

Private branch exchanges for connection to public switched telephone networks run by certain public telecommunication operators —

Part 6: Simple call-routeing mode
(SCRM) —

Section 6.1 Specification for the simple
call-routeing mode of PBX operation,
with terminating stations treated as an
entirety

Committees responsible for this British Standard

- The preparation of this British Standard was entrusted by the Telecommunications Standards Policy Committee (TCT/-) to Technical Committee TCT/8, upon which the following bodies were represented:
- Association for Payment Clearing Services
 - Association of British Telephone Attachment Suppliers Ltd.
 - Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA)
 - British Approvals Board for Telecommunications
 - British Gas Corporation
 - British Telecommunications plc
 - Business Equipment Trade Association
 - Cable and Wireless plc
 - City of Kingston-upon-Hull Telephone Department
 - Department of Trade and Industry
 - Electricity Association
 - Electronic Engineering Association
 - Engineering Equipment and Material Users' Association
 - HM Treasury (Central Computer and Telecommunications Agency)
 - Independent Telecommunications Suppliers' Association
 - Mercury Communications Limited
 - Ministry of Defence
 - National Communications Union
 - OFTEL (Office of Telecommunications)
 - Royal National Institute for the Blind
 - Society of Telecom Executives
 - Telecommunications Managers' Association
 - Telecommunications Users' Association (TUA)
 - UK Offshore Operators' Association Ltd.

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Foreword

BS 6450 has been prepared under the direction of the Telecommunications Standards Policy Committee. It forms one of a series of British Standards that is being produced following the commencement of liberalization in October 1981 of the supply of certain telecommunications apparatus within the United Kingdom.

Attention is drawn to the foreword of BS 6450-1:1993.

This Section of BS 6450 has been presented for designation under Section 22(6) of the Telecommunications Act, 1984.

This edition introduces technical changes but it does not reflect a full review or revision of the standard, which will be undertaken in due course.

This Section of BS 6450 supersedes BS 6450-6.1:1986 which is withdrawn.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations. In particular, attention is drawn to the Telecommunications Act, 1984.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Subsection 1. General requirements

0 Introduction

0.1 The philosophy of this Section of BS 6450 is to consider a mode of PBX operation which, as far as signalling interaction is concerned when the PBX is operating in this mode, appears to the PSTN to have similar characteristics to a simple telephone when that simple telephone is directly connected to the PSTN. A PBX operating in this “simple call-routeing mode” (SCRM) is therefore not required by the requirements specified in this Section of BS 6450 to comply with all of the requirements in BS 6450-1:1993 and BS 6450-2:1993. However, it is possible for PBXs that operate solely in accordance with the definition of SCRM to comply with all the requirements of BS 6450-1:1993 and BS 6450-2:1993, and it is permissible for such SCRM PBXs to be submitted for evaluation against BS 6450-1:1993 and BS 6450-2:1993 (together with any appropriate Parts of BS 6450) instead of this Section of BS 6450.

0.2 The application of this Section of BS 6450 is not confined to a particular type or size of PBX that operates wholly in the simple call-routeing mode. According to a declaration made by the supplier (see items 3 and 4 of Table 1), nominated PSTN lines (or a group or groups of PSTN lines) and an associated nominated group or groups of terminating stations can be considered to be within the scope of the requirements relating to SCRM specified in this Section of BS 6450. For PSTN lines and terminating stations not so nominated, the requirements of BS 6450-1:1993 and other appropriate Parts of BS 6450 apply.

Where this particular declaration applies to all PSTN lines and terminating stations of a PBX, evaluation of the entire PBX to this Section of BS 6450 may be chosen by the supplier in place of BS 6450-1:1993 and BS 6450-2:1993.

0.3 The declaration described in **0.2** is augmented by a further declaration by the supplier (see item 5 of Table 1) in respect of whether the nominated PSTN lines and terminating stations can be configured to operate selectively both in SCRM and in the mode of operation specified in BS 6450-1:1993 and BS 6450-2:1993. For this combined application, the PBX is evaluated against BS 6450-1:1993, BS 6450-2:1993 and this Section of BS 6450 (together with any other appropriate Parts of BS 6450) for its respective operational modes.

NOTE to clause 0. Figure 1 is a flow chart giving the Parts/Sections of BS 6450 against which the PBX is evaluated according to the supplier's choice of PBX operating modes and configurations described in **0.1** to **0.3**.

1 Scope

BS 6450 specifies requirements for private branch exchanges that are necessary for their connection to public networks run by certain public telecommunication operators.

This Section of BS 6450 specifies requirements for the simple call-routeing mode (SCRM) of operation for a PBX connected at the user's premises to analogue interfaces of a PSTN for those terminating stations and their cabling that are treated with the PBX as an entirety.

Requirements for direct dialling in (DDI), for ports on the PBX to which private circuits or other voice or data terminating stations are connected, or for facilities, are not specified in this Section of BS 6450 but are specified in other Parts of BS 6450.

BS 6450 does not apply to private branch exchanges for connection to shared service lines or 1 + 1 carrier systems.

