



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

T.90

Amendment 3

(06/98)

SERIES T: TERMINALS FOR TELEMATIC SERVICES

Characteristics and protocols for terminals for
telematic services in ISDN

**Amendment 3: Cause value for a G4 Fax
fall-back**

ITU-T Recommendation T.90 – Amendment 3

(Previously CCITT Recommendation)

ITU-T T-SERIES RECOMMENDATIONS
TERMINALS FOR TELEMATIC SERVICES

For further details, please refer to ITU-T List of Recommendations.

ITU-T RECOMMENDATION T.90

CHARACTERISTICS AND PROTOCOLS FOR TERMINALS FOR TELEMATIC SERVICES IN ISDN

AMENDMENT 3

Cause value for a G4 Fax fall-back

Summary

Amendment 3 describes cause value for a G4 fall-back to G3-mode.

Ten values are added in a table of fall-back codes to be added in I.1 iii)/T.90 and are used for automatic fall-back G4 to G3 mode.

Source

Amendment 3 to ITU-T Recommendation T.90, was prepared by ITU-T Study Group 8 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 18th of June 1998.

FOREWORD

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The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Introduction and background

Most G4 facsimile provides fall-back function from G4-mode to G3-mode. When the call with G4-mode is disconnected with pre-defined cause values, of ISDN service, G4 facsimile tries to make the second call with G3-mode automatically. But, depending on the reason for failure and the specific interworking used by each Operator, it is possible to get different network reactions.

Consequently, different cause values can be received. So, it is needed to show the range of cause values for which G4 Fax should fall back.

This new range of cause values was proposed and it was decided to add them in Recommendation T.90 at the October 1997 meeting of Study Group 8.

**CHARACTERISTICS AND PROTOCOLS FOR TERMINALS
FOR TELEMATIC SERVICES IN ISDN**

AMENDMENT 3

Cause value for a G4 Fax fall-back

(Geneva, 1998)

Subclause I.1

Replace the existing item iii) by:

- iii) A terminal which supports both G2/G3 and G4 facsimile function should release the call:
- If interworking ISDN to PSTN has been indicated, or causes shown in Table I.1 for calls within the ISDN, when the call has been rejected, the terminal which supports both G2/G3 and G4 facsimile function may initiate a re-attempt in the G2/G3 mode. It should use the 3.1 kHz audio bearer capability and should provide the HLC information element with high layer characteristics identification “facsimile Group 2/3”.
 - If interworking ISDN, to switched 64 kbit/s non-ISDN network, has been indicated when the call has been rejected, actions according to item ii) may be appropriate.

NOTE – For evolution, further study is also required to eliminate the method which may result in unsuccessful calls caused by incompatibility.

Table I.1 – Fall-back codes

Cause Code	Meaning
3	No route to destination
18	No user responding
57	Bearer capability not authorized
58	Bearer capability not presently available
63	Service or option not available, unspecified
65	Bearer capability not implemented
70	Only restricted digital information bearer capability is available
79	Service or option not implemented, unspecified
88	Incompatible destination
127	Interworking, unspecified

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