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# SPECIFICATION OF THE NETWORK SIDE OF THE USER-NETWORK INTERFACE FOR ISDN-BA- AND ISDN-PRA NETWORK LAYER 3

Handling of the number information

ISDN - DSS1 - NETWORK LAYER 3 Handling of the number information Ref : BGC\_D\_48\_0210\_30\_01\_E.DOC Version: 1.1 of 10<sup>th</sup> April 2003 Page A

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# 0. Document history

Every update of this document results in a complete new version with new version number and release date.

Version	Date	Main or important changes since previous version					
1.0	31 OCT 2002	First version					
1.1	10 APR 2003	Rectification of some small editorial errors					

# 1. Scope

This document is applicable to the Siemens 'EWSD V16B' - and 'Alcatel S12 Pack 8' - switching systems.

It gives an overview of how the network handles number information related to reception and sending of calling and called party numbers in the ISDN-network. The specification is valid for both ISDN Basic Acces (BA) and ISDN Primary Rate Access (PRA).

Some parts of the technical implementation may be different in the two used switching systems. In this case, specific switch-dependent comments are added or tables are used explaining the technical implementation for both systems.

# 2. References

EN 300 403-1	ETSI-specification: Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification
ITU-T E.164	ITU-Recommendation : Overall network operation, telephone service, service operation and human factors; Operation, numbering, routing and mobile services - International operation - Numbering plan of the international telephone service
ITU-T I.330	ITU-Recommendation : Integrated Services Digital Network (ISDN); Overall network aspects and functions; ISDN Numbering and addressing principles
ITU-T I.333	ITU-Recommendation : Integrated Services Digital Network (ISDN); Overall network aspects and functions; Terminal selection in ISDN
EN 300 092-1	ETSI-specification: Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary Service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
ETS 300 356-3	ISDN User Part (ISUP) version 2 for international interface - Calling Line Identification Presentation (CLIP)
EN 300 052-1	ETSI-specification: Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary Service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
ETS 300 064-1	ETSI-specification: Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary Service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
ETS 301 484-1	ETSI-specification: Integrated Services Digital Network (ISDN); Line Hunting (LH) supplementary Service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

# 3. Symbols, definitions and abbreviations

For the purpose of the present document, the following symbols, abbreviations and definitions applies:

#### 3.1. Abbreviations

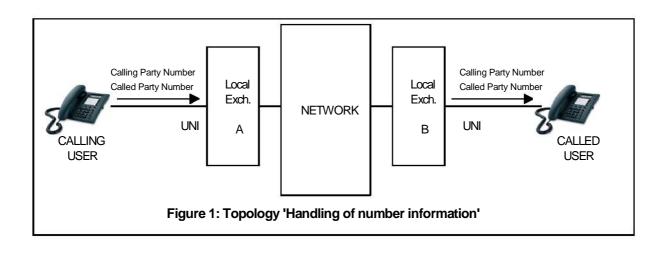
BA CC	Basic Access Country
	Code
CL	Calling Line Identity
1	Calling Line Identification Presentation
<u>CLIP</u>	Direct Dialling In
DDI	Digital Subscriber Signalling System No. one
DSS1	European Telecommunication Standard
ETS	
EWSD	Proximus Switching System of Siemens
<u>GDN</u>	General Directory Number
IAC	Indirect Access Code
IDN	Individual Directory Number
<u>ISDN</u>	Integrated Services Digital Network
ISUP	ISDN user part of signalling system No.7
<u>ITU</u>	International Telecommunication Union
NA	Nature of Address
NDC	National Destination Code
<u>NPI</u>	Number Plan Indication
NSN	National Significant Number
PI	Presentation Indicator Primary
<u>PRA</u>	Rate Access
S12	Proximus Switching System of Alcatel
<u>SI</u> <u>SN</u>	Screening Indicator
<u>SN</u>	Subscriber Number
SPS	Special Service Number
<u>T</u>	Type Of Number
ON	Virtual Private Number

