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SS7 Point Code

Like IP addresses in TCP/IP networks, point codes in [SS7](#) networks identify individual network elements. Every element needs address (a point code). Every link is considered point-to-point, but could be established from different elements of [SS7](#) Network, so it could be named from A-Link (B-Link..., C-Link) to F-Link. In most cases you either use A-Link or F-Link.

Identification of international SS7 SP's (Signalling Points) is done using a Network Indicator NI=00 in the MTP (Message Transfer Part). Instead of our 24bit point code system, ISPCs (International Signalling Point Codes) are only 14bit.

ISPC Format:

```
—  
| N M L | K J I H G F E D | C B A |  
| 3bits | 8bits | |  
|<----->|<----->|  
| Signalling Area Network Code (SANC) | SP ID* |  
|<----->|<----->|  
| International Signalling Point Code (ISPC) |  
|<----->|
```

☐ SP ID= Signalling Point Identification

The first three most significant bits (NML) have a range of 0 to 7
The following eight bits (K-D) have a range of 000 to 255
The fields (bits) NML and K-D represent the SANC.

The three least significant bits (CBA) with a range of 0 to 7 identifies an SP when combined with the SANC. This is an ISPC. (ex, 3-133-7)

An IP address is a four byte (each has 8 bits) integer (so 32 bit in total), noted for convenience like that:

3-133-7

or in decimal



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$7 + 133 * 8 + 3 * 4096 = 12288$ (dec)

or hex:

3000 (hex)

in * you could use either the ISPC format (so A-B-C) or decimal (N).

[Telcordia](#) Technologies is responsible for the administration and assignment of SS7 point codes in the United States and other North American Numbering Plan [NANP](#) countries.

See Also

- ▣ [USA SS7 Point Code page](#)
- ▣ [UK SS7 Point Code page](#) Ofcom are the public body that allocate Point Codes to telcos in the UK
- ▣ [Germany SS7 Point Code page](#) Bundesnetzagentur are the Federal Agency that allocate NSPC's to telcos in Germany
- ▣ [ISPC Format](#) Identification of international SS7 SP's(Signalling Points) is done using a Network Indicator NI=00 in the MTP(Message Transfer Part

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