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GENERAL NOTICE

NOTICE 1424 OF 2001



INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

NOTICE OF INTENTION TO MAKE REGULATIONS ON THE NUMBERING PLANS IN RESPECT OF TELECOMMUNICATION SERVICES

THE INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA ("ICASA") HEREBY GIVES NOTICE THAT IT INTENDS MAKING THE FOLLOWING REGULATIONS IN TERMS OF SECTIONS 96(1) AND 96(4), READ WITH SECTION 89 OF THE TELECOMMUNICATIONS ACT, 1996 (ACT No. 103 OF 1996).

INTERESTED PERSONS ARE HEREBY INVITED TO SUBMIT WRITTEN COMMENTS OR REPRESENTATIONS, INCLUDING AN ELECTRONIC VERSION OF REPRESENTATIONS IN MICROSOFT WORD 6.0 OR LOWER, WITH REGARD TO THE PROPOSED REGULATIONS TO BE RECEIVED NO LATER THAN **12H00 ON 10 SEPTEMBER** BY POST, HAND DELIVERY OR FACSIMILE TRANSMISSION, FOR THE ATTENTION OF MR. H. KASSEEPURSA, TELECOMMUNICATIONS LICENSING DEPARTMENT, ICASA: PRIVATE BAG X1, MARLBORO, 2063; BLOCK A, PIN MILL FARM, 164 KATHERINE STREET, SANDTON; TEL (011)321-8311; FAX (011)321-8550.

MANDLA LANGA
CHAIRPERSON
ICASA

REGULATIONS ON THE NUMBERING PLANS

REGULATIONS IN TERMS OF SECTION 89 READ WITH SECTION 96 OF THE TELECOMMUNICATIONS ACT 103, 1996

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1 DEFINITIONS AND SCOPE

1.1 Definitions

In this Regulation, unless the context requires otherwise;

- (a) All words and expressions shall have the same meanings ascribed to them in the Telecommunications Act 103 of 1996 (the "ACT");
- (b) The following terms shall have the meaning set forth below:

"ABC code" means the 3-digit combination of a national geographic number that immediately follows the area code;

"Area code" means the dialled identification code that uniquely identifies an exchange area or multi-exchange area;

"Area code overlay" means that numbering relief is provided in an area by opening up a new area code within the same geographic area as the area requiring relief;

"Assignment" means one or more of a three-level assignment process, namely primary, secondary or tertiary assignment of numbers:

- (1) **"Primary assignment"** means the issue of numbers or codes directly to a customer or network operator by the Authority or Numbering plan manager (NPM);
- (2) **"Secondary assignment"** means the issue of numbers by a network operator to service providers or to end customers;
- (3) **"Tertiary assignment"** means the issue of numbers by a service provider to end customers;

"Central number database" means a centralized master record-keeping system for capturing details of the assignment of numbers, maintained and held by the Authority or NPM;

"Closed numbering plan" means that the national number length is fixed for all telecommunication services, geographic or non-geographic (except special services) and the same number is dialled to reach a customer or service regardless of the point of origin of the call;

"Days" means any day other than Saturday, a Sunday or a public holiday in the Republic of South Africa;

"Efficient utilization" means the use or allocation of numbers and codes in the most economical manner practicable or in a manner that will not precipitate number shortages. For example, efficient allocation methods include:

- number allocation or issue of a full length number per service, customer or user,
- the use of number pooling (sharing) in preference to block allocation, and
- short code allocation limited to the absolute minimum;

"Exchange area" means a geographical area demarcating those telephone users who should be served by their own local exchange;

"Freephone number" means a number that can be reached free of charge to the caller, typically beginning '0800';

"Geographic number" means a number from the national numbering plan where part of its digit structure contains geographic significance used for routing calls to the physical location of the network termination point of the customer to whom the number has been assigned;

"Geographic significance" means the concept of geographically indicative numbers that give an indication of the geographic location being called; two types are distinguished:

- (1) **"Broad geographic significance"** gives a broad indication of the location within a numbering area;
- (2) **"Local geographic significance"** gives an indication of the specific district or precinct within a numbering area;

"International number" means the number to be dialled following the international prefix to obtain a called party in another country;

"International prefix" means the combination of digits to be dialled, following access to the PSTN, by a caller making a call to a recipient in another country to obtain access to the automatic outgoing international equipment. For South Africa, this prefix is presently digits '09', but will change to '00' in due course to meet international standards;

"Local rate services" means services that are charged only at the local call charge rate to the calling party, regardless of the distance of the call;

"Mandatory 10-digit dialing" means all calls to geographic numbers, whether local and national calls, require the full 10-digit national number to be dialed (i.e. initial digit '0' + *national significant number*) regardless of the origin of the call;

"Multi-exchange area" means a collection of two or more exchange areas with a locally linked numbering scheme. For example, dialling code '012' represents the multi-exchange area of Pretoria;

"National numbering plan" means the numbering plan providing access to telecommunication services in South Africa, including POTS, ISDN, mobile cellular, data and telex numbering;

"National (significant) number" means the number to be dialled following the national trunk prefix '0' to obtain a customer in the same country but outside the same local network or numbering area;

"Non-geographic number" means numbers that are used to identify a type of service rather than a geographical location. These services are sometimes referred to as "Specially Tariffed Services" and include freephone, local rate, national rate and premium rate services. Mobile, Paging and Personal Number services are also use non-geographic numbers;

"Number block" means a series of numbers (usually sequential);

"Numbering code" means the initial dialled digits of a telephone number that identify the service;

"Numbering conventions" means a set of rules and principles relating to the use and management of numbers from the prescribed numbering plan;

"Number pooling" means the sharing of *ABC codes* among multiple operators and service providers serving the same exchange area. All ten thousand numbers within each *ABC code* continue to be associated with the same exchange area designation, but can be distributed among multiple service providers, typically at the thousand block (*ABC-X*) level;

"Numbering space" means the generic term for the total set of numbers available behind a country code or service access code or the collection of them;

"Over-ride" means a code sequence to over-ride pre-selection on a call-by-call basis. Applicable only when/where pre-selection is provided;

"Prescribed numbering plan" means the national numbering plan in South Africa for the assignment and re-assignment of designated numbers, codes and prefixes that is specified by the Authority for use in respect of telecommunication services. The prescribed numbering plan specifies which number ranges are assigned for usage with which type of telephony service and encompasses all public numbering capacity available within the entire numbering space;

"Pre-selection" means the automatic selection of one of several alternative carriers (operators) for all normal dialled calls, by nominating that carrier in advance;

"Public number" means a number specified in the prescribed numbering plan for use in connection with the supply of telecommunication services to the public in South Africa;

"Public telecommunications network" means a telecommunications network used, in whole or in part, for the provision of publicly available telecommunications services;

"Short codes" means any national number less than 10-digits in length;

"Withdrawal of numbers" means the withdrawal of codes and numbers from the prescribed numbering plan, whether active or inactive, to the spare numbering resource pool;

Abbreviations

"ATM" means asynchronous transfer mode;

"AVS" means automated voice system of Telkom;

"CBD" means central business district;

"CIC" means carrier identification code;

"DNIC" means a data network identification code;

"GMPCS" means global mobile personal communications via satellite - a world-wide mobile service based upon satellite technology. It provides global voice and data access, so wherever the customer may be in the world access will be available. Handsets may be dual mode so that when a customer is within mobile cellular network coverage the call may be connected through that network, but when that customer moves outside of mobile cellular coverage the call may be routed via the GMPCS network;

"IDD" means international direct dial;

"ISDN" means integrated services digital network - a network based on the existing digital PSTN which provides digital links to customers and end-to-end digital connectivity to support a wide range of services, including voice and non-voice services to which users have access by standard multipurpose customer interfaces;

"ITU-T" means the telecommunications sector of the international telecommunications union;

"MEA" means multi-exchange area;

"NAC" means numbering advisory committee of the Authority;

"NPM" means numbering plan manager - an independent national body duly authorized and empowered to carry out the management of the prescribed numbering plan;

"OLO" means other licensed operators - companies, other than Telkom, licensed to operate telecommunications networks in future;

"POTS" means plain old telephone services;

"PLMN" means public land mobile network;

"PSTN" means public switched telephone network, for example the telecommunications network of Telkom;

"SADC" means Southern African Development Community, presently 14 member states in Southern Africa;

"SIM" means Subscriber Identity Module, a 'smart' card installed or inserted into a mobile telephone containing all subscriber-related data.

"TNIC" means telex network identification code;

"UIFN" means universal international freephone number - the ITU-T Recommendation for establishing a global freephone environment where the customer is allocated a unique freephone number(s) that is the same throughout the world;

"UPT" means universal personal telecommunications - the ITU-T Recommendation for establishing a personal communications environment where the customer can be reached through a single (personal) number independent of network or location, providing total personal mobility. The number is assigned to a customer rather than a service.

1.2 Scope of the Regulation

In this Regulation, the Authority

- (1) PRESCRIBES A NUMBERING PLAN, pursuant to section 89 of the act, for use in respect of telecommunication services that encompasses:
 - (a) The number plan (SECTION 3);
 - (b) The implementation plan with time-lines that specifies when number changes must be effected (SECTION 4); and
 - (c) The administration and management of the number plan, including national numbering conventions (SECTION 5); and
- (2) MAKES KNOWN ITS INTENTION TO —
 - (a) Introduce a *closed numbering plan* in South Africa that shall include *mandatory 10-digit dialling* for all geographic numbers by 08 May 2002 . All local geographic numbers (currently the initial dialled digit '2' to '9') shall be withdrawn from the prescribed numbering plan; and
 - (b) Introduce an *area code overlay* in the Gauteng Central Area (using area code '010') to provide adequate future numbering capacity and numbering relief with the imminent exhaustion of '011' numbers in the Gauteng Central Area.

2 RESTRICTIONS, PROHIBITIONS AND REGULATORY FLEXIBILITY

2.1 Restrictions and Prohibitions

2.1.1 Prescribed numbering plan

- (1) Numbers and codes included in the Prescribed Numbering Plan ("the Plan") shall be for the exclusive use with the telecommunication services designated for this purpose.
- (2) Numbers and codes NOT specified in the Plan are prohibited for use with any telecommunication services, or other use, unless expressly authorized in writing by the Authority.

2.1.2 Short codes

- (1) The use of short codes and numbers shall be limited, where practicable, to use with special services, emergency services and internal network use. Where short codes have not been designated for use by this regulation, the express authorization in writing by the Authority shall be required.
- (2) Notwithstanding the restrictions in the use of short codes imposed by this regulation, the Authority may, within one year after the completion of the 10-digit closed numbering plan in South Africa contemplated in SECTION 1.2(2), conduct an enquiry in terms of SECTION 27 of the Act into the feasibility of an additional range, other than the '1X' range, for short codes in South Africa.

2.2 Regulatory Flexibility

- (1) Notwithstanding the provisions in the Act, as amended, for the Regulatory treatment of Telkom during the period of its licence exclusivity, or the provisions contemplated in the Numbering Condition of Telkom's Public Switched Telecommunication Service Licence, the Authority may FORBEAR from applying the numbering conventions in SECTION 5.3 of this regulation to Telkom, until a date to be specified by the Authority, subject to the following conditions:
 - (a) Telkom shall continue to allocate geographic numbers directly to its customers, provided that the allocation -
 - (i) complies with the prescribed numbering plan; and
 - (ii) is justified by the expected traffic usage; and
 - (iii) is reasonable in terms of the market needs; and
 - (iv) will not precipitate number shortages; and
 - (v) shall be in a manner that aims to achieve an overall utilization level of 75% in the metropolitan exchange area (MEA) codes listed in SCHEDULE 3;
 - (b) Telkom shall not introduce new geographic area codes ("0NN") without the express written authorization of the Authority;
 - (c) Telkom shall not allocate geographic numbers from the ABC code ranges reserved for future use as listed in SCHEDULE 4, without the express written authorization of the Authority;

- (d) Telkom shall submit to the Authority every three (3) months, commencing from the first day of the month following the commencement date of this regulation, a list of all new ABC codes that have been activated in Telkom's network;
- (e) Telkom shall provide the Authority, as requested at any reasonable time by the Authority, with updated information on the level of utilization of any or all ABC codes in any or all geographic numbering area(s).
- (f) Numbers may be reserved for Telkom's customers in accordance with the numbering conventions in SECTION 5.3 provided that the in-service date is no longer than 12 months from the date of reservation. Reserved numbers that are not brought into service within 12 months from the reservation date shall be returned to the national number resource pool. This shall be done in writing.