VPN

Dofinit	
3.2. Definiti	
Bearer	A type of telecommunication service that provides the capability for the transmission of signals
service	between user-network interfaces.
Teleservice	A type of telecommunication service that provides the complete capability, including terminal
I Elesel vice	
	equipment functions, for communication between users according to protocols established by
	agreement between Administrations.
Basic service	A bearer service or teleservice. See also section "D.5 Formal definition of basic services" of ETS
	300 196-1
Network	In this description, network refers to all the ISDN telecommunications equipment that has any
	part in processing a call or a supplementary service for the user referred to. It does not include
	the ISDN terminal.
Defeut	
Default	An ISDN number registered within the public ISDN following prior agreement between the calling
<u>number</u>	party and the public ISDN.
Screening	A process whereby the network checks that a user provided information is acceptable to the
Ĵ	network.
Special	An agreement between a customer and a public network operator whereby customer supplied
Arrangement	calling party ISDN numbers are not screened by the public ISDN.
3	

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# 4. Topology



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# 5. Handling of CLG & CLD Party Number at the originating network side

Handling of the received Called an Calling Party Number at the originating network side wil be done based on three elements which are part of the ISDN DSS1 "Calling- or Called Party Number" I.E.: Numbering Plan Identification (NPI)

Type Of Number (TON) Number digits

#### Numbering Plan Identification (NPI)

The 'Numbering Plan Identification' (NPI) identifies the kind of numbering plan which is associated with a number. The following kinds of 'Numbering Plan Identification' shall be accepted by the network:

ISDN/Telephony numbering plan, i.e. E.164 Unknown

## Type of Number (TON)

The 'Type Of Number' (TON) indicates the format of the included 'number digits'. The following kinds of 'Type Of Number' shall be accepted:

Unknown National number International number

#### **Number digits**

ITU-T Recommendation E.164 provides the basic structure of (Directory) Numbers. This recommendation decomposes an international E.164 Number into specific code fields / parts:

National or international prefix Country Code (CC) National Destination Code (NDC) Subscriber Number (SN)

The structure of the numbering plan within the Proximus network can be described as follows:

Prefixes, codes and numbers	Abbr.	Decomposition	# digits
National prefix	-	0	1
International prefix	<u> </u>	00	2
Country codes	CC	<cc></cc>	1-3
National geographical number	NSN <sub>geo</sub>	<ndc> <sn> - NDC = "P" or "PQ"</sn></ndc>	8
		- SN = "XYZ KHDU" (X=29) or "YZ KHDU" (Y=29)	
National Non-	NSN <sub>non-geo</sub>	<ndc> <sn></sn></ndc>	8 or 9
geographical number	non geo		
Special Service number	SPS	1AB, 1ABC	3 or 4
Indirect access code	IAC	1ABC	4
Mobile number	NSN <sub>mob</sub>	$\leq$ NDC> $\leq$ SN>	9
VPN numbers	NSN <sub>vpn</sub>	< <u>NDC&gt; [P] XXXXXXX</u>	<u>4</u> <u>9</u> <u>9 or 10</u>
Abbr.:			
NSN National Significant N	lumber		
NDC National Destination	Code		
SN Subscriber Number			
VPN Virtual Private Netwo	rk		

5.1. Handling of the Calling party number at the originating network side

A calling ISDN user can insert the calling line identity at call request. The network shall screen the provided number.

Where the public ISDN screening is successful, the public ISDN shall complete this number to form a national ISDN number and the number shall be marked as "user provided, verified and passed".

If the user does not provide any number or the screening performed by the public ISDN is not successful, the public ISDN shall enter a default number marked as "network provided".

#### Screening will be done as follows:

The originating exchange shall verify whether the user provided number, received via the user access, is acceptable to the network. The acceptability is expressed in terms of two criteria. Both criteria have to be met to consider a user provided number acceptable. The two criteria are:

acceptable kind of number, based on the subscriber configuration

acceptable number format, based on the 'type of number' information

If any of these checks fail, the exchange shall ignore the received CALLING PARTY number information element and replace it with the default number.

