



EDC6 (3332) DTZS
IEC 62949:2017

DRAFT TANZANIA STANDARD

(Draft for comments only)

Particular safety requirements for equipment to be connected to information and communication technology networks

TANZANIA BUREAU OF STANDARDS

1 National Foreword

This draft Tanzania Standard is being prepared by the Telecommunications and Information Technology Technical Committee, under the supervision of the Electrotechnical divisional standards committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 62949:2017** Particular safety requirements for equipment to be connected to information and communication technology networks, Which has been prepared by the International Electrotechnical Commission

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

INTRODUCTION

This document is applicable for products intended to be connected as **communication terminal** to an **ICT network** not covered by the scope of IEC 62368 -1. It is to be used in conjunction with other product safety standards, examples of which are listed in Annex A.

This document, in accordance with the 'principles of safety' given in the introduction of IEC 62368-1, covers the requirements and compliance criteria under three headings.

- Protection of equipment users from hazards in the equipment. The users are considered to be protected from hazards in the equipment if the equipment complies with a relevant safety standard, for example one of those listed in Annex A, but compliance with those standards is not part of this document.

NOTE An equipment user could be an **ordinary person** or an **instructed person**.

- Protection of **skilled persons** or **instructed persons** working on an **ICT network** and other users of an **ICT network**, from hazardous conditions on an **ICT network** resulting from the connection of the equipment.
- Protection of equipment users from voltages on an **ICT network**.

Upper limits for **ICT networks** signals have been defined. They include also telephone ringing signals which have been defined taking into account voltages commonly used in the different networks. The electrical hazard criteria have been chosen to be in accordance with IEC TS 60479 (all parts).

Test levels used for the equipment take account of the possibility that overvoltages may occur on **ICT networks**. Special consideration has been given to equipment parts expected to be held or touched during normal use, e.g. telephone handsets.

It is recognised that in high overvoltages risk areas, requirements of this document may not be sufficient. Additional protective devices, not covered by this document, may be installed in the **ICT networks** to better meet extreme conditions.

A comparison of terms introduced in this document with existing IEC standards is given in Annex C.

PARTICULAR SAFETY REQUIREMENTS FOR EQUIPMENT TO BE CONNECTED TO INFORMATION AND COMMUNICATION NETWORKS

1 Scope

This document applies to the interface of equipment designed and intended to be connected as a **communication terminal** to an **information and communication technology (ICT) network** termination.

This document does not apply to:

- equipment covered by IEC 62368-1; and
- interfaces to other networks.

NOTE 1 An example of 'other networks' is a dedicated Home and Building Electronic Systems/Building Automation and Control Systems HBES/BACS network covered by EN 50491-3.

This document specifies the safety requirements of the interface to the **ICT network** only.

NOTE 2 See Annex D.

Requirements additional to those specified in this document may be necessary for

- equipment intended for operation while exposed, for example, to extremes of temperature, to excessive dust, moisture, or vibration, to flammable gases, to corrosive or explosive atmospheres,
- electro medical applications with physical connections to the patient.

The following requirements are not covered by this document:

- functional safety of equipment;
- functional reliability of equipment;
- communication facilities with remote supply using hazardous voltage;
- protection of equipment connected to **ICT networks** from functional damage.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE Lists of other related documents can be found in Annex A and in the Bibliography.

IEC 62368-1:2014, *Audio/video, information and communication technology equipment – Part 1: Safety requirements*