# TANZANIA COMMUNICATIONS REGULATORY AUTHORITY

## NATIONAL NUMBERING AND SIGNALING POINT CODES PLAN

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Version 1.16

# National Numbering and Signaling Point Codes Plan

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# 1. INTRODUCTION

Tanzania Communications Regulatory Authority (TCRA) has the overall responsibility to manage all electronic communication numbers and addresses in United Republic of Tanzania. This mandate comes under Section 79 of the Electronic and Postal Communications Act, revised edition 2022 and Section 4(1) to 6 of the Electronic and Postal Communications (Electronic Communication Numbering and Addressing) Regulations, 2018 and it's amended of 2020.

The management of electronic communication numbers and addresses includes-

a) Planning, allocation, assignment, reservation and withdrawal of electronic communications numbering and addressing resources; and

b) Monitoring utilization of the administered resources to ensure compliance.

This document provides a national numbering and network identifiers scheme that has taken into account technological changes and market demand for the provision of new applications and services. The plan conforms to ITU-T E.164 Recommendations for International Public Telecommunication Numbering Plan. The plan is also in line with ITU-T E.169 (Universal Free phone, premium rate and shared cost services), ITU-T E.212 (IMSI codes), ITU-T Q.708 (Signalling area network codes) and ITU-T X.121 (Public data networks), and other appropriate ITU-T Recommendations.

This document consists of the following main sections:

1. National Numbering Scheme, Allocation and Assignments

This section provides the structure of telephone numbers, categorization of electronic communication numbers by Telecommunication services, free-of-charge numbers for Public Communications, allocation and assignments of numbering resources used in the United Republic of Tanzania. The plan provides available numbering formats for different services including:-

**1.1** Access services codes for the national, regional and international levels.

**1.2** Free of charge numbers for Public Communication services in which consumers do not incur any cost, as described in the categories below;

**1.2.1** Customer assistance services: These are service numbers made available for use for public services and free telecommunication services provided by Mobile

Network Operators (MNOs), including services but not limited to include customer care service for MNOs and SIM card registration checks.

**1.2.2** Emergency services: These are numbers made available and assigned to specific emergency service providers for the provision of human life and safety services.

**1.3** Other Assignments: This section provides details of numbers planned for Value Added Services codes (i.e. SMS & USSD), Utility Services, Voice Mail and Local special access codes.

2. Network Identification codes scheme, Allocation and Assignment

This section provides structure, formats, allocation and assignment of the following groups of electronic identifiers and addresses: -

2.1 Signalling point codes (SPCs): For addressing signalling points in signalling networks based on ITU-T Signalling System No. 7 (SS7). SPCs are valid only within a Signalling network and conform to ITU-T Recommendation Q.704 for national signalling points and ITU-T Recommendation Q.708 for the international Signalling Network.

2.2 Other Identifiers for Public Cellular Network

These are network identifiers administered by the ITU-T and assigned to Tanzania. The code includes Mobile Country Code for identification of Public Cellular Networks in the Country, Issuer Identification Numbers (SIM header) used to distinguish SIM cards issued by MNOs within Tanzania and Data Network identification codes (DNIC) for providing identification of a country as well as specific public data networks in Tanzania.

## 2. DEFINITIONS

In this document, unless the context otherwise stated, the following definitions apply;

**Access code:** means a non-geographic prefix numbers used as the service identification number for acquiring, receiving, using, or transmitting a telecommunication service.

**Allocation:** The process of opening a numbering or addressing resource in a plan for its use by a telecommunication service under specified conditions.

**Assignment:** Means authorization given to an applicant for the right to use number or addressing resources under specified conditions.

**Country Code (CC):** Country codes are used to identify a specific country, countries in an integrated numbering plan, a specific geographic area, a group of countries, a Network or global services.

**Country Code (CC) for Networks:** A shared 3-digit Country Code used in combination with an identification code to identify an international Network.

**Identification Code (IC):** The code after a shared E.164 Country Code that uniquely identifies an international Network.

**International Prefix:** A digit or combination of digits to be dialed by a calling subscriber making a call to a subscriber in another country to obtain access to the automatic outgoing international equipment (000 for Tanzania).

**Identifier:** A series of digits, characters and symbols used to uniquely identify a subscriber, a user, a network element, a function, a network entity, a service, or an application. Identifiers can be used for registration or authorization. They can be either public to all networks or private to a specific network (private IDs are normally not disclosed to third parties)

**International Signaling Point Code (ISPC)**: This is a Signaling point code with a unique 14-bit format used at the international level for signaling message routing and identification of Signaling points involved.

**International Mobile Subscription Identity (IMSI):** Is a string of decimal digits, up to a maximum length of 15 digits, which identifies a unique subscription. The IMSI consists of three fields: the mobile country code (MCC), the mobile network code (MNC), and the mobile subscription identification number (MSIN)

**Mobile Country Code (MCC):** The MCC is the first field of the IMSI, is three digits in length and identifies a country.

**Mobile Network code (MNC):** The MNC is the second field of the IMSI, is two or three digits in length and is administered by the respective national NPA

**National Destination Code (NDC):** A nationally optional code field within the E.164 number plan, which combined with the subscriber's number (SN), will constitute the

national (significant) number of the international public telecommunication number for geographic areas. The NDC will have a network and/or trunk code selection function.

**National (Significant) Number (N(S) N):** The number to be dialed following the national (trunk) prefix to obtain a subscriber in the same country (or group of countries included in one integrated numbering plan) but outside the same local network or numbering area.

**National Signaling Point Code (NSPC):** This is a code with a unique 14-bit format used at the national level for signaling message routing and identification of Signaling points involved.

**National (trunk) Prefix:** A digit or combination of digits to be dialed by a calling subscriber, making a call to a subscriber in his own country but outside his numbering area. It provides access to the automatic outgoing trunk equipment.

