



IP Enabling Siemens Hicom 300 With Avaya Solutions Running MultiVantage™ Software

**Configuring a PRI Trunk Connection between an Avaya™ S8300 Media Server and an Avaya™ G700 Media Gateway running Avaya MultiVantage™ Software and a Siemens Hicom 300.
Issue 1.0**

ABSTRACT

Many multi-location enterprises have telecommunications equipment from vendors that do not provide a gentle migration path to IP converged platforms. Avaya's Enterprise Class IP Solutions (ECLIPS) enable a gradual adoption of IP technology for Third-party PBXs and enables the adoption of the value-added capabilities of Avaya's MultiVantage™ Software while providing a platform to host future applications that will further enhance the enterprise's operations.

Following the instructions in these Application Notes facilitates the Gentle-Migration of a Siemens Hicom 300 PBX to the Avaya ECLIPS platform running the Avaya MultiVantage Software for call processing. A minimal amount of new hardware is needed to complete the migration including the Avaya™ S8300 Media Server, the Avaya™ G700 Media Gateway, Avaya™ IP telephones and the new Avaya™ GUI administration tools.

This solution's return on investment (ROI) is very high because it does not require a fork-lift removal of existing hardware, capitalizes on existing phone assets and the users' knowledge of the existing user interface, and allows the enterprise to migrate only those users who can best utilize the productivity enhancing features of the Avaya MultiVantage Software. The platform can expand to accommodate the entire enterprise's organization over time at a pace the customer dictates.

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1. Introduction:

The configuration shown in figure 1 illustrates a PRI Trunk Connection between an Avaya S8300 Media Server and an Avaya G700 Media Gateway (S8300/G700) running Avaya MultiVantage Software placed as an adjunct to a Siemens Hicom 300.

The main Central Office connection for the solution is made through the Siemens Hicom 300. Additional Central Office lines can be connected to the S8300/G700 in order to facilitate the use of Avaya™ Extension to Cellular (EC500) and other Avaya MultiVantage Software features.

This document assumes the reader has a basic knowledge of programming Multivantage and Hicom platforms. Basic interoperability between S8300/G700 and Hicom 300 and how it was accomplished is described within these application notes. It should be noted that the interoperability of the S8300/G700 and Hicom 300 is established on basic network fundamentals, and more advanced areas of networking and call routing such as QSIG, AAR and ARS, while functional in this configuration, are not within the scope of this document. E-1 connectivity is possible but requires additional hardware and software upgrades. The Siemens Hipath series is not covered in this document. The Hipath has very different user interfaces and hardware architecture.

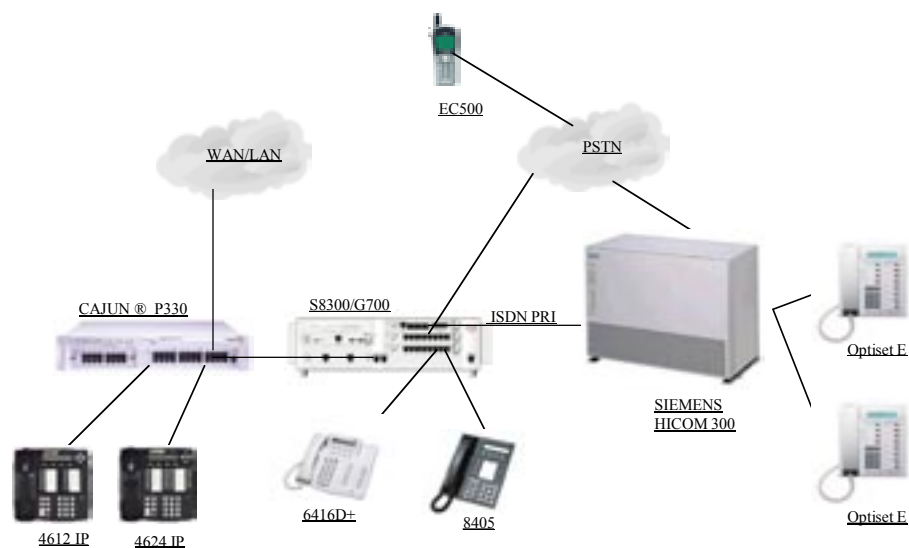


Figure 1. Avaya S8300/G700 and Siemens Hicom 300

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2. Equipment and Software Validated:

The configuration used to test performance of this solution was established in an Avaya Lab setting within the guidelines and use parameters allowed in the user licenses acquired with the equipment and software listed below.

Platform	Version
Avaya MultiVantage Software	1.2
Avaya S8300 Media Server	213.0
Avaya G700 Media Gateway	3.12
Avaya™ 4612 IP Phones	46XXCommon.V36
Avaya™ 4624 IP Phones	46XXCommon.V36
Avaya MM710 T-1 Interface	Firmware version 5
Siemens Hicom 300 30 EP	Release 9006.5
DSC80 Processor	Firmware version D961-D
TMDN64P T-1 Interface (Q2484-X)	Firmware version D467-C
Optiset E Digital Advanced Plus Phones	Model 69671

3. Requirements:

Avaya S8300 Media Server and an Avaya G700 Media Gateway:

Software:

- | | | |
|--------------------------------|---------------|----------|
| 1. Avaya MultiVantage Software | Release 1.2 | or newer |
| 2. G700 Media Gateway Firmware | Release 3.12 | or newer |
| 3. S8300 Media Server Software | Release 213.0 | or newer |

Hardware:

1. MM710 DS1 Circuit pack. Installer needs to determine the number of trunks cards that will be needed for traffic requirements. Consideration must be made for the available slots and resources of the Hicom.
2. T-1 Interface cable. Connects the MM710 T-1 RJ45 interface port or the TN464 DS1 circuit pack to the Hicom. The actual cable needs to be custom built.