#### Acceptable Kind of Numbers

This verification checks the correlation between the received number digits and the registered numbers for the given user access, taking into account the subscriber configuration. The table below indicates, per subscriber configuration, which kind of numbers shall be considered as being a valid user provided number:

Subscriber configuration		Acceptable numbers by	Acceptable numbers by			
		<u>S12 pack 8</u>	EWSD V16B			
Single ISDN BA		DN	DN			
		MSN	MSN			
ISD	N-BA Huntgroup	<u>GDN</u> <sup>(1)</sup>	None <sup>(3)</sup>	<u>GDN (4)</u>		
		IDN (2)	None <sup>(3)</sup>	IDN (4)		
13	SDN Indialing	GDN		GDN		
		DDI number		<u>DDI number</u>		
Notes:						
Note 1	The GDN will only be acc	epted as valid user provided number if it is receive	ed on line IDN_1	(IDN_GDN)		
Note 2	A certain IDN will only be	accepted as valid user provided number if it is rec	eived on its cor	responding line.		
Note 3	Engineering-method 1 (po will be entered as CLI tow	ure huntgroup without DDI); In this case no screening is done. Always the default number rards the Called Party				
Note 4	<b>e e</b> (	Intgroup with DDI); In this case screening is done. I ovided number, irrespective of the line on which th				
Abbr.:						
DN	Directory Number					
MSN	Multiple Subscriber Number					
GDN	General Directory Number					
IDN	Individual Directory Number					
DDI	Direct Dialling In					

## **Acceptable Number Formats**

Related to the number format, first of all a verification is done on the received 'Numbering Plan Identification'. Only following values for 'NPI' are accepted.

ISDN/Telephony numbering plan (E.164)

Unknown

All other received values will lead immediately to unsuccessful screening.

If the received NPI is one of the above mentioned values, a second verification will be done. This will be a correlation between the received number digits and the received 'type of number' information. The following combinations for 'Type Of Number' and 'Number digits' will be accepted:

User pr	ovided number
Type of number (TON)	Number digits
National	<u> ⊲NSN&gt;</u>
International	< <u>CC&gt; <nsn></nsn></u>
Unknown	0 <nsn></nsn>
Unknown	00 <cc> <nsn></nsn></cc>
Unknown	<nsn></nsn>
Notes:	
Abbr.:	
CC Country Code	
NSN National Significant Number	

If the screening is successful, the network shall create a CALLING PARTY NUMBER information element, with the following values for the different fields:

Parameter	Abbr.	Value
Type Of Number	TON	National
Numbering Plan Identification	NPI	ISDN/Telephony numbering plan (E.164)
Screening Indicator	SI	'User provided, verified and passed'
Presentation Indicator	PI	As determined by the CLIR supplementary service
Number digits	-	The number as provided by the user converted to the national
		number format

If the screening fails or if no Calling Party Number information element is received, the network shall create a Calling Party Number information element, with the following values for the different fields:

Parameter	Abbr.	Value
Type Of Number	TON	National'
Numbering Plan Identification	NPI	'ISDN/Telephony numbering plan (E.164)'
Screening Indicator	<u>SI</u>	<u>'Network provided'</u>
Presentation Indicator	PI	As determined by the CLIR supplementary service
Number digits	-	The default number associated with the access of the calling user
		in national format

In both cases, the Calling Party Number information element shall be forwarded to the destination network in association with the basic call setup procedure.

In case of an international call, the international switching center will add the country code to the calling number .

5.2. Handling of the Called Party Number at the originating network side

If a calling ISDN user wants to set up a call to a certain destination, he has to insert a CALLED PARTY NUMBER at call request. Before starting with the establishment of the call, the network shall perform some checks on this CALLED PARTY NUMBER.

#### Following checks will be done :

The originating exchange shall verify whether the Called Party Number provided by the calling user, is correctly formatted or not. Depending on the type of call, specific combinations of 'Type of Number' and 'Number digits' will be correct or not.

First of all a verification is done on the received 'Numbering Plan Identification'. Only following values are accepted. All other received values will lead to unsuccessful call establishment.

