



**Government
of Canada**
Department of Communications

TRC-34

TELECOMMUNICATIONS REGULATION CIRCULAR

THE TERMINAL ATTACHMENT PROGRAM DESCRIPTION

APRIL 30, 1976

TELECOMMUNICATION REGULATORY SERVICE

Telcommunications Regulation Circulars are issued from time to time to provide information to those engaged in telecommunications in Canada. The content of these circulars is subject to change at any time in keeping with new developments. Further information on the contents of this circular is available from the nearest regional office of the Department or from the Telecommunications Regulatory Service at 300 Slater Street in Ottawa.

THE TERMINAL ATTACHMENT PROGRAM DESCRIPTION

1. INTRODUCTION

1.1 The Terminal Attachment Program was developed by the Federal Department of Communications with the cooperation of B.C. Telephone, Bell Canada, CN Telecommunications, CP Telecommunications, and the provinces of British Columbia, Ontario, Quebec, and Newfoundland.

1.2 This program provides for an alternative method for attaching certain authorized customer-provided network non-addressing terminal equipment to the networks of the telecommunications carriers. This new method permits the direct attachment of terminal equipment that has been certified by the Department in accordance with carrier approved network interface standards, and other requirements, and which bears a Departmentally supplied label. This contrasts with the previous procedures under which customer-provided equipment, in most cases, could be attached only through a carrier-provided coupler with its attendant installation and recurring monthly charges.

1.3 Details of the Terminal Attachment Program are provided in the Department's Certification Procedure and Certification Standard(s).

2. RELATED FEDERAL DEPARTMENT OF COMMUNICATIONS DOCUMENTS

2.1 Certification Procedure (CP-01): This document specifies the procedure to be followed to obtain certification of terminal equipment. In addition, the procedure for submitting equipment to the Departmental Laboratory in Ottawa, and the requirements for obtaining an approval as a testing laboratory are included.

2.2 Certification Standards (CS-01): This Standard contains the network protective and other technical requirements which equipment must meet and their associated tests. The Standard also specifies the requirements for approved connectors and contains the form for submitting laboratory test results.

2.3 Terminal Equipment List: This document, which is updated periodically by the Department, is a list of all certified terminal equipment. It is available to the public for a nominal fee.

3. PROGRAM HIGHLIGHTS

3.1 A certification program is being implemented by the Department in cooperation with the federally-regulated telecommunication carriers.

3.2 This program is available to all manufacturers, Canadian distributors, and Canadian suppliers of terminal equipment. Certified units are individually tagged with a distinctive DOC label to afford easy recognition. The costs for certification are borne by the applicant.

3.3 The Department will be the sole authority for granting certification of terminal equipment.

3.4 The terminal devices eligible for certification under this program are limited to those network non-addressing devices which are permitted to be customer-provided by the carriers and are listed in Appendix I.

3.5 The carriers' tariffs prescribe that such customer-provided terminal devices certified by the Department in accordance with Standards issued by the Department are accepted by these carriers for attachment without a coupler.

3.6 In taking into consideration proposals from industry for changes prior to final issue of each Certification Standard, the carriers are also consulted in affecting appropriate changes.

3.7 The implementation of the program is confined to the operating territories of the federally regulated telecommunications carriers and is initially applicable only to individual line and PBX extension services on the public switched telephone networks, private line facilities, Broadband Exchange Service network and the Multicom 2 network.

- 3.8 Uncertified (unlabelled) equipment of the types covered by the program will continue to be available for purchase after the April 30, 1976 commencement date. It is expected that this equipment will be employed principally by users continuing to use carrier-provided couplers.

- 3.9 All existing terminal equipment of the types covered by the program must be certified to qualify for direct connection to the carriers' facilities. No "grandfathering" of currently used equipment is permitted.

- 3.10 The certificate holder for each kind of certified equipment must ensure that a Canadian maintenance facility exists which can return any malfunctioning equipment to its original operating condition or declare it unrepairable.

- 4. SPECIAL CARRIER RESPONSIBILITIES

- 4.1 The carriers will continue to provide the coupler option in their tariffs for customer-provided equipment. Any new types of equipment permitted under items 16 and 17 of Appendix I will normally be required to be certified for direct connection; however, in exceptional circumstances, attachment may be permitted via a coupler.

- 4.2 After commencement of the program, newly designed terminal equipment referred to in Section 3.4, and provided by the carrier in a tariffed service offering, will meet the requirements prescribed for certification. Should a carrier enter the competitive market and provide such equipment, the equipment must be certified.