Siemens Hicom 300:

For this application to be successful, the intended switch **must** have:

1. Available slots for the T-1 boards.
2. Available purchased software ports for the T-1 spans.
3. T-1 boards must be compatible to software version.
4. If software or port capacities need to be upgraded, there are two options.
 - a. Siemens can be contacted and they will upgrade the system.
 - b. The software on DAT tape is purchased from Siemens or a vendor. The customer loads the software.

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Software:

1. Recommended Siemens Hicom 300. Release 9006.5 or newer.
2. Firmware for the boards and phones are included in the core software.

Hardware:

1. TNBN64P and TNDN64 can be programmed to run PRI and NI2.
2. TMDN TMD24 can only be used with PRI.

Board type used is dependant on software and hardware release of the switch.

4. Cable schematic:

Note: A length of 4-wire cable is needed to make the connection to each PRI circuit card. The Pin assignments for each are as follows.

Siemens TMDN64P (25 pair amphenol)

XTIP	pin 16 RTIP	pin 13
XRING	pin 41 RRING	pin 38

MM710 (RJ45)

XTIP	pin 4 RTIP	pin 1
XRING	pin 5 RRING	pin 2

TN464 DS1 (wall field)

XTIP	pin 22 RTIP	pin 23
XRING	pin 47 RRING	pin 48

5. S8300/G700 Configurations:

The following pages are excerpts of an actual system administration session using the Avaya VisAbility™ Software Suite.

DS1 Interface: ISDN maximizes the number of connections between the switches due to the fast processing of calls across that medium. ISDN also allows for Caller ID, Call Tracing, Call Return and many other features. Configure the DS1 form as described below. Select “isdn-pri” for the Signaling Mode, this allows for Facility and Non-facility Associated Signaling. Select “b8zs” for the line coding which is required when running ISDN. Framing Mode should be “ESF” to allow for best signaling quality. Setting the Connect and Interface prompts to “PBX” and “Network” allows the MM710 to have control over glare conditions. This allows the MM710 to have priority over circuit assignment and force the switch on the other end to continue searching for an open B-Channel. All other prompts are default. **If using NI-2 (National ISDN-2) change Protocol Version to “b”.**

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```

Chawk1: display ds1 2v2 (page 1) 11/1/2002 9:51:20 AM

                        DS1 CIRCUIT PACK

Location: 002V2                      Name: Seimens/S8300
Bit Rate: 1.544                      Line Coding: b8zs
Line Compensation: l                  Framing Mode: esf
Signaling Mode: isdn-pri
Connect: pbx                          Interface: network
TN-C7 Long Timers? n                  Country Protocol: I
Interworking Message: PROGress        Protocol Version: a
Interface Companding: mulaw           CRC? n
Idle Code: llllllll                    DCP/Analog Bearer Capability: 3.1kHz

Slip Detection? y                      Near-end CSU Type: other
Echo Cancellation? n

```

Figure 2a. MM710 DS1 Circuit Pack Administration

```

Chawk1: display ds1 2v2 (page 2) 11/1/2002 9:51:20 AM

                        DS1 CIRCUIT PACK

ESF DATA LINK OPTIONS

Network Management Protocol: tabs
Send ANSI-T1.403 One-Second Performance Reports? n
Far-end CSU Address: E

```

Figure 2b. MM710 DS1 Circuit Pack Administration

Trunk Group: Create a Trunk Group and select “isdn” as the Group Type and a TAC number based on your switches dial-plan. Ensure “PRI/BRI” is the Carrier Medium, this is used for ISDN trunks. Set Dial Access to “Y” and Service type is “tie”, this gives the most universal type of connection. All other prompts are default.

```

Chawk1: display trunk-group 22 (page 1) 11/1/2002 9:56:11 AM

                                TRUNK GROUP

Group Number: 22                 Group Type: isdn                 CDR Reports: y
Group Name: Seimens/S8300        COR: 1                            TN: 1                TAC: #22
Direction: two-way              Outgoing Display? y              Carrier Medium: PRI/BRI
Dial Access? y                  Busy Threshold: 255              Night Service:
Queue Length: 0
Service Type: tie                Auth Code? n                       TestCall ITC: rest
Far End Test Line No:

TestCall BCC: 4
TRUNK PARAMETERS
  Codeset to Send Display: 6      Codeset to Send National IEs: 6
  Max Message Size to Send: 260  Charge Advice: none
  Supplementary Service Protocol: a Digit Handling (in/out): enbloc/enbloc

  Trunk Hunt: descend            QSIG Value-Added? n
  Digital Loss Group: 13
Calling Number - Delete:         Insert:                            Numbering Format:
  Bit Rate: 1200                 Synchronization: async           Duplex: full
Disconnect Supervision - In? y  Out? n
Answer Supervision Timeout: 0

```

Figure 4. Trunk-Group Administration

Signaling Group: Create a Signaling Group for the PRI D-channel. The Group Type default is “isdn-pri”; this creates a channel to control the Bearer channels on the T-1 card. Select the T-1 port that will be used as the Primary D-channel and assign the Trunk Group for Channel Selection. All other prompts are default.

