PRELIMINARY CONSULTATION
regarding the updating of the National Numbering Plan

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After the complete liberalisation of the electronic communications market, the range of services offered by the providers was enriched and diversified. ANRC aims at making an analysis on the extent to which the current plan satisfies the electronic communications market requirements, in order to ensure the adequate numbering resources for the provision of all the services and, at the same time, to provide for the efficient use of such limited resources. Based on the analysis results, proposals will be elaborated for the modification of the NNP.

Thus, ANRC included two actions for the optimisation of the numbering resources usage in the 2004 Activity Plan:

1. Identifying the necessary numbering resources with a view to adjust the NNP to the market requirements – deadline: September 30, 2004;
2. Updating the National Numbering Plan – deadline: December 31, 2004.

In order to conclude the first phase, all the interested entities are invited to take a stand on the following issues:

1. *The size of the numbering blocks allotted*

For the effective management of the numbering resources, smaller numbering blocks should be allotted as compared to those provided in the ANRC President's Decision no.141/2002, modified by the ANRC President's Decision no. 137/2004. This requires a more profound analysis of the numbering resources. For example, for the telephone services provided through the fixed public electronic communications networks, the numbering resources should be allotted in blocks of 1,000 numbers, as compared to 10,000 numbers at present.

- Do you consider this decision raises significant technical problems? What kind of problems?

2. **Private networks**

2.1 Traditional private networks (physical) connected to several public networks

In order to benefit from advantageous tariff packages, a series of companies with private networks of electronic communications decided to connect to several public networks (in most cases the respective networks are connected to the Romtelecom network and to the mobile networks of Mobifon and Orange). Generally, the telephone sets connected to private networks are installed at fixed points. When initiating calls to mobile numbers, the identity displayed is a trunk and does not offer information on the caller. Thus, the advantages of displaying caller identity cannot be further valued.

a) What should be the CLI displayed in this situation?
b) Do you think it would be useful that the NNP define a domain dedicated to private networks?
c) If so, what should it be?
d) Please comment on the answer (from a technical or economic point of view, or as compared to similar situations in other countries).
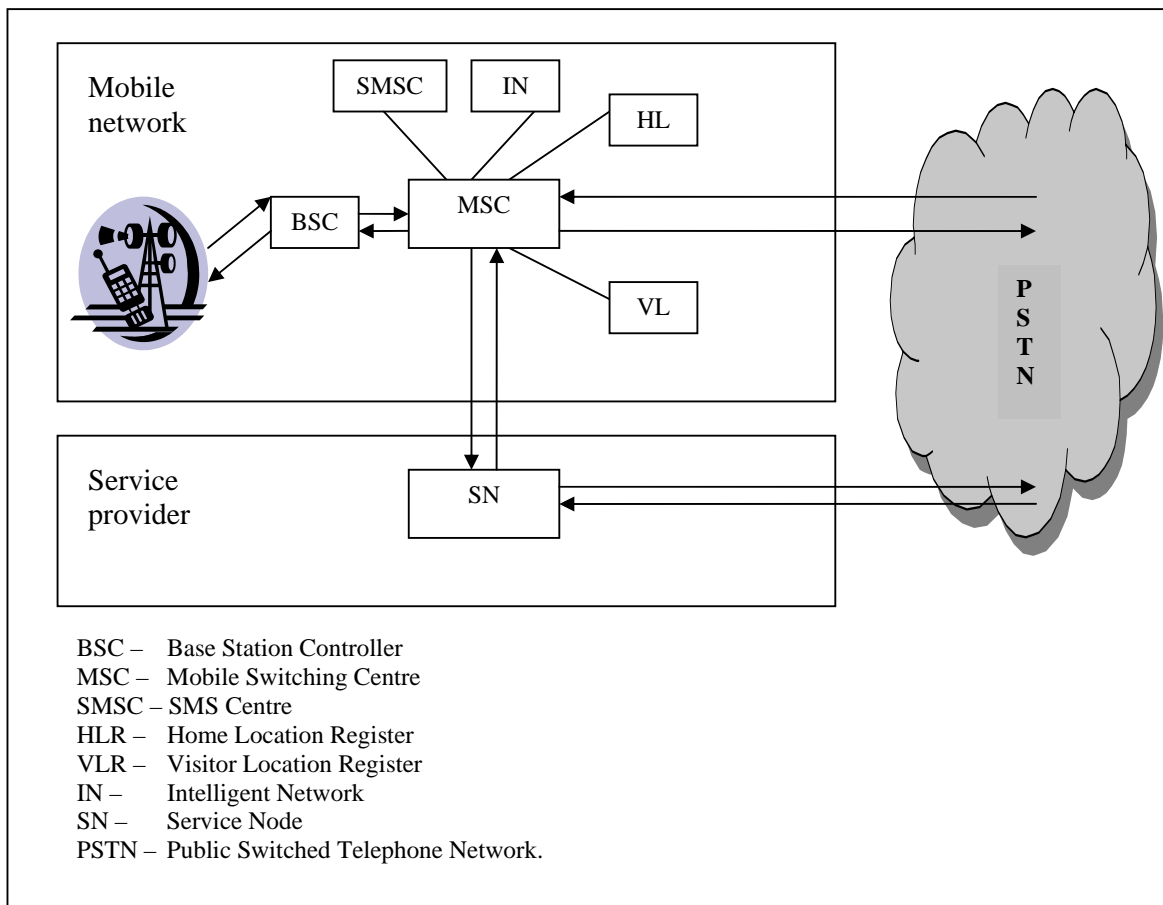
2.2 *Virtual Private Networks (VPN)*

