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Loop Product T1/E1 Pass-Through Voice Circuits
December, 2011

The illustration below shows a voice circuit routed through a pass-through E1 or T1 circuit. E&M, FXS and FXO circuits all require that the pass through DS-0s be set to voice. See mapping illustrations further below that show the voice designation from the serial/telnet screens and the Map34 software.

Voice Circuits with a mid-point pass-through requires CAS on and a voice setting for the pass-through DS-0s

E1 or T1

E1 or T1

E1 or T1
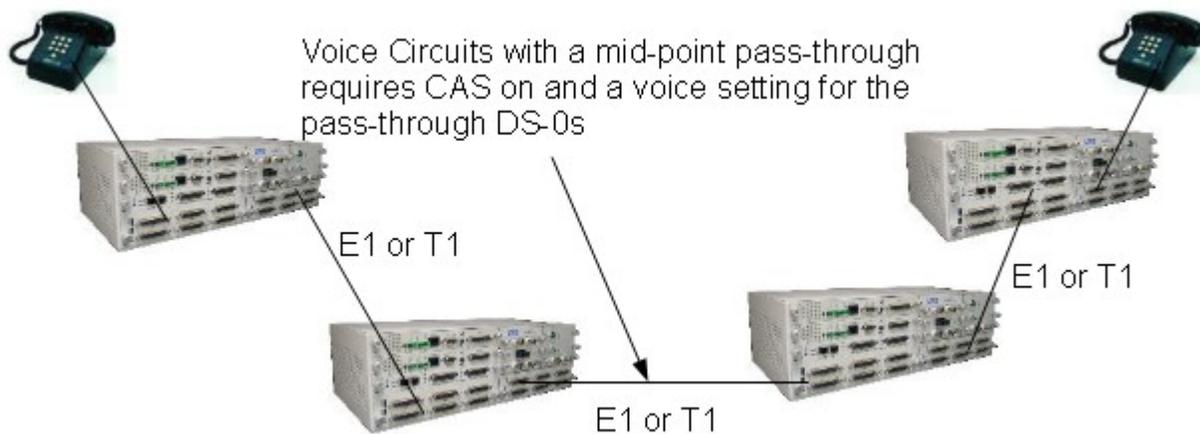
AM3440 serial/tenet console mapping screen. Note the "v" designation.

```
LOOP AM3440-A           === System Setup (MAP) ===        10:17:03 12/15/2011
ARROW KEYS: CURSOR MOVE, TAB: ROLL OPTIONS
MAP NO: MAP_1
            Target      Quad-T1 CAS            Source      Quad-T1 CAS
Target      PO/TS D SL/PO TS PO/TS D SL/PO TS  PO/TS D SL/PO TS PO/TS D SL/PO TS
Slot  :  1  ===== ========== ===== ==========  ===== ========== ===== ==========
Port  : P1   1  1 v  1  2  1    17 d            2  1 v  1  1  1    17 d
T.S.  : 01      2 d               18 d             2 d               18 d
                3 d               19 d             3 d               19 d
                4 d               20 d             4 d               20 d
T.S.# : 01      5 d               21 d             5 d               21 d
Clear : No      6 d               22 d             6 d               22 d
d/v   : v       7 d               23 d             7 d               23 d
                8 d               24 d             8 d               24 d
                9 d                                9 d
Source         10 d                               10 d
Slot  :  1     11 d                               11 d
Port  : P2     12 d                               12 d
T.S.  : 01     13 d                               13 d
               14 d                               14 d
Confirm?Yes    15 d                               15 d
               16 d                               16 d
```

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The serial/tenet console screen shot below is the mapping summary. Here again we see the "v" designation for the voice pass through DS-0 between the T1s.

```
LOOP AM3440-A           === System Configuration (Map) ===   10:19:46 12/15/2011
ARROW KEYS: CURSOR MOVE, TAB: ROLL OPTIONS
Map  Number:MAP_1

Slot Number: 1    Quad-T1     PO/TS D SL/PO TS    PO/TS D SL/PO TS
Port Number:P1    CAS         ===== ==========    ===== ==========
                          1  1 v  1  2  1            17 d
                             2 d                     18 d
                             3 d                     19 d
                             4 d                     20 d
                             5 d                     21 d
                             6 d                     22 d
                             7 d                     23 d
                             8 d                     24 d
                             9 d
                            10 d
                            11 d
                            12 d
                            13 d
                            14 d
                            15 d
                            16 d
```

Note below the T1 setting with CAS ON. Set CAS ON before mapping.

```
SLOT 1 Quad-T1 PORT 1       === Port System Setup ===        10:22:23 12/15/2011
ARROW KEYS: CURSOR MOVE, TAB: ROLL OPTIONS

     FRAME      = ESF&T1.403
     CODE       = B8ZS
     YEL        = ON
     AIS        = FRAMED
     CAS        = ON
     SIGNALLING = TRANS
     CGA        = NORM
     OOS        = BUSY
     INBAND     = ON
     IDLE       = FF
     INTF       = LONG HAUL
     LBO        = 0 dB
     FDL        = FDL
     Protected  = DISABLE
```

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The following is a mapping illustration of a pass through T1 circuit coming in one port of an AM3440 and going out a second port of the same AM3440. The DS-0 illustrated is carrying voice traffic and must be set to "v" for voice. The AB or ABCD bits are processed correctly when the DS-0 is set to voice. When set to data, a PLAR circuit, for example, will experience spurious ringing. Voice circuit signaling works correctly end to end only when the pass through is set to "v" for voice.

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