```

Chawk1: display signaling-group 22 (page 1) 11/1/2002 9:54:37 AM

                                SIGNALING GROUP

Group Number: 22                 Group Type: isdn-pri
Associated Signaling? y          Max number of NCA TSC: 0
Primary D-Channel: 002V224      Max number of CA TSC: 23
Trunk Group for Channel Selection: 22
Supplementary Service Protocol: a X-Mobility/Wireless Type: NONE
Network Call Transfer? n

```

Figure 3. Signaling-Group D-Channel Configuration

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Trunk Group Members: Assign trunk ports to the Trunk Group. Up to 255 ports can be assigned to each ISDN Trunk Group. The Sig Grp prompt will display the signaling group after the Trunk Group is created and assigned to the Signaling Group.

```

Chawk1: display trunk-group 22 (page 6) 11/1/2002 9:56:11 AM

                                TRUNK GROUP
                                Administered Members (min/max): 1/23
GROUP MEMBER ASSIGNMENTS       Total Administered Members: 23

   Port   Code Sfx Name      Night      Sig Grp
1: 002V201 MM710  Seimens/Av  ZZ
2: 002V202 MM710  Seimens/Av  ZZ
3: 002V203 MM710                ZZ
4: 002V204 MM710                ZZ
5: 002V205 MM710                ZZ
6: 002V206 MM710                ZZ
7: 002V207 MM710                ZZ
8: 002V208 MM710                ZZ
9: 002V209 MM710                ZZ
10: 002V210 MM710               ZZ
11: 002V211 MM710               ZZ
12: 002V212 MM710               ZZ
13: 002V213 MM710               ZZ
14: 002V214 MM710               ZZ
15: 002V215 MM710               ZZ

```

Figure 5. Assign trunk Group Members

6. Hicom Configurations:

The following listing of Command Line Interface (CLI) text is intended to be an accurate representation of the actual administrative visuals for implementing the translations required for the Hicom 300.

Typical Cabinet Configuration:

<dis-bcsu:tbl; (Displays Board Configuration Switching Unit)

H500: AMO BCSU STARTED

ADDRESS |NOM. BOARD TYPE V/R| |ACTUAL BOARD |LWV|FID|FIRMWARE|BD STATUS |CCN|

ADDRESS	NOM. BOARD	TYPE	V/R	ACTUAL BOARD	LWV	FID	FIRMWARE	BD STATUS	CCN
1. 1. 37	Q2161-X	DSC80		Q2161-X	1	2	D961-D	READY	1
1. 1. 49	Q2146-X	SLMA2		Q2146-X	1	0	-11 -	READY	24
1. 1. 55	Q2485-X	TMC16P		Q2485-X	1	0	D429-B	READY	16
1. 1. 61	Q2158-X	SLMO24 R		Q2158-X	1	0	-05 -	READY	24
1. 1. 67	Q2158-X	SLMO24 R		Q2158-X	1	0	-05 -	READY	24
1. 1. 73	FREE			FREE					
1. 1. 79	FREE			FREE					0
1. 1. 85	Q2452-X	TMDID		Q2452-X	1	0	B008-D	READY	8
1. 1. 91	FREE			FREE					0
1. 1. 97	Q2233-X	SIUX		Q2233-X	1	2	D802-B	READY	8
1. 1.103	FREE			FREE					0

Determine If System Has Capacities:

<dis-dimen; (Displays System Dimensions)

TYPE = cc;
DIS-DIMEN:CC;
H500: AMO DIMEN STARTED

```

+-----+-----+
|                                     NON-CONFIGURABLE PARAMETERS                                     |
+-----+-----+
| TOTAL LINES   : ALLOC = 2750   LARGEST BLOCK = 2496   USED = 238   |
| PHYSICAL LINES: ALLOC = 1368   MAX USED      = 203    USED = 203   |
+-----+-----+
|                                     CONFIGURABLE PARAMETERS                                     |
+-----+-----+
|                                     ALLOC /MAXUSED/ USED   |                                     ALLOC /MAXUSED/ USED   |
+-----+-----+
|                                     | PRITRUNK:      2 /      1 /      1 |
|                                     | TRUNK   :     49 /     49 /     27 |
|                                     | T1SPAN  :      2 /      2 /      2 |
+-----+-----+

```

* = ALLOC-VALUE EXCEEDS ALLOC-RECMAX
(RECOMMENDED ALLOC-MAXIMUM) FOR THIS SYSTEM TYPE

<dis-dimen:ltg;

DIS-DIMEN:LTG;
H500: AMO DIMEN STARTED