3 NUMBER PLAN**3.1 International Service Codes****Range****Service**

00	INTERNATIONAL DIRECT DIAL (IDD) ACCESS
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3.2 Non-Geographic Service Codes**Range****Service**

10	EXISTING TELKOM SERVICES	In Use (Telkom)
10111	Police emergency	
10116	Conference call booking (multi-lingual)	
10118	Electronic yellow pages	
10120	Call answer - deposit message	
10121 - 10125	Call answer remote retrieval	
10126 - 10127	Enhanced services platform (ESP) services	
10128	Prepayment	
10129	Call answer - call forwarding	
1013	Universal card calling and automatic reverse charge call services	
10170	Regional Front Office	
10171	Regional front office	
10177	Ambulance emergency	
10178	Reserved for fire brigade	
1019	Automated voice system (AVS)	
10210	Account enquiries (call centres)	
10212	Engineering faults (call centres)	
10214	Ships at sea	
10215	Telkom internal use	
10216	Fixed time booking	
10217	Business Call Centre	
10218	PO Phonogram	
10219	Application for new services (call centres)	
1022	Emergency call difficulties (multi-lingual)	
1023	Directory information (multi-lingual)	

1024	Payphone service difficulties	In Use (Telkom)
1025	Demand services (english)	
1026	Time	
1027	Demand services (multi-lingual)	
1028	Phonogram (multi-lingual)	
1029	Changed number interception (multi-lingual)	
1091	Telkom internal use	
1096	Time (multi-lingual)	↓
11	Community Services and Mass Dialling	
112	National emergency service	
12	Operator Services	
13	Local Rate Services	
14	Service provider access and pre-selection override codes	
1410 to 1469	Service provider access codes/ Carrier Identification Codes (CIC) ¹	
1470 to 1499	Pre-selection override codes	
15	Universal Personal Telecommunications (UPT)	
16	Reserved for future growth	
17	Reserved for future growth	
18	Special Network Services	
19	Premium Rate Services	

08 and 07	MOBILE CELLULAR, PAGING, GMPCS AND TELKOM INBOUND CALL SERVICES
080	Telkom Freecall
081	Reserved for future growth
082	Mobile cellular (Vodacom)
083	Mobile cellular (MTN)
084	Reserved for 3 rd mobile cellular operator
085	Reserved for 4 th mobile cellular operator
086	Telkom Inbound call services
087	Reserved for future growth
088	Paging
089	Reserved for GMPCS

¹ The Authority shall assign CIC codes using strict assignment guidelines

4 IMPLEMENTATION PLAN

4.1 International Service Codes

Range	Service	Implementation
00	International Direct Dial (IDD) Access	Available for use from 08 May 2002. Parallel working with '09' for 12 months after '00' cut-over². AVS will be provided for 6 months following parallel working.³

4.2 Non-Geographic Service Codes

Range	Service	Implementation
10	Non Specific Services	Available for use. Ranges used by Telkom specified in SECTION 2.1.2.⁴ Spare ranges available for allocation as determined by the Authority.
11	Community Services and Mass Dialling ⁵	Available for use from 08 May 2002.
112⁶	National Emergency Service	Parallel working with '107' for 12 months after '112' cutover.⁷ AVS will be provided for 6 months following parallel working⁸.
12	Operator Services ⁴	Available for use from 08 May 2002.

² Parallel working allows for either code to be used for the specified period.

³ AVS is Telkom's automated voice system. When '09' is dialled, AVS will inform the caller that the number is no longer available and that '00' is the new number. This call will not be charged to the caller.

⁴ Telkom will be permitted to retain these codes for services in use. New services will be allocated numbers within the designated 'IX' range.

⁵ The Authority will determine code lengths within the range in accordance with the Numbering Principles.

⁶ At any time, a licensed operator shall provide free emergency access to an emergency organisation using the number 112 on any telecommunications line terminal equipment or any GSM equipment including simlless equipment.

⁷ Parallel working allows for either code to be used for specified period.

⁸ AVS is Telkom's automated voice system. When '107' is dialled, AVS will inform the caller that the number is no longer available and that '112' is the new number. This call will not be charged to the caller.

13	Local Rate Services ⁴	Available for use from 08 May 2002.
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Range	Service	Implementation
14	Service provider access and Pre-selection override codes	Available for use from 08 May 2002.
1410 to 1469	Service provider access codes	
1470 to 1499	Pre-selection override codes	
15	Universal Personal Telecommunications Services (UPT) ^{9, 10}	Available for use from 08 May 2002.
16	Reserved for future growth	Available for use from 08 May 2002
17	Reserved for future growth	Available for use from 08 May 2002
18	Special Network Services ⁹	Available for use from 08 May 2002
19	Premium Services ⁹	Available for use from 08 May 2002

08 and 07	Mobile Cellular, Paging, GMPCS and Telkom Inbound Call Services	
080	Freecall	In use (Telkom)
081	Reserved for future growth	Available for use
082	Mobile cellular	In Use (Vodacom)
083	Mobile cellular	In Use (MTN)
084	Reserved for 3 rd mobile cellular operator	Available for use
085	Reserved for 4 th mobile cellular operator	Available for use
086	Inbound call services	In Use (Telkom)
087	Reserved for future growth	Available for use
088	Paging	In Use (Telkom)
089	Reserved for GMPCS ¹¹	Available for use from 08 May 2002

⁹ This range is reserved for possible future UPT services. The Authority may determine an alternate use for this range subject to the development of UPT services.

¹⁰ The Authority will determine code lengths within the range in accordance with the Numbering Principles.

¹¹ This range will become available for GMPCS when Telkom migrates its '089' service to the designated code range.

Range	Service	Implementation
07	Reserved for service growth and future operators ¹²	Available for use
072	Reserved for Vodacom	Available for use
073	Reserved for MTN	Available for use
074	Reserved for 3 rd mobile cellular operator	Available for use
075	Reserved for 4 th mobile cellular operator	Available for use

4.3 Geographic Service Codes

Range	Service	Implementation
01, 02, 03, 04, 05	Public switched telephone network service (PSTN)	TEN DIGIT CLOSED NUMBERING TO BE INTRODUCED NATIONALLY BY 08 May 2002 . Parallel working for 7 and 10-digit dialling will apply for 12 months prior to cutover to permanent 10-digit dialling.¹³ For 6 months following permanent cutover, AVS will be provided.¹⁴
01	Gauteng, Northern Province, North West Province and Mpumalanga	
010 and 011	Gauteng Central	Implementation date for area code '010' to be determined subject to a review of number capacity following the introduction of ten digit closed numbering. ¹⁵

¹² Numbers, number ranges and code lengths within the '07' range will be determined and allocated by the Authority in accordance with the Numbering Principles.

¹³ Either the service's local 7 digit number or its closed 10 digit number can be dialled for the period specified.

¹⁴ AVS is Telkom's automated voice system. When the old local 7 digit number is dialled, AVS will inform the caller that the number is no longer available and that the full 10 digit number must be used. This call will not be charged to the caller.

¹⁵ New services in Gauteng Central would be allocated the '010' code. No existing '011' services would change.

02	Western Cape	
03	Eastern (KwaZulu-Natal)	
04	Southern (Eastern Cape)	
05	Central (Free State and Northern Cape)	
06	Reserved for PSTN growth	Available for use
09	Reserved for PSTN growth ¹⁶	Available 01 April 2003

¹⁶ Reserved for future growth, following migration to the new IDD code '00'.

5 ADMINISTRATION, MANAGEMENT AND NUMBERING CONVENTIONS

(1) Defining the scope of this chapter

- (a) Numbering conventions encompasses the whole of**
 - (i) the prescribed numbering plan,**
 - (ii) the types of usage for designated number ranges,**
 - (iii) the rules for the administration of the numbering plan, and**
 - (iv) the rules for the management of the numbering plan.**
- (b) Administration of the numbering plan encompasses the establishment and change of the numbering conventions.**
- (c) Management of the numbering plan encompasses the whole of**
 - (i) the assignment of numbers from designated ranges,**
 - (ii) the surveillance of the usage of assigned numbers,**
 - (iii) the withdrawal of assigned numbers.**
- (d) Numbering Plan Manager (NPM) is an independent national body that carries out the management of the numbering plan.**
- (e) Assignment encompasses the total of allocation and possible preceding reservation of numbers.**

5.1 General Framework

(1) Numbering administration shall

- (a) Seek to establish an initial framework for numbering conventions that may be developed and amended, if necessary, to meet any future demands or requirements for telecommunications services in South Africa.**
- (b) Seek to ensure a seamless transition to a new multi-carrier competitive environment in the South African telecommunications sector after Telkom's licence exclusivity has expired.**
- (c) Seek to facilitate entry into the telecommunications marketplace by making numbering resources available in an efficient and timely basis;**
- (d) Seek to enable the assignment of numbers on a basis that is fair, reasonable and equitable;**
- (e) Not unduly favour or disadvantage any particular industry segment or group of consumers;**
- (f) Not unduly favour one technology over another.**

(2) General Responsibilities

- (a) The South African national numbering plan and the associated designated number ranges shall be controlled by the Authority. Administration of the numbering plan shall be carried out by the Authority or another national body independent of telecommunication organizations.**

- (b) The numbering plan and the associated designated number ranges shall:
- (i) provide sufficient capacity in both the short term (2 - 3 years) and the long term (20 - 30 years),
 - (ii) enable fair and open competition,
 - (iii) be as consistent as practicable with the relevant ITU-T Recommendations.
- (c) Management of the numbering plan shall be controlled by the Authority or another delegated national body independent of telecommunication organizations. The management process may be divided up into a maximum of three (3) stages, viz. primary, secondary and tertiary stages. The primary stage shall be carried out by the Authority or NPM, while the secondary and tertiary stages may be handled by market parties.
- (d) Management of the numbering plan shall be carried out in an objective, non-discriminatory, equitable, proportionate, timely and transparent manner.

(3) Consultation by the Authority

The Authority may consult with interested parties or their representatives or an advisory committee, for example the NAC, on an ad hoc basis or convened expressly for this purpose, on important issues concerning numbering conventions, on large-scale withdrawals of assigned numbers by the NPM, or of its intention to modify the numbering plan or numbering conventions on a large-scale.

(4) Publicity and appeal

- (a) Up-to-date information on the following items, if applicable, may be published in an appropriate manner:
- (i) the numbering conventions,
 - (ii) the numbers assigned by the NPM,
 - (iii) the status of each of these numbers.
- (b) Appropriate procedures may be laid down for appealing to an institution independent of the NPM against management decisions by the NPM.

(5) Public Education Campaign

The publicity of a change to the numbering plan or in a substantial part of the active national numbers shall be well co-ordinated and started in good time in order to allow market parties to prepare for the change. The Authority, may manage a public education campaign together with a communications strategy for a co-ordinated and timely public awareness programme. The Authority may consult with an advisory committee, for example the NAC, on an ad hoc basis or convened expressly for this purpose.

(6) Applications for primary assignment

- (a) Eligible applicants may be defined.

- (b) The information required to decide on an application may be defined. Additional information may be required depending on the specific application. The required information may not place an undue burden on the applicant.

(7) Primary assignment

- (a) Generally, the principle of need-oriented assignment and "first come, first served" shall be applied. Appropriate procedures may be laid down for handling more than one application for the same numbers.
- (b) The assignee shall have the right to use numbers for the telecommunication service specified.
- (c) When assignment is granted, the Authority shall inform the applicant accordingly and provide information about the procedure for appeal. The primary assignee shall be responsible and accountable for the proper and efficient use of the numbers assigned.

(8) Refusal of primary assignment

- (a) When assignment is refused, the Authority shall inform the applicant about the refusal, the reasons for the refusal and the procedure for appeal.
- (b) The reasons for which assignment can be refused may be laid down.

(9) Usage conditions after primary assignment

- (a) Assignment by the Authority shall only imply the granting of rights of use of numbers.
- (b) All conditions needed to control the usage of the numbers and to withdraw numbers if they are not used for the purpose or period required may be laid down.
- (c) The assignee shall not transfer or trade assigned numbers without the express authorization in writing by the Authority. An exception may be made for mergers, acquisitions and joint ventures, in which case the Authority shall be notified in writing.
- (d) The assignee shall not use numbers that do not belong to the national numbering plan in a way that may cause interference with numbers that do belong to the national numbering plan.

(10) Withdrawal of numbers from assignees of primary assignment

- (a) The reasons for which assigned numbers can be withdrawn may be laid down.
- (b) Before any decision on a large-scale withdrawal is taken, the overall implications of the withdrawal, the timescales and the number changes involved may be carefully considered.
- (c) When the Authority intends to withdraw assigned numbers, it shall inform the assignee about its intention, the reasons and the timescales for withdrawal and the procedure for appeal.

(d) When active numbers are withdrawn, because of the need for numbering capacity, fair and open competition or international harmonization, the assignee may have the numbers simultaneously replaced.

(e) When a change of active numbers is imposed by the Authority, the users of these active numbers may have the right to have the disruption minimized.

(11) Conditions for secondary and tertiary assignment

(a) Secondary and tertiary assignment shall comply with the national numbering plan.

(b) The following usage conditions for primary assignment may also apply to secondary and tertiary assignment:

(i) Assignment shall not imply transfer of ownership but shall only imply the granting of the rights of use of numbers.

(ii) The assignee shall not transfer to third parties or trade assigned numbers without the express authorization in writing by the Authority. An exception may be made for mergers, acquisitions and joint ventures, in which case the Authority shall be notified in writing.

(c) The assignee shall have the right of use of numbers for the telecommunication service specified.

