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## Regulations on Numbering Resources for Electronic Communications Networks and Services of February 16<sup>th</sup> 2004 no. 426 (Numbering Regulations)

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### Chapter I. Introductory provisions

#### Section 1. Purpose

The purpose of these regulations is:

- a) to ensure an efficient and resource-saving management of numbering resources for electronic communications networks and services
- b) to give providers of electronic communications networks and services necessary and equal access to numbering resources for the provision of electronic



communications services.

#### Section 2. Subject scope

These regulations apply to the management, authorisation for use and use of numbering resources for electronic communications networks and services.

#### Section 3. Definitions and abbreviations

The following definitions and abbreviations apply in these regulations:

- a) *numbering resource*: generic term for numbers, number series, names and addresses, as laid down in chapters III, IV, V, VI and VII
- b) number series: an unbroken series of individual numbers of a specific length
- c) *numbering plan*: structure for and disposition of numbering resources
- d) *voluntary numbering plan*: a numbering plan which is recommended if numbering resources from such a numbering plan are used to offer access to electronic communications networks and services
- e) *geographical number:* a number from the national numbering plan where a part of the numbering structure contains information that may be used to direct calls to the physical location of a network termination point
- f) *non-geographical number:* a number from the national numbering plan which is not a geographical number
- g) *number for land mobile services:* a non-geographical number from the national numbering plan which is to be used for mobile phone services with additional services
- h) *number for machine-to-machine communication:* a non-geographical number from the national numbering plan which is to be used for automatic or partly automatic communication services for voice or data traffic where the number does not have an independent significance for the user
- i) ITU: the International Telecommunication Union
- j) ITU-T: the ITU Telecommunication Standardization Sector
- k) ISO: the International Organization for Standardization
- I) IEC: the International Electrotechnical Commission
- m) *X.121 international data number*: global unique address information for a terminal in a data network, consisting of an identification of the data network and a terminal number within that data network, not exceeding 14 digits, in accordance with ITU-T Recommendation X.121
- n) *terminal number (Network Terminal Number NTN):* identification of a terminal within a particular data network, not exceeding 10 digits, in accordance with ITU-T Recommendation X.121



- o) *DNIC (Data Network Identification Code):* the first four digits in an X.121 international data number, identifying one or more data networks
- p) *PNIC (Private Network Identification Code):* a code not exceeding six digits which follows a particular DNIC in an X.121 international data number
- q) *Nkom:* Norwegian Communications Authority.

### Chapter II. General provisions

#### Section 4. Responsibility for the administration of numbering resources

Nkom determines and administers national numbering plans for electronic communications networks and services.

## Section 5. Authorisation and use of numbering resources from mandatory numbering plans

The use of numbering resources from mandatory numbering plans, cf. chapters III, IV, V and VI, requires authorisation from Nkom. Providers of electronic communications networks and services, or end users may obtain such authorisation. Mandatory numbering plans must be followed if numbering resources from these plans are used in order to offer access to electronic communications networks and services.

Numbering resources must be used in an efficient and resource-saving way.

#### Section 6. Requirements as to information from applicants

Nkom may set requirements as to what information an application for numbering resources must contain. Such information may include, among other things:

- a) the applicant's name, address, Norwegian organisation number, and the name, telephone number and e-mail address of the contact person
- b) the desired numbering resource
- c) a description of the service for which the numbering resource is to be used
- d) documentation of resource needs
- e) the planned date for the commencement of the service
- f) the operator code to which the desired numbering resource is to be assigned.



## Section 7. Processing time for the authorisation for use of numbers from mandatory numbering plans

Nkom shall determine and publish administrative decisions on the authorisation for the use of numbers which have already been reserved in the numbering plan for specific purposes, as soon as possible, and no later than three weeks after a correct and complete application has been received. The processing time for authorisation for the use of numbers which are decided by auction or other similar methods may be extended by a further three weeks.

## Section 8. Considerations when granting authorisation for the use of numbering resources

When processing applications for authorisation for the use of numbering resources, Nkom may take into consideration, among other things, the following factors:

- a) the efficient and resource-saving use of the numbering resources
- b) the need for sufficient numbering resources available in the short and long term
- c) the requirements and wishes of the applicant, the end users and other affected parties
- d) any costs incurred by the applicant, other providers of electronic communications networks and services, end users and other affected parties
- e) utilization of numbering resources which have previously been authorised for use by the applicant for corresponding purposes,
- f) the applicant's compliance with conditions attached by Nkom to previous authorisations for use of numbering resources
- g) relevant recommendations, standards or agreements.