```

+-----+-----+
|                                     NON-CONFIGURABLE PARAMETERS                                     |
+-----+-----+
| TOTAL LINES   : ALLOC = 2750   LARGEST BLOCK = 2496   USED = 238   |
| PHYSICAL LINES: ALLOC = 1368   MAX USED      = 203    USED = 203   |
+-----+-----+
|                                     CONFIGURABLE PARAMETERS                                     |
+-----+-----+
| LTG: 1   ALLOC /MAXUSED/ USED   | LTG: 1   ALLOC /MAXUSED/ USED   |
+-----+-----+
| APILTG  :    32 /    0 /    0   | LTGIDX   :   400 /    90 /    90 |
| AUTOLTG :    0 /    0 /    0   | NWCRLTG  :    1 /    0 /    0   |
| DHBUFLTG:    0 /    0 /    0   | *OPTILTG :    72 /    4 /    3   |
| DIG2LTG :   160 /    0 /    0   | *OPTSTLTG:    72 /    4 /    3   |
| *DIGILTG:    80 /    4 /    3   | PRTRKLTG:    1 /    1 /    1   |
| DILTG   :    96 /    4 /    3   | RDTILTG  :    18 /    0 /    0   |
| DLPWLTG :    0 /    0 /    0   | RP120LTG:    0 /    0 /    0   |
| DSLTG   :   255 /   115 /   115 | RP240LTG:    0 /    0 /    0   |
| DTILTG  :   281 /    30 /    30 | RP400LTG:    0 /    0 /    0   |
| DTIS0   :    0 /    0 /    0   | *S0LTG   :    16 /    0 /    0   |
| KSETLTG :   144 /    4 /    3   |
+-----+-----+

```

* = ALLOC-VALUE EXCEEDS ALLOC-RECMAX
(RECOMMENDED ALLOC-MAXIMUM) FOR THIS SYSTEM TYPE

Adding a TNDN64 T-1 Board:

<add-bcsu

BOARD = ?
BOARD : SPECIFY BOARD TYPE
CHARACTERISTIC : REQUIRED CONDITIONAL
POSSIBLE VALUES : STMA STMA
SLMN SLMN USED FOR NX64
IPDN IPDN BOARD USED FOR ISDN APPLICATIONS
RPER ROLM PERIPHERAL BOARDS
RT1 ROLM T1 BOARD
TMD DIGITAL TRUNK MODULE WITH 24 CHANNELS
RG RING GENERATOR
SIUP SIGNALLING UNIT PERIPHERY
PER PERIPHERY MODULE

BOARD = **tmd**
LTG = **1**
LTU = **1**
SLOT = **79**
PARTNO = **q2484-x** (part number for a TNDN64P number will vary with hardware)
FCTID = **2 ???**

LWVAR = ?
LWVAR : LOADWARE VARIANT
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 8 POSITIONS
LWVAR = **0**
CABTYP = **1**

TIMTYP = ?
TIMTYP : SPECIFY SYSTEM OR LOOP TIMING FOR TMD24
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : SYST TMD FRAME TIMING DRIVEN BY SYSTEM
LOOP LOOPBACK STATE

TIMTYP = **synt**
OESDISTH = **30**
OESREQTH = **4**
SESDISTH = **10**
SESREQTH = **10**

SIGTYP = ?
SIGTYP : TYPE OF SIGNALING ON TMD24 SPAN
CHARACTERISTIC : REQUIRED CONDITIONAL
POSSIBLE VALUES : CVN CORNET-VN LINK WITH 24 CHANNELS
CCO DMI LINK WITH 24 CHANNELS
MOS DMI LINK WITH MESSAGE ORIENTED SIGNALING
BOS DMI LINK WITH BIT ORIENTED SIGNALING
CAS TMD LINK WITH CHANNEL ASSOCIATED SIGNALING

SIGTYP = **mos**

NETUSR = ?
NETUSR : USER TO EMULATE NETWK OR USER ON DMI LINK
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : USER USER WILL EMULATE USER END OF DMI LINK
NETWK USER WILL EMULATE NETWK END OF DMI LINK

NETUSR = **user**

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SET UP - OUT OF SERVICE (NPR)
H6 : THE CIRCUIT WAS ADDED TO THE REFERENCE CLOCK TABLE.
H19 : WHEN FCTID IS NOT ENTERED, OR FCTID=0 IS ENTERED FOR A TMDN,
IT WILL CONFIGURE A TMDN WITH THE DEFAULT FCTID=1.
AMO-BCSU -111 BOARD CONFIGURATION, SWITCHING UNIT
ADD COMPLETED;

Display Board:

<dis-bcsu:tmd;

H500: AMO BCSU STARTED

```

-----
| DETAILS OF TMD BOARD AT ADDRESS (LTG.LTU.SLOT) = 1. 1. 73 |
|
| CABTYP = 1          TIMTYP = SYST          SIGTYP = MOS |
| FRAME = ESF        TABS = NO             FCTID = 2 |
| BI8SUB = YES       BIVDET = YES |
|-----|
| RDRATIO = 6        RDTH = 2500          RDQUAL = 15000 |
| YLSEND = 5000      YLTH = 400           YLQUAL = 100 |
| LOS = 150          AOS = 4000 |
| SESDISTH = 10     SESREQTH = 10 |
| OESDISTH = 30     OESDISIN = 24-00-00 |
| OESREQTH = 4      OESREQIN = 04-00-00 |
|-----|
| NETUSR = USER     ACKTIM = 1000        DLVTIM = 30000 |
| OCTMAX = 260       RETMAX = 3           WINDOW = 7 |
| CRIDC =           TTSC =               NSFIV = |
| NSFTSC =          PFDGT = |
|-----|
| IGN = 0           IID = 0 |
|-----

```

Display Cabinet:

< dis-bcsu:tbl;

DIS-BCSU:TBL, , , ;

H500: AMO BCSU STARTED

ADDRESS |NOM. BOARD TYPE V/R| |ACTUAL BOARD |LWV|FID|FIRMWARE|BD
STATUS|CCN|

