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Information technology — Telecommunications and information exchange between systems — DTE/DCE interface back-up control operation using ITU-T Recommendation V.24 interchange circuits

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Dispositif de secours à la jonction
ETTD/ETCD réalisé à l'aide des circuits d'échange de la Recommandation
UIT-T V.24*



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Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 8480 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO 8480:1987), which has been technically revised.

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Introduction

Where data transmission is provided on a leased line, there may be a requirement to provide back-up operation, to be brought into use whenever transmission via the leased line is, for any reason, not possible.

There are several possible back-up facilities:

- back-up of a 2-wire leased line by one GSTN line;
- back-up of a 4-wire leased line by one GSTN line;
- back-up of a 4-wire leased line by two GSTN lines;
- back-up of a 2-wire/4-wire leased line by one/two lines of a private switched network;
- back-up of a 2-wire leased line by one ISDN line, using a terminal adaptor¹;
- back-up of a 4-wire leased line by one ISDN line, using a terminal adaptor¹.

NOTES

1 – This list may not be exhaustive.

2 – the terminal adaptor may be separate equipment or physically combined with the DCE.

The variety of facilities should not be visible in the protocol used at the DTE/DCE interface to exchange the interface control and status information necessary for back-up control. To achieve this, a standardised approach to the required protocol is essential. The majority of applications are, however, restricted to the first two of the listed possibilities. In consequence, this International Standard describes the protocol requirements where only one back-up facility is provided as the alternative to data transmission on the leased line. For other arrangements of facilities, although this International Standard is not directly applicable, it nevertheless should be used as a guide to the protocol requirements.

¹ Terminal Adaptor functions are described in ITU-T Recommendation (previously CCITT Recommendation) V.110, *Support of data terminal equipments with V-series type interfaces by an integrated services digital network*, and CCITT Recommendation V.120, *Support by an ISDN of data terminal equipment with V-series type interfaces with provision for statistical multiplexing*.

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