

**Liaison Statement**

**To:** 3GPP TSG-CN1  
**CC:** 3GPP TSG-T3, EP SCP  
**From:** EP SCP CAT ad hoc (Contact: Nigel.Barnes@motorola.com, +44 7785 318 631)  
**Date:** 1st February 2001  
**Subject:** Use of a specific TON value in GSM and 3G

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The EP SCP Card Application Toolkit (CAT) ad hoc meeting recently received a committee correspondence from the TIA TR-45-3 committee.

In this document (attached for information as SCPz010003), the TR-45-3 committee observed that the first four TON values are interpreted identically by both the GSM and TIA/EIA-136 specifications, and further note the difference in interpretation for the specific TON value "100". The TR-45-3 committee are investigating whether or not this value is in use in their community.

The intention is to try and achieve harmonisation of the interpretation of TON and NPI values between both communities.

This ad hoc has a similar request to the 3GPP and GSM communities, specifically, whether or not this value of TON (100) is in use in GSM systems, and further, whether it is anticipated that this value of TON is likely to be in use in the 3G systems based on the 3GPP's specifications.



COMMITTEE CORRESPONDENCE

Please reply to:

Peter W. Nurse  
Chair, TIA TR-45-3  
peter.nurse@sigmadelta.com

Thursday, January 25, 2001

**via electronic mail**

Dr Klaus Vedder, SCP Chairman  
Prinzregentenstr.159  
Postfach 80 07 29  
D-81607 MÜNCHEN  
Germany  
<klaus.vedder@gdm.de>

Subcommittee TR-45-3 has reviewed the liaison from the EP SCP, and would like to note the following items for your information, and potential incorporation into the definition of the CAT. As an overall statement, TIA/EIA-136 is generally compatible with all of the assumptions that you have outlined in your liaison. Although there may be some syntax differences in the manner these are supported on the air interface or in the network, it is felt that with appropriate ME inter-working, most of these can support the common toolkit interface. Some specific points we would like to raise are presented below.

The Type of Number and Numbering Plan Identification definitions used in TIA/EIA-136 are very similar to those from GSM. Attached is document TR45.3.6/00.05.08.20, which presents a comparison of TON/NPI between these two systems. We note the overall high degree of compatibility; however, there are cases where values have been defined in one technology, but are reserved in the other. Please note one of these values is marked Permanently Reserved in 136. Value 1100 previously identified SS7 Point Code addressing, but was removed at the request of the operators, who did not feel providing these addresses on the air interface was a wise course. We feel these could be readily harmonized in the CAT. There appears to be only one conflict in the existing definitions. This occurs in the TON value 100, which is defined as Subscriber Number in 136 and as Dedicated Access, Short Code in GSM. We are currently investigating the actual usage of this value in the 136 systems, and would request any comments you may have on the actual utilization of this value in GSM. If these investigations reveal no hard conflict, we believe that the TON and NPI can readily be harmonized as part of the CAT.

With respect to the item regarding non-GSM based SMS support, at this time, we do not foresee a need for a SEND-TDMA-SMS command to be incorporated into the CAT.

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2500 Wilson Boulevard  
Suite 300  
Arlington, VA 22201-3834  
USA

+1 703 907 7700  
FAX +1 703 907 7727

If you have any further questions, please do not hesitate to contact me,



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Peter W. Nurse, Chair,  
ANSI Accredited TIA TR-45-3

Cc: Terry Watts, Chair TR-45-Ad-Hoc on UIM/ESN <twatts@tri.sbc.com>  
Michael Sanders, ETSI, Michael.Sanders@etsi.fr  
Jane Brownley, Secretary, TIA TR-45, <jbrownley@lucent.com>  
John Kay, Chair TIA TR-45.1, <kay@cig.mot.com>  
Cheryl Blum, Chair, TIA TR-45.2, <cjblum@lucent.com>  
Stephen S Jones, Chair, TIA TR-45.4, <:ssj@telereality.net>  
Jean Alphonse, Chair, TIA TR-45.5, <Jean.Alphonse@wirelessyourway.com>  
Ed Campbell, Chair, TIA TR-45.6, <ed\_campbell@3com.com>  
Christopher Carroll, Chair, TR-45.AHAG, <ccarroll@gte.com>