- 4.3 Carriers will give notice of planned network changes. The carrier's notice is limited to subscribers within the affected service area, and the Department. A minimum advance notice of 2 years for major changes and 6 months for minor changes will be given. The Department will subsequently notify all current certificate holders. This is to ensure that certified terminal equipment will not, without the above notice, be rendered obsolete because of changes in the carrier's network.

5. LABORATORY TESTING

- 5.1 Granting of certification is made on the basis of an engineering test report attested to by a Canadian Registered Professional Engineer (Engineer) and in accordance with the appropriate Certification Standard and Procedure.
- 5.2 Certification testing must be carried out in the Department's Laboratory or in other laboratories located in Canada and approved by the Department. These laboratories may be operated by manufacturers, distributors or suppliers of terminal equipment, or private independent organizations.
- 5.3 The requirements for the approval of these laboratories is given in Part IV of the Certification Procedure.

6. CONNECTING ARRANGEMENTS

- 6.1 The carriers' tariffs and the Department's Certification Standard prescribe the permissible method of attachment of customer-provided terminal equipment to the public telecommunications facilities.
- 6.2 The point of attachment must be in close proximity to the carrier-provided terminal on the circuit to which the certified equipment is to be attached, or at the point of attachment supplied by the carrier.
- 6.3 Inside wiring may be extended by the user if connected to the carrier's facility by a certified plug and jack arrangement.
- 6.4 Acoustically connected terminal equipment must be coupled to the handset of the carrier's basic service terminal to provide efficient service.

7. DISAGREEMENTS

- 7.1 Disputes arising from the Certification Procedures will be resolved by consultation between the Department and the applicant. Disputes relative to carrier tariffs will be resolved between the carrier and the customer, with the right of appeal as applicable, to the Canadian Radio-television and Telecommunications Commission (CRTC).
- 7.2 Details of Departmental decertification of equipment are given in Section 2.6, DECERTIFICATION, of the Certification Procedure.

8. CONTINUING PROGRAM EVALUATION

- 8.1 Certificate holders must submit an annual attestation confirming that their certified equipment continues to meet the requirements for certification.
- 8.2 The Department may from time to time conduct post-certification audits of certified equipment, at its discretion, to ensure compliance with certification requirements. Certificate holders are required to loan equipment to the Department for such testing. This equipment normally will be selected from production units by a representative of the Department.



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NETWORK NON-ADDRESSING DEVICES
CURRENTLY PERMITTED CUSTOMER OWNERSHIP BY CARRIER COMPANIES

NETWORKS

NETWORK NON-ADDRESSING DEVICES	Public Sw. Tel.		Private Line		Broadband CN/CPT	Multicom 2		Notes
	Bell	BC Tel	All Fed. Reg. Carrs.	CNT		Bell	BC Tel	
VOICE DEVICES (Certification Standard CS-01 applies.)								
1. Plugs and Jacks	X	X	X	X				1,2
2. Multi-Pin Bridging Adapter	X	X	X	X				1,2
3. Automatic Answering Devices	X	X	X	X	X			2
4. Automatic Answering & Recording Devices	X	X	X	X	X			2
5. Acoustically Coupled Devices	X	X	X	X	X			2
6. Tape Recorders	X	X	X	X	X			2
7. Dictation Units (2 wire)	X	X	X	X	X			2
VOICE & DATA DEVICES (Certification Standards CS-01 or CS-02 apply.)								
8. Non-Addressing Alarm Devices	X	X	X	X	X			3
9. Graphic Communications Equipment	X	X	X	X	X	X	X	3
10. Facsimile	X	X	X	X	X	X	X	3
11. Electro-Cardiogram	X	X	X	X	X	X	X	3
12. Modems	X	X	X	X	X	X	X	3
13. Dictation Units (complex)	X	X	X	X	X	X	X	3
14. Scramblers (voice & data)	X	X	X	X	X	X	X	3
15. Traffic Measuring Equipment	X	X	X	X	X	X	X	3
16. All other non-addressing individual line equipment	X	X	X	X	X	X	X	3
17. All other non-addressing multi-line equipment					X	X	X	3

NOTES:

1. Prior to the effective date of new or amended tariffs (November 21, 1975), customer-provided plugs, jacks, and multi-pin bridging adapters were not permitted to be attached, but are essential to the implementation of the program.
2. Items 1 to 7 inclusive are included in the initial phase of implementation. A prerequisite of the program is that permissive carrier tariffs must be filed prior to the Department accepting equipment for certification. As additional items are added the relevant standards may be modified or amended as required.
3. All other items will be phased-in as determined by the Department's administrative capacity. The Department will identify the necessity for additional work to the carriers, who in turn will file the necessary tariffs. The public will be advised by the Department.