**Network:** Internationally interconnected physical nodes and operational systems operated and maintained by one or more Recognized Operating Agencies (ROAs) to provide public telecommunication services. Private networks are not included in this section. **Note:** The use of capital 'N' in the word 'Networks' indicates that this definition applies

**Number:** A string of decimal digits that uniquely indicates the public network termination point.

**Numbering plan**: A plan that specifies the format and structure of the numbers used within telecommunication networks.

**Prefix:** A prefix is an indicator consisting of one or more digits that allows the selection of different types of number formats (e.g., local, national, or international), transit networks and/or the service. Prefixes are not part of the number and are not signaled over the inter-network or international boundaries.

**Signaling Point:** This is a node in a Signaling network that originates and receives Signaling messages and transfers Signaling messages from one Signaling link to another, or both.

**Signaling System No. 7 (SS7)** is a stack of signaling protocols, which was initially developed by the International Telecommunication Union Consultative Committee for International Telephony and Telegraphy (ITU CCITT) in the mid-1980s. The set of telephony signaling protocols that are used to set up the public switched telephone network (PSTN) telephone calls. SS7 primarily sets up and tears down telephone calls, but other uses include number translation, prepaid billing mechanisms, local number portability, short message service (SMS), and a variety of mass-market services.

**Subscriber Number (SN):** The number identifying a subscriber in a network or numbering area.

**Telephone number:** The number, derived from the E.164 numbering plan, used by the calling party to establish a call to an end user or a service.

**Trial Service:** Temporary services offered by an innovator, researcher or start-up company conducting the trial or viability of potential new ICT innovation(s), research and studies.

**Trunk Code (TC):** A digit or combination of digits, not including the national (trunk) prefix, identifying the numbering area within a country (or group of countries included in one integrated numbering plan or specific geographic area).

**Value Added Services (VAS):** A service that is offered in addition to or in conjunction with basic telecommunication services such as voice call, short message service (SMS), multimedia messaging service (MMS) and data access.

## 3. PURPOSE, SCOPE AND APPLICABILITY

The purpose of this National Numbering and Signaling Point Codes Plan is to establish a comprehensive, standardized, and efficient framework for the management of all electronic communication numbers and addressing resources in the United Republic of Tanzania, as mandated by Section 79 of the Electronic and Postal Communications Act (Revised Edition 2022) and its subsequent regulations.

This Plan is designed to ensure the orderly planning, allocation, assignment, reservation, and withdrawal of numbering and addressing resources; to monitor utilization for compliance; and to guarantee that Tanzania's national telecommunications system operates in conformity with key International Telecommunication Union (ITU) Recommendations, including ITU-T E.164 for the international public telecommunication numbering plan, ITU-T E.212 for IMSI codes, ITU-T Q.708 for signaling area/network codes, and others.

The scope of this Plan is comprehensive, encompassing the entire national numbering scheme for all telecommunication services, including geographic and non-geographic numbers for fixed and mobile services, Machine-to-Machine (M2M) communications, special service numbers (toll-free, premium rate, shared cost), value-added service

short codes, and both International and National Signaling Point Codes (SPCs) used for routing in SS7 signaling networks.

This Plan is applicable to all entities operating within the Tanzanian communications sector. It binds all electronic communications carriers, operators, service providers, and licensees who require numbering or addressing resources for the provision of their services. All such entities are obligated to adhere to the structure, formats, and assignment criteria defined in this Plan as a condition of their license, and are subject to the applicable registration and annual fees as stipulated by the Authority

## 4. THE NATIONAL NUMBERING SCHEME

### 4.1 Structure of electronic communication numbers.

The National Numbering Plan is purely numeric. The plan comprises numbers for different communication services including PSTN, M2M communication, Mobile Network Destination Numbers, Corporate Services, Premium Rate Services Numbers, and Special & Fixed Rate Services which have a total length of 9 digits (i.e. excluding country code), except for M2M, which has 12 digits.

The structure of electronic communication numbers for the United Republic of Tanzania (URT) follows the ITU-T Recommendation E.164.

### 4.2 Categorization of Numbers by Telecommunication Services.

**Table 1** highlights access codes for different telecommunications services in URT.

**0T** is the format used for access codes for the provision of different telecommunication services, where T stands for the application of the given access code.

*Table 1: Access Codes for Different Services*

| 0T | Telecommunication Services |
|---|---|
| 00 | Regional prefix |
| 01 | Reserved for carrier selection use |
| 02 | PSTN services |
| 03 | Machine-to-Machine Communications Services |
| 04 | Corporate Services (e.g., VoIP) |
| 05 | The “Find me anywhere” Services |
| 06 | The “Find me anywhere” Services |

| 0T | Telecommunication Services |
|---|---|
| 07 | The “Find me anywhere” Services |
| 08 | The special service number range |
| 09 | Premium rate and multimedia service |

### 4.2.1 Regional and International dialing prefix

**International Prefix: 000 + CC + NDC + SN**

Where **CC** stands for Country Code for Network
**NDC** stand for National Destination Code
**SN** stands for Subscriber Number

**East African Countries Calling Format: 00T+NDC+SN**

The East African Countries made arrangements on the calling format in the region as in **Table 2**. The aim is to provide consumers in the region with the ability to call each other without using normal country code international dialling format.

**Where T is** a digit assigned to an East African country
**NDC** stand for National Destination Code
**SN** stands for Subscriber Number

*Table 2: East African countries calling format (Access codes)*

| To | Calling Format |
|---|---|
| Kenya | 005 + NDC + SN |
| Uganda | 006 + NDC + SN |
| Rwanda | 004 + NDC + SN |
| Burundi | 003 + NDC + SN |
| Tanzania | 007 + NDC + SN |

### 4.2.2 Public Switched Telephone Network Services (PSTN)

This refers to a traditional circuit-switched telephone network, operated by telecommunication service providers to provide fixed communication services.

The numbering format for PSTN services is 02**A Y XXXXXX.**

Where: NDC for geographical areas has seven (7) codes in line with the international trend for fewer and bigger local dialling areas.