(d) When a change of active numbers is imposed by the assigning body, the users of these active numbers may have the right to have the disruption minimized.

5.2 Management Tasks

Numbering plan management consists of, inter alia, the following primary tasks:

- (1) Setting up and maintenance of a central number database
- (2) Actual number assignment
- (3) Monitoring of usage of assigned numbers

5.2.1 Setting up and maintenance of a central number database

(1) The Authority may establish a centralized master database that is designed to be used for managing the assignment of numbers in a multi-carrier environment and to ensure adequate record-keeping of the national numbering resource. In developing the database, the Authority may specify its function and requirements, including:

- (a) Storage and memory capacity
- (b) Hardware and software
- (c) Security parameters and remote accessibility
- (d) Standards and compatibility
- (e) Flexibility, scalability and fault tolerance
- (f) Data fields and records to be kept
- (g) Report extracts and statistical evaluation
- (h) Future requirements

5.2.2 Actual number assignment

The actual assignment of various types of numbers is conducted by application of the numbering conventions in SECTION 5.3 of this regulation, using the central number database. To implement the regulations, the development of special software may be required.

5.2.3 *Monitoring the usage of assigned numbers*

The status of number usage shall be recorded in detail and statistically evaluated. The evaluation may indicate who is using the numbers and for what purpose. Monitoring the usage of assigned numbers is an important and central input factor for numbering plan organization. It enables the number administrator to recognize problems with capacity bottlenecks in good time and to take the appropriate measures. Need-oriented assignment requires a certain degree of surveillance on the usage of assigned numbers.

If single numbers are assigned centrally, the number administrator has a detailed overview of the usage of the number range. When blocks are assigned, the number administrator needs information on the utilization of the blocks from the network operators and shall have the right to demand it.

5.3 Numbering Conventions

The Numbering Conventions provide a Regulatory Policy Framework for the management of the plan and are a set of rules and guiding principles relating to the use and management of the prescribed numbering plan.

User's Guide to Numbering

The Numbering Conventions in this Regulation provide an initial Regulatory Policy Framework that have been developed broadly on the basis of the harmonized numbering conventions formulated by the European Commission. Because of the dynamic and rapid pace of change in the telecommunications industry, tomorrow's needs and requirements may not be apparent today. Future Numbering Conventions must support effective competition by ensuring that access to numbering resources is even handed for all customers. Developments in the global arena and numbering policy in SADC states in Southern Africa may also need to be accommodated. To facilitate future changes to Numbering Conventions in a logical and user-friendly manner for the public, the Authority may develop and document a "User's Guide to Numbering". The first dated version of the "User's Guide to Numbering" document, that could adopt the Numbering Conventions in this Regulation and any changes that become necessary, may be published by the Authority within two years from the date of the promulgation of this Regulation.

Fixed-Mobile Convergence

The activities of fixed telephony networks (PSTN) and mobile cellular telephony networks (PLMN and GMPCS global networks) currently occupy two different markets. Moreover, in South Africa, they are subject to different legal conditions, because the licences for the two categories of operator do not contain the same requirements. This distinction is tending to blur under the combined effects of operators commercial strategies and technological progress. Operators are now bringing fixed and mobile telephony offerings closer together, or even bundling them. This fixed-mobile convergence trend has a bearing on competition and the legal framework to be applied.

In this regulation, the Numbering Conventions for both fixed and mobile cellular telephony networks have been consolidated where practicable in an attempt to effect parity across all networks. Furthermore, numbering capacity for new services are currently not available in the code ranges '11' to '19' as listed in SCHEDULE 1. In due course the Authority intends to make these code ranges available to both fixed and mobile networks.

Number Pooling

Number pooling is a mechanism used by many numbering administrations to increase the efficiency of number allocation to end users in a multi-carrier competitive environment. Pooled numbers essentially become a common or shared resource available to multiple carriers rather than blocks of numbers dedicated to a single carrier.

In the context of geographic numbers, number pooling means the sharing of *ABC codes* among multiple operators, service providers or carriers serving the same exchange area. All ten thousand

numbers within each ABC code continue to be associated with the same exchange area designation, but can be distributed among multiple service providers or carriers, typically at the thousand block (ABC-X) level.

Telephone numbering capacity is currently allocated in blocks of numbers to network operators. For certain types of numbers, including freephone numbers, local rate and premium rate numbers, the Authority may move away from this system in due course (*pending sector policy issues regarding a multi-carrier competitive environment in South Africa*) to one where numbers are allocated directly to the user by a central administration body. This means that, instead of approaching an operator or carrier for the number, the customer may obtain it from the central administration body. The customer would then approach the network operator of their choice in order to have service provided on that number.

PART A

RULES GOVERNING THE MANAGEMENT OF THE PRESCRIBED NUMBERING PLAN

A1 GUIDING PRINCIPLES

A1.1 General

- (1) The Prescribed Numbering Plan ("The Plan") is a national resource and the design, adoption and management of the Plan affects the national interest.
- (2) The Authority is responsible for managing the Plan and makes allocations and reservations of numbering capacity from the Plan to licensed operators who sub-allocate individual numbers to service providers and end users. Sub-allocated capacity remains part of the national resource managed by the Authority.
- (3) The following principles set out below (not necessarily in order of importance) may be taken into account in the management of the Plan.

A1.2 Flexibility to meet future needs

- (1) Numbering arrangements must be able to meet anticipated growth in demand for telecommunications services and cope with the rapidly changing telecommunications market place, to meet demand of new and as yet unknown services as well as a contingency for the growth of existing services.
- (2) The Plan should be organized and managed in a way that allows for good husbandry of the supply of numbers and provides reasonable capacity to be kept as a reserve for new services and future expansion of the Plan, with some entire ranges kept free for future uses.
- (3) The good husbandry of numbers should be encouraged and capacity conserved, particularly in areas of number shortage.
- (4) Numbering arrangements should result in efficient utilization of numbering space and facilitate new market and technological developments. They should, if and where possible and in accordance with the rules of the Plan, allow customers to move up the value chain from basic voice telephony to higher levels of service without needing a number change.

A1.3 Pro-competition

- (1) Numbering arrangements should support effective competition.

- (2) Companies with rights to numbering resource should receive fair and equal treatment with respect to access to numbers and allocation policy.
- (3) There should be no branding of numbers by operators as it impedes competition and can lead to customer confusion.

A1.4 Cost effectiveness

- (1) Developments to, and management of, the Plan should take into account costs and inconvenience to customers, operators and service providers. These should fall within reasonable bounds and change should be justified. They must also be technically feasible and reasonably practical to implement.
- (2) The Plan should be reasonably easy to manage and administer.

A1.5 Customer needs

- (1) The organization and management of the Plan should ensure that there are sufficient numbers to meet customers' needs.
- (2) The numbering arrangements should ensure, as far as possible, that numbers of different types give a broad indication of service/price. They should also take account of the need to associate particular tariffs with the first few digits of the called numbers to convey meaningful information to callers and to facilitate routing of calls by networks and customer premises equipment. However, the current tariff structure should not unduly constrain decisions or the evolution of the telecommunications market.
- (3) Any changes to the Plan should be managed in a way that causes minimum disruption, cost and inconvenience for customers.

A1.6 International developments

- (1) The Plan should take account of international developments and agreements and where appropriate be compatible with relevant international agreements, standards and recommendations.

A1.7 Consultation

- (1) Proposals to change the Plan should be subject to a process of consultation including representation from customers, service providers, suppliers and operators.

A2 APPLICATION CRITERIA

A2.1 Criteria for the eligibility of applicants for number allocations and reservations

- (1) All operators with licences granted individually to them under SECTION 33 of the Act containing a Relevant Numbering Condition are currently eligible to apply for allocations and reservations of numbering capacity.
- (2) At present such allocations apply to codes and blocks of numbers.
- (3) Others for whom the granting of a licence has been agreed in principle may be eligible to apply for reservations of numbering capacity.

A3 APPLICATION PROCEDURE

A3.1 Information to be supplied by an applicant for a numbering allocation or reservation

- (1) For the allocation or reservation of numbering capacity, the applicant shall provide the following information where relevant:
 - (a) name and address of applicant;
 - (b) details of the licence under which it operates;
 - (c) purpose or use of numbering allocation;
 - (d) preferred numbering code and block;
 - (e) geographic scope of the service;
 - (f) the dates by which the allocation is required;
 - (g) the date the service is planned to be operational;
 - (h) relationship with existing reservations or allocations;
 - (i) utilization of existing allocations:
 - (i) volume of numbers allocated to end users in service;
 - (ii) allocated but not in service; and
 - (iii) reserved.
 - (j) a forecast of expected utilization over a period of at least three years;
 - (k) statement that the numbers shall be used in accordance with the Numbering Conventions;
 - (l) if a new product will be launched and is proposed for use in the application for numbers, provide the estimated product life cycle and total quantity of expected numbers to be used;
 - (m) any other information that the applicant considers necessary or appropriate to justify the application and substantiate the need for the numbers, including any relevant tariff information;
 - (n) any other information judged by the Authority to be relevant to the application and the supply of which does not place an undue burden on the applicant;
- (2) The applicant shall indicate whether the information provided to the Authority in the application is commercially sensitive.

A3.2 Application forms

- (1) Standard application forms may be made available by the Authority.
- (2) Completed applications forms should be submitted to the Manager, Telecommunications Licensing (Numbering), Independent Communications Authority of South Africa.

A3.3 Timing of applications

- (1) Applications for numbering allocations should not in general be made more than nine months prior to the planned in-service date.

A3.4 Confidentiality of applications

- (1) This SECTION applies if an applicant claims that the information about the allocation and use of numbers is commercially sensitive, and the Authority considers the claim to be reasonable.
- (2) Notwithstanding the provisions of SECTION 93 of the Act, the Authority:
 - (a) must keep the information secure, and
 - (b) must not disclose the information, unless:
 - (i) the disclosure is for the Authority; or
 - (ii) the disclosure is required by the Act or another Act; or
 - (iii) the disclosure is authorized by the applicant; or
 - (iv) the information is relevant to a complex application, and:
 - (v) the disclosure is to an advisory committee assessing the application; and
 - (vi) the applicant has been consulted about the disclosure.

A3.5 Routine and complex applications

- (1) An application is a ***routine application*** only if the Authority believes that:
 - (a) the allocation would have no adverse implications for competitive service provision; and
 - (b) the allocation would have no adverse implications for the interests of end-users of telecommunication services.
- (2) A ***complex application*** is an application that is not a routine application.

A3.6 Authority may request more information

- (1) The Authority may request an applicant, in writing, to provide more information on matters mentioned in the application to allow it to consider an application.

A3.7 Acknowledgement of applications

- (1) The Authority shall, within 7 days of receiving the application, acknowledge the application and inform the applicant whether it is a routine or a complex application.

A4 CONSIDERATION OF APPLICATIONS

A4.1 Consideration of numbering allocations

- (1) When making number allocations within the Plan, the Authority will have regard to:
 - (a) the Guiding Principles in CONVENTION A1;
 - (b) the provisions of relevant licence conditions;
 - (c) the views of the applicant and other interested parties; and
 - (d) any other matters that the Authority regards as relevant.

A4.2 Consultation on applications

- (1) Additionally and in the exceptional circumstances described below, the Authority may choose to consult on the relevant details of an application for numbering capacity (or an application either for expansion of an existing allocation or for a change of use of an existing allocation). Such consultation may be, at the Authority's discretion and following discussion with the operator, either with interested parties or with its advisory committee (NAC).
- (2) Such consultation may normally take place in dealing with a complex application, or in the case where, in the Authority's judgement, the allocation of numbering capacity while consistent with the structure of the Plan and with the Conventions would be unusual or might set a precedent in such a way that the views of interested parties should be sought.
- (3) Such consultation may normally commence within 30 days of receipt of the application.
- (4) Where the Authority judges that consultation on any or all of the detail of an application may compromise the commercial details of the applicant organization, the Authority may take into account the views of the applicant on those details on which consultation should take place.
- (5) Where such a consultation has commenced, any comments on the application shall be sent to the Authority within 30 days of the date of publication, or any other period notified at the time of

consultation. The Authority may consider the responses and advise the applicant and respondents of its decision within a maximum period of 28 days from the end of the consultation period.

A4.3 Timescale for handling applications for numbering capacity

- (1) The Authority shall use all reasonable endeavours to make an allocation in accordance with the Conventions in response to applications for numbering capacity within a maximum period of 28 days from receipt of the application containing all the information required by CONVENTION A3.1.
- (2) Exceptions to this period may be:
 - (a) where additional information is required from the applicant;
 - (b) where a period of consultation is required, to be initiated by the Authority;
 - (c) where there are significant issues relating to the application that cannot be reasonably handled within that period; or
 - (d) where the Authority judges that an alternative period of time is justified.
- (3) Where the Authority judges that an exception to the normal period is required, then the Authority shall inform the applicant in writing of the reasons for the exception and of the revised period. This period may generally not exceed 90 days from receipt of the application containing all the information required by CONVENTION A3.1. The procedure set out in Convention A4.13 may apply to the extension of time periods.

