

**[NTC MEMORANDUM CIRCULAR NO. 10-11-90,
September 28, 1990]**

**CUSTOMER PREMISES EQUIPMENT INTERFACE PARAMETERS
AND TYPE APPROVAL PROCEDURES**

Preamble

Pursuant to the powers vested upon this Commission and in line with Memorandum Circular No. 1-04-88, otherwise known as the Rules and Regulations Governing Equipment Provided by Customers/Subscribers of Public Networks, the following network interface parameters and type approval procedures are hereby promulgated:

I

General Provisions

a. Type approval is a process by which CPEs are evaluated for compatibility with the public telecommunications network to ensure that a CPE when connection will not result in harm and will assure adequate safety for:

1. the user, from any harm caused by the equipment and networks, regarding his life, his health and his property;
2. all employees of the network operators; and
3. the networks, from malfunction and damage.

b. A CPE to be connected to a public telecommunications network shall be duly type approved and shall be covered by a certificate of equipment type approval to be issued by the National Telecommunications Commission.

c. Type approval shall be required in the following cases:

- new types/classes, models of CPE intended to be connected to a public telecommunications network;
- modification or alteration of a previously type approved CPE or grandfathered CPE circuitry and/or its associated network interface; and
- changes in trade name or model number of previously type approved CPE.

d. In accordance with Memorandum Circular 1-04-88, Customer Premises Equipment which may be allowed interconnection to a public telecommunications

network, subject to type approval and the application of authorized rates and tariff charges, are as follows:

1. Private Branch Exchange (PBXs)
2. Key Telephone Systems (KTS)
3. Multi-Function systems such as Hybrid KTS/PBX systems
4. Wireless Telephone Sets
5. Special purpose terminal equipment designed to operate in conjunction with central office facilities to receive and transmit data from a subscriber's location or to operate in a manner that serves public interest. This includes but is not limited to:
 - Alarm dialing and signaling equipment for industrial, security, fire, instruction and equipment failure applications.
 - Traffic recorder or device for measuring the amount of traffic carried by a group or several groups of switches, lines or trunks and may have the capability of periodically printing a record of that traffic.
 - Variation Monitors or devices for sensing deviations in electrical characteristics of a line and capable of providing an alarm or initiating other actions when program of the electrical characteristics are exceeded.
 - Multiplexer or device that allows transmission of a number of different signals simultaneously over a single telecommunications channel. Concentrators are including in this hearing.
6. Telephone set if intended as replacement of network operator-provided telephone on single line service.
7. Automatic dialer or a separate device that dials a call automatically over the public network. The device may include the capability to include dial attempts after encountering a busy signal.
8. Automatic Answering Machine or device connected to a telephone line which operates in such a manner that when the user is absent, the device answers calls and gives a recorded message and may or may not provide for recording of a short message from the caller.
9. Calls distributor or a device which distributes incoming calls to different operating positions to spread traffic load and increase efficiency.
10. Data Modem or device that converts the signals of a business machine to signals that are suitable for transmission over telecommunication circuit and vice versa. Also known as a data set.

11. Data terminal equipment (DTE) is equipment consisting of digital and instruments that converts user information into data signals for transmission, or reconverts the received signals into user information. The DTE may consist of a single piece of equipment which provides all required functions necessary or it may be an interconnected subsystem or multiple pieces of equipment which together perform all the required functions.
12. Facsimile equipment or device employed at the transmit-end to convert a hard copy to electrical signals suitable for delivery to the public network and at the receive-end to convert picture signals to hard copy.
13. Teleprinter or device having a signal actuated mechanism for automatically printing received message. The device may also include a keyboard for manually sending line signals, paper tape transmitter and paper tape punch/reader or the electronic equivalent of these. (Intended for connection to a telex network).
14. Wireless Paging Equipment or system using selective radio signal to summon a person, exact whereabouts unknown, to the nearest telephone or to deliver a message to the person carrying the paging unit. Such equipment falls under MC 1-04-88 if it has met the relevant frequency licensing requirements.

II Scope/Limitation

The type-approval of CPEs shall be confined to the interface parameters (physical and electrical characteristics) defined in Section III.

III Interface Parameters for CPE'S

Customer premises equipment intended for connection with the public network shall in general conform to the Network General Requirements.

IV Standard Test Procedure for CPE's

Type-approval testing for CPEs shall be done in accordance with the procedures.

V Means of Connection of CPE Terminal to Public Networks

All connections to the public telephone network shall be made through the standard USOC RJ11C jacks and plugs. Standard jacks shall be so arranged that, if the plug connected thereto is withdrawn, there shall be no interference caused to the operation of any equipment at the customer's premises which remains connected to the telephone network, shall occur by reason of such withdrawal.

VI Administrative Procedures for Type Approval