**02** is the access code,
**A** is part of the NDC code representing the dialing Area code,
**Y** is part of the subscriber number representing the Operator offering the service and
**X** represents the subscriber number, where the subscriber (SN) is seven digits in length.

*Table 3: Geographic dialling area codes*

| **02A** | **The geographic dialing area allocated** |
|---|---|
| 020 | Reserved for future use |
| 021 | Reserved for future use |
| 022 | Dar es Salaam Region |
| 023 | Coast, Lindi, Morogoro, Mtwara Regions |
| 024 | Zanzibar (including Pemba and Unguja) |
| 025 | Katavi, Mbeya, Rukwa, Ruvuma and Songwe Regions |
| 026 | Dodoma, Iringa, Njombe, Singida and Tabora Regions |
| 027 | Arusha, Kilimanjaro, Manyara and Tanga Regions |
| 028 | Geita, Kagera, Kigoma, Mara, Mwanza, Shinyanga and Simiyu Regions |
| 029 | Reserved for future use |

The geographical dialing area code in **Table 3** is represented in Figure 1.

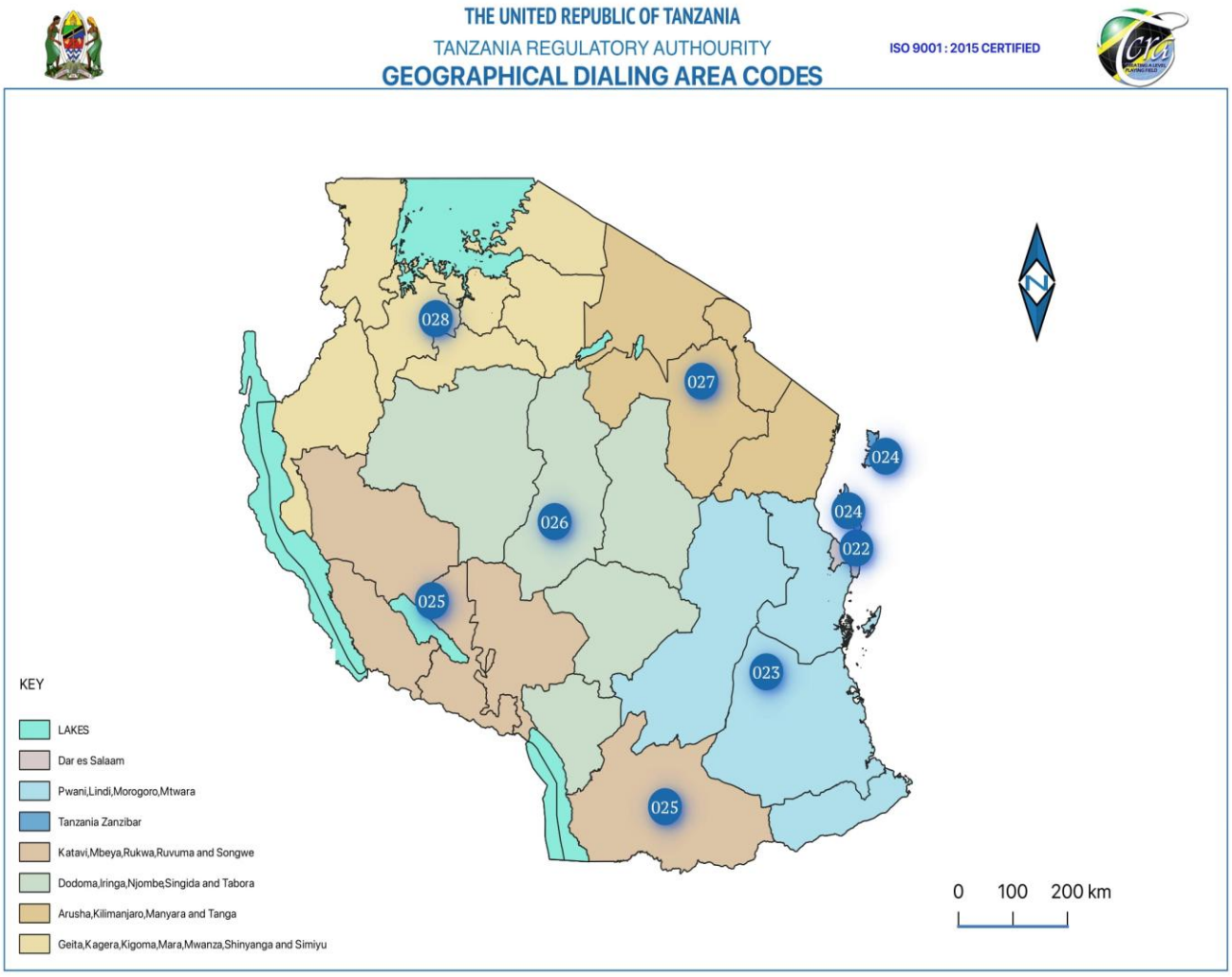


*Figure 1: Tanzania Geographic Dialing Area Codes*

### 4.2.3 Machine to Machine (M2M) Communications numbers

M2M communications services are services where devices can transfer data to other devices over a network without much human intervention. Machine to Machine Communications Services (M2M) are numbers planned for services that require the use of Mobile Station International Subscriber Directory Number (MSISDN) at minimum or no human intervention.

M2M/IoT services considered under this category include but are not limited to automotive & transport such as car tracking, utilities such as smart metering and grids, healthcare (e-health, m-health, telemedicine and assisted living), smart agriculture, smart buildings (structural health, access control and security, lighting, water, lifts, fire and smoke alarms, power and cooling systems), smart manufacturing, Security & surveillance, Environmental monitoring homes, and all other services of same nature.

The Subscriber Identity Module (SIM) used in M2M communications can be physical or an electronic Subscriber Identity Module (e-SIM). Usage of physical SIM and e-SIM is subject to the Electronic and Postal Communications (SIM Card Registration) Regulations, 2020 and its amendments.