## Section 9. Attachment of conditions when granting authorisation for the use of numbering resources from mandatory numbering plans

For authorisation for the use of numbers, only the following conditions may be established:

- a) time limit on the authorisation. The duration may still be reduced if the numbering plan is changed
- b) requirements as to what service the number and number series shall be used for, including requirements as to the provision of the service



- c) requirements as to tariff principles and the use of maximum prices for each number series for the purpose of ensuring consumer protection
- d) binding offers made by service providers under competitive or comparative selection procedures
- e) obligations in accordance with relevant international agreements on the use of numbers
- f) requirements as to the actual and effective use of numbers and number series, including a deadline for bringing numbers or the number series into use, and
- g) which operator code that is to be used together with numbers in the numbering plan for telephony etc. (E.164)
- h) obligations relating to number portability
- i) obligations to pay administrative charges and fees
- j) obligations relating to making directory enquiry information available

#### Section 10. Transfer and return of numbering resources

The transfer of numbering resources from mandatory numbering plans between providers requires permission from Nkom. Nkom may attach conditions to such transfers.

Upon the cessation of activities, numbering resources shall be returned to Nkom, unless instructions are given in accordance with section 24.

#### Section 11. Changes in information on the service provider or end user

Changes in information on the provider or end user given in the application or later shall be notified to Nkom as soon as possible.

#### Section 12. Withdrawal of exclusive numbering resources

Nkom may withdraw numbering resources if these are exclusive to service providers or end users. A numbering resource is exclusive if others do not have equal access to equivalent numbering resources.

#### Section 13. Reporting to Nkom

Providers of electronic communications networks and services who have been granted authorisation for the use of numbering resources from mandatory numbering plans may be instructed to submit an annual report to Nkom showing the use of the



numbering resources. If special considerations so require, Nkom may instruct service providers to submit more frequent reports.

#### Section 14. Publicly available information

Nkom shall publish numbering plans, authorisations and changes in authorisations in an appropriate way.

#### Section 15. Changes in numbering plans

If Nkom finds it necessary to change a numbering plan, all service providers who have authorisation for the use of numbering resources from the numbering plan shall make the necessary changes to their systems within a reasonable time limit. Changes in numbering plans may be made in order to, among other things:

- a) have sufficient numbering resources available in the short and long term
- b) reserve numbering resources for other purposes
- c) reorganise numbering resources.

Service providers shall provide necessary information and organise things so that the transition causes as little trouble as possible to their end users.

### Chapter III. Numbering plan for telephony etc. (E.164)

#### Section 16. General numbering plan

Nkom determines and administers the numbering plan for telephony etc. (E.164) in accordance with ITU-T Recommendation E.164. Nkom may grant authorisation for the use of number series and individual numbers under the country code 47, allocated by the ITU.

The main categories of the national numbering plan for telephony etc. (E.164) are as follows:

00: International prefix
01: Reserved for future changes in the numbering plan
02000-09999: 5-digit non-geographic numbers
100-115: Standardised special numbers
116 000-116 999: 6-digit EEA-harmonised numbers
117-179: Standardised special numbers



1800-1899: 4-digit numbers for directory enquiry services 190-199: Service provider-specific special numbers 20 00 00 00-39 99 99 99: 8-digit geographical numbers 400 00 000-499 99 999: 8-digit numbers for land mobile services 50 00 00 00-57 99 99 99: 8-digit geographical numbers 58 00 00 00 00 00-58 99 99 99 99: 12-digit numbers for machine-tomachine communication 59 00 00 00-59 99 99 99: 8-digit numbers for machine-to-macine communication 60 00 00 00-79 99 99 99: 8-digit geographical numbers 800 00 000-899 99 999: 8-digit non-geographical numbers 900 00 000-999 99 999: 8-digit numbers for land mobile services

Allocated numbers may not be provided for permanent use outside of Norway without the permission of Nkom.

#### Section 17. International calls

Calls to foreign networks and services with country codes allocated by the ITU shall be able to be made by using the international prefix 00.

#### Section 18. Emergency numbers

All service providers shall ensure that calls to emergency services can be made by using the special numbers 110, 112, 113. The same applies to calls to the special number 1412, the emergency number for text phone users.

Nkom may stipulate other numbers to be used for calls to various types of emergency service.

#### Section 19. Authorisation and use of 8-digit numbers

Nkom may grant authorisation for the use of 8-digit number series to providers of public electronic communications networks and services on application. Providers allocate 8-digit numbers to end users and other service providers.

