSL) transceivers

**Amendment 4: Appropriate carrier set when the
remote handshake transceiver unit supports
ITU-T G.992.3/5 Annex B**

Recommendation ITU-T G.994.1 (2007) –
Amendment 4



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Recommendation ITU-T G.994.1

Handshake procedures for digital subscriber line (DSL) transceivers

Amendment 4

Appropriate carrier set when the remote handshake transceiver unit supports ITU-T G.992.3/5 Annex B

Summary

Amendment 4 to Recommendation ITU-T G.994.1 contains a modification of the status of J43 carrier set when used by HSTU-R supporting G.992.3/5 Annex B.

Source

Amendment 4 to Recommendation ITU-T G.994.1 (2007) was approved on 29 June 2009 by ITU-T Study Group 15 (2009-2012) under Recommendation ITU-T A.8 procedure.

FOREWORD

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Recommendation ITU-T G.994.1

Handshake procedures for digital subscriber line (DSL) transceivers

Amendment 4

Appropriate carrier set when the remote handshake transceiver unit supports ITU-T G.992.3/5 Annex B

- 1) Modification of the status of J43 carrier set when used by HSTU-R supporting ITU-T G.992.3/5 Annex B

Modify Table 2 as follows:

Table 2 – Mandatory carrier sets

xDSL Recommendation(s)	Carrier set designation
ITU-T G.992.1 – Annex A, ITU-T G.992.2 – Annexes A/B, ITU-T G.992.3 – Annexes A/I/L, ITU-T G.992.4 – Annexes A/I, ITU-T G.992.5 – Annexes A/I ITU-T G.993.2 where support of a profile requiring US0 (Note 4)	A43
ITU-T G.992.5 – Annexes A/I (Note 1), ITU-T G.992.5 – Annexes J/M (Note 2) ITU-T G.993.2 where support of a profile requiring US0 (Notes 1, 4)	A43c
ITU-T G.992.1 – Annex B, ITU-T G.992.3 – Annex B, ITU-T G.992.5 – Annex B ITU-T G.993.2 where support of a profile requiring US0 (Note 4)	B43
ITU-T G.992.5 – Annex B (Note 3)	B43c
ITU-T G.992.1 – Annexes C/H/I, ITU-T G.992.2 – Annex C, ITU-T G.992.3 – Annex C, ITU-T G.992.5 – Annex C ITU-T G.993.2 where support of a profile requiring US0 (Note 4)	C43
ITU-T G.992.3 – Annexes J/M, ITU-T G.992.5 – Annexes J/M	J43 (Note 6)
ITU-T G.993.1 – Using multi-carrier modulation (except Annex C) ITU-T G.993.2 where support of a profile not requiring US0	V43
ITU-T G.993.1 – Annex C using multi-carrier modulation over POTS	V43P
ITU-T G.993.1 – Annex C using multi-carrier modulation over ISDN-BA	V43I
ITU-T G.993.1 – Using single-carrier modulation over POTS	V43P-S
ITU-T G.993.1 – Using single-carrier modulation over ISDN-BA	V43I-S
ITU-T G.993.1 – Using single-carrier modulation over TCM-ISDN	V43-S

Table 2 – Mandatory carrier sets

xDSL Recommendation(s)	Carrier set designation
<p>NOTE 1 – To be used where spectrum management forbids use of the downstream carrier set A43, typically where ITU-T G.992.5 or ITU-T G.993.2 is deployed from a cabinet.</p> <p>NOTE 2 – To be used where spectrum management forbids use of the downstream carrier set J43, typically where ITU-T G.992.5 is deployed from a cabinet.</p> <p>NOTE 3 – To be used where spectrum management forbids use of the downstream carrier set B43, typically where ITU-T G.992.5 is deployed from a cabinet.</p> <p>NOTE 4 – At least one of the carrier sets A43, B43, and C43 shall be transmitted, depending on the US0 band supported.</p> <p>NOTE 5 – If multimode operation is supported, the HSTU shall transmit the carrier sets corresponding to all enabled modes simultaneously.</p> <p><u>NOTE 6 – If ITU-T G.992.3 or ITU-T G.992.5 Annex B is also supported by the HSTU-R, the upstream carrier set J43 shall be optional and it should not be transmitted as it can interfere with ISDN present on the same line. In this case the carrier set B43 shall be transmitted. In previous versions of Recommendation ITU-T G.994.1, the J43 carrier set was mandatory. Therefore, HSTU-C implementing a previous version of Recommendation ITU-T G.994.1 may not respond appropriately.</u></p>	

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