T1 ANI for the NEAX 2000

Pre-cautions:-

1. Always whenever possible push for the installation of an ISDN PRI span before being forced to settle for a T1 ANI span. After your first attempt at T1-ANI you will understand this statement.

2. T1 ANI is incoming MF signaling. The NEAX 2000 and 2400 support this but if out bound calls are to be made on the span, the PBX utilizes DTMF signaling. Many CO's can **ONLY** support MF in both directions and cannot support the outbound DTMF so the span may have to be re-configured into 2 groups. One for the inbound MF calls (with no outbound) and the other for the outbound DTMF calls (with no inbound).

3. Feature Group D is a supported format and as it is a standard, the easiest to implement. It is highly recommended that this format be requested from the carrier. Other formats may work but can take considerable time to implement if you do not have the right test equipment E.g. a Sage unit.

4. This feature is available on the NEAX 2000 starting with 1300 series IVS and above. It requires a T1 card and a 4RSTB receiver card. Be sure you DO NOT have a 4RSTB-911 card. This card looks identical but is a MF sender and not a receiver.

5. CPN (caller ID) is NOT send on an out bound call with this application. This is a limitation of this type of span not a PBX limitation.

6. The ANI format you need to receive for Feature Group D is as follows….

    KP + **II** + **7 to 10 Digits** + **ST** then **KP** + **0** or **1** + **3 to 10 Digits** + **ST**

    ANI information   **Called number (DID/DNIS)**

    KP = Key Pulse.
    II = Information digits (2 digits used for line status, conditions, etc. **CANNOT** be stars).
    Digits = Calling and Called party numbers sent in Multi Frequency.
    ST = Start Pulse.

7. ANI information will display on the Dterm while ringing only if the call is directed to the Prime of the station. If the call is directed to a virtual the ANI will only be viewed once the call is answered.

8. Once answered the ANI information will display in the Dterm for 6 seconds before disappearing. The number will re-appear if the F5010 key is pressed, the call is placed on hold and then recovered, or if the call is transferred the receiving station will see the ANI information for 6 seconds.

9. ANI information can be routed over CCIS with IVS 1800 series software or higher (SC00 chip rev CD 0.02 or higher) and can be transferred over CCIS with IVS2 2100 series software or higher.

10. With R8 software (H1) an enhancement allows the incoming ANI to stay in the Dterm Display for the length of the call by flagging CM 08>537>0. To keep the number dialed, on an outgoing call, in the display CM 08>538>0 can be set.

PBX Programming.

Sense wheels, trunk numbers, and trunk route are for example only.

1. CM 050>06>09   Assign the T1 card
2. CM 050>07>08   Assign the 4RSTB
3. CM 08>472>0   Allow ANI on termination of incoming call.
4. CM 09>52>0   Assign MF signaling to the system.
5. CM 0701>0600~0623>D200~D223   Assign trunks to the T1 card.
6. CM 3000>200~223>30   Assign trunks to an available trunk route.
7. CM 3500>30>00   Assign the trunk route as CO.
8. CM 3504>30>2   Set trunk route for answer signal arrives.
9. CM 3509>30>03   Set the trunk route for incoming wink.
10. CM 3510>30>0   Cancel 2nd dial tone being sent to network.
11. CM 3520>30>00   Set trunk route for outgoing wink.
12. CM 3537>30>0   Assign MF signaling to the trunk route.
13. CM 3548>30>0   Busy/Idle setting not sent to trunk route.
14. CM 35129>30>1   Assign T1-ANI to the trunk route.
15. CM 0604>00~03>070~073   Assign MF receivers to circuits on AP card.
16. CM AA00>06>0   Set T1 for AT&T specs
17. CM AA07>07>1   Assign T1-ANI to 4RSTB card.
18. CM 312>0>3   Assign 4RSTB circuits as a Receiver.
19. CM 313>00>NONE   Default setting for FGD format.
20. CM 311>2>04   Number of digits in the called number (DID/DNIS).
21. CM 31A>17>1   Default setting for FGD format.
22. CM 31A>16>0   Send and ACK-Wink after received DID/DNIS.
23. CM 31A>18>1   Default setting for FGD format.
24. CM 311>3>10   Number of ANI digits from the network.
25. CM 31A>14>02   Delete the leading 2 information digits from ANI.

Optional additional CM's

1. CM 08>462>0   Send received ANI information to OAI (CCW).

2. CM 08>463>0   Send the received ANI information to SMDR.

3. CM 08>379>0   Expanded digits over CCIS.

4. CM A728>X>0   ANI sent/received over CCIS where X = CCH #.
                                         Must have IVS 1800 series software or higher.
                                         SC00 chip CD0.02 or higher.
                                         Station transfer of ANI over CCIS IVS2 2100 series
                                         Software or higher.

Part numbers

SPN-24DTAC-B (T1 card)   151232 (For NEAX 2000IPS)

SPN-4RSTB-B (Register Card)   151207