A4.10 Refusal of applications for numbering capacity

- (1) The Authority may refuse an application for an allocation of numbering capacity, or may not grant the application in full, or may attach specific conditions to the allocation which are consistent with the Conventions and relate to the use and management of the numbering capacity allocated, having considered the application as set out in CONVENTION 3.1 and having taken into account the criteria for eligibility (defined in CONVENTION A2).
- (2) When the Authority refuses an application for numbering capacity, or does not grant the application in full, or attaches specific conditions to the allocation then the Authority shall inform the applicant, in writing, of the reasons for the above.
- (3) The Authority may, following consultation with the applicant, make an alternative allocation that has the potential to satisfy the applicant's requirements without conflicting with the criteria which caused the application to be refused.
- (4) Where the Authority refuses an application for numbering capacity, or does not grant the application in full, or attaches specific conditions to the allocation (on allocation or subsequently), the applicant may write to the Authority disputing the reasons given by the Authority for its decision or giving further information for consideration regarding the application. The Authority may consider the request and respond to the applicant within 28 days.

A5 HANDLING OF APPLICATIONS

A5.1 Dealing with application

- (1) The Authority must –

- (a) consider the application quickly to minimize delay in the launching of telecommunication services;
- (b) be responsive in giving information and assistance, as required, to the applicant;
- (c) be consistent in applying the matters mentioned in this Subdivision.

A5.2 Allocation on request (more than one request)

- (1) This SECTION applies if:
 - (a) more than one person applies for the allocation of a particular number; and
 - (b) the Authority decides to approve one of the requests.
- (2) The Authority must allocate the number to the person that made the first request.
- (3) If it is not apparent to the Authority which request was made first, the Authority must decide which request is taken to be made first in accordance with procedures determined by the Authority under SUBSECTION (4).
- (4) The Authority must determine, in writing, procedures for deciding which request is taken to be made first when it is not apparent to the Authority which request was made first.
- (5) If SUBSECTION (3) applies, the Authority must inform the other applicants how it determined which request was taken to be made first.

A5.3 Dealing with complex application

- (1) In deciding whether to allocate numbers to an applicant making a complex application, the Authority may consider any recommendation of its advisory committee, set up explicitly for this purpose.

A5.4 Numbers of broad geographic significance

- (1) Numbers of broad geographic significance must be allocated only:
 - (a) to meet the needs of customers who wish to make or keep common internal numbering arrangements across multiple geographically dispersed sites; or
 - (b) to improve numbering efficiency for service providers or customers with limited requirements for geographic numbers.

Note: For paragraph (1)(a), the Authority may allocate a customer a series of contiguous blocks of numbers of broad geographic significance, each block being made available for use exclusively within a single standard charging zone unit.

A5.5 Incoming only international numbers

- (1) The Authority may allocate an incoming only international number only if:
 - (a) the Authority has evidence of an agreement between the applicant and at least one (1) foreign telecommunications operator, and
 - (b) the agreement must be for international interconnection between a foreign public telecommunications network and the applicant's network that would allow routing of incoming only international calls.

A5.6 Conditional allocation

- (1) The Authority may allocate a number subject to conditions about the use of the number.
- (2) Before imposing a condition, the Authority may consult with an advisory committee.
- (3) Before allocating a number to any person, subject to conditions, the Authority must inform the person, in writing:
 - (a) that the Authority intends to allocate the number subject to conditions; and

- (b) the general content of the conditions.
- (4) The Authority:
 - (a) must give a copy of the conditions, to the person that is subject to the conditions, within 7 days after imposing the condition; and
 - (b) may give a copy of the conditions to a person who requests it.

A6 RESERVATIONS

A6.1 Reservation of numbering allocations

- (1) As well as making allocations of numbering capacity, the Authority may also have the ability to make reservations of numbering capacity. Reservations are intended to be used where:
 - (a) the applicant does not want to be identified; or
 - (b) the reason for the application should not be divulged prior to application for allocation; or
 - (c) a customer order has not been finalised; or
 - (d) a route for migrating numbers from another block or code needs to be identified.
- (2) A reservation may be made:
 - (a) in anticipation of an application being made for numbering capacity in accordance with a three-year rolling forecast provided by licensees entitled to apply for allocation; or
 - (b) against a specific request submitted by any organization eligible to receive allocations (for example for the expansion or growth of existing services or for the introduction of new services).
- (3) An application for a reservation should be made to the Numbering Unit at the Authority. The applicant shall provide to the Authority the information listed in CONVENTION A3 as appropriate.
- (4) Applications for the reservation of numbering capacity shall be treated in confidence by the Authority, where the applicant requests this, and may be subject to the same formal consultation procedure detailed in paragraph A4.2 where commercial confidentiality permits.
- (5) In evaluating applications for the reservation of numbering capacity, the Authority may take into account:
 - (a) the Guiding Principles in CONVENTION A1;
 - (b) the provisions of relevant licence conditions;
 - (c) the views of the applicant and other interested parties; and
 - (d) any other matters the Authority regards as relevant.
- (6) A reservation does **not** entitle operators to activate the capacity. Where numbering capacity is reserved, this does not guarantee that a corresponding allocation may subsequently be made. A subsequent request for allocation for the capacity may be considered by the Authority on the basis of the criteria set out under CONVENTION A3.

- (7) The time period for the Authority to respond to an application for a reservation shall be the same as for responding to an application for an allocation (A4.3).
- (8) Reservations may be time-limited. Unless a longer reservation is needed for the effective management of the Plan, the limit for reservations for geographic number ranges may in most cases be three months; for other ranges the period may in most cases be nine months. Reservations may be renewable on request to the Authority.
- (9) Once a reservation has been made then that numbering capacity is unavailable for allocation except for the purpose and/or to the organization for whom the reservation was made. However, the reservation may be cancelled or changed by the Authority if:
 - (a) the time-limit has expired;
 - (b) the applicant withdraws the reservation; or
 - (c) the Authority and the applicant agree a substitution
 - (d) taking into account A6.5 above.

A7 NOTIFICATIONS OF BRINGING INTO SERVICE

- (1) It shall be the responsibility of the holder of the numbers allocated to negotiate with and to notify relevant South African operators and, where appropriate, foreign authorities regarding the implementation of allocations within the timescales agreed between the organization and the operators concerned.
- (2) Operators and others to whom allocations of numbering capacity have been made are required to advise the Authority of the contact in their organizations who is to receive notifications of the dates for activation of the allocated codes and number blocks when bringing into service. The Authority may maintain a list of such contacts and may make it available on request.

A8 CONDITIONS OF USE OF AN ASSIGNMENT OF THE NUMBERING RESOURCE

A8.1 Ownership and rights of use

- (1) Telephone numbers are a national resource and are not owned by a person to whom they are assigned or issued.
- (2) A customer to whom a telephone number has been legitimately issued may enjoy the beneficial use of the number, freely and without hindrance.
- (3) A customer to whom a telephone number has been legitimately issued is entitled to continued and indefinite use of the number while an appropriate telecommunication service is provided using the number.

A8.2 General conditions

- (1) The following general conditions relating to the use and management of numbering capacity apply to all allocations made by the Authority:
 - (a) the allocation must be used for the purpose specified in the application;
 - (b) the allocation must be controlled by the original applicant. This does not however prevent the recipient making sub-allocation to others from within the numbering range provided that the sub-allocation is for the use specified in the application and in line with the Conventions;
 - (c) the holder of the allocation must maintain a record of the percentage of numbers in use and reserved;
 - (d) numbering capacity must not be traded; and
 - (e) the allocation must be used in accordance with any specific conditions made by the Authority including any classification by type or tariff.

A8.3 Specific conditions

- (1) At the time of allocating numbering capacity or at any time thereafter the Authority may, at its discretion, apply a number of specific conditions of use to that allocation where the Authority considers that it is in the interest of the Plan to impose such conditions. The conditions shall be consistent with the Conventions and relate to the use and management of numbering capacity allocated. The procedure set out in CONVENTION A4.10(4) shall apply to the making of conditions.

A9 WITHDRAWAL OF NUMBERING ASSIGNMENTS

- (1) The Authority may only withdraw allocated capacity, or part of such capacity, if the continued allocation is not in line with:
 - (a) the Numbering Conventions; or
 - (b) the Plan; or
 - (c) any specific conditions applied to that numbering allocation; or
 - (d) where there are overriding South African national interests.
- (2) Withdrawal of an in-service numbering allocation may only be made after the Authority has consulted with interested parties where the Authority considers it appropriate, with end users affected by the withdrawal and normally will be subject to a period of notice of not less than three months following the consultation. The Authority may consult with an advisory committee, for example the NAC, on an ad hoc basis or convened expressly for this purpose.
- (3) If an allocation, or part of an allocation, is not brought into service within a reasonable time, it may be withdrawn.

A10 INFORMATION ABOUT CHANGES TO ASSIGNMENTS

- (1) Operators and others to whom allocations of numbering capacity have been made are required to apply to the Authority to make any changes:
 - (a) to the ownership of the block or code;
 - (b) to the purpose or use of numbering allocation; or

- (c) which relate to conditions of use placed on the allocation.

A11 AUDIT PROCESS DATA

- (1) The Authority may specify information that is required for an Annual Audit of allocated numbers. Each holder of an allocation of numbers shall submit to the Authority, each year, the information as required by the Authority from time to time. The Annual Audit information may normally specify the following for each allocation:
- (a) the current use of the allocation;
 - (b) the utilization percentage of numbers which have been allocated to end users or which for other reasons are unavailable for further allocation - the reasons for unavailability should be specified;
 - (c) the allocation of blocks of numbers to any person for purposes other than end use;
 - (d) the overall percentage utilization of all assigned numbers;
 - (e) forecasts of demand within significant ranges specified by the Authority;
 - (f) where numbering capacity has been reserved for an organization, the justification for continuing reservation of the numbering capacity; and
 - (g) any other information requested by the Authority. (The Authority may not require information where the collection or analysis of the information would place an undue burden on the organization submitting the data.)
- (2) The information shall be supplied in a format acceptable to the Authority.
- (3) The data collected may be summarised in a non-commercially sensitive form in the Annual Report produced by the Authority.

A12 PRESCRIBED NUMBERING PLAN RECORDS

- (1) The Authority may maintain comprehensive records of the states of all number ranges, codes and blocks of numbers comprising the Plan. The prescribed Numbering Plan records may be described in a list kept by the Authority and made available by the Authority for public inspection. In addition, the Authority may publish and periodically update a simplified table of allocated codes (the 'Code List').

A13 ANNUAL NUMBERING REPORT

- (1) The Authority may prepare an annual report on the organization and use of the Plan for publication in April each year, commencing from the first April month after the promulgation of this regulation.

A14 REVIEW PROCEDURE

- (1) The Authority may initiate a review of its provisions not later than two years after the adoption of the Conventions (including revisions). Thereafter the Authority may undertake reviews from time to time as appropriate. Requests to undertake a review may be submitted at any time by any operator, service provider, user or other, and these requests must be considered by the Authority.
- (2) The Authority may from time to time amend or withdraw a Convention already published or publish additional Conventions, after consultation with interested parties. The Authority may consult with an advisory committee, for example the NAC, on an ad hoc basis or convened expressly for this purpose. The Authority may afford a reasonable period, not being less than 28 days, for them to make representations. The Authority may give reasonable notice, not being less than three months, to operators to comply with any such amendment or withdrawal of a Convention.
- (3) In deciding the details of and any subsequent change to Conventions, the Authority may have regard to:
 - (a) the Guiding Principles in CONVENTION A1;
 - (b) the provisions of relevant licence conditions;
 - (c) the views of the applicant and other interested parties; and
 - (d) any other matters that the Authority regards as relevant.
- (4) Requests for amendments to Conventions and for new Conventions may be made at any time to the Authority.