Providers of public electronic communications networks and services cannot withdraw a number being used by an end user without a special reason. Such reasons may be, e.g.:



- a) the service in question to the end user has ceased
- b) changes are required in the service provider's internal numbering plan
- c) amendments to laws or regulations or instructions issued by Nkom which render withdrawal necessary
- d) changes in E.164.

#### Section 20. Authorisation and use of standardised special numbers (100-189)

Nkom may grant authorisation for the use of standardised special numbers for special purposes on application.

The standardised special numbers shall be used mainly for two purposes:

- a) national services of major social significance
- b) services which are closely linked to the public telephone service and which contribute to enhancing and developing it for the good of end users.

#### Section 20a. EEA-harmonised numbers

Numbers starting with 116 are reserved for the use of EEA-harmonised services of social value. 116 112 is exempt from assignment. Numbers, service descriptions and special conditions related to the use of the numbers will be published by Nkom.

#### Section 20b. General conditions to services on EEA-harmonised numbers

The services shall:

- a) provide information, assistance or act as a reporting tool for the users or a combination thereof
- b) be open to all users, without requirements of prior registration
- c) not be time-limited for promotional periods
- d) not incur any form of payment or payment commitment as a prerequisite to use the service
- e) not contain advertisements, entertainment, marketing or sale during a call or as long as the line is connected
- f) not use call information for future sale of commercial services



#### Section 20c. The cost of calling 116-numbers

The services shall be free to call from fixed and mobile networks.

Nkom may grant exemptions from the condition of free calls from mobile networks.

#### Section 20d. Procedures for selection and requirements for application

Nkom publishes the EEA-harmonised numbers, service descriptions and conditions etc. and invites to submitting of applications.

Applications for numbers shall be sent to Nkom which can request statements to the applications from the relevant competent ministry and/or other relevant competent entity, appointed by the Ministry of Transport and Communications. The numbers may be assigned to both private and public applicants.

Nkom manages a publicly accessible register updated for all assigned numbers.

#### Section 20e. Loss of right of use caused by lack of use

The right of use for the number will be terminated if the number is not used within six months of assignation, or if it afterwards has not been in continued use for a period of at least one year.

Nkom may in special cases grant exemptions for the first paragraph.

#### Section 21. Service provider-specific special numbers

The number series 190-199 is reserved for use for service provider-specific special numbers. Providers of public telephone services may use this number series for self-defined services. End users may not be granted authorisation for the use of such numbers. Service provider-specific numbers may have different lengths.

## Section 22. Authorisation and use of 5-digit non-geographic numbers (02000-09999)

Nkom may grant authorisation for the use of such numbers to end users on



application. The number series is divided into two main categories:

- a) 5-digit numbers for non-commercial purposes of social significance, and
- b) 5-digit numbers for other purposes.

Non-commercial purposes of a public utility nature include, among other things:

- a) national helplines
- b) national public services
- c) national numbers for humanitarian/non-profit organisations
- d) common national numbers for public casualty clinics, hospitals, police or similar for use in non-emergency situations.

Authorisation for the use of 5-digit numbers for non-commercial purposes of a public utility nature shall only be made from numbers in the lowest price category. No end user or group may have use of more than three such numbers.

#### Section 22a. Yearly fee for the authorisation for the use of 5-digit numbers

The assignee of a 5-digit number, shall pay a yearly fee to the State based on assumed market value:

- a) for category A numbers NOK 121 700
- b) for category B numbers NOK 86 700
- c) for category C numbers NOK 66 700
- d) for category D numbers NOK 46 700
- e) for category E numbers NOK 21 700
- f) for category F numbers NOK 2 700

In addition an administrative charge is payed to Nkom in accordance with Regulations on Administrative Charges payable to the Norwegian Communications Authority. For 5-digit numbers for non-commercial purposes of a public utility nature only the fee and not the administrative charge are to be paid.

If notice of termination of a 5-digit number is sent Nkom before the start of a calendar year, fee and administrative charge for the following year shall not be paid. The fee ceases if the resignation is sent before April 1<sup>st</sup> or an application for a new number is sent October 1<sup>st</sup> or later.



#### Section 23. Reporting to Nkom

Providers of electronic communications networks and services who have been granted authorisation for the use of 8-digit number series by Nkom shall by February 1<sup>st</sup> each year submit a report to Nkom providing an overview of the use made of the number series.

For each number series the report shall contain, among other things, the following information:

- a) distribution of number series among various services, charges, etc.
- b) percentage share of numbers in active use
- c) percentage share of numbers which are reserved but not in active use
- d) percentage share of numbers which have been ported to other service providers
- e) number of numbers which have been ported from other service providers
- f) percentage share of numbers which are available
- g) any reallocation of number series to other service providers
- h) forecast of the utilisation of the number series for each of the next three years.

