



Electronic Communications Committee (ECC)  
within the European Conference of Postal and Telecommunications Administrations (CEPT)

## ECC RECOMMENDATION (04)03

### SPECIFIC E.164 NUMBERS FOR FAX AND DATA SERVICES SEPARATE FROM THE NUMBER FOR VOICE TELEPHONY

Recommendation adopted by the Working Group "Numbering Naming and Addressing" (WG NNA)

#### INTRODUCTION

As new mobile systems are implemented throughout Europe, which provide new services and also services currently available on second generation mobile systems (GSM), the national Administrations need guidelines to be able to allocate appropriate number ranges for all these services. This recommendation aims at providing some specific guidelines dedicated to help defining appropriate number ranges for fax and voice telephony services.

"The European conference of Postal and Telecommunications Administrations,

*considering*

- a) that many second generation mobile networks use specific E.164 numbers for fax and data services with different rates that are separate from the number used for voice telephony;
- b) that the E.164 numbers used for fax and data services may be:
  - numbers in different number ranges from those used for voice telephony;
  - numbers in different number blocks from those used for voice telephony, but in the same number range;
  - different values in the same number block and number range;
- c) that different techniques are used at the air interface of digital mobile networks for the transmission of telephony, fax and modem data in contrast to analogue access to fixed networks where the same 3.1 kHz channel is used for all three types of traffic;
- d) that fax and modem calls to mobile terminals need a network based conversion process between the modem form and the data form used at the air interface;
- e) that fixed core networks may be unaware of whether an attempted call is a telephony, fax or modem data call if the call originates from an analogue access, and therefore these calls need to be distinguished by the use of different numbers;
- f) there will be a continuing need for the foreseeable future to support fax and modem data calls to and from mobile terminals.

*recommends*

that the continued use of separate numbers for fax and different rates of data transmission should be accepted because they result from limitations in the fixed networks and not from poor design of the mobile networks. The need for separate numbers is unlikely to change."

*Note:*

Please check the CEPT web site(<http://www.CEPT.org>) for the up to date position on the implementation of this and other ECC recommendations.