A15 STANDARDS

- (1) To the maximum practical extent, the prescribed Numbering Plan ("the Plan") shall conform with the relevant and applicable international standards. Particular attention is drawn to the following Recommendations of the ITU:

Telephony (ISDN) numbering plans

- E.161, Arrangements of figures, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network
- E.164, Numbering plans for the ISDN Era
- E.166, Numbering plan interworking for the E.164 and X.121 numbering plans
- E.167, ISDN network identification codes
- E.168, Application of E.164 numbering plan for UPT
- E.169, Numbering plan for UIFN service
- E.212, Identification plan for land mobile stations

- E.213, Telephone and ISDN Numbering plan for land mobile stations in public land mobile networks (PLMN)

Data numbering plans

- X.121, International numbering plan for public data networks (DNIC)
- X.122, same text as E.166

Telex numbering plans

- F.69, The international telex service - Service and operational provisions of telex destination codes and telex network identification codes (TNIC)

- (2) The country code allocated by the ITU-T to South Africa is 27. This code follows the international dialling prefix on calls made from outside South Africa, and should be followed by the national significant number of South African destination excluding the national dialling prefix "0".
- (3) Particular attention is drawn to E.164 which states that the maximum number of digits that a national system is expected to handle on an outgoing international call is currently 15 (excluding the international dialling prefix).
- (4) The Plan shall use the decimal character set 0-9 for all number allocations. Letters and other non-decimal characters shall not be allocated to form any part of the national significant number.
- (5) The prefix "0" followed by the nine digits of a national significant number shall be used for all South African national calls and for locally dialled calls after the introduction of a closed numbering plan as contemplated in SECTIONS 1.2 and 4.3.1 of this Regulation.
- (6) The prefix "00", following the migration from code "09", shall be used for international dialling. The prefix "00" shall be followed by the digits of the country code and the national significant number.
- (7) Considerable benefit can be obtained from consistent forms of number presentation. For the Plan, the Authority recommends a "three-three-four" number format for all ten-digit numbers, for example:

(a) Geographic number format

(012) 345 6789
012 345 6789

(b) Non-geographic format

080 345 6789
082 345 6789

A16 STRUCTURE OF THE PLAN

- (1) The national significant number shall be normally nine digits, notated by the alphabetical sequence "NNABCXXXX", for example '123456789' represents a geographic number in the Pretoria area.
- (2) The structure of the Plan is as follows (with the trunk digit "0" and initial (N) digit identifying the range):
 - (a) "00" Designated for the international dialling prefix, used to escape from national to international dialling.
 - (b) "01" to "05" The Geographic Numbering Range, digits 1-5 indicating the five primary numbering areas in South Africa.
 - (c) "06" Reserved for PSTN growth.
 - (d) "07" Designated for mobile cellular service growth.
 - (e) "08" Designated for mobile cellular, paging, GMPCS and Telkom Inbound Call Services.
 - (f) "09" Reserved for PSTN growth.

A17 GEOGRAPHIC NUMBERING RANGES

(see SCHEDULE 2 and SCHEDULE 3)

- (1) In the Plan the "01" to "05" ranges have been designated for Geographic Numbering; and the "06" and "09" ranges shall be kept in reserve for potential future geographic use.
- (2) In the Plan, local and broad geographic significance shall be used to the maximum practical extent. In particular, local geographic significance shall be preserved in the multi-exchange areas (MEA) listed in SCHEDULE 3.
- (3) The Authority may monitor the supply and demand for numbering capacity within the codes of the area numbering range and make proposals for overcoming any shortages that may be foreseen.
- (4) In deciding how '0NN' codes should be used in any particular situation, the Authority may consult with an advisory committee, for example the NAC, on an ad hoc basis or convened expressly for this purpose, and may take into account the following factors:
 - (a) areas likely to be affected by number shortages;
 - (b) anticipated growth in demand for numbers;
 - (c) demographic and business trends;
 - (d) tariff and other market developments;
 - (e) the existence of "communities of interest";
 - (f) the need for efficient utilization of numbering resources; and
 - (g) any representations received on behalf of local communities.

PART B**PUBLIC SWITCHED TELEPHONE NETWORKS****B1 NUMBERING EFFICIENCY**

- (1) Where practicable, numbers shall be used at all times in the most economical manner possible.
- (2) For numbers mentioned in SCHEDULE 3, a practical utilization level of 75% shall be required for existing number blocks that are not pooled numbers, prior to any subsequent allocation of additional number blocks. The degree of usage shall be calculated as follows:

$$\text{degree of usage} = \frac{\text{total quantity of numbers used by customers within a local geographic precinct (area of local geographic significance)}}{\text{total quantity of numbers issued in the same geographic area}} \times 100$$

B2 UNIT SIZE

- (1) The units in which number blocks that are not pooled numbers may be allocated to operators are:

Geographic numbers	For numbers mentioned in SCHEDULE 3— a block of 1,000 numbers For numbers <u>not</u> mentioned in SCHEDULE 3—a block of 10,000 numbers
Access codes	Individually
Non-geographic services numbers of 10 digits	a block of 10,000 numbers
Non-geographic services numbers not of 10 digits	Individually

- (2) If a unit size has not been mentioned in SUBSECTION (1) for the allocation of a type of number, the Authority may determine, in writing:
- (a) a unit size for the number; or

- (b) a unit size that is appropriate for the number in circumstances mentioned in the determination.
- (3) A unit size determined under SUBSECTION (2) for a number must be consistent with the number analysis capabilities of telecommunications networks operated in South Africa.
- (4) Assignment of an amount of numbers greater than the unit size
Assignment greater than the unit size shall be justified by market need or other special factors.

B3 IN-SERVICE DATE

- (1) Numbers assigned to access codes and non-geographic services shall be in service within a reasonable time after assignment.

B4 OTHER LICENCED OPERATORS

- (1) The Authority may assign an initial supply of numbers to Other Licensed Operators (OLO). This may be on the basis of the normal predicted growth of new customers for a period of two years from the commencement date of the Licence. Thereafter numbers may be assigned to OLOs in accordance with the Numbering Conventions of SECTION 5.3.

PART C**PUBLIC LAND MOBILE NETWORKS****C1 PRIMARY ASSIGNMENT**

- (1) Each network operator has been assigned an initial supply of 10 million numbers, viz. '082', '083' and '084' ranges. The assignment of additional ranges shall be linked in subsequent applications to evidence of the degree of utilization of the numbers already assigned and the market need for further assignment.
- (2) The '0721' and '0722' ranges have been allocated to Vodacom and '0731' and '0732' ranges to MTN subject to the proviso that numbers are for exclusive use with Pre-Paid customers.

C2 NUMBERING EFFICIENCY

- (1) The assignment of a number must, if practicable, lead to the efficient use of the number.
- (2) The assignment of short codes, other than to emergency services and for internal network purposes, shall be restricted to less than ten percent (10%) of the total quantity of numbers issued by primary assignment. To facilitate numbering efficiency, the Authority recommends that operators restrict short codes to a single range within the allocated numbering space, viz. The '0821', '0831' and '0841' ranges.

(3) Level Of Utilization

- (a) The level of utilization is computed by the formula-

$$\text{degree of usage} = \frac{\text{total quantity of numbers used by customers or used for internal network purposes}}{\text{total quantity of numbers issued by primary assignment}} \times 100$$

- (b) Any level of utilization greater than seventy-five percent (75%) should be regarded as reasonable justification of the need for an additional number range, although this factor should not be regarded on its own as an automatic trigger for the additional assignment.

(4) Factors to be considered by the Authority

- (a) In any application for an additional number range the Authority shall consider:

- (i) Projected customer demand for numbers. In particular, demand projections over the next 12 to 18 months should be taken into account together with any seasonal patterns of demand that argue for assignment of a quantity greater than the unit size.
- (ii) Level of utilization as contemplated in CONVENTION C2(3)
- (iii) Reasonable inventory of numbers in secondary and tertiary stages of management. This takes account of an applicants' need to maintain a reasonable inventory of numbers in order to meet fluctuations in customer demand, and the market structure for the particular service. The more vertical levels there are in the management process before a number is issued to an end user, for example operator -to- service provider -to- dealer -to- customer, the more inventories of numbers that may be needed and the greater may be the need for numbers by the applicant. The number of vertical levels in the numbering assignment process should be kept to a minimum and the direct assignment to end-users should be encouraged.
- (iv) International trends and benchmarks.
- (v) Convergence of fixed and mobile networks.
- (vi) Other special factors. Initially, mobile cellular operators have been forced to continue to utilize their 08x ranges for the implementation of special services and short codes. Until a common range of numbers is accessible to all operators (for example '11X' to '19X' ranges), it may be extremely difficult for the mobile cellular operators to obtain high utilization efficiency of the affected number sub-ranges, which are utilized to support special services and short codes.

(5) Withholding Assignment of Additional Numbers

- (a) The Authority may reserve the right to withhold the assignment of additional numbers if the utilization rate for numbers held by primary assignment is less than the specified threshold specified in convention C2(3).

C3 UNIT SIZE

- (1) The unit size for the primary assignment of numbers is one (1) million numbers.

(2) Assignment of an amount of numbers greater than the unit size

Assignment greater than the unit size shall be justified by market need or other special factors.

C4 IN-SERVICE DATE

- (1) Numbers assigned to mobile services shall be in service within a reasonable time after assignment.

SCHEDULES**SCHEDULE 1 - NON-GEOGRAPHIC SERVICE CODES**

NON-GEOGRAPHIC SERVICE CODES			
Column 1 Number prefix	Column 2 Type of service	Column 3 Number structure	Column 4 Special arrangements about use of the number after a particular date (if any)
11	Community services and Mass dialling	3, 4, 5, 6, 7, 8, 9 or 10 digit number	
112	National emergency	3 digit number	
119	Telkom Maxinet (presently '089')	10 digit number	Available for use after 08 May 2002
12	Operator services	3, 4, 5, 6, 7, 8, 9 or 10 digit number	
13	Local rate services	6, 8 or 10 digit number	
14	Service provider access & pre- selection override codes	4 digit number	
15	UPT	10 digit number	
18	Special network services	6, 8 or 10 digit number	
19	Premium rate services	6, 8 or 10 digit number	
080	Telkom Freecall	10 digit number	

NON-GEOGRAPHIC SERVICE CODES			
Column 1 Number prefix	Column 2 Type of service	Column 3 Number structure	Column 4 Special arrangements about use of the number after a particular date (if any)
081	Interim GMPCS	10 digit number	Not for use after 08 May 2002
082	Vodacom	10 digit number ¹⁷	
083	MTN	10 digit number ¹⁸	
084	3 rd Cell	10 digit number ¹⁹	
086	Telkom Inbound call services	10 digit number	
088	Paging	10 digit number	
089	Telkom Maxinet ²⁰	10 digit number	Not for use after 08 May 2002
0721	Vodacom Prepaid	10 digit number	
0722	Vodacom Prepaid	10 digit number	
0723	Vodacom Prepaid	10 digit number	
0724	Vodacom Prepaid	10 digit number	
0731	MTN Prepaid	10 digit number	
0732	MTN Prepaid	10 digit number	

¹⁷ May be expanded to access special mobile cellular services, e.g. facsimile. Short codes may be used in the 0821 level.

¹⁸ May be expanded to access special mobile cellular services, e.g. facsimile. Short codes may be used in the 0831 level.

¹⁹ May be expanded to access special mobile cellular services, e.g. facsimile. Short codes may be used in the 0841 level.

²⁰ Telkom Maxinet will migrate to the new designated code by 08 May 2002. Thereafter code '089' shall be available for GMPCS.

SCHEDULE 2 - GEOGRAPHIC NUMBERS

GEOGRAPHIC NUMBERS			
Column 1 Area code	Column 2 Area or Charging zone	Column 3 National number structure	Column 4 Special arrangements about use of the number after a particular date (if any)
(013)	Nelspruit/ Witbank/ Middelburg	(013) area code followed by 7 digit customer number	
(014)	Nylstroom/ Rustenburg	(014) area code followed by 7 digit customer number	
(015)	Pietersburg/ Potgietersrus/ Louis Trichardt	(015) area code followed by 7 digit customer number	
(016)	Vereeniging/ Meyerton	(016) area code followed by 7 digit customer number	
(017)	Secunda/ Ermelo/ Standerton	(017) area code followed by 7 digit customer number	
(018)	Potchefstroom/ Klerksdorp/ Mmabato	(018) area code followed by 7 digit customer number	
(020)	Beaufort West	(020) area code followed by 7 digit customer number	Not for use after 01 April 2004
(022)	Malmesbury/ Picketburg	(022) area code followed by 7 digit customer number	
(023)	Worcester/ Beaufort Wset	(023) area code followed by 7 digit customer number	
(026)	Piketberg	(026) area code followed by 7 digit customer number	Not for use after 01 April 2004
(027)	Vredendal/ Springbok	(027) area code followed by 7 digit customer number	
(028)	Caledon/ Swellendam	(028) area code followed by 7 digit customer number	

GEOGRAPHIC NUMBERS			
Column 1 Area code	Column 2 Area or Charging zone	Column 3 National number structure	Column 4 Special arrangements about use of the number after a particular date (if any)
(032)	Stanger/ Verulam/Tongaat/ Cato Ridge	(032) area code followed by 7 digit customer number	
(033)	Pietermaritzburg	(033) area code followed by 7 digit customer number	
(034)	Newcastle	(034) area code followed by 7 digit customer number	
(035)	Empangeni	(035) area code followed by 7 digit customer number	
(036)	Ladysmith	(036) area code followed by 7 digit customer number	
(039)	Port Shepstone	(039) area code followed by 7 digit customer number	
(040)	Bisho	(040) area code followed by 7 digit customer number	Not for use after 01 April 2004
(042)	Uitenhage/ Somerset East	(042) area code followed by 7 digit customer number	Not for use after 01 April 2004
(043)	East London	(043) area code followed by 7 digit customer number	
(044)	George	(044) area code followed by 7 digit customer number	
(045)	Bisho	(045) area code followed by 7 digit customer number	Not for use after 01 April 2004
(046)	Uitenhage/ Port Alfred/ Grahamstown	(046) area code followed by 7 digit customer number	Not for use after 01 April 2004
(047)	Umtata	(047) area code followed by 7 digit customer number	