#### Section 24. Transfer and cessation

If important considerations so dictate and more than 50 % of the numbers in a number series have been ported out to other providers of public electronic communications services, Nkom may transfer the number series to the service provider who has the most numbers ported in from the number series.

Upon the cessation of activities, unused numbers and number series shall be returned to Nkom. Upon the cessation of activities which control number series from which numbers have been ported out, Nkom may instruct other service providers who have ported in numbers to take over the whole number series.

# Chapter IV. Numbering plan for service provider codes for service provider portability

#### Section 25. Operator codes for service provider portability

Nkom determines and administers the numbering plan for operator codes for service provider portability. Providers who dispose of numbers in a numbering plan for telephony etc. (E.164) may be granted authorisation for the use of service provider codes.



Numbering plans for service provider codes are mandatory and have the following structure:

000 - 899 Identification of donor and recipient provider 900 - 999 Provider-specific codes.

### Chapter V. Numbering plan for data networks (X.121)

#### Section 26. Authorisation and use of DNIC and PNIC

Nkom determines and administers the numbering plan for data networks in accordance with ITU-T Recommendation X.121. The numbering plan is mandatory. Nkom may grant authorisation for the use of DNICs and PNICs to providers of electronic communications networks and services on application.

Authorisation for the use of a DNIC may be granted to a service provider who has a data network which uses addresses in accordance with X.121 and who provides a data transfer service to the general public. Nkom may impose restrictions on what combinations of digits a service provider may use as the initial digits in terminal numbers (NTN) under the DNIC.

In order to ensure efficient utilisation of national X.121 resources, Nkom may require two or more service providers to share a DNIC. The service providers in question shall in such cases be given at least six months' prior notice.

Authorisation for the use of a PNIC may be granted to a service provider who has a data network which uses addresses in accordance with X.121 and who provides a data transfer service to a small group or for his own business. A PNIC normally comprises two or three digits in addition to the DNIC which Nkom sets aside for authorisation for use of PNICs.

A service provider who has been granted authorisation for the use of a DNIC or PNIC allocates terminal numbers to his end users under the DNIC or PNIC the service provider has been granted authorisation for by Nkom, subject to any restrictions which Nkom may have imposed with regard to the initial digits of the terminal number.

#### Section 27. Use of foreign DNICs and PNICs in Norway

Providers of electronic communications networks and services in Norway may



use a DNIC or PNIC which has been allocated by another country's authorities or by the ITU.

Nkom may reject an application for a Norwegian DNIC or PNIC for service providers who have a DNIC or PNIC allocated by another country's authorities or by the ITU.

#### Section 28. Interconnection

Providers of electronic communications networks and services who have been granted authorisation for the use of a DNIC by Nkom are obliged within six months after the granting of the authorisation to establish contractually regulated interconnection with at least one other service provider with a DNIC.

Providers of electronic communications networks and services who have been granted authorisation for the use of a PNIC by Nkom are obliged within six months after the granting of the authorisation to establish contractually regulated interconnection with at least on other service provider with a DNIC or PNIC.

If interconnection is not established within six months, Nkom may withdraw the service provider's authorisation to use the DNIC or PNIC in question.

### Chapter VI. Other mandatory numbering plans

## Section 29. Numbering plan for identification of issuers of credit cards connected with electronic communications services (E.118)

Nkom determines and administers the numbering plan for the identification of issuers of credit cards connected with electronic communications services in accordance with ITU-T Recommendation E.118.

Nkom may grant authorisation for the use of issuer identifier numbers (IIN) for credit cards connected with electronic communications services in accordance with ITU-T Recommendation E.118.

## Section 30. Numbering plan for ISDN networks with responsibility for identification of closed user groups (E.167)

Nkom determines and administers the numbering plan for ISDN networks



with responsibility for the administration of closed user groups in accordance with ITU-T Recommendation E.167.

Nkom may grant authorisation for the use of ISDN network identification codes (INIC) for the identification of networks where the service provider is responsible for the administration of closed user groups in accordance with ITU-T Recommendation E.167.

## Section 31. Numbering plans for network identification codes connected with mobile networks and mobile services (E.212 and E.214)

Nkom determines and administers numbering plans for network codes connected with mobile networks and mobile services in accordance with ITU-T Recommendations E.212 and E.214.

Nkom may grant authorisation for the use of mobile network codes (MNC) for the identification of mobile terminals and mobile users in accordance with ITU-T Recommendation E.212 and in conformity with ETS 300 523. In addition, Nkom may grant authorisation for the use of network codes (NC) in accordance with ITU-T Recommendation E.214.

