

**Short codes in Sweden – Administrative processes:  
An Application Guide for the handling of short  
codes in Swedish national public electronic  
communications networks**



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Reference

ITS AG15

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Keywords

short codes, administrative processes,  
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## Foreword

This Application Guide has been produced by ITS AG (WG) 15.

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## Introduction

This Application Guide (ApG) describes the administrative and technical rules and procedures to be used by national operators for the handling of different short codes in Sweden, including harmonised numbers for harmonised services of social value within the 116 serie and national corporate numbers in the 90 serie.

PTS has allocated the 116xxx serie for harmonised numbers for harmonised services of social value and national corporate numbers in 90 serie. Those will be assigned to end customers.

NOTE: As of today, only 116100—116199 is allocated with 6 digits number length. 1162—1169 is unallocated and the number length is not yet decided.

The 116xxx and 90xxx serie will create hundreds of individual numbers which will need to be implemented in different networks from time to time. Those numbers are per definition “not portable” and not included in any portability domain. This will give the national operators a big amount of number implementations and reimplementations, when a customer moves from one network to another.

The same problem applies to other short codes (11313, 114xx, 117x, and 118xxx) but there are a lot fewer numbers and less movement between operators and those series are already in service.

This application guide describes how to use the number portability capabilities for the routing of short codes 116xxx and 90xxx.

These short codes will technically be handled as “always ported” for the routing of them. This report may be extended in the future to also cover the above mentioned number series.

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## 1 Scope

The present document specifies the procedure for the handling of the new short codes in Sweden and is applicable to all operators providing telecommunication services in Sweden.

The present document covers procedures for the handling of the 116xxx and 90xxx number series, without proposing any change for the handling of other short codes.

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## 2 References (informative)

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ITS cannot guarantee their long term validity.

- [1] SS 63 63 91:2000, utgåva 2: "Number portability in Sweden - Administrative process for number portability, including the administrative interface and the central reference database".
- [2] PTS sammanställning av den svenska telefonnummerplanen.
- [3] PTS föreskrifter om tilldelning av nummerkapacitet: PTSFS 2003:3, ändrad genom PTSFS 2013:1
- [4] ITS ApG 9: "Transfer of number information in national Interconnection based on ISUP."
- [5] ITU-T Rec. E.101 (11/2009): "Definitions of terms used for identifiers (names, numbers, addresses and other identifiers) for public telecommunication services and networks in the E-series Recommendations".

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## 3 Definitions and abbreviations

### 3.1 Definitions

**national-only number [E.101]:** any telephone number, defined within a national numbering plan (NNP), which is only used and meaningful in the national dialling plan and is not reachable from abroad. Such numbers do not belong to the international E.164 numbering plan, nor do they conform to the structure of international E.164 numbers as defined in ITU-T Recommendation E.164. Countries in an integrated numbering plan may have different national-only numbers.

NOTE: In IETF RFC 3966, which defines the tel URI notation for telephone numbers, a national-only number is referred to as one type of local number.

### 3.2 Abbreviations

ACQ	All Call Query
CRefDB	Central Reference DataBase
IDN	International Directory Number
PTS	The Swedish Post and Telecom Authority
SNPAC	Swedish Number Portability Administrative Center

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## 4 Assignment process

The short codes are assigned directly by PTS to the end customer.

More detailed information regarding the procedures is provided in “Procedures and regulations”, issued by PTS (PTSFS 2003:3/PTSFS 2013:1), see [3].

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## 5 Routing information

Short codes in Sweden are per definition not portable and are national-only numbers.

However, to ease the implementation and routing of those numbers is anyway technically handled as always ported.

ACQ operators will therefore always prepend those numbers with a routing number in the interconnect interface.

The numbers is also prepended with a routing number for short codes to look like an E.164 number.

Report ITS ApG 9 has been updated to reflect this (from version 5.2).

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## 6 Administrative process

The administrative process is described in SS 63 63 91 [1].

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## 7 First implementation of each individual number

The end customer makes an agreement with a network operator.

The network operator starts a B1 transaction in CRefDB using his normal porting procedures. IDN is the short code prepended with “46 379”. The receiver of the message (donor operator) will be “Z02”.

The CRefDB (currently SNPAC) will answer this request positive or negative depending on the customer information after a check against the PTS assignment.

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## 8 Reimplementation process

The end customer makes an agreement with a new network operator.

The new operator handles this according to his normal number portability procedures where IDN is the short code prepended with “46 379”.

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## 9 Withdrawal process

If a short code is withdrawn, SNPAC will do a fake porting with recipient operator “Z02”. This will be automatically initiated by the CRefDB provider when a number is withdrawn by PTS. The Routing Number will be set to 501. ACQ operators shall give an error announcement and/or clear the call with disconnect cause code 1 (Unallocated (unassigned) number) when Routing Number 501 is used.

Routing Number 501 is assigned from the series of routing numbers that is reserved for the entity that is running the CRefDB.

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## History

<b>Document history</b>		
Edition 1	June 2009	Edition 1
v 1.2.1	June 2013	Updated version