BS 6450 does not apply to PBXs for connection in parallel with any other apparatus whose ringer equivalence number (REN) (see **4.2.1** of BS 6305:1992) exceeds 0.3.

NOTE 1 Where reference is made in this Section of BS 6450 to a particular clause in another publication, the requirements are applicable irrespective of the scope of that publication. Any clauses not specifically invoked do not apply.

NOTE 2 Unless otherwise stated, all clause references refer to this Section of BS 6450.

NOTE 3 The titles of the publications referred to in this Section of BS 6450 are listed on the inside back cover.

NOTE 4 Compliance with this Section of BS 6450 will not necessarily ensure that the apparatus is satisfactory for the user's purposes.

2 Definitions

For the purposes of this Section of BS 6450, the definitions given in BS 6450-1:1993, BS 6450-2:1993 and those given in other British Standards referred to by BS 6450-1:1993 apply, together with the following.

2.1 loop calling, unguarded clearing signalling method

a signalling method whereby the on-line condition is employed to seize the PSTN and where no signalling interaction takes place between the PSTN and the PBX during the clearing phase of a call

NOTE Unlike other signalling methods, the use of the loop calling, unguarded clearing signalling method will increase the risk of double connections and follow-on outgoing calls.

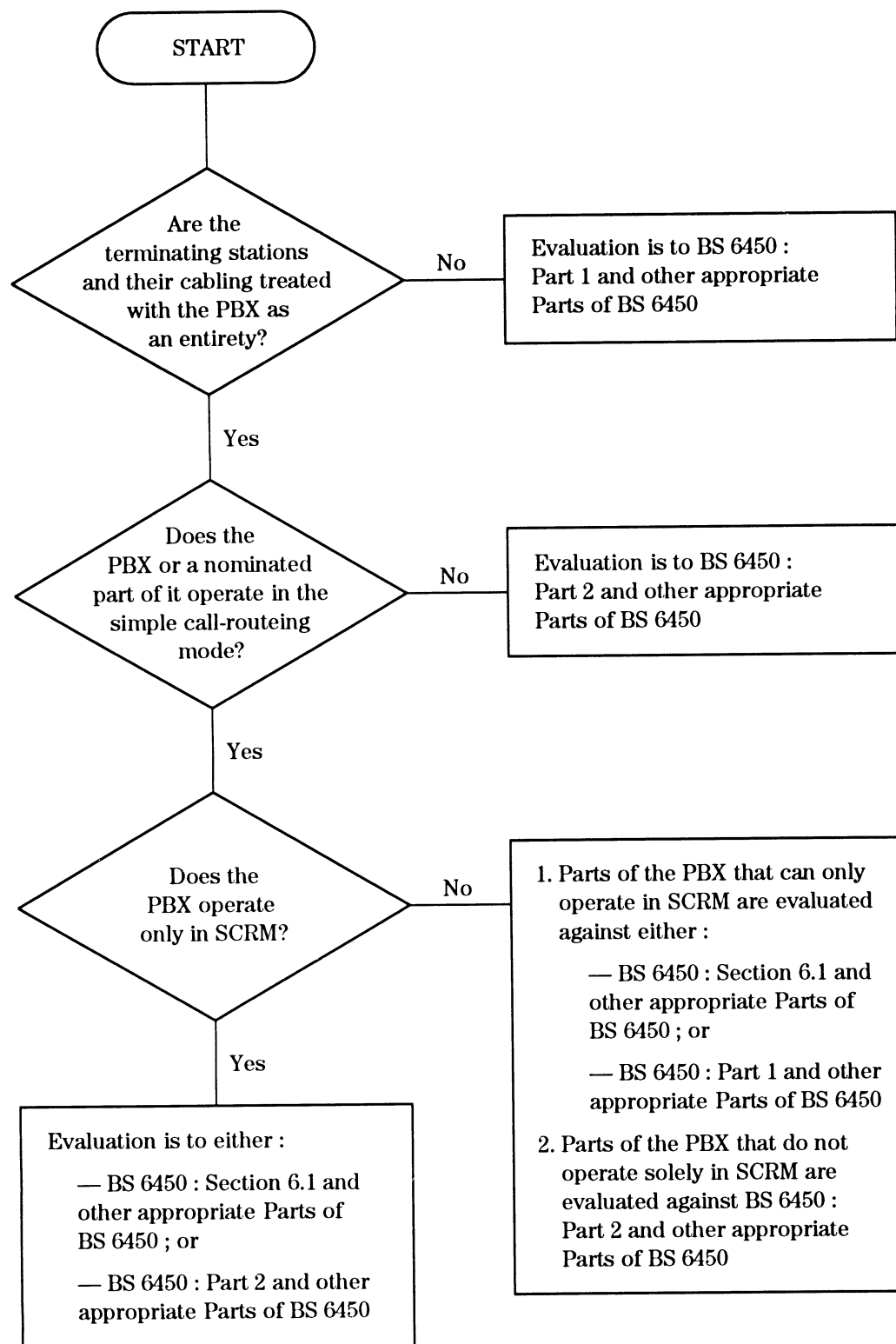


Figure 1 — Relationship of this Section of BS 6450 with BS 6450-1:1993 and BS 6450-2:1993