M2M numbers are assigned on a 15-digit numbering range to ensure availability to meet future needs. The format of M2M numbers is **+255300YY XXXXXXX**

**Where** YY are two digits identifying an Operator
XXXXXXX is a seven-digit number identifying the subscriber number

*Table 4: Numbering Plan for M2M communications*

| NDC | M2M Number | Type of Service |
|---|---|---|
| 300 **YY** | +255 300 YY XXXXXXX | M2M Communications Services |

### 4.2.4 Corporate Services

The numbers for corporate services are set out for a provisional of defined corporate services offered over the Internet such as Voice over Internet Protocol. The numbering format for this category is **04B YY *XXXXX***

**Where** the **B** digit identifies the type of corporate service
**YY** digits identify the Operator
**XXXXX** digits identifying subscriber number

*Table 5: Corporate Services*

| S/N | Number Range/Code | Service Type |
|---|---|---|
| 1. | 040 YY XXXXX | SPARE |
| 2. | 041 YY XXXXX | Voice over IP (VoIP) |
| 3. | (042-049) YY XXXXX | SPARE |

### 4.2.5 Mobile Network Destination Codes

The Mobile Network Destination Codes (MNDC) classified as “find me anywhere service,” are used for accessing mobile communications services. The numbers are non-geographical. The numbering format MNDC is: **05YAXXXXXX**, **06YA XXXXXX** and **07YA XXXXXX**

Where **A** can take any digit except 0 and 1 which can be used upon the approval from the Authority.
**Y** is a single digit that identifies the operator network
**XXXXXX** 6 digits for subscriber Number

*Table 6: Number ranges for 'find me anywhere' Access Codes*

| 06A/07A Ranges | Type of Service |
|---|---|
| 061AXXXXXX to 069AXXXXXX | Assigned to mobile operators |
| 070AXXXXXX to 079AXXXXXX | Assigned to mobile operators |
| 050AXXXXXX, 052AXXXXXX to 055AXXXXXX, 057AXXXXXX to 059AXXXXXX and 060AXXXXXX. | Reserved for future use |

### 4.2.6 Special and Fixed Rate Services

These include free phone (National and Global use), shared cost services, and national and special rate services. The numbering format for this category is:
**08BB YY XXXX**

Where **BB** Identifies the type of service
**YY** Identifies the operator network
**XXXX** Four digits for subscriber Number

*Table 7: Fixed & special rate services numbering assignments*

| S/N | 08XX NUMBER RANGE | Definitions |
|---|---|---|
| 1. | 0800 YY XXXX | National Free phone (Local Toll-Free) |
| 2 | 0800 00 XXXX | National Free Phone for individual Organizations (Toll-Free) |
| 3. | 0808 YY XXXX | International Rate Services (Special Service). |
| 4. | 0840 YY XXXX | Shared Cost Services (Special Services Local Rate). |
| 5. | 0860 YY XXXX | National Rate Services (Special Services Toll Rate). |
| 6. | 0861 YY XXXX | Special Rate Services (Special Services Fixed Rates). |

### 4.2.7 Premium Rate Services Numbering

The numbers are used for diverse services such as Information, chat, entertainment services, mobile games, TV voting and competitions. The numbering format for this category is: **090B YY XXXX**

Where **B** Identifies the type of service
**YY** Identifies the operator network
**XXXX** Four digits for subscriber Number

*Table 8: Premium Rate Services Numbering*

| S/N | 090X NUMBER RANGE | Definitions |
|---|---|---|
| 1. | 0900 YY XXXX | Information Services (Premium Services) |
| 2. | 0901 YY XXXX | Entertainments Services (Multi-media Services) |
| 3. | 0902 YY XXXX | Competitions/Tele-voting |
| 4. | 0903 YY XXXX - 0909 YY XXXX | Spare |

*Table 9: List of Numbering Resources blocks Assignment for telecoms services*

| S/N | APPLICATION | OPERATOR | ASSIGNED CODE | TYPE OF SERVICE | STATUS |
|---|---|---|---|---|---|
| 1. | **PSTN** | Tanzania Telecommunications Corporation | 02A 2 XXXXXX | PSTN | Operational |
| | | Honora Tanzania PLC | 02A 5 XXXXXX | PSTN | Operational |
| | | | | | |
| 2. | **M2M numbers** | Honora Tanzania PLC | 030000XXXXXXX | Machine to Machine | Operational |
| | | Airtel Tanzania PLC | 030001XXXXXXX | Machine to Machine | Operational |
| | | Viettel Tanzania PLC | 030002XXXXXXX | Machine to Machine | Operational |
| | | Vodacom Tanzania PLC | 030003XXXXXXX | Machine to Machine | Operational |
| | | Tanzania Telecommunications Corporation | 030005XXXXXXX | Machine to Machine | Operational |
| | | | | | |
| 3. | **Corporate Services numbers** | Tanzania Telecommunications Corporation | 041 19 *XXXXX* | Voice over IP (VoIP) | Operational |
| | | WIA Company Limited | 056 01 *XXXXX* | Public Data Networks | Operational |
| | | Tanzania Railways Corporation | 05100XXXXX | Private Data Networks | Operational |
| **S/N** | **APPLICATION** | **OPERATOR** | **ASSIGNED CODE** | **TYPE OF SERVICE** | **STATUS** |

| | | | | | |
|---|---|---|---|---|---|
| 4. | **The 'find me anywhere" Access Codes** | Viettel Tanzania PLC | *061 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *062 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *063 Y XXXXXX* | Mobile Communications Services | Operational |
| | | Honora Tanzania PLC | *065 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *067 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *070 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *071 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | 077 Y XXXXXX | Mobile Communications Services | Operational |
| | | Airtel Tanzania PLC | *066 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *068 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *069 Y XXXXXX* | Mobile Communications Services | Operational |
| | | | *078 Y XXXXXX* | Mobile Communications Services | Operational |
| | | Vodacom Tanzania PLC | 072 Y XXXXXX | Mobile Communications Services | Operational |
| | | | 074 Y XXXXXX | Mobile Communications Services | Operational |
| | | | 075 Y XXXXXX | Mobile Communications Services | Operational |