#### Section 32. Numbering plan for identification signals for ships (E.210)

Telenor ASA determines and administers the numbering plan for identification signals for ships (maritime mobile service identities, MMSI numbers) in accordance with the ITU's Radio Regulations, Article 25, Appendix 43, and ITU-T Recommendation E.210 by the authority of Nkom.

Telenor ASA allocates MMSI numbers intended for automatic traffic exchange between stations participating in the maritime mobile service.

#### Section 33. Allocation of user numbers for Inmarsat stations in Norway

Telenor ASA allocates user numbers for maritime and land mobile Inmarsat stations in Norway in accordance with ITU-T Recommendation E.215 by the authority of Nkom.



#### Section 34. Numbering plans for signalling point codes (Q.704 and Q.708)

Nkom determines and administers numbering plans for signalling point codes in accordance with ITU-T Recommendations Q.704 and Q.708.

Nkom may grant authorisation for the use of international signalling point codes (ISPC) in accordance with ITU-T Recommendations Q.704 and Q.708.

Nkom may grant authorisation for the use of national signalling point codes in accordance with ITU-T Recommendation Q.704.

#### Section 35. T.35 numbering plan

Nkom determines and administers the numbering plan for the identification of producers who implement non-standardised functions in telecommunications products in accordance with ITU-T Recommendation T.35.

Nkom my grant authorisation for the use of terminal provider codes in accordance with ITU-T Recommendation T.35.

#### Section 35a. Numbering plan for the identification of radio channels

Nkom determines and administers the numbering plan for the identifications of radio channels, RDS PI, SId, Eld and other codes related to analogue and digital radio distribution in accordance with the standards IEC 62106 and ETSI EN 300 401.

RDS PI, SId and Eld codes cannot be used without authorisation from Nkom. The use of the codes shall be in accordance with the standards IEC 62106 and ETSI EN 300 401.

Other codes related to digital radio distribution is authorised for use in accordance with the standard ETSI EN 300 401.

Other codes related to analogue radio distribution is authorised for use in accordance with the standard IEC 62106.



### Chapter VII. Voluntary numbering plans

#### Section 36. Registration of X.400 ADMD and PRMD domain names

Nkom registers ADMD (Administration Management Domain) and PRMD (Private Management Domain) domain names for electronic mail in accordance with ITU-T Recommendations X.400/F.400 and F.401.

#### Section 37. Authorisation for use of identifiers for EDIFACT

Nkom may grant authorisation for the use of identifiers for use in EDIFACT (Electronic Data Interchange for Administration, Commerce and Transport), UNB and UNG segments, in accordance with ISO 9735.

#### Section 38. Authorisation for use of ISO-DCC network addresses

Nkom may grant authorisation for the use of ISO-DCC (ISO data country code) network addresses in accordance with ISO/IEC 8348/ITU-T Recommendation X.213.

#### Section 39. Authorisation for use of object identifiers

Nkom may grant authorisation for the use of object identifiers in accordance with ISO/IEC 8824-1/ITU-T Recommendation X.680 and ISO/IEC 9834-1/ITU-T Recommendation X.660.

#### Section 40. Nkom's decisions regarding voluntary numbering plans

Nkom's decisions pursuant to this chapter are not administrative decisions, cf. Section 2 of the Public Administration Act, and cannot be appealed.

### Chapter VIII. Common provisions

#### Section 41. Dispensation

Nkom may grant dispensation from provision in these regulations when special considerations so indicate.



#### Section 42. Appellate authority

Appeals against administrative decisions made by Nkom shall be decided by the Norwegian Ministry of Transport and Communications, but shall be sent to Nkom.

#### Section 43. Sanctions

In the event of a violation of these regulations or decisions made pursuant to these regulations, Nkom may implement sanctions under Chapter 10 of the Electronic Communications Act. Violations of these regulations are punishable under Section 12-4 of the Electronic Communications Act.

The authority may impose an individual or an entity an infringement charge if the person, entity or anyone acting on behalf of the entity wilfully or negligently violates the Numbering Regulations, sections 5, 9, 10, 13, 15, 16, 17, 18, 19, 20, 20b, 20c, 23, 24 and 35a.

#### Section 44. Entry into force

These regulations shall enter into force on February 16<sup>th</sup> 2004. From the same date the Regulations of June 2<sup>nd</sup> 1997 no. 560 on the allocation and use of numbers, number series, names and addresses for telecommunications networks and telecommunications services shall be repealed.