```

-----+-----+-----+-----+-----+-----+-----+-----+
--++
1. 1. 37 | Q2161-X   DSC80   | | Q2161-X   | 1 | 2 | D961-D |READY |1 |
1. 1. 49 | Q2146-X   SLMA2   | | Q2146-X   | 1 | 0 | -11 - |READY |24 |
1. 1. 55 | Q2485-X   TMC16P  | | Q2485-X   | 1 | 0 | D429-B |READY |16 |
1. 1. 61 | Q2158-X   SLMO24  R| | Q2158-X   | 1 | 0 | -05 - |READY |24 |
1. 1. 67 | Q2158-X   SLMO24  R| | Q2158-X   | 1 | 0 | -05 - |READY |24 |
1. 1. 73 | Q2484-X   TMDN64P | | Q2484-X   | 1 | 2 | D467-C |READY |25 |
1. 1. 79 | FREE      | | FREE      | | | | | | | | |
1. 1. 85 | Q2452-X   TMDID   | | Q2452-X   | 1 | 0 | B008-D |READY |8 |
1. 1. 91 | FREE      | | FREE      | | | | | | | | |
1. 1. 97 | Q2233-X   SIUX    | | Q2233-X   | 1 | 2 | D802-B |READY |8 |
1. 1.103 | FREE      | | FREE      | | | | | | | | |

```

H2: LTU 1. 2 IS NOT SET UP
AMO-BCSU -111 BOARD CONFIGURATION, SWITCHING UNIT

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Add Trunk Group Access Codes:

<add-tgacc

TGRP = 100

SATOPS = ?

SATOPS : SATOPS TYPE USAGE FOR THE TRUNK-GROUP
CHARACTERISTIC : REQUIRED
POSSIBLE VALUES : SAT SAT PROTOCOL
VLSAT VLSAT PROTOCOL
NONE NON-SATOPS PROTOCOL

SATOPS = **none**

NAME = **c-hawk**

NO = ?

NO : MAXIMUM NUMBER OF LINES TO BE ASSIGNED
CHARACTERISTIC : REQUIRED
POSSIBLE VALUES : 1-999

NO = **23**

DIRTYP = ?

DIRTYP : TRUNK GROUP DIRECTION TYPE
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : INC INCOMING TRUNK GROUP
OUTG OUTGOING TRUNK GROUP
BOTH BOTHWAY TRUNK GROUP

DIRTYP = **both**

TGUSAGE = ?

TGUSAGE : TRUNK GROUP FACILITY USAGE
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : SATL SATELLITE
TERR TERRESTRIAL

TGUSAGE = **terr**

ACDTHRH = ?

ACDTHRH : MAXIMUM NUMBER OF TRUNKS FOR ACD THRESHOLD
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 3 POSITIONS

ACDTHRH =

TRACENO = ?

TRACENO : MAXIMUM NUMBER OF TRUNKS IN A GROUP THAT CAN BE CALL
TRACED
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : 0-999

TRACENO = **0**

GDTRRULE = 0

SELECT = ?

SELECT : TRUNK SELECTION ALGORITHM
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : HIGH HIGH
LOW LOW
ROUND ROUND

SELECT = **round**

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```

CFBLOCK = ?
CFBLOCK      : CALL FORWARD BLOCKING
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : ENABLED      CALL FORWARD BLOCKING ENABLED
                  DISABLED     CALL FORWARD BLOCKING DISABLED
CFBLOCK = DISABLED

```

```

ADD-TGACC:100,NONE,C-HAWK,23,BOTH,TERR,,0,ROUND,;
H500: AMO TGACC STARTED
H1: TRUNK GROUP 100 HAS BEEN CREATED
AMO-TGACC-111      TRUNK GROUP ACCESS CODE
ADD COMPLETED;

```

Display Trunk Group Access Codes:

<dis-tgacc

```

TGRP =100;
DIS-TGACC:100;
H500: AMO TGACC STARTED
+-----+
| TGRP NUMBER      :   100   TGRP NAME   : CHAWK       /N   MAXIMUM NO:   23 |
| SUBGROUP NUMBER:     3   DEVICE TYPE: PRI B           DIR TYPE  : BOTH |
| ACD THRESHOLD   :     *   TRACENO    :                0   USAGE TYPE: TERR |
| ALLOCATED TO AT LEAST ONE ROUTE
| SELECTION       : ROUND   CFBLOCK    : DISABLED
|
| THE FOLLOWING PORTS (LTG-LTU-SLOT-CIRCUIT) ARE ALLOCATED:
|
+-----+
|1-1-73-1 | 1-1-73-2 | 1-1-73-3 | 1-1-73-4 | 1-1-73-5 | 1-1-73-6 |
+-----+
|1-1-73-7 | 1-1-73-8 | 1-1-73-9 | 1-1-73-10| 1-1-73-11| 1-1-73-12|
+-----+
|1-1-73-13| 1-1-73-14| 1-1-73-15| 1-1-73-16| 1-1-73-17| 1-1-73-18|
+-----+
|1-1-73-19| 1-1-73-20| 1-1-73-21| 1-1-73-22| 1-1-73-23|
+-----+
AMO-TGACC-111      TRUNK GROUP ACCESS CODE
DISPLAY COMPLETED;

```

Add COP (Class of Parameters):

<add-cop

```

COPNO = 100
PAR = ;
ADD-COP:100,;
H500: AMO COP STARTED
H1: COP 100 IS NOW SET UP
AMO-COP -111      CLASS OF PARAMETER
ADD COMPLETED;