For a virtual private network, the subscriber lines are connected to different switches in the „support" network while the specific services of the private network are provided through the support network without dedicated resources.

- What numbering domain do you think would suit this type of networks:
    a. Out of the existing resources of the support network?
    b. A dedicated domain? Which one?

3. *Mobile Virtual Public Network Operators (MVNO)*

The number of mobile electronic communications operators is limited by the frequency spectrum to be allotted to each of them. In order to overcome this hindrance the "Mobile Virtual Network Operators (MVNO)" concept has been introduced. The general configuration for the provision of services is included in the CEPT/ECC(03)9 report.

BSC –   Base Station Controller
MSC –   Mobile Switching Centre
SMSC – SMS Centre
HLR –   Home Location Register
VLR –   Visitor Location Register
IN –   Intelligent Network
SN –   Service Node
PSTN – Public Switched Telephone Network.

A mobile virtual network operator uses the existing mobile networks for the provision of its own services. Despite the fact that, at a European level, there are few such operators, ANRC was asked questions regarding the numbering resources to be allotted to them.

- What numbering domain do you think would suit this type of networks:
  a. Out of the existing resources of the support network?
  b. A dedicated domain? Which one?

4. *Non-geographical numbering for miscellaneous services*

In the current NNP, the miscellaneous services diverse are included in the numbering domain 0Z=08, as follows:

0800 –   green numbers;

0801 –   universal access numbers;

0802 –   universal personal numbers;

0805 -   televoting;

0807 –   virtual cards;

0808 –   prepaid cards;

0870 –   Internet access and data networks

a) Do you think that the current NNP comprises all the miscellaneous services offered on the Romanian market so far? If not, what other services should be provided?

b) Do you consider necessary that new numbering resources be defined, for new services to be launched on the market? If so, specify the new services.

c) In order to use the numbering resources according to the provisions of the NNP, should each type of service be described? If so, specific proposals are welcome.

5. *Short Numbers*

In the current NNP, national short numbers have the 11X format. The combination was chosen taking into account the necessary European harmonisation. Out of these, only the short number for emergency calls 112 is currently used, and it operates for all the networks.

Short numbers of 3 or 4 digits are used within the networks, as follows:

- The 9XX format numbers – are used by Romtelecom for the provision of services to its own subscribers (921 – service Romtelecom, 951 – the time, etc.) or are allotted to some institutions and companies providing miscellaneous services (other than electronic communications – e.g.: 984 – "Hello, Mr. Mayor")
- The 9XXX format numbers – are used by Romtelecom to serve only the Bucharest area and are allotted by Romtelecom to some institutions and companies providing miscellaneous services (e.g.: taxi services)
- The 1XXX format numbers – are generally used in the mobile networks, in the same regime as value-added services (e.g.: SMS for various contests, games).

a) What is your opinion regarding the current situation?

b) What should be the new approach?

6. ***What other issues should ANRC take into account for updating the NNP?***