| | | | | | |
|---|---|---|---|---|---|
| | | | 076 Y XXXXXX | Mobile Communications Services | Operational |
| | | | 079 Y XXXXXX | Mobile Communications Services | Operational |
| | | Tanzania Telecommunications Corporation | 073 Y XXXXXX | Mobile Communications Services | Operational |
| | | Telxer Enterprise Limited. | 064 Y XXXXXX | Mobile Communications Services | Not Operational |
| 5. | Special, Fixed Rate Services | Tanzania Telecommunications Corporation | 0800 11 XXXX | Local Toll Free | Operational |
| | | Honora Tanzania PLC | 0800 12 XXXX | Local Toll Free | Operational |
| | | Honora Tanzania PLC | 0800 71 XXXX | Local Toll Free | Operational |
| | | Vodacom Tanzania PLC | 0800 75 XXXX | Local Toll Free | Operational |
| | | Airtel Tanzania PLC | 0800 78 XXXX | Local Toll Free | Operational |
| | | Tanzania Telecommunications Corporation | 0808 11 XXXX | International Toll Number | Operational |
| | | Vodacom Tanzania PLC | 0808 00 XXXX | International Toll Number | Operational |
| | | | | | |
| 6. | Premium Rate Services | Airtel Tanzania PLC | 0901 00 XXXX | Entertainment Services (Multimedia Services) | Operational |
| | | Vodacom Tanzania PLC | 0901 12 XXXX | Entertainment Services (Multimedia Services) | Operational |
| | | Honora Tanzania PLC | 0901 65 XXXX | Entertainment Services (Multimedia Services) | Operational |
| | | Vodacom Tanzania PLC | 0901 76 XXXX | Entertainment Services (Multimedia Services) | Operational |
| | | Viettel Tanzania PLC | 0901 22 XXXX | Entertainment Services (Multimedia Services) | Operational |
| | | Vodacom Tanzania PLC | 0900 01 XXXX | Information Services (Premium Services) | Operational |

## 4.3 Numbers for Public Communications (Free of Charge)

### 2.3.1 Customer Assistance Services

These are numbers made available free of charge to customers for special telecommunication services. These numbers are not allocated specific service providers and are in a number range of **10B.**

Where **B** stands for service application

*Table 10: Customer assistance (free of charge)*

| S/N | 10B RANGE | APPLICATION | STATUS |
|---|---|---|---|
| 1. | 100 | Customer Care/Operator Assistance (Swahili) | Operational |
| 2. | 101 | Customer Care/Operator Assistance (English) | |
| 3. | 102 | Check Balance/Billing Inquiry (Swahili) | |
| 4. | 103 | Check Balance/Billing Inquiry (English) | |
| 5. | 104 | Recharge (Swahili) | |
| 6. | 105 | Recharge (English) | |
| 7 | 106 | Check to confirm if your SIM Card is Registered | |
| 8. | 107 | Customer Care IVR | |
| 9. | 108 | e-Government Services | Reserved |
| 10. | 109 | e-Government Services Zanzibar | Reserved |

### 2.3.2 Life and Safety Services (Free of Charge)

These are 3-digit codes made available and assigned to specific Ministries/Authorities/Departments to provide life-saving services.

These short codes are common to all Operators in Tanzania in the range of **11 B**. A summary of the applicable short codes and their applications in the New Numbering Scheme is provided in **Table 11.**

*Table 11: Life and safety (free of charge) services*

| S/N | 11B & 19B RANGE | APPLICATION | STATUS |
|---|---|---|---|
| 1 | 110 | Emergency services for Lake Victoria and other water bodies | Operational |
| 2 | 111 | Crime Stoppers | Operational |
| 3 | 112 | Emergency, Police | Operational |
| 4 | 113 | Anti-corruption | Operational |

| | | | |
|---|---|---|---|
| 5 | 114 | Fire Services | Operational |
| 6 | 115 | Ambulance Services & M-mama Services | Operational |
| 7 | 116 | Child Help Line | Operational |
| 8 | 117 | Health Help Line | Operational |
| 9 | 119 | Anti-Drugs | Operational |
| 10 | 190 | Disaster Services | Operational |
| 11 | 195 | Anti-human trafficking services | Operational |
| 12 | 199 | Medical Emergency for Outbreak Diseases | Operational |
| 13 | 118,191 to 194, 196 to 198 | Spare | Spare |

### 2.2.3 East Africa Region Common Short Codes

In light of the move towards harmonization of common short codes in East African Member States, the following numbers have been harmonized to facilitate East African Roamers' seamless use of short codes across the region.

*Table 12: East Africa regional common short codes (free of charge)*

| S/N | 1BB RANGE | APPLICATION |
|---|---|---|
| 1 | 100 | Customer Service |
| 2 | 130 | Recharge |
| 3 | 131 | Check Balance |
| 4 | 121 | Surface and Marine Transport Instant Reporting Services |
| 5 | 123 | Voicemail retrieval |
| 6 | 110 | Emergency Services for Lake Victoria |
| 7 | 112 | Emergency, Police |
| 8 | 116 | Child Helpline |
| 9 | 17B | Carrier selection |

## 4.4 Other Assignments

### 2.4.1 Voice Mail Services

The services used to collect/deliver voice messages from/to direct users and subscribers. This system consumes the services supplied by its Voice Store-and-Forward Unit and consumed by its users. Planned numbers for voice mail use the format **12B,** where **B** stands for the service is being applied, as illustrated in **Table 13**.

*Table 13: Voice Mail (discounted tariff)*

| S/N | 12B RANGE | APPLICATION |
|---|---|---|
| 1. | 123 | Voice Mail Retrieval |
| 2. | 124 | Indirect Voice Mail Deposit / Retrieval |
| 3. | 120-122;128-129 | Spare |

### 2.4.2 Utility Services Numbering

These are simple and memorable short codes for utility services used particularly for services with high public interest such as Electricity, Water and sewage and Gas. The numbering format is 18B where B stands for a type of utility (water and sewage, gas or electricity).