ISDN/Telephony numbering plan (E.164)

Unknown

If the received NPI is one of the above mentioned values, a second verification will be done. This will be a correlation between the received 'number digits' and the received 'type of number' information. This correlation will depend on the type of call that has to be established. The following combinations will lead to a correct call establishment:

Type of call		Type Of Number	Number digits		
Call to geographical number		Unknown	0 <nsn<u>aea≥</nsn<u>		
		National	< <u>NSN<sub>geo</sub>&gt;</u>		
Call to nor	n-geographical number	<u>Unknown</u>	<u>0 <nsn<sub>non-geo&gt;</nsn<sub></u>		
		National	<nsn<u>non-geo&gt;</nsn<u>		
	ecial Service Number	<u>Unknown</u>	<u><sps></sps></u>		
	irect Access Code	Unknown	<iac> <subsequent string=""></subsequent></iac>		
Call to mol	bile number	Unknown	0 <nsn<u><sub>mob</sub>&gt;</nsn<u>		
		National	<u><nsn<sub>mob&gt;</nsn<sub></u>		
Call to VPI	N number	Unknown	0 <nsn<u>vpn≥</nsn<u>		
		National	< <u>NSN<sub>vpn</sub>&gt;</u>		
Internation	al Call	Unknown	00 <cc> <nsn></nsn></cc>		
		International	<cc> <nsn></nsn></cc>		
Abbr.:					
NSN	National significant number				
SPS	Special service number				
IAC	Indirect access code				
CC Country code					
GEO Geographical number					
NON-GEO	Non geographical number				
MOB	Mobile number				
<u>VPN</u>	Virtual private number				

# 6. Handling of CLG & CLD Party Number at the destination network side

6.1. Handling of the Calling party number at the destination network side

If the B-user has subscribed for the CLIP suppl. service, than he shall receive information about the Calling Line Identiy (CLI) for each incoming call. In some networks a special arrangement may exist whereby calling party provided numbers are not fully screened by the originating network. In this case the called network side access will receive two CLI's, both numbers shall be presented in a separate Calling Party Number I.E. - the user provided number shall be presented first. The following table gives a detailed description on how the CALLING PARTY NUMBER I.E.(s), sent to the called user, shall be coded, depending on the received info from the originating network. In case of the 2-number delivery option, the table containes both the user provided unscreened and the network provided number.

#### No special arrangement at the originating network (screening is performed)

Туре	pe Incoming National ISUP				CLD DSS1 on terminating user						
of call	PI	SI	NP	NOA	Address digits	CLIR over ride	PI	SI	NPI	TON	Number digits
National	Allowed	User prov., I verified and passed	SDN/Tel.	Nat.	<nsn>_user</nsn>	-	Allowed	User provided, verified and passed	ISDN/Tel.	National	<nsn>_user</nsn>
National	Restricted	User prov., I verified and passed	SDN/Tel.	Nat.	<nsn>_user</nsn>	No	Restricted	Network provided	Unknown	Unknown	None
National	Restricted	User prov., I verified and passed	SDN/Tel.	Nat.	<nsn>_user</nsn>	Yes	Restricted	User provided, I verified and passed	SDN/Tel.	National	<nsn>_user</nsn>
Internat.	Allowed	User prov., I verified and passed	SDN/Tel. In	t.nat.	<cc><nsn>_user</nsn></cc>	-	Allowed	User provided, verified and passed	ISDN/Tel.	Internat.	<cc><nsn>_user</nsn></cc>
Internat.	Restricted	User prov., I verified and passed	SDN/Tel. In	t.nat.	<cc><nsn>_user</nsn></cc>	No	Restricted	Network provided	Unknown	Unknown	None
Internat.	Restricted	User prov., I verified and passed	SDN/Tel. In	t.nat.	<cc><nsn>_user</nsn></cc>	Yes	Restricted	User provided, I verified and passed	SDN/Tel.	Internat.	<cc><nsn>_user</nsn></cc>