GEOGRAPHIC NUMBERS			
Column 1 Area code	Column 2 Area or Charging zone	Column 3 National number structure	Column 4 Special arrangements about use of the number after a particular date (if any)
(048)	Uitehage/ Cradock	(048) area code followed by 7 digit customer number	Not for use after 01 April 2004
(049)	Middelburg/ Graaff-Reinet	(049) area code followed by 7 digit customer number	Not for use after 01 April 2004
(052)	Bultfontein	(052) area code followed by 7 digit customer number	Not for use after 01 April 2004
(053)	Kimberley	(053) area code followed by 7 digit customer number	
(054)	Upington	(054) area code followed by 7 digit customer number	
(056)	Kroonstad	(056) area code followed by 7 digit customer number	
(057)	Welkom	(057) area code followed by 7 digit customer number	
(058)	Bethlehem	(058) area code followed by 7 digit customer number	
(059)	Marydale	(059) area code followed by 7 digit customer number	Not for use after 01 April 2004

SCHEDULE 3 - NUMBERS OF GEOGRAPHIC SIGNIFICANCE

PART 1 - NUMBERS OF LOCAL GEOGRAPHIC SIGNIFICANCE

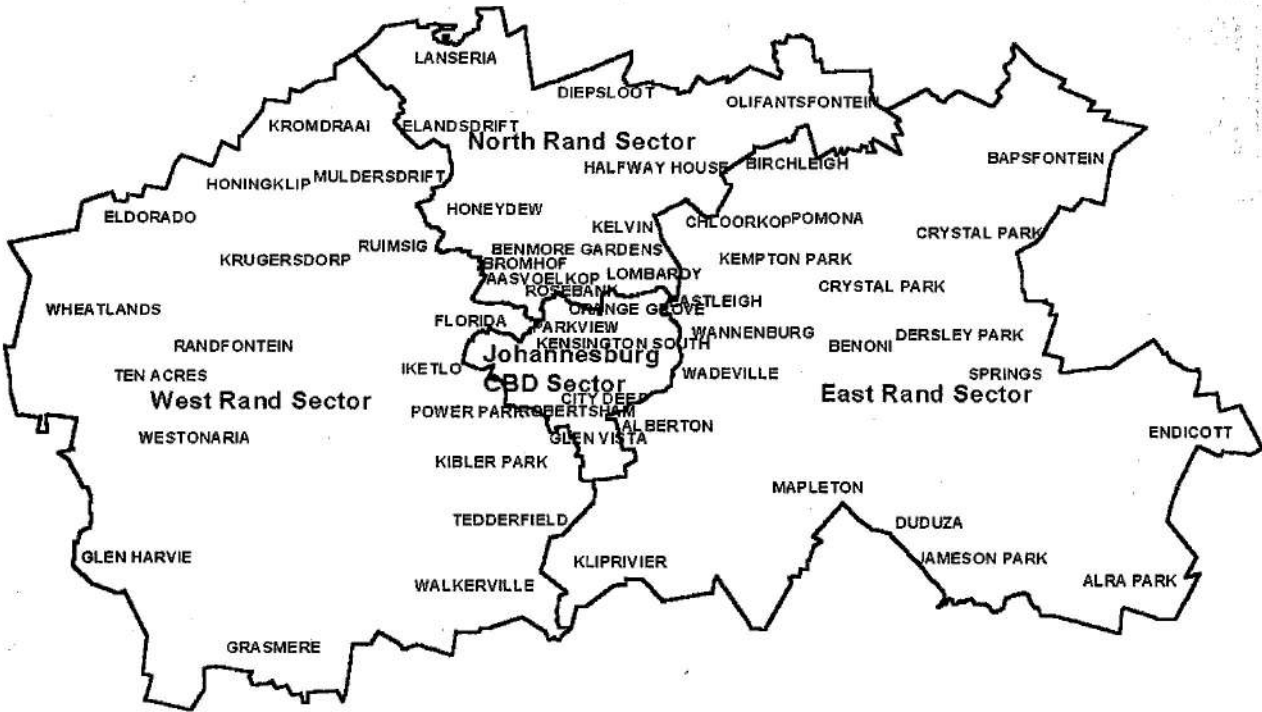
Maps showing the boundaries of geographic sectors for a metropolitan area are included after the table that sets out the sectors and associated numbers for the metropolitan area.

Gauteng Central Metropolitan Exchange Area

New area code overlay '010'

Sector or area	Numbers in sector or area
Johannesburg CBD sector	Numbers starting with (010) 2, (010) 3
North rand sector	Numbers starting with (010) 4, (010) 5
West rand sector	Numbers starting with (010) 6, (010) 7
East rand sector	Numbers starting with (010) 8, (010) 9

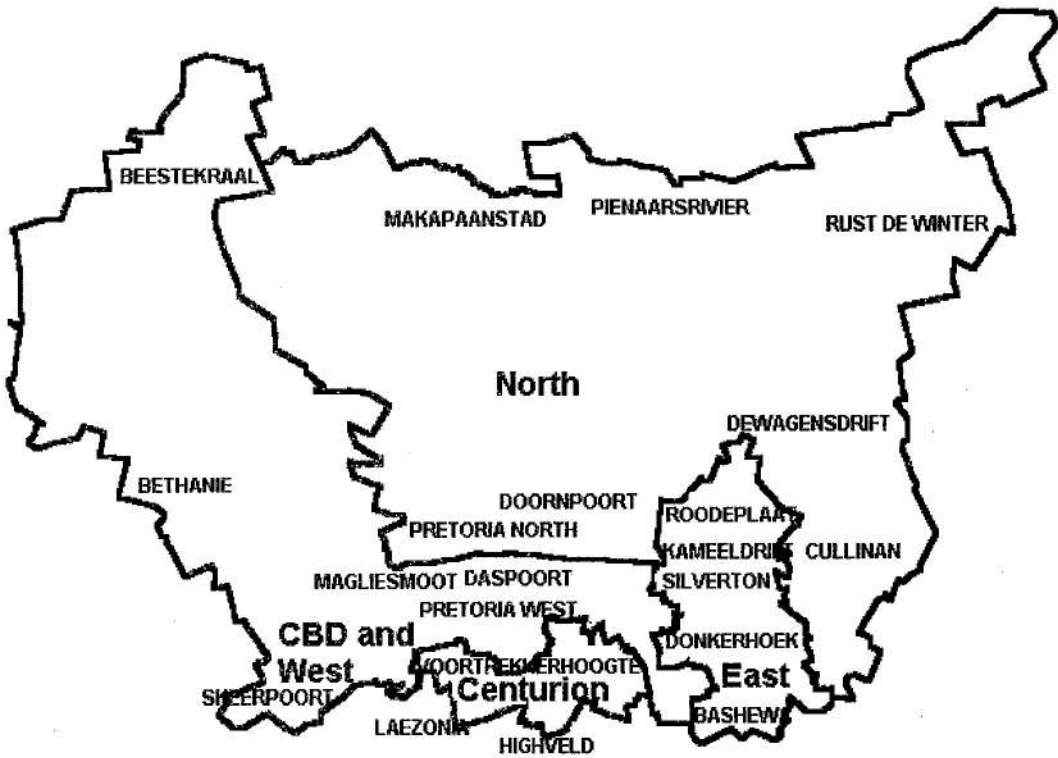
Map Of Gauteng Central Sectors



Pretoria Metropolitan Exchange Area

Sector or area	Numbers in sector or area
Pretoria CBD sector & Pretoria West sector	Numbers starting with (012) 2, (012) 3, (012) 4
Pretoria North sector	Numbers starting with (012) 5, (012) 7
Centurion sector	Numbers starting with (012) 6
Pretoria East sector	Numbers starting with (012) 8, (012) 9

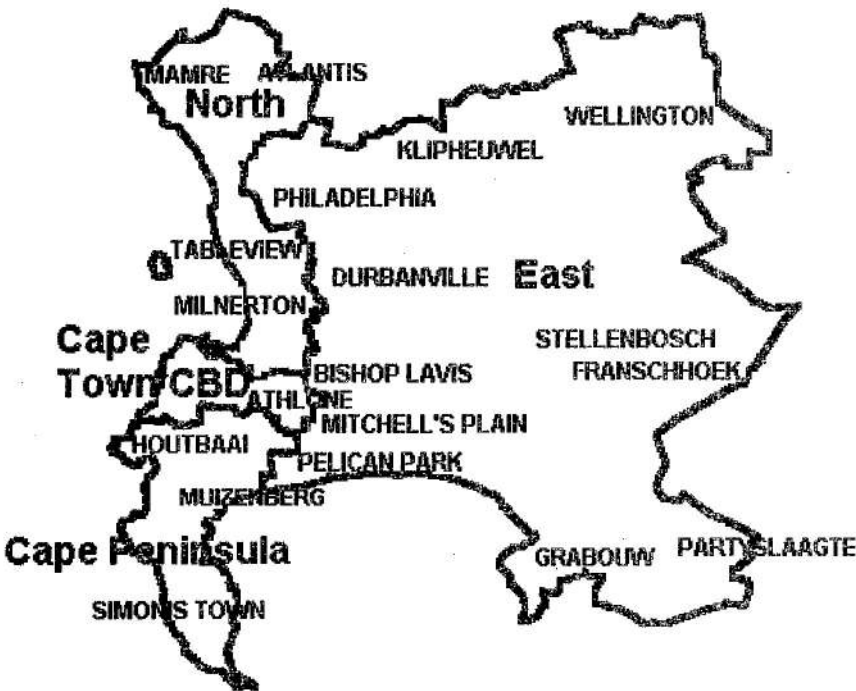
Map of Pretoria MEA Sectors



Cape Town Metropolitan Exchange Area

Sector or area	Numbers in sector or area
Cape Town CBD sector	Numbers starting with (021) 4, (021) 6
North sector	Numbers starting with (021) 5,
Cape Peninsula sector	Numbers starting with (021) 7
East sector	Numbers starting with (021) 3, (021) 8, (021) 9

Map of Cape Town MEA Sectors



Durban Metropolitan Exchange Area

Sector or area	Numbers in sector or area
Durban Central sector	Numbers starting with (031) 2, (031) 3, (031) 4
Durban North sector	Numbers starting with (031) 5, (031) 8
Kloof/ Pinetown sector	Numbers starting with (031) 7
Amanzimtoti sector	Numbers starting with (031) 9

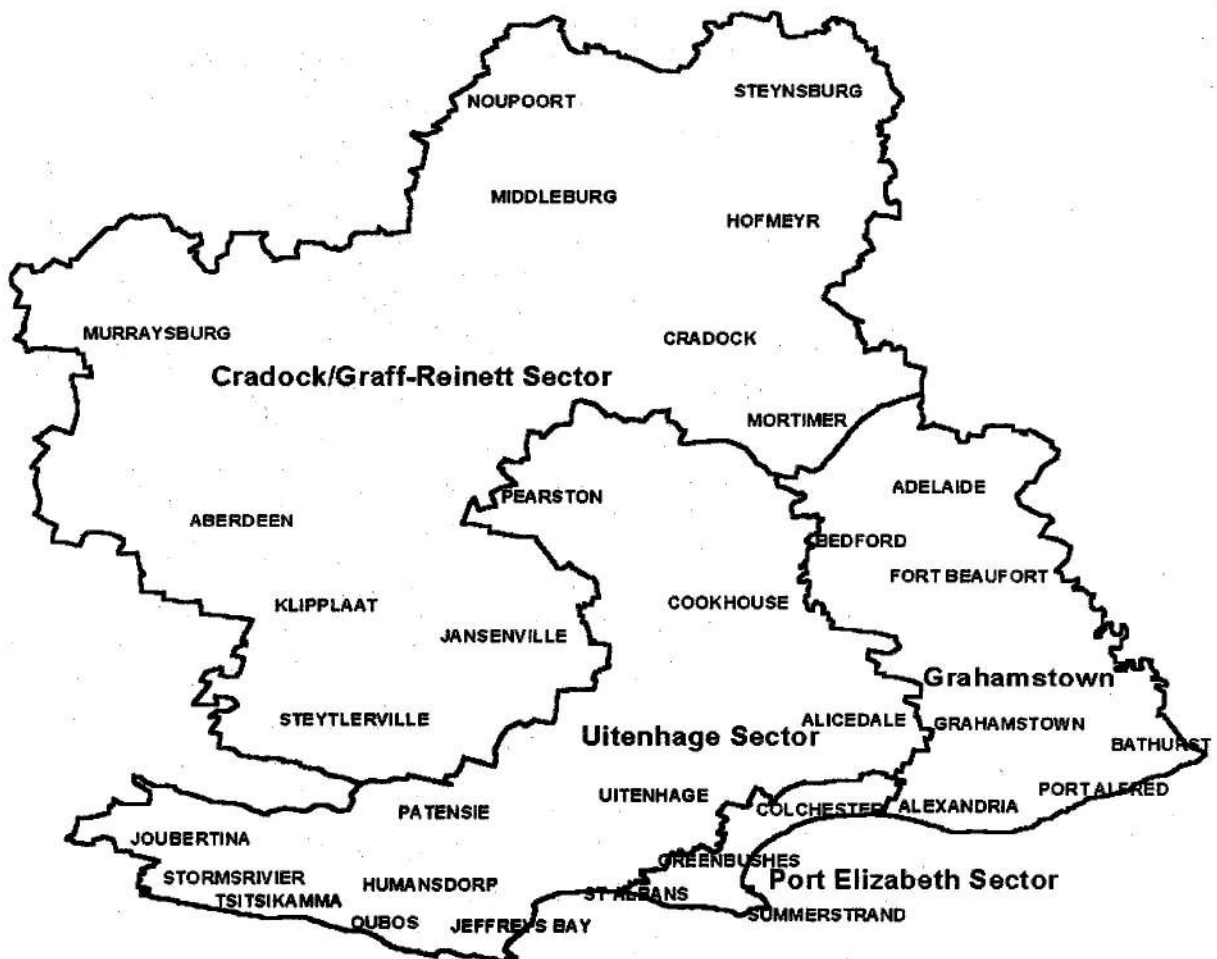
Map of Durban MEA Sectors



Port Elizabeth Metropolitan Exchange Area

Sector or area	Numbers in sector or area
Port Elizabeth Central sector	Numbers starting with (041) 3, (041) 4, (041) 5
Uitenhage sector	Numbers starting with (041) 2, (041) 9
Cradock/ Graaff-Reinet sector	Numbers starting with (041) 8
Grahamstown	Numbers starting with (041) 6