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TR45.3.6/00.05.08.20  
Time Division Digital Technology  
Mobile and Personal Communications Standards

**Title**

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TON/NPI Comparison

**Source**

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Ericsson

**Abstract**

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This contribution provides a comparison of the Type of Number and Numbering Plan Identification fields between GSM and TIA/EIA-136.

**Recommendation**

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For information only.

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This contribution has been prepared by Ericsson to assist the TIA TR45.3 standards subcommittee. This document should not be construed as a binding proposal on Ericsson. Specifically, Ericsson reserves the right to modify, amend, or withdraw the contents of this contribution.

# 1 Introduction

2 Discussions regarding contributions TR45.3.6/00.05.08.14 and TR45.3.6/00.05.08.15 brought out the  
3 advantages of re-using the DF<sub>TELECOM</sub> dialing number files such as Last Number Dialed, Abbreviated  
4 Dialing Numbers, MSISDN, etc., for TIA/EIA-136 operation instead of creating new corresponding EFs  
5 under the TIA/EIA-136 DF. The issue with utilizing the TELECOM directory is that the Type of Number  
6 and Numbering Plan Identification fields have different descriptions for some codes when compared to  
7 TIA/EIA-136 encoding. This contribution provides tables with a comparison of the different encoding,  
8 which could be useful when considering a course of action for TON/NPI harmonization.  
9

## 10 Encoding Comparison

### 11 *Type of Number:*

| Code | TIA/EIA-136-123-B       | 3G TS 24.008 Version 3.3.1 (2000-04)<br><i>(IE descriptions were moved from GSM 04.08 to 3G TS 24.008 for Release 1999)</i> |
|------|-------------------------|---|
| 000  | Unknown                 | Unknown   |
| 001  | International Number    | International Number  |
| 010  | National Number         | National Number   |
| 011  | Network Specific Number | Network Specific Number   |
| 100  | Subscriber Number       | Dedicated Access, Short Code  |
| 101  | Reserved                | Reserved  |
| 110  | Abbreviated Number      | Reserved  |
| 111  | Reserved for Extension  | Reserved for Extension  |

### 12 *Numbering Plan Identification:*

| Code | TIA/EIA-136-123-B  | 3G TS 24.008 Version 3.3.1 (2000-04)<br><i>(IE descriptions were moved from GSM 04.08 to 3G TS 24.008 for Release 1999)</i> |
|------|--|---|
| 0000 | Unknown  | Unknown   |
| 0001 | ISDN/telephony numbering plan (ITU Recommendation E.164 and E.163) | ISDN/telephony numbering plan (ITU Recommendation E.164 and E.163)  |
| 0010 | Reserved   | Reserved  |
| 0011 | Data numbering plan (ITU Recommendation X.121)                     | Data numbering plan (ITU Recommendation X.121)  |
| 0100 | Telex numbering plan (ITU Recommendation F.69)                     | Telex numbering plan (ITU Recommendation F.69)  |
| 0101 | Reserved   | Reserved  |
| 0110 | Land mobile numbering plan (ITU Recommendation E.212)              | Reserved  |
| 0111 | Reserved   | Reserved  |
| 1000 | Reserved   | National numbering plan   |
| 1001 | Private numbering plan   | Private numbering plan  |
| 1010 | Reserved   | Reserved  |
| 1011 | Reserved   | Reserved for CTS (see GSM 04.56)  |
| 1100 | Permanently Reserved   | Reserved  |
| 1101 | Binary Internet Address  | Reserved  |
| 1110 | Alphanumeric Internet Address                                      | Reserved  |
| 1111 | Reserved for extension   | Reserved for extension  |