*Table 14: Utility Services Numbering Assignments*

| S/N | 18B RANGE | APPLICATION | STATUS |
|---|---|---|---|
| 1. | 180 | Electricity | Operational |
| 2. | 181 | Water and Sewage | Operational |
| 3. | 182 | Fault reporting on the ICT backbone | Reserved |
| 4. | 183 | Gas | Reserved |
| 5. | 184-189 | Spares | Reserved for future assignments |

### 2.4.3 Value Added Services Short Codes – VAS USSD and SMS

Unstructured Supplementary Service Data (USSD) is a Global System for Mobile (GSM) communication technology that is used to offer interactive text-based Values Added Services (VAS) between a mobile phone user and an application program in the network. Applications may include prepaid roaming, mobile money transactions, mobile banking services and other e-commerce services.

*Table 15: VAS USSD numbering allocation*

| S/N | 14B / 15B RANGE | FORMAT | APPLICATION |
|---|---|---|---|
| **1.** | 146 | *146*YY | Trial Services |
| 2. | 147 | *147*YY | General Services |
| 3. | 148 | *148*YY | Free Services |
| 4. | 149 | *149*YY | General Services |
| 5. | 150 | *150*YY | E-Commerce (financial) Services |
| 6. | 151 | *151*YY | E-Commerce (financial) Services |
| 7. | 152 | *152*YY | Government Services |

*Table 16: VAS SMS numbering Allocation*

| S/N | Number Range 14BYY/15BYY | Service |
|---|---|---|
| 1. | 146 YY | Trial Services |
| 2. | 150 YY | Free Text Codes |
| 3. | 15040 | Report on Fraud |
| 4. | 15090 | Equipment Verification by using IMEI |
| 5. | 151 YY | Financial and Commercial related applications |
| 6. | 152 YY | Government Services |
| 7. | 153 YY | Standard Rate Codes (e.g. voting; at standard rates up to the basic premium rate) |
| 8. | 154 YY | Free Text Codes |
| 9. | 155 YY | Basic Premium Rate Codes (e.g. Lotto, horoscope, Download of video, Images & Graphics etc.; charged at basic premium rates) |
| 10. | 156 YY | Basic premium rate services |
| 11. | 157 YY | High Premium Rate Codes (e.g. Mobile Lottery, Gaming; charged the highest rate) |
| 12. | 158 YY | Spare for high premium rate codes |
| 13. | 159 YY | Free Text Codes |
| 14. | 160YY | Free Text Codes |

**Notice for VAS Short Code Usage and Assignments**

The Authority has identified GOLD, SILVER, BRONZE and Ordinary VAS SMS Codes from the most memorable to the least memorable codes.

The following assignment criteria shall apply for VAS Short Code Usage and Assignment:

a) GOLD, SILVER and BRONZE codes are assigned based on the applicant's preference, as the codes have different registration fees.

b) Ordinary codes are assigned serially depending on availability.

c) All applications for numbering resources, including VAS short code, should be done through TCRA's Tanzanite portal (https://tanzanite.tcra.go.tz/index.htm)

## 5. IDENTIFICATION AND ADDRESSING CODES

### 5.1 Signaling Point Codes (SPCs)

#### 5.1.1 Format of International Signaling Point Code (ISPC)

The International Telecommunication Union Telecommunication Standardization Sector (ITU-T) has specified in Recommendation Q.708 the following 14-bit binary format for the identification of the International Signaling Point Codes to be used in the international SS7 Signaling links

| **N M L** | **K J I H G F E D** | **C B A** |
|---|---|---|
| Zone/Geographic Area Identification<br><br>**3 bits** | Area/Network Identification<br><br>**8 bits** | Signalling Point Identification<br><br>**3 bits** |
| Signaling Area/Network Code (SANC) | | |
| **International Signaling Point Code (3-8-3)** | | |

First bit transmitted

*Figure 2: ITU-T format for the ISPCs*

The **3-bit** sub-field '**NML**' defines the world geographical zone where the network is located. The **8-bit** sub-field '**KJIHGFED**' identifies the geographical area or network within a specific world zone. The **3-bit** sub-field '**CBA**' identifies the Signaling point (international exchange) within a specific geographical area or network.

The combination of sub-fields 'NML-KJIHGFED' is defined as a Signaling Area /Network Code (SANC). Each country shall be assigned at least one SANC.

The allocation of the codes in the first sub-field 'CBA' in this 3-8-3 bit structure is left for the National Communications Regulator, which is responsible for notifying the ITU-T

Secretariat of the code usage. The 3-bit structure of the 'CBA' sub-field allows eight International Signaling Point Codes to be used for each SANC code. Should more than 8 International Signaling Points be required, one or more additional SANC code(s) would then be assigned by ITU-T for the country.

### 5.1.2 Current Assignments of the International Signaling Point Code

The following are the current ISPC based on services as per the descriptions aforementioned.

The assigned SANCs to Tanzania by ITU's TSB are **6-080**, **6-081** and **6-123**. The assignment of ISPC to Telecommunication System Operators is indicated in Table 19.

*Table 17: International Signalling Point Codes Assignments in Tanzania*

| S/N | EXCHANGE OPERATOR | ASSIGNED ISPC (3-8-3) |
|---|---|---|
| 1. | Tanzania Telecommunications Corporation | 6–080–0 |
| 2. | Honora Tanzania Plc | 6–080–7 |
| 3. | Vodacom Tanzania Plc | 6–080–4 |
| 4. | Tanzania Telecommunications Corporation | 6–081–0 |
| 5. | Vodacom Tanzania Plc | 6–081–3 |
| 6. | Airtel Tanzania Plc | 6–081–6 |
| 7. | Airtel Tanzania Plc | 6–081–7 |
| 8. | Viettel Tanzania Plc | 6–081–1 |
| 9. | Viettel Tanzania Plc | 6–081–4 |
| 10. | Tanzania Telecommunications Corporation | 6–123–2 |
| 11. | Tanzania Telecommunications Corporation | 6–123–3 |

### 5.1.3 Format of the National Signaling Point Code (NSPC)

The recommended structure for SPCs to be used to identify exchanges in national-level networks is 14 bits as described in Figure 3.

