Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of the Environment, Transport, Energy and Communications DETEC

Federal Office of Communication OFCOM

Assistance in requesting a Network Service Access Point (NSAP)

Rules for allocation

The order must specify:

1. The format requested (decimal or binary addressing domain);
2. The number of planned systems.

Supplementary information

Allocation of ISO-DCC format NSAP addresses

Reference to standards

Allocation of DCC format NSAP addresses is based on ITU-T X.213 and Swiss Standard SN 074020.

Allocation of ICD format NSAP addresses

Reference to standards

Allocation of ICD format NSAP addresses is based on ITU-T X.213.

Format of the NSAP address

An NSAP address is composed of an initial domain part (IDP) and a domain specific part (DSP).

IDP	DSP

IDP field

The IDP field is composed of two parts: the authority and format identifier (AFI) and the initial domain identifier (IDI).

IDP	
AFI	IDI

AFI field

The value of the AFI specifies the abstract syntax of the DSP, i.e.:

AFI code	Abstract syntax	NSAP address format
38	Decimal	ISO-DCC
39	Binary	ISO-DCC
46	Decimal	ICD
47	Binary	ICD

IDI field

For ISO-DCC format NSAP addresses

The IDI is defined according to the ISO country code (Standard ISO 3166) which for Switzerland is:

For AFI = 38: IDI = 756 (decimal syntax)

For AFI = 39: IDI = 756F (hexadecimal syntax)

For ICD format NSAP addresses

The IDI is composed of a 4-digit international code designator (ICD) assigned to the Office by the BSI in accordance with ISO 6523, i.e.:

For AFI = 46 (decimal syntax) or 47 (hexadecimal syntax):

IDI = 0081.

DSP field

The DSP field is composed of two parts: the "Swiss domain part" (CHDP), assigned by the Office to an organisation and the "Swiss domain specific part" (CHDSP), available to the said organisation

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<tr><td colspan="2">CHDP</td><td>CHDSP</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>CHFI</td><td>CHDI</td><td></td></tr>
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The CHDP is also composed of two parts: CHFI and CHDI. The CHFI can be used to group organisations into three or four categories according to the type of abstract syntax (decimal or binary). The CHDI enables identification of an organisation within this category.

DSP: decimal abstract syntax (AFI = 38 (ISO-DCC) or 46 (ICD))

CHFI	CHDI	CHDI length	CHDSP max. length	Type of organisation
0 - 10	Reserved			
11	nn	2 digits	30 digits	Large
12 - 20	Reserved			
21	nnnn	4 digits	28 digits	Medium
22 - 30	Reserved			
31	nnnnnnnn	8 digits	24 digits	Small
32 -99	Reserved			

DSP: binary abstract syntax (AFI = 39 (ISO-DCC) or 47 (ICD))

CHFI	CHDI	CHDI length	CHDSP max. length	Type of organisation
/0 - /10	Reserved			
/11	/aa	1 octet	15 octets	Large
/12 - /20	Reserved			
/21	/aaaa	2 octets	14 octets	Medium
/22 - /30	Reserved			
/31	/aaaaaaaa	4 octets	12 octets	Small
/32 -/7F	Reserved			
/80	/aaaaaa	3 octets	13 octets	US GOSIP structure
/81-/FF	Reserved			