#### Succesful screening at the originating network

<NSN> user <CC><NSN> user

<CC><NSN>\_default

The number as provided by the user converted to the national number format

The number as provided by the user converted to the international number format

#### Unsuccesful screening at the originating network

Туре	Incoming National ISUP					CLD	DSS1 on terminating user				
of call	PI	SI	NP	NOA	Address	CLIR	PI	SI	NPI	TON	Number
					digits	over					digits
			11			ride			1		
National	Allowed	Network	ISDN/Tel.	Nat.	<nsn>_default</nsn>	-	Allowed	Network	ISDN/Tel.	National	<nsn>_default</nsn>
		provided						provided			
National	Restricted	Network	ISDN/Tel.	Nat.	<nsn>_default</nsn>	No	Restricted	Network	Unknown	Jnknown	None
		provided	00			s		provided			
National	Restricted	Network	ISDN/Tel.	Nat.	<nsn>_default</nsn>	Yes	Restricted	Network	ISDN/Tel.	National	<nsn>_default</nsn>
		provided						provided			
Internat.	Allowed	Network	ISDN/Tel.	nt.nat. <	CC> <nsn>_default</nsn>	-	Allowed	Network	ISDN/Tel.	Internat.	<cc><nsn>_default</nsn></cc>
		provided						provided			
Internat.	Restricted	Network	ISDN/Tel.	nt.nat. <	CC> <nsn> default</nsn>	No	Restricted	Network	Unknown	Unknown	None
		provided			_			provided			
Internat.	Restricted	Network	ISDN/Tel.	nt.nat. <	CC> <nsn> default</nsn>	Yes	Restricted	Network	ISDN/Tel.	Internat.	<cc><nsn> default</nsn></cc>
		provided			_			provided			
Abbr.:	I I	<u> </u>	1		I	<u> </u>	-	<u></u>	I	I	
<nsn> default The default number associated with the access of the calling user in national format</nsn>											

The default number associated with the access of the calling user in national format The default number associated with the access of the calling user in international format

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# Special arrangement at the originating network (no screening is performed)

The "Special arrangement"-option is currently not commercialized by Proximus, but it can be offered by other national licensed operators or other international operators. If the Proximus network receives Calling Line Identity information due to the "Special arrangement"-option at the originating network, it will pass this info on the terminating subscriber line. Two separate Calling Party Number information elements will be included in the DSS1 SETUP-message. The number received in the Generic Number ISUP parameter is included as the first DSS1 Calling party number information element and the Calling Party number ISUP parameter is included as the second DSS1 Calling Party Number information element.

Туре		Inco	ming Nation	nal ISUP		CLD	LD DSS1 on terminating user				
of call	PI	SI	NP	NOA	Address digits	CLIR over <u>ride</u>	PI	SI	NPI	TON	Number digits
National		Network provided	ISDN/Tel.		<nsn>_default</nsn>	-	Allowed	Network provided	ISDN/Tel.		<nsn>_default</nsn>
		eceived in 'Calling ser provided, IS not screened (received in 'Gen	DN/Tel. Na	t. or Int.nat.	<digits_user></digits_user>	5	Allowed U	<u>(second 'Calli</u> Iser provided, IS not screened <u>(first 'Calling</u>	DN/Tel. Na		<digits_user></digits_user>
National	Restricted	Network provided	ISDN/Tel.	Nat.	<nsn>_default</nsn>	No	Restricted	Network provided	Unknown	Unknown	None
	Restricted	eceived in 'Calling User provided, I not screened (received in 'Gen	SDN/Tel. N	at. or Int.nat.	<digits_user></digits_user>			(only one 'Call	ling Party Nu	imber' DSS1	I.E.)
National	Restricted	Network provided eceived in 'Calling	ISDN/Tel.		<nsn>_default</nsn>	Yes	Restricted	Network provided (second 'Calli	ISDN/Tel.		<nsn>_default</nsn>
	Restricted	User provided, I not screened (received in 'Gen	SDN/Tel. N	at. or Int.nat.	<digits_user></digits_user>		Restricted	User provided, I not screened	SDN/Tel. N		<digits_user></digits_user>
Internat.	Allowed	Network provided eceived in 'Calling	ISDN/Tel.	Int.nat. <	C> <nsn>_default</nsn>	-	Allowed	Network provided (second 'Calli	ISDN/Tel.	nternat. <c< td=""><td>C&gt;<nsn>_default</nsn></td></c<>	C> <nsn>_default</nsn>
		ser provided, IS not screened (received in 'Gen			<digits_user> ameter)</digits_user>		Allowed	Iser provided, IS not screened (first 'Calling)		ernat. ber' DSS1 I.E	<digits_user></digits_user>
Internat.	Restricted	Network provided eceived in 'Calling User provided, I not screened (received in 'Gen	party numb SDN/Tel. In eric number	er' ISUP p t.nat. ISUP par	<digits_user> ameter)</digits_user>	No	Restricted	Network provided (only one 'Call	Unknown ling Party Nu		None I.E.)
Internat.		Network provided eceived in 'Calling User provided, I not screened (received in 'Gen	<u>party numb</u> SDN/Tel. N	<u>er' ISUP r</u> at. or Int.nat.	<digits_user></digits_user>	Yes	Restricted Restricted	Network provided <u>(second 'Calli</u> User provided, I not screened <u>(first 'Calling</u>	i <u>ng Party</u> Nui SDN/Tel. In	mber' <u>DSS1</u>	<digits_user></digits_user>
Abbr.:	Abbr.:										
<nsn>_</nsn>	default	The defau	ılt number a	associate	ed with the access of t	he calling	g user in na	tional format			
	<cc><nsn>_default The default number associated with the access of the calling user in international format</nsn></cc>										
<digits_u< td=""><td colspan="10"><digits_user> The number digits as provided by the user</digits_user></td></digits_u<>	<digits_user> The number digits as provided by the user</digits_user>										