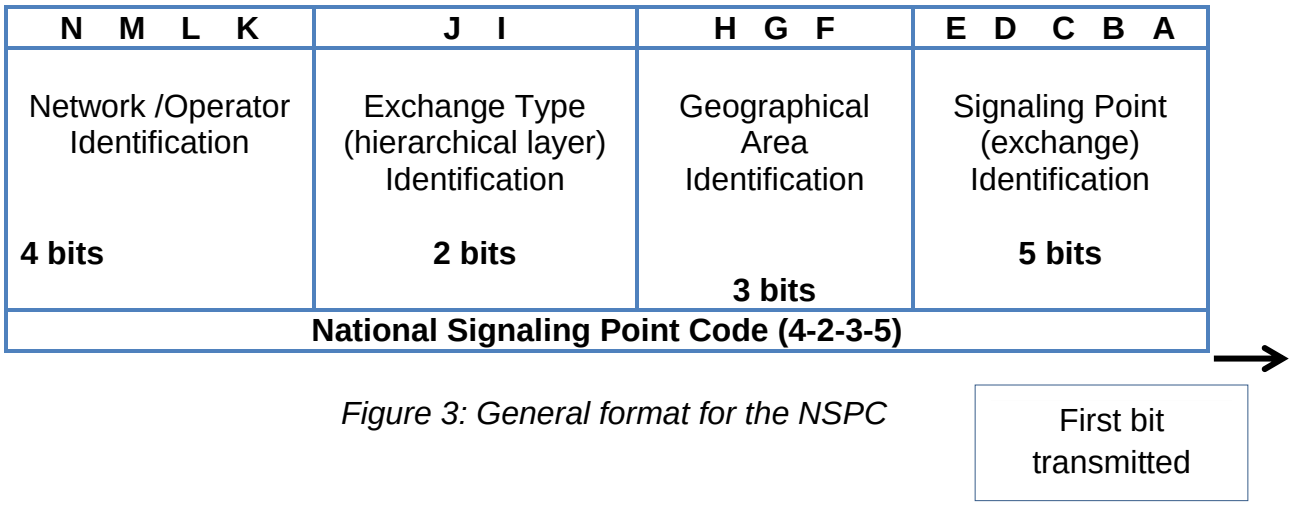


*Figure 3: General format for the NSPC*

The **4-bit sub-field 'NMLK** 'defines the network (operator) in which the exchange is located in.

The **2-bit sub-field 'JI'** shall define the hierarchical layer of the exchange in the operator's network as follows:

| **Hierarchical Layer** | **Bit Pattern 'JI' [binary]** | **Bit Pattern 'JI' [decimal]** |
|---|---|---|
| International layer | 00 | 0 |
| National transit layer | 01 | 1 |
| Local tandem layer | 10 | 2 |
| Local layer | 11 | 3 |

**Note:** In case an exchange is a combined exchange operating on two or more layers, it shall be specified on its highest operating layer in the sub-field 'JI'.

The **3-bit sub-field 'HGF'** is used to identify the geographical area where the exchange is located.

The SPC area boundaries follow the local dialing numbering area boundaries in the new National Numbering Scheme. An exception is made in the Dar es Salaam numbering area, which is divided into DSM North and DSM South Areas to provide enough capacity for the densely populated capital area.

The geographical areas to be used in the SPC numbering are shown in **Table 18** and pictorially depicted in the map in **Figure 4.**

*Table 18: Geographic Signalling Area Codes*

| **Code** | **Geographical area** |
|---|---|
| 0 | Dar es Salaam North |
| 1 | Dar es Salaam South |
| 2 | Coast, Morogoro, Mtwara and Lindi Regions |
| 3 | Zanzibar (including Pemba and Unguja) Regions |
| 4 | Mbeya, Ruvuma, Katavi, Songwe and Rukwa Regions |
| 5 | Dodoma, Iringa, Njombe, Singida and Tabora Regions |
| 6 | Arusha, Kilimanjaro, Manyara and Tanga Regions |
| 7 | Geita, Kagera, Kigoma, Mara, Mwanza, Shinyanga and Simiyu Regions |

The first sub-field to be transmitted '**EDCBA'** shall define the exchange, i.e. the Signaling Point within a geographical area defined in the sub-field 'HGF'.

