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CONNECTED TO THE PUBLIC SWITCHED TELEPHONE NETWORK**

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## FOREWORD

The South African **Telecommunications Regulatory Authority** issue the technical and functional specifications for **Telecommunication-Line Terminal Equipment (TLTE)**.

The following specifications are available for TLTE:

Specification	Description
TE-001	Standard Specification for Telephone Attachments for Connection to the Public Switched Telephone Network
TE-002	Functional Requirements for Telephone Answering Machines and Recording Equipment
TE-003	Functional Requirements for Repertory Dialling Equipment
TE-004	Functional Requirements for Remote Supervisory Equipment
TE-005	Functional Requirements for Loudspeaking Equipment
TE-006	Functional Requirements for Facsimile Transceivers
<b>TE-007</b>	<b>Functional Requirements for Automatic Call Diverting Equipment</b>
TE-008	Functional Requirements for Equipment for use in Industrial Environments
TE-009	Functional Requirements for Attachments connected to Leased-Line Circuits
TE-010	Functional Requirements for Calling Line Identification (CLI) Customer Premises Equipment (CPE)
TE-011	Reserved
TE-012	Functional Requirements for Second Generation Low-Power Digital Cordless Telephones (CT2); 864,100-868,100 MHz
TE-013	Functional Requirements for Low-Power Cordless Telephones; 46-49 MHz
TE-014	Functional Requirements for Automatic Fee Recording Equipment
TE-015	Functional Requirements for Call Restriction Devices
TE-016	Reserved
TE-017	Reserved
TE-018	Functional Requirements for Data Modems
TE-019	Reserved

Specification TE-007: Requirements For Automatic Call Diverting Equipment states the requirements directly related to Call Diverter equipment intended for connection to the South African Public Switched Telephone Network.

In addition to these requirements the equipment shall meet all relevant aspects of Specification TE-001.

LIST OF AMENDMENTS

No.	Date	Paragraph
1		
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**SPECIFICATION TE-007****FUNCTIONAL REQUIREMENTS FOR CALL DIVERTERS  
CONNECTED TO THE PUBLIC SWITCHED TELEPHONE NETWORK****1. DEFINITION OF TERMS****1.1 Equipment.**

The equipment which, when enabled, will automatically re-direct incoming calls on one line, to a pre-determined telephone number by dialling this number on an outgoing line.

**1.2 Incoming Call.**

The call which, when received by the equipment, will cause the diversion process to be initiated.

**1.3 Outgoing Line.**

The line on which the nominated number will be dialled by the equipment.

**1.4 Calling Party.**

The originator of the incoming call.

**1.5 Pre-determined Telephone Number.**

The telephone number which the equipment is programmed to dial when it receives an incoming call.

**1.6 Called Party.**

The person receiving the diverted call.

**1.7 Associated Telephone.**

The standard telephone, which shall be connected to the incoming telephone line when the call diverter is in the idle state.

**2. PRINCIPLE OF OPERATION****2.1 Manners of diversions**

The equipment is connected to two telephone lines at the client's premises and is programmed by the client with the nominated number. Call diversion may be accomplished in one of the following manners:

- 2.1.1** In the ready state, the equipment monitors the incoming telephone line and on detecting ringing current for at least one ringing cycle, seizes the outgoing line and automatically dials the nominated number. The outgoing line is then monitored for standard supervisory tones. Answer condition is indicated by the cessation of ringing tone or the detection of speech signals on the line. On detecting the answer condition, the equipment answers the incoming line and connects the calling and called parties.

- 2.1.2** In the ready state, the equipment monitors the incoming telephone line and on detecting ringing current for at least one ringing cycle, answers the incoming line and plays back a recorded voice announcement informing the calling party that the call is being diverted. With the start of the announcement the outgoing line is automatically seized and the nominated number dialled. The equipment then connects the calling party to the called line immediately after dialling is completed.

### **3. FUNCTIONAL REQUIREMENTS**

#### **3.1 Call indication**

The equipment shall provide visual indication when a call is in progress (Either being answered or diverted).

#### **3.2 Automatic gain control**

The equipment shall provide AGC in both directions of transmission in order to maintain a transmit level of between 0 dBm and -10 dBm with input levels between 0 dBm and -25 dBm into 900  $\Omega$ . The maximum gain shall be limited to 22 dB.

#### **3.3 Termination**

The equipment shall be stable and not oscillate when either one or both lines are terminated with an open circuit, a 10  $\mu$ F capacitor, or a 900  $\Omega$  resistor.

#### **3.4 Termination of transfer function**

If ringing on the incoming line ceases, due to the call being answered or the calling party terminating the call, the equipment shall terminate the transfer function and release the outgoing line.

#### **3.5 Diversion attempts**

The equipment may be programmed to attempt a series of diversions to either a single nominated number or up to 6 nominated numbers in sequence until a successful diversion has been accomplished.

#### **3.6 Number of dialling attempts**

The number of dialling attempts shall be limited to three, in the case of one nominated number and one per nominated number in the case of more than one number.

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