```

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Display COP (Class of Parameters):

```

<dis-cop;
DIS-COP:,,;
H500: AMO COP STARTED
| | | | | | | | | |
| | S | | | E A | | | | |
| | T | | | E S N | | | | |
| | A S | | V S P I D |DD| S| | |
| | D Z | | L P D D T |TT| U| P |
| | I A A S S A N N O |MM| P| D |
|COP| A N C A A N I I N |FF| V| P |
|IDX| L S K T T I S S E | L|12|1234|
+---+-----+-----+-----+
| 2| | | | | | | | | |
| 50| X X | | | | | | | |
|100| | | | | | | | | |
+---+-----+-----+
AMO-COP -111 CLASS OF PARAMETER
DISPLAY COMPLETED;

```

Add COT (Class of Trunk):

```

<add-cot
COTNO = 100
PAR =
ADD-COT:100,;
H500: AMO COT STARTED
H1: THE COT 100 HAS BEEN SET UP.
AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING
ADD COMPLETED;

```

Display COT (Class of Trunk):

```

<dis-cot;
DIS-COT:,,;
H500: AMO COT STARTED
|D|A|D|D|D|M|S|V|E|E|A|R|
|I|N|S|S|I|D|A|L|S|S|N|F|
|T|S|A|A|S|R|T|S|P|P|I|L|
| |R| |S| | | |A|A|D|D|A|
| | | | | | | |T|N|N|N|S|
| | | | | | | |I|I|I|H|
COT | | | | | | | |S|S| |
-----+-----+-----+-----+
2 |X| | | | |X| | | | | |
50 | |X| | |X| | | | | | |
100 | | | | | | | | | | | |
-----+-----+-----+-----+
AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING
DISPLAY COMPLETED;

```

Add COS (Class of Service):

<add-cos

COPYCOS =
NEWCOS = 100

AVCE = ?

AVCE : ADD VOICE AUTHORIZATION
 CHARACTERISTIC : OPTIONAL
 POSSIBLE VALUES : AGENT ACD AGENT
 AUTOLOG ACD AUTOLOGON
 BROADCAST SPEAKER CALL DIAL ONE WAY BROADCAST
 BSYALERT AUDIBLE BUSY ALERT ON ATTENDANT CONSOLES
 CAF CONTROL AGENT FACILITY
 CASILMON ACD CAN ACTIVATE SILENT MONITOR
 CBSILMON ACD CAN BE SILENT MONITORED
 CFWCO CALL FORWARDING TO CO
 COSXCD COS CHANGEOVER BY CODE
 DIDBLK DIRECT-INWARD-DIALING BLOCKING
 DNDOVR DO NOT DISTURB OVERRIDE
 HOT HOTLINE
 HUNTB STATION HUNT ON BUSY
 HUNTNA STATION HUNT ON NO ANSWER
 INDTMF INBAND DTMF DIALING
 INTRCOM INTERCOMM CALL
 KN KNOCKING/CAMP-ON AUTHORIZATION
 KNOVR OVERRIDE AUTHORIZATION (CALL INTRUSION
 MB MAIL BOX - AUTHORIZATION TO RECEIVE MAIL
 MDR MESSAGE/CALL DETAIL RECORDING
 MSGWCAP MESSAGE WAITING CAPABILITY - CAN SEND MAIL
 NCMPBRST NO CAMP-ON BURST TONE ALERT
 NOCONF NO CONFERENCE CALL AUTHORIZATION
 NOHOLD NO HOLD FEATURE FOR CONFERENCE CALL
 NVDATA NON-VOICE DATA AUTHORIZATION
 OFHKRCL OFHKRCL
 ORIGONLY ORIGINATE ONLY
 PRISTN STATION WITH PRIORITY
 RKNQVR REJECT KNOCKING/CAMP-ON AND OVERRIDE
 SPKRCALL SPEAKER CALL DIAL ONE WAY
 SUPER ACD SUPERVISOR
 TPSET THIRD PARTY SET
 TRACEAUT AUTOMATIC MALICIOUS CALL TRACING
 TTT TRUNK TO TRUNK CONNECTION/TRANSFER
 VC VOICE CALL
 VCE SERVICE MODULE ACCESS (VCE)

AVCE = **mdr**

ADTE = ?

ADTE : ADD DATA TERMINAL EQUIPMENT AUTHORIZATION
 CHARACTERISTIC : OPTIONAL
 POSSIBLE VALUES : BASIC DATA ORIGINATE ENABLE (DTE)/GUEST ACCESS
 CHANLPBK DATA REMOTE CHANNEL LOOPBACK
 DLINEQG DATA LINE QUEUING (GROUP)
 DORIGQ DATA ORIGINATING QUEUING
 DSPEEDG DATA SPEED CALLING (GROUP)
 DSPEEDI DATA SPEED CALLING (INDIVIDUAL)
 HOT HOTLINE

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```

MDR          MESSAGE/CALL DETAIL RECORDING
ORIGONLY     ORIGINATE ONLY
TERMLPBK     DATA REMOTE TERMINAL LOOPBACK
URTA        UNRESTRICTED TRUNK ACCESS TO AND FROM CO