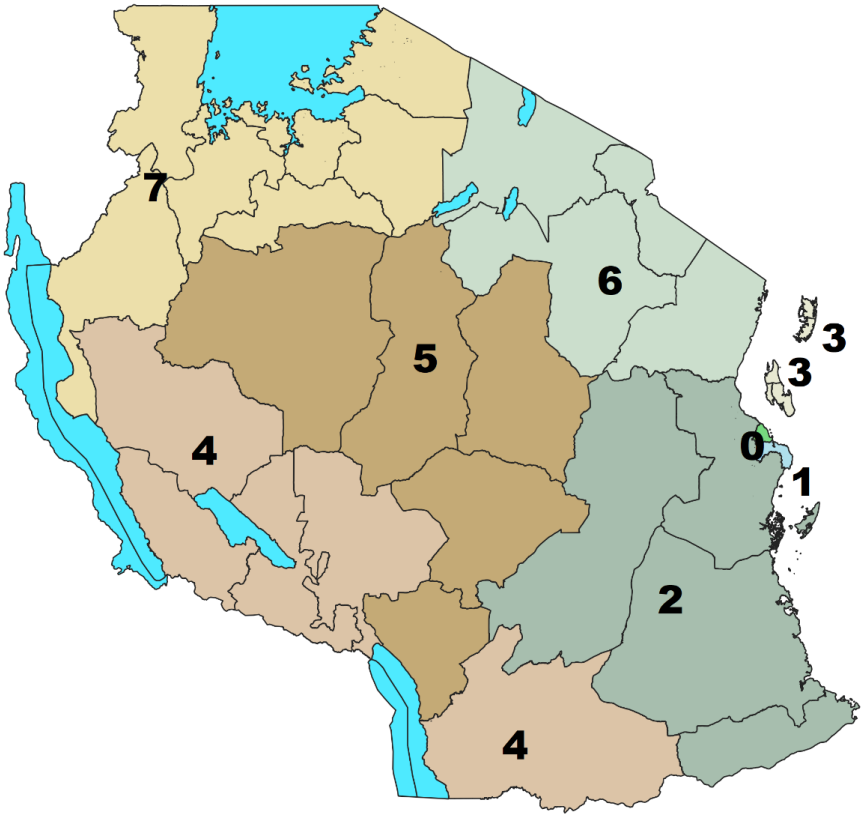


*Figure 4: Tanzania Geographic Signaling Area Codes*

### 5.1.4 Current assignment of the National Signaling Point Codes

The assignment of National SPCs to Telecommunications System providers is indicated in **Table 21**.

*Table 19: National Signalling Point Codes (ISPCs)*

| SN | SERVICE | EXCHANGE OPERATOR | ALLOCATION/ASSIGNMENT |
|---|---|---|---|
| **CALL CENTRES FOR EMERGENCY AND LIFE & SAFETY NUMBERS** | | | |
| 1 | LIFE & SAFETY | LIFE & SAFETY OPERATORS | 1-0-0-21 to 1-0-0-31 |
| **PUBLIC SWITCHED TELEPHONE NETWORK (PSTN)** | | | |
| 1 | PSTN | TANZANIA TELECOMMUNICATIONS CORPORATION | 1-Y-X-ZZ except 1-0-0-21 to 1-0-0-31 |
| **PUBLIC LAND MOBILE NETWORK (PLMN)** | | | |
| 1 | PLMN | HONORA TANZANIA PLC | 8-Y-X-ZZ |
| **PUBLIC LAND MOBILE NETWORK (PLMN)** | | | |
| 2 | PLMN | Tanzania Telecommunications Corporation | 9-Y-X-ZZ |
| 3 | PLMN | Honora Tanzania Plc | 10-Y-X-ZZ |
| 4 | PLMN | Vodacom Tanzania Plc | 11-Y-X-ZZ |
| 5 | PLMN | Airtel Tanzania Plc | 12-Y-X-ZZ |

| SN | SERVICE | EXCHANGE OPERATOR | ALLOCATION/ASSIGNMENT |
|---|---|---|---|
| **CALL CENTRES FOR EMERGENCY AND LIFE & SAFETY NUMBERS** | | | |
| 1 | LIFE & SAFETY | LIFE & SAFETY OPERATORS | 1-0-0-21 to 1-0-0-31 |
| 6 | PLMN | Viettel Tanzania Plc | 14-Y-X-ZZ |
| *Reserved* | | | 0-Y-X-ZZ |
| *Reserved* | | | 3-Y-X-ZZ |

## 5.2 Identifiers for Public Cellular Network

These are numbers allocated for Identifiers of Public Cellular Network

### 5.2.1 Mobile Country Code / Mobile Network Code (MCC/MNC)

Assignment of MNC is as per ITU T. Rec E.212; in Tanzania, the assignment is in the format: 640-XX, where 640 is the Mobile country code (MCC) and XX indicates the MNC assigned to the different mobile operator, which together identifies the Public Land Mobile Network (PLMN) uniquely worldwide

*Table 20: Identification Codes for Public Cellular Networks in the Country*

| S/N | OPERATOR | MCC+MNC |
|---|---|---|
| 1. | Honora Tanzania PLC | 640-02 |
| 2. | Honora Tanzania PLC | 640-03 |
| 3. | Vodacom Tanzania PLC | 640-04 |
| 4. | Airtel Tanzania PLC | 640-05 |
| 5. | WIA Company Limited | 640-06 |
| 6. | Tanzania Telecommunications Corporation | 640-07 |
| 7. | Viettel Tanzania PLC | 640-09 |
| 8. | Tanzania Railways Corporation | 640-12 |

### 5.2.2 Issuer Identifier Numbers (IIN)/SIM Header

These are seven-digit numbers used to identify the subscriber Identity Module (SIM). The IIN follows the format: 89-255-XX, where 89 was assigned to the telecommunications industry; 255 is the country code for Tanzania and XX is the MNC. The resource has been assigned as per ITU-T Rec. E. 118

*Table 21: Issuer Identifier Numbers (IIN)/SIM*

| S/N | OPERATOR | ASSIGNED CODES |
|---|---|---|
| 1 | Honora Tanzania PLC | 89-255-02 |
| 2 | Honora Tanzania PLC | 89-255-03 |
| 3 | Vodacom Tanzania PLC | 89-255-04 |
| 4 | Airtel Tanzania PLC | 89-255-05 |
| 5 | Tanzania Telecommunications Corporation | 89-255-07 |
| 6 | WIA Company Limited | 89-255-08 |
| 7 | Viettel Tanzania PLC | 89-255-09 |
| 8 | Tanzania Railways Corporation | 89-255-12 |

### 5.2.3 Data Network Identification Codes (DNIC)

The assignment of a DNIC to a global network is administered by the ITU as per ITU-T Recommendations. X.121. Tanzania has been allocated Data Country Code **640,** which subsequently assigns DNIC in the format of **640-X,** where X is the network digits. DNIC uniquely identifies the Public Data Network worldwide.

## 6. FUTURE ASSIGNMENTS AND AMENDMENTS

Planning, allocation and assignment of electronic numbering resources in Tanzania is a continuous process, depending on but not limited to industry and technological needs, including Innovations and new market demand, Recommendations and resolutions from the regional and International organizations, e.g., SADC, EACO and ITU. In this view, TCRA can amend National Numbering and signaling points codes plans where necessary, when deemed fit.

## Contact Us

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