CLI (correctly) delivered by originating user

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# CLI not (correctly) delivered by originating user

Туре	Incoming National ISUP					CLD	D DSS1 on terminating user				
of call	PI	SI	NP	NOA	Address digits	CLIR over ride	PI	SI	NPI	TON	Number digits
National	Allowed	Network provided	ISDN/Tel.	Nat.	<nsn>_default</nsn>	-	Allowed	Network provided	ISDN/Tel.	National	<nsn>_default</nsn>
National	Restricted	Network provided	ISDN/Tel.	Nat.	<nsn>_default</nsn>	No	Restricted	Network provided	Unknown	Jnknown	None
National	Restricted	Network provided	ISDN/Tel.	Nat.	<nsn>_default</nsn>	Yes	Restricted	Network provided	ISDN/Tel.	National	<nsn>_default</nsn>
Int.nat.	Allowed	Network provided	ISDN/Tel.	Int.nat. <	CC> <nsn>_default</nsn>	-	Allowed	Network provided	ISDN/Tel.	Internat.	<cc><nsn>_default</nsn></cc>
Int.nat.	Restricted	Network provided	ISDN/Tel.	Int.nat. <	CC> <nsn>_default</nsn>	No	Restricted	Network provided	Unknown	Jnknown	None
Int.nat.	Restricted	Network provided	ISDN/Tel.	Nat.	<cc><nsn>_default</nsn></cc>	Yes	Restricted	Network provided	ISDN/Tel.	Internat.	<cc><nsn>_default</nsn></cc>
Abbr.:	ī i					82 	6		8		18

<NSN>\_default

The default number associated with the access of the calling user in national format <CC><NSN>\_default The default number associated with the access of the calling user in international format 6.2. Handling of the Called party number at the destination network side

Depending on the type of subscriber configuration, the Called Party Number sent by the network can be different.

Three types of subscriber-configurations can be defined :

Single ISDN-BA ISDN-BA Huntgroup ISDN Indialling

Type of s	subscriber configuration	NPI	TON	Number digits				
Single IS	SDN-BA	ISDN/Telephony	National	NSN <sub>DN or MSN</sub>				
ISDN-BA	A Huntgroup S12 Pack 8	ISDN/Telephony	National	NSN <sub>GDN or IDN</sub>				
ISDN-BA	A Huntgroup EWSD V16B (1)	No Called Party Number delivered						
ISDN-BA	A Huntgroup EWSD V16B <sup>(2)</sup>	ISDN/Telephony	<u>National</u>	<u>NSN<sub>GDN</sub> or IDN</u>				
ISDN Inc	dialling	ISDN/Telephony	National	NSN <sub>GDN</sub> or DDInumber				
Notes:								
Note 1	Engineering-method 1 (Pure huntgroup without DDI)							
Note 2	Engineering-method 2 (Huntgroup	with DDI)						
Abbr.:	Abbr.:							
NPI	Numbering Plan Identification							
TON	Type Of Number							
NSN	National Significant Number							
DN	Directory Number							
MSN	Multiple Subscriber Number							
GDN	General Directory Number							
IDN	Individual Directory Number							
DDI	Direct Dialling In							