ADTE =
AFAX =

DVCE = ?
DVCE          : DELETE VOICE AUTHORIZATION
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : AGENT          ACD AGENT
                 AUTOLOG         ACD AUTOLOGON
                 BROADCAST       SPEAKER CALL DIAL ONE WAY BROADCAST
                 BSYALERT       AUDIBLE BUSY ALERT ON ATTENDANT CONSOLES
                 CAF            CONTROL AGENT FACILITY
                 CASILMON       ACD CAN ACTIVATE SILENT MONITOR
                 CBSILMON       ACD CAN BE SILENT MONITORED
                 CFWCO          CALL FORWARDING TO CO
                 COSXCD         COS CHANGEOVER BY CODE
                 DIDBLK        DIRECT-INWARD-DIALING BLOCKING
                 DNDOVR        DO NOT DISTURB OVERRIDE
                 HOT           HOTLINE
                 HUNTB         STATION HUNT ON BUSY
                 HUNTNA        STATION HUNT ON NO ANSWER
                 INDTMF        INBAND DTMF DIALING
                 INTRCOM       INTERCOMM CALL
                 KN            KNOCKING/CAMP-ON AUTHORIZATION
                 KNOVR         OVERRIDE AUTHORIZATION (CALL INTRUSION
                 MB            MAIL BOX - AUTHORIZATION TO RECEIVE MAIL
                 MDR           MESSAGE/CALL DETAIL RECORDING
                 MSGWCAP       MESSAGE WAITING CAPABILITY - CAN SEND MAIL
                 NCMPCRST      NO CAMP-ON BURST TONE ALERT
                 NOCONF        NO CONFERENCE CALL AUTHORIZATION
                 NOHOLD        NO HOLD FEATURE FOR CONFERENCE CALL
                 NVDATA        NON-VOICE DATA AUTHORIZATION
                 OFHKRCL       OFHKRCL
                 ORIGONLY     ORIGINATE ONLY
                 PRISTN        STATION WITH PRIORITY
                 RKNOVR        REJECT KNOCKING/CAMP-ON AND OVERRIDE
                 SPKRCALL      SPEAKER CALL DIAL ONE WAY
                 SUPER         ACD SUPERVISOR
                 TPSET         THIRD PARTY SET
                 TRACEAUT      AUTOMATIC MALICIOUS CALL TRACING
                 TTT          TRUNK TO TRUNK CONNECTION/TRANSFER
                 VC           VOICE CALL
                 VCE          SERVICE MODULE ACCESS (VCE)

DVCE =ttt
DDTE =
DFAX =
ADD-COS: ,100,MDR,,,TTT,,,;
H500: AMO COS   STARTED
H4 :           THE NUMBER OF THE CLASS OF SERVICE ADDED IS 20.
AMO-COS  -111   CLASSES OF SERVICE, SWITCHING UNIT
ADD COMPLETED;

```

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Display COS (Class of Service):

<dis-cos:all;

H500: AMO COS STARTED

```
+-----+-----+-----+-----+
| COS | VOICE | DTE | FAX |
+-----+-----+-----+-----+
| 100 |      |     |     |
|     | MDR  |     |     |
|     | TTT  |     |     |
|     |      |     |     |
+-----+-----+-----+-----+
AMO-COS  -111          CLASSES OF SERVICE, SWITCHING UNIT
```

Add Trunk Members:

<add-tcsu (Trunk Configuration Switching Unit)

PEN = 1-1-73-24

NO = ?

NO : NUMBER OF TRUNKS TO BE CREATED

CHARACTERISTIC : OPTIONAL

POSSIBLE VALUES : 1-30

NO = **23**

COTNO = **100**

COPNO = **100**

DPLN = **0**

ITR = **0**

TGRP = **100**

ACDATA = ?

ACDATA : DATA ACCESS CLASS

CHARACTERISTIC : OPTIONAL

POSSIBLE VALUES : 0-255

ACDATA =

CCT = ?

CCT : CIRCUIT/TRUNK NUMBER

CHARACTERISTIC : OPTIONAL

POSSIBLE VALUES : MAX. OF 8 POSITIONS

CCT =

ACT = **n**

DITIDX = ?

DITIDX : INDEX TO HOTLINE TABLE FOR DIT TRUNK DESTINATION NUMBER

CHARACTERISTIC : OPTIONAL

POSSIBLE VALUES : 0-255

DITIDX =

TRKID = ?

TRKID : TRUNK IDENTIFICATION NUMBER

CHARACTERISTIC : OPTIONAL

POSSIBLE VALUES : 0-9999

TRKID =

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TCCID = ?
TCCID : TELEPHONE COMPANY CIRCUIT IDENTIFICATION
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 30 POSITIONS
TCCID = **123456**

DEV = ?
DEV : DEVICE TYPE (DEVICE HANDLER)/MODULE TYPE
CHARACTERISTIC : REQUIRED CONDITIONAL
POSSIBLE VALUES : ATMPBB ATM INTERWORKING B-CHANNEL
ATMIWB ATM INTERWORKING B-CHANNEL
T1GRDSTR T1 TRUNK EMULATING GROUND-START TRUNK
GRDSTR GROUND-START TRUNK
T1LPSTR T1 TRUNK EMULATING LOOP-START TRUNK
LPSTR LOOP-START TRUNK
T1EMW T1EM TRUNK WITH WINK SIGNALLING
T1EMP T1EMP TRUNK WITH PLAR SUPPORT
T1EMI T1EM TRUNK WITH IMMEDIATE SIGNALLING
T1EMD T1EM TRUNK WITH DELAY SIGNALLING
TSEMW TSEM TRUNK WITH WINK SIGNALLING
TSEMH TSEM TRUNK WITH NO SIGNALLING
TSEMI TSEM TRUNK WITH IMMEDIATE SIGNALLING
TSEMD TSEM TRUNK WITH DELAY SIGNALLING
S1B CORNET BEARER CHANNEL
PRIB PRI BEARER CHANNEL
T1NS T1 NO SIGNALLING TRUNK
T1DID T1 TRUNK EMULATING DID TRUNK
DID DIRECT INWARD DIALING TRUNK

DEV = **prib**

SRTIDX = ?
SRTIDX : SERVICE RULE TABLE INDEX FOR DID TRANSLATION -PRIB TRUNKS
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : 0-15
SRTIDX =

LOCANA = ?
LOCANA : LOCAL ASSIGNED NIGHT ANSWER
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 6 POSITIONS
LOCANA =

REMANA = ?
REMANA : REMOTE ASSIGNED NIGHT ANSWER
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 6 POSITIONS
REMANA =

ATNTYP =
LCRCOSV = **1**
LCRCOSD = **1**

COSNO = ?
COSNO : CLASS OF SERVICE NUMBER FOR
CHARACTERISTIC : REQUIRED
POSSIBLE VALUES : 0-127

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COSNO = 1

DEDSVC = ?

DEDSVC : DEDICATED SERVICE FOR PRIB TRUNKS
 CHARACTERISTIC : OPTIONAL CONDITIONAL
 POSSIBLE VALUES : NONE NOT A SPECIAL DEVICE
 TTA TIE TRUNK ACCESS
 FX FOREIGN EXCHANGE ACCESS SERVICE
 PRIV PRIVATE NETWORK SERVICE
 MCI8 MCI 800
 MCIP MCI PRISM-1
 MCIV MCI VNET
 WB9 WATS BAND 9
 WB8 WATS BAND 8
 WB7 WATS BAND 7
 WB6 WATS BAND 6
 WB5 WATS BAND 5
 WB4 WATS BAND 4
 WB3 WATS BAND 3
 WB2 WATS BAND 2
 WB1 WATS BAND 1
 WB0 WATS BAND 0
 MSB MAXIMAL SUBSCRIBED WATS BAND
 INW INCOMING WATS
 A64R ACCUNET 64 R
 A64C ACCUNET 64 C
 A56 ACCUNET 56
 ILD INTERNATIONAL LONG DISTANCE
 SDN SOFTWARE DEFINED NETWORK
 MEG8 MECACOM 800
 MEG MECACOM

DEDSVC = none

SIDANI = ?

SIDANI : SID ANI REQUESTS ARE POSSIBLE ON PRIB TRUNK
 CHARACTERISTIC : OPTIONAL
 POSSIBLE VALUES : Y YES
 N NO

SIDANI =

TRTBL = ?

TRTBL : TRANSLATION TABLE USED
 CHARACTERISTIC : OPTIONAL
 POSSIBLE VALUES : GDTR GENERAL DIGIT TRANSLATION TABLE
 DIDCR DID CONVERSION TABLE

TRTBL = didcr

ADD-TCSU:1-1-73-

1,23,100,100,0,0,100,,,N,,,123456,PRIB,,,,,1,1,1,NONE,,DIDCR;

H500: AMO TCSU STARTED

F125: TRUNK GROUP 100 IS INCOMING OR BOTHWAY - MUST ENTER SRTIDX.

SRTIDX = 1

AMO-TCSU -111 TRUNK CONFIGURATION, SWITCHING UNIT

ADD COMPLETED;

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Modify D-Channel from Default:

<cha-tcsu

PEN = 1-1-73-24

COTNO =

COPNO =

DPLN =

ITR =

TGRP =

ACDATA =

CCT =

DITIDX =

TRKID =

TCCID =

DEV = ?

```

DEV                : DEVICE TYPE (DEVICE HANDLER)/MODULE TYPE
CHARACTERISTIC    : OPTIONAL                CONDITIONAL
POSSIBLE VALUES  : ATMPBD                ATM BACKBONE D-CHANNEL
                   ATMIWD                ATM INTERWORKING D-CHANNEL
                   ATMPBB                ATM INTERWORKING B-CHANNEL
                   ATMIWB                ATM INTERWORKING B-CHANNEL
                   T1GRDSTR              T1 TRUNK EMULATING GROUND-START TRUNK
                   GRDSTR                GROUND-START TRUNK
                   T1LPSTR               T1 TRUNK EMULATING LOOP-START TRUNK
                   LPSTR                 LOOP-START TRUNK
                   T1EMW                 T1EM TRUNK WITH WINK SIGNALLING
                   T1EMP                 T1EMP TRUNK WITH PLAR SUPPORT
                   T1EMI                 T1EM TRUNK WITH IMMEDIATE SIGNALLING
                   T1EMD                 T1EM TRUNK WITH DELAY SIGNALLING
                   TSEMW                 TSEM TRUNK WITH WINK SIGNALLING
                   TSEMH                 TSEM TRUNK WITH NO SIGNALLING
                   TSEMI                 TSEM TRUNK WITH IMMEDIATE SIGNALLING
                   TSEMD                 TSEM TRUNK WITH DELAY SIGNALLING
                   PRID                  PRI SIGNALING CHANNEL
                   PRIB                  PRI BEARER CHANNEL
                   T1NS                  T1 NO SIGNALLING TRUNK
                   T1DID                 T1 TRUNK EMULATING DID TRUNK
                   DID                   DIRECT INWARD DIALING TRUNK
                   S1D                   CORNET SIGNALING CHANNEