NEAX 2000IPS Sip Trunking

The following is an example for programming 8 SIP Trunks connected to an external SIP Trunk Provider. The example also includes Inbound and Outbound Calling Party Number assignments as well as inbound DID assignment.

Sip Trunk Assignment

Sense Wheel, Trunk Route, and Trunk numbers are examples only.

1. **CM050>08>46** Assign AP sense wheel (**08**) to a setting of **46** (Sip Trunk Card).
2. **CM058>08>0099** Assign AP sense wheel (**08**) to be accommodated in the main site where **00** = FP 00 and **99** = AP card. *SIP trunks are only supported in main the site of a remote PIM network.*
3. **CM0607 >0>08** Assign SIP Channel Number (**0**) to the AP sense wheel (**08**).
4. **CM0701> 0800~0807>D100~D107** For sense wheel **08** assign channels **00~07** Trunks **100~107.** *A minimum of 8 trunks should be assigned. Up to 32 trunks can be assigned per card.*
5. **CM0A00>00>080** Assign the LAN Interface Number (**00**) to the AP sense wheel (**08**). *Up to 32 LAN Interfaces can be assigned to the IPS. 8 of these can be the 8IPTA for SIP Trk.*
6. **CM0A01>00>192168100100** Assign an IP address to LAN interface number (**00**). *This must be a static address usually provide by the LAN administrator.*
7. **CM0A02>00>255255255000** Assign a Subnet Mask to LAN Interface Number (**00**).
8. **CM0A03>00>192168100155** Assign the Default Gateway to LAN Interface Number (**00**).
9. **CM14>03127>D254** Assign Control Trunk to an unassigned phantom LEN. *Do not assign trunk D255. If Peer to Peer CCIS is already utilized in the system assign trunk D253.*
10. **CM3000>100~107>20** Assign Trunks (**100~107**) to a Trunk Route (**20**). *Assign **VOICE** channels **ONLY.** Unused trunks should be assigned to a dummy trunk route. E.g. 63.*
11. **CM3500>20>04** or **00** Assign SIP voice route as a Tie Trunk (**04**) or (**00**) SIP Trunk.
12. **CM3504>20>2** Assign the SIP voice route to Answer signal arrives (**2**).
13. **CM3509>20>03** Assign the SIP voice route to Wink incoming signaling (**03**).
14. **CM3520>20>00** Assign the SIP voice route to Wink outgoing signaling (**00**).
15. **CM3590>20>0** Assign the SIP voice route for SIP Trunk facilities.
16. **CM3591>20>0** Assign the SIP voice route (**20**) to SIP Channel assigned in step 3 (**0**).
17. **CM3035>100~107>001~008** Assign CIC codes for each SIP voice trunk (**100~107**) (CIC **001~127** available)
18. **CMA700>0>254** Assign the SIP Channel (**0**) to utilize the phantom trunk, assigned in step 9 (**254**) for communication
19. **CMA701>0>00001** Assign an Originating Point Code to the SIP Channel (0). *If Peer to Peer CCIS is already utilized in the system the same OPC can be used.*
20. **CMA702>0>00002** Assign a Destination Point Code to the SIP Channel (0). *The DPC must be unique from all other DPC's assigned in CMA702 or CM A8.*
21. **CMA770>0>00** Assign the SIP Channel (**0**) to the LAN Interface Number (**00**).
22. **CMA771>0>00** Assign the SIP Channel (**0**) to a Profile Number (**00**) *A Profile Number is utilized by the BM commands to assign SIP features and functionalities.*
23. **CMA8>00002>0** Assign the Destination Point Code (**00002**) to the SIP Channel (**0**).
24. **CMBA30>00>192168100200** To the Profile Number (**00**) assign the IP Address of the SIP Server/SIP carrier. *The NEAX 2000 IPS can only be assigned a SIP IP Address. A URL destination is not supported.*
25. **CMBA31>00>05060** To the SIP Profile Number (**00**) assign the SIP Server Port (**05060**).

Outgoing CALLER ID Programming

1. **CM08>379>0** Assign maximum number of 24 dialed digits sent to the SIP Trunk
2. **CM1212>Station Number>XXXX** Assign the last **4 digits** of the Caller ID to be sent to the Network. **NOTE:** *Assignment for CPN over SIP requires either steps 2 and 3* ***OR*** *steps 4 and 5. Step 9, (LCR), will then utilize only one of these pair of steps for the outbound CPN on the number dialed.*
3. **CM1213>Station Number>00** To the station assign a Local Office Table number (**00**). *Table numbers* ***00~14*** *are available and maybe shared with existing ISDN CPN programming.*
4. **CM1246>Station Number>XXXX** Assign the last **4 digits** of the Caller ID to be sent to the Network. *See* ***NOTE:*** *at step 2.*
5. **CM1247>Station Number>00** To the station assign a Local Office Table number (**00**). *Table numbers* ***00~14*** *are available and maybe shared with existing ISDN CPN programming.*
   CM5005>00>XXXXXXX To the Table Number (**00**) assigned in step 3 or step 5 Assign the ISDN/SIP Local Office Code. *This number will precede the four digit number (assigned in either step 2 or step 4) in the CPN on the outgoing call.*
6. **CMA726>0>0** Provide Name Display to the SIP Channel (**0**).
7. **CMA728>0>0** To the SIP Channel (**0**) provide Calling Party Information transferring service.
8. **CM8A5XXX>176>01/02** To the LCR Pattern (**XXX**) send ISDN/SIP subscriber assigned by CM1212, CM1213 (**01** see steps 2,3) or by data assigned in CM1246, CM1247 (**02** see steps 4,5)
9. **CMBA32>00>2145551212** To the Profile Number assign a Calling Party Number for the SIP Trunks. *It is recommended the customers main billing number be assigned.*
10. **CMBA44>00>01** To the Profile Number (**00**) provide a Calling Party Number (from step 9) when there is not one assigned to the station initiating the call. *If a station does not have steps 2~5 above assigned, the call will use the CPN assigned in step 9.*

Incoming CALLER ID Programming

CMBA126>00>0 Assign the Profile Number (**00**) to display the CPN in the “From” field of the incoming SIP INVITE message. **Note:** *Only Calling Party Number is supported. Calling Party Name is not available.*

Incoming DID Programming

Example:

Converting DID 9725015905 to station 2000

1. **CM3518>20>0** Assign digit conversion for the SIP Trunk route (**20**).
2. **CM35170>20>0** Assign the SIP Trunk Route (**20**) to utilize DID Development Table 1.
3. **CM35171>20>15** Assign the number of digits received on the SIP Trunk Route (**20**). *A setting of 15 = 4 digits.*
4. **CM3001>100~107>02** Assign SIP Trunks (**100~107**) to and unused Tenant (**02**).
5. **CM29>02>711** Assign the Tenant in step 4 (**02**) to utilize an unused Numbering Plan (**711**). *4 numbering plans are available 710~713.*
6. **CM201>9>804** Assign the leading digit of DID number (**9**) as a 4 digit station number (**804**) for the numbering plan assigned in step 5.
7. **CM7690>5905>000** Assign the last **4 digits** of the DID number to a conversion block (**000~999** available).
8. **CM7601>000>2000** Assign Day Mode terminating destination for conversion block **000** to station **2000**.
9. **CM7602>000>2000** Assign Night Mode terminating destination for conversion block **000** to station **2000**.
10. **CM7603>000>2000** Assign Mode A terminating destination for conversion block **000** to station **2000**.
11. **CM7604>000>2000** Assign Mode B terminating destination for conversion block **000** to station **2000**.

Conditions/Requirements

- **1** CCIS Link license and **1** IP Trunk license is required per 8IPTA card
- A maximum of **64** SIP trunks can be assigned or 8 IPTA cards.
- 8IPTA card uses AP Timeslots **(8~32 timeslots per card)**, Upper Highway is **NOT** available for this card.
- 8IPTA card does **NOT** support Link Reconnect.