Map of Port Elizabeth MEA Sectors



Bloemfontein Metropolitan Exchange Area

Sector or area	Numbers in sector or area
Bloemfontein Central sector	Numbers starting with (051) 2, (051) 3, (051) 4, (051) 5
North sector	Numbers starting with (051) 8
South sector	Numbers starting with (051) 6
West sector	Numbers starting with (051) 7
East sector	Numbers starting with (051) 9

Map of Bloemfontein MEA Sectors



PART 2 - NUMBERS OF BROAD GEOGRAPHIC SIGNIFICANCE

Numbers of broad geographic significance may be allocated in the multi-exchange areas mentioned in the following table. The numbers to be allocated in each geographic sector are also shown in the table.

MEA	Broad geographic significance
Gauteng central	Numbers starting with (010) 0, (011) 0
Pretoria	Numbers starting with (012) 0
Cape Town	Numbers starting with (021) 0
Durban	Numbers starting with (031) 0
Port Elizabeth	Numbers starting with (041) 0
Bloemfontein	Numbers starting with (051) 0

SCHEDULE 4 - ABC CODE RANGES RESERVED FOR FUTURE USE**Gauteng Central Area**

011			
201	531	588	995
202	532	589	996
214	533	590	997
215	534	591	
216	535	592	
217	537	593	
218	538	594	
219	539	595	
246	540	596	
271	541	597	
273	542	598	
274	543	599	
276	544	604	
277	545	657	
278	546	661	
361	547	666	
369	548	667	
372	549	669	
375	550	690	
379	551	691	
381	552	694	
388	553	695	
418	554	697	
429	556	699	
431	557	731	
479	558	732	
501	559	745	
503	560	746	
504	561	758	
505	562	759	
506	563	772	
507	564	785	
508	565	840	
509	566	841	
510	567	842	
511	568	843	
512	569	844	
513	570	847	
514	571	848	

011			
515	572	853	
516	573	856	
517	574	858	
518	575	870	
519	576	891	
520	577	895	
521	578	911	
522	579	912	
523	580	919	
524	581	944	
525	582	959	
526	583	990	
527	584	991	
528	585	992	
529	586	993	
530	587	994	

North Eastern Area

012	013	014	015	016	017	018
200	200	200	201	200	200	200
201	201	201	202	201	201	201
202	202	202	203	202	202	202
203	203	203	204	203	203	203
204	205	204	205	204	204	204
206	206	205	206	205	205	205
208	207	206	207	206	206	206
209	208	207	208	207	207	207
210	209	208	209	208	208	208
211	210	209	210	209	209	209
212	211	210	211	210	220	210
213	212	211	212	211	221	211
214	213	212	213	212	222	212
215	215	213	214	213	223	213
216	217	214	215	214	224	214
217	220	215	216	215	225	215
218	221	216	217	216	226	216
219	222	217	218	217	227	217
221	223	218	219	218	228	218
222	224	219	220	219	229	219
223	225	220	222	220	230	220
224	226	221	240	221	231	221

012	013	014	015	016	017	018
230	227	222	241	222	232	222
231	228	223	242	223	233	223
232	229	224	243	224	234	224
233	232	225	244	225	235	225
234	233	226	245	226	236	226
235	239	227	246	227	237	227
236	258	228	247	228	238	228
237	259	229	248	229	239	229
238	270	230	249	230	240	230
239	274	231	260	231	241	231
240	275	232	261	232	242	232
245	276	233	262	233	243	233
246	277	234	264	234	244	234
247	278	235	265	235	245	235
248	279	236	270	236	246	236
249	280	237	271	237	247	237
262	281	238	272	238	248	238
263	284	239	273	239	249	239
264	285	240	274	240	250	240
265	286	241	275	241	251	241
266	287	242	277	242	252	242
267	288	243	278	243	253	243
268	289	244	279	244	254	244
269	290	245	280	245	255	245
271	299	247	281	246	256	246
272	300	248	282	247	257	247
273	301	249	283	248	258	248
274	302	253	284	249	259	249
275	303	254	285	250	260	250
276	304	255	286	251	261	251
278	305	256	301	252	262	252
279	306	257	313	253	263	253
280	307	258	314	254	264	254
281	308	260	315	255	265	255
282	309	263	316	256	266	256
283	310	264	317	257	267	257
284	311	265	319	258	268	258
285	312	266	320	259	269	259
286	313	267	321	260	270	260
287	314	268	322	261	271	261
288	315	269	323	262	272	262
289	316	270	324	263	273	263
290	317	271	325	264	274	267

012	013	014	015	016	017	018
291	318	272	326	265	275	268
292	319	273	327	266	276	269
293	320	274	329	267	277	270
294	321	275	330	268	278	271
295	322	276	331	269	279	272
296	323	277	332	270	280	273
297	324	278	333	271	281	274
298	325	279	334	272	282	275
299	326	280	335	273	283	276
356	327	281	336	274	284	277
357	328	282	337	275	285	278
358	329	283	338	276	286	279
359	330	284	339	277	287	300
382	331	285	340	278	288	301
383	332	286	341	279	289	302
384	333	287	342	280	290	303
388	334	288	343	281	291	304
389	335	289	344	282	292	305
391	336	290	346	283	293	306
392	337	291	347	284	294	307
393	338	292	348	285	295	308
394	339	293	349	286	296	309
395	340	294	350	287	297	310
396	341	295	351	288	298	311
397	342	296	352	289	299	312
400	343	297	353	290	300	313
405	344	298	354	291	301	314
406	345	299	356	292	302	315
407	346	300	357	293	303	316
408	347	301	358	294	304	317
409	348	302	359	295	305	318
410	349	303	360	296	306	319
411	350	304	361	297	307	320
412	351	305	362	298	308	321
413	352	306	364	299	309	322
414	353	307	365	300	310	323
415	354	308	366	301	311	324
416	355	309	367	302	312	325
417	356	310	368	303	313	326
418	357	311	369	304	314	327
419	358	312	370	305	315	328
423	359	313	371	306	316	329
424	360	314	372	307	317	330

012	013	014	015	016	017	018
425	361	315	373	308	318	340
451	362	316	374	309	319	341
452	363	317	375	310	320	342
453	364	318	376	311	321	343
454	365	319	377	312	322	344
455	366	320	378	313	323	345
456	367	321	379	314	324	346
457	368	322	380	315	325	347
458	369	323	381	316	326	348
459	370	324	382	317	327	349
470	371	325	384	318	328	350
471	372	326	385	319	329	355
472	373	327	387	320	330	356
473	374	328	388	321	331	357
474	375	329	389	322	332	358
475	376	330	390	323	333	359
476	377	331	391	324	334	370
477	378	332	392	325	335	371
478	379	333	393	326	336	372
479	380	334	394	327	337	373
485	381	335	396	328	338	374
486	382	336	398	329	339	375
487	383	337	399	330	340	376
488	384	338	400	331	341	377
489	385	339	401	332	342	378
490	386	340	402	333	343	379
491	387	341	403	334	344	400
492	388	342	404	335	345	401
493	389	343	405	336	346	402
494	390	344	406	337	347	403
495	391	345	407	338	348	404
496	392	346	408	339	349	405
497	393	347	410	344	350	407
498	394	348	411	345	351	408
499	395	349	412	346	352	409
500	396	350	414	347	353	410
501	397	351	415	348	354	411
502	398	352	416	350	355	412
503	399	353	417	352	356	413
505	400	354	419	353	357	414
506	401	355	420	354	358	415
507	402	356	421	355	359	416
508	403	357	422	356	360	417

012	013	014	015	016	017	018
509	404	358	427	357	361	418
510	405	359	428	358	362	419
511	406	360	429	359	363	420
512	407	361	430	367	364	421
513	408	362	431	368	365	422
514	409	363	432	369	366	423
515	410	364	433	373	367	424
516	411	365	434	374	368	425
517	412	366	435	376	369	426
518	413	367	436	377	370	427
519	414	368	437	378	371	428
523	415	369	438	379	372	429
524	416	370	439	380	373	430
525	417	371	440	381	374	433
526	418	372	441	382	375	434
527	419	373	443	383	376	435
528	420	374	444	384	377	436
530	421	375	445	385	378	437
532	422	376	446	386	379	438
533	423	377	447	387	380	439
534	424	378	448	388	381	440
535	425	379	449	389	382	442
536	426	380	450	390	383	443
537	427	381	451	391	384	444
538	428	382	452	392	385	445
539	429	383	454	393	386	446
566	430	384	455	394	387	447
569	431	385	456	395	388	448
570	432	386	457	396	389	449
571	433	387	458	397	390	450
572	434	388	459	398	391	452
573	435	389	460	399	392	453
574	436	390	461	400	393	454
575	437	391	462	401	394	455
576	438	392	463	402	395	456
577	439	393	464	403	396	457
578	440	394	465	404	397	458
579	441	395	466	405	398	459
580	442	396	467	406	399	470
581	443	397	468	407	400	471
582	444	398	469	408	401	472
583	445	399	470	409	402	474
584	446	400	471	410	403	475

012	013	014	015	016	017	018
585	447	401	472	411	404	480
586	448	402	473	412	405	481
587	449	403	474	413	406	483
588	450	404	475	414	407	485
589	451	405	476	415	408	486
590	452	406	477	416	409	488
591	453	407	478	417	410	490
592	454	408	479	418	411	491
593	455	409	480	419	412	492
594	456	410	481	426	413	493
595	457	411	482	431	414	494
596	458	412	484	432	415	495
597	459	413	486	433	416	496
598	460	414	487	434	417	497
599	461	415	488	435	418	498
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Western Area

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Eastern Area

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Central Area

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795	808	740	714	727	731
796	809	742	715	728	732
797	810	743	716	729	733
798	811	744	717	730	734
799	812	745	718	731	735
800	813	746	719	732	736
801	814	747	720	734	737
802	815	748	721	735	738
803	816	749	722	736	739
804	817	750	723	737	740
805	818	752	724	738	741
806	819	756	725	739	742
807	820	757	726	740	743
808	821	758	727	741	744
809	822	759	728	742	745
810	823	760	729	743	746
812	824	761	730	744	747
813	825	762	731	745	748
814	826	763	732	746	749
815	827	764	733	747	750
816	828	765	734	748	752
817	829	766	735	749	753
818	844	767	736	750	754
819	845	768	737	751	755
820	846	769	738	752	756
822	847	770	739	753	757
823	848	771	740	754	758
824	849	772	741	755	759
825	850	773	742	756	760
826	852	774	743	757	761
827	853	775	744	758	762
828	854	776	745	759	763
829	855	777	746	760	764
830	856	778	747	761	765
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833	858	780	749	763	767
834	859	782	750	764	768
835	860	783	751	765	769
836	863	784	752	766	770
837	864	785	753	767	771
838	865	786	754	768	772
839	866	787	755	769	773

051	053	054	056	057	058
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842	868	789	757	771	775
843	869	790	758	772	776
844	875	791	759	773	777
845	876	792	760	774	778
846	877	793	761	775	779
847	878	794	762	776	780
848	879	795	763	777	781
849	880	796	764	778	782
850	881	797	765	779	783
851	882	798	766	780	784
852	883	799	767	781	785
854	884	800	768	782	786
855	885	801	769	783	790
856	886	802	770	784	791
857	887	803	771	785	792
858	888	804	772	786	793
859	889	805	773	787	794
860	890	806	774	788	795
862	891	807	775	789	796
863	892	808	776	790	797
864	894	809	778	791	798
865	895	810	779	792	799
866	896	811	780	793	800
867	897	812	781	794	801
868	898	813	782	795	802
869	899	814	783	796	803
877	901	815	784	797	804
878	902	816	785	798	805
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880	904	818	787	800	807
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884	907	821	790	803	810
885	908	822	791	804	811
886	909	823	792	805	812
887	910	824	793	806	814
888	911	825	794	807	815
889	912	826	795	808	816
890	913	827	796	809	817
891	914	828	797	810	818
892	915	829	798	811	819
893	916	830	799	812	820

051	053	054	056	057	058
894	917	831	800	813	822
895	918	832	801	814	823
896	919	835	802	815	824
897	920	836	803	816	825
898	925	837	804	817	826
899	930	838	805	818	827
900	940	839	806	819	828
901	947	840	807	820	829
902	950	843	808	821	830
903	957	844	809	822	831
904	958	845	810	823	832
905	959	846	812	824	833
906	960	847	813	825	834
907	961	848	814	826	835
908	962	849	815	827	836
909	966	850	820	828	837
910	967	852	821	829	838
911	968	853	822	830	839
912	969	854	823	831	840
913	970	855	824	832	842
914	975	856	825	833	843
915	976	857	826	834	844
916	977	858	827	835	845
917	978	859	828	836	846
918	979	860	829	837	847
919	980	862	830	838	848
920	986	863	831	839	849
921	987	864	832	840	850
922	990	865	833	841	851
923	997	866	834	842	854
925	999	867	835	843	855
926		868	836	844	856
927		869	837	845	857
928		870	838	846	858
929		872	839	847	859
930		873	840	848	860
931		874	841	849	861
932		875	842	850	862
934		876	843	851	864
935		877	844	852	865
936		878	845	853	866
937		879	846	854	867
939		880	847	855	868

051	053	054	056	057	058
940		882	848	856	869
941		883	849	857	870
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944		885	851	859	873
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962		903	868	876	891
965		904	869	877	892
966		905	870	878	893
967		906	871	879	894
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969		908	873	881	896
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971		910	875	883	898
972		911	876	884	899
974		912	877	885	900
975		913	878	886	901
976		914	879	887	902
977		915	880	888	903
978		916	881	889	904
979		917	882	890	905
980		918	883	891	906
981		919	884	892	907
982		920	885	893	908
984		921	886	894	909
985		922	887	895	910
986		923	888	896	911
987		924	889	897	912
988		925	890	898	914

051	053	054	056	057	058
989		926	891	920	915
990		927	892	921	916
992		928	893	922	917
993		929	894	923	918
994		930	895	924	919
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		974	935	964	959
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			973		997
			974		998
			975		999
			976		
			977		

051	053	054	056	057	058
			978		
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			999		

SCHEDULE 5 - NUMBERS TAKEN TO HAVE BEEN ALLOCATED TO TELKOM**ALLOCATION OF CODES FOR NUMBERING PURPOSES**

The following number ranges are taken to have been allocated to Telkom with effect from the commencement date of this regulation:

Non-geographic service codes**Range****Service**

10	EXISTING TELKOM SERVICES
10111	Police emergency
10116	Conference call booking (multi-lingual)
10118	Electronic yellow pages
10120	Call answer - deposit message
10121 - 10125	Call answer remote retrieval
10126 - 10127	Enhanced services platform (ESP) services
101280	Prepayment Hotline on ESP 1
101289	Prepayment Hotline on ESP 2
10129	Call answer - call forwarding
10131 - 10135	Automatic reverse charge call services (multi-lingual)
10136 - 10130	Universal card calling (multi-lingual)
10171	Regional front office
10177	Ambulance emergency
10178	Reserved for fire brigade
10170	Regional front office
1019	Automated voice system (AVS)
10210	Account enquiries (call centres)
10212	Engineering faults (call centres)
10214	Ships at Sea
10215	Telkom internal use
10216	Fixed time booking (multi-lingual)
10217	Business Call Centre
10218	PO Phonogram
10219	Application for new services (call centres)
1022	Emergency call difficulties (multi-lingual)
1023	Directory information (multi-lingual)

1024	Payphone service difficulties
1025	Demand services (english)
1026	Time
1027	Demand services (multi-lingual)
1028	Phonogram (multi-lingual)
1029	Changed number interception (multi-lingual)
1091	Telkom internal usage
1096	Time (multi-lingual)

080	Telkom Freecall
086	Telkom Inbound call services
0860	Sharecall
0861	Maxicall
0862	Televoting
0863	Virtual Private Networks
0864	Wide Area Centrex
0865	UPT
0866	Account/Credit Card Calling
0867	Premium Rate Service Kiosk
08693	VPN Remote Access
08699	Special Events
088	Paging and Virtual Telephony
0880	Caller Pays Paging
0881 – 0885	Virtual Telephony
089	Maxinet

Geographic Service Codes

Multi-exchange area codes **011, 012, 021, 031, 041** and **051** together with all applicable ABC codes in use NOT included in SCHEDULE 4.

All geographic area codes listed in SCHEDULE 2 together with all applicable ABC codes in use NOT included in SCHEDULE 4.

SCHEDULE 6 - DATA NUMBERS

PART 1—DATA NUMBER COMPONENTS

Number structure

1.1 The components of a data number are:

Address format prefix	International Data Number
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	Data network identification code (DNIC)	Network terminal number
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	Data country code	Network code	Private network identification code	Geographic routing code	Private network terminal number
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PART 2—EXPLANATION OF COMPONENTS OF DATA NUMBERS

Component	Number of digits	What are the digits?	Purpose
Address format prefix	1 digit	Must be '0'	Distinguishes a full international data number (IDN) from an abbreviated form of data number
Data country code	3 digits	The digits assigned by the ITU-T for use in South Africa	Identifies that the number has been assigned by the ITU-T, for use in South Africa it is digits '655'
Data network identification code (DNIC)	4 digits	The combination of a data country code followed by a network code	Identifies the data network being contacted In South Africa, DNICs used include:

Component	Number of digits	What are the digits?	Purpose
			'6550' - Saponet-P '6551' - Teletex '6552' - Transnet '6559' - Potelin
International Data Number	14 digits		The combination of a data network identification code (DNIC) followed by a network terminal number. This is the usual form of address available to make a data network call, and must be preceded by an address format prefix (digit '0')

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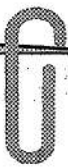
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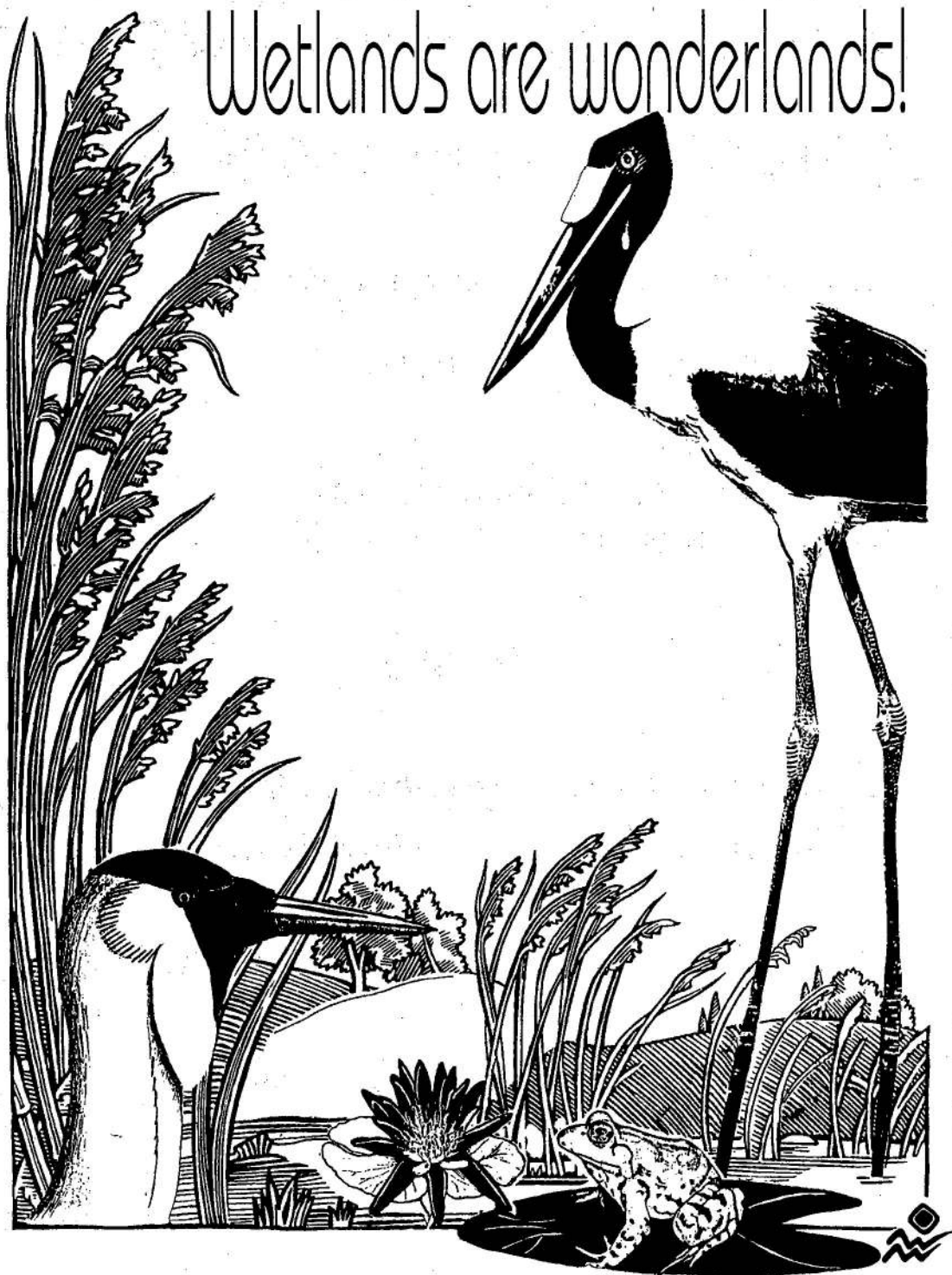
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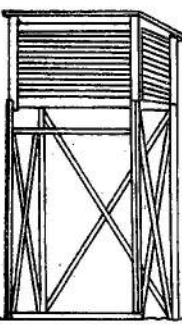
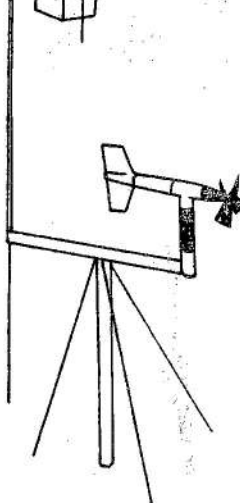
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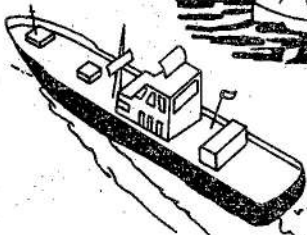
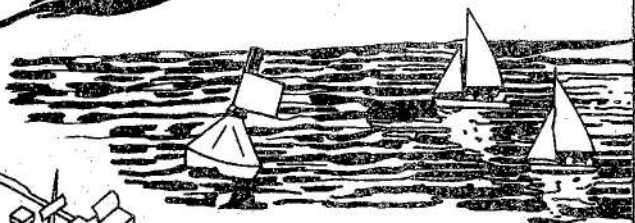
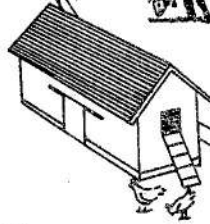
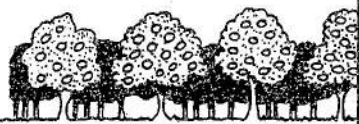
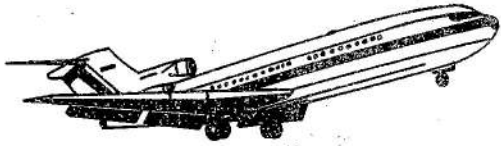
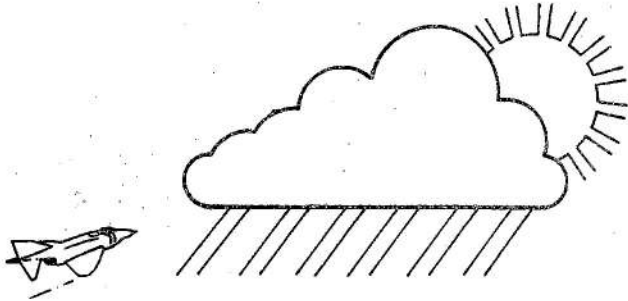


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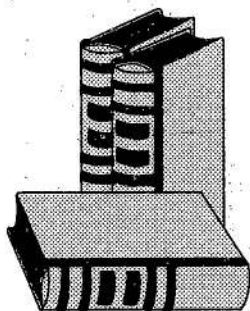
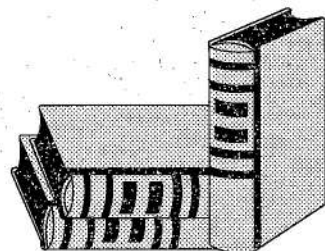
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Department of Environmental Affairs and Tourism
Departement van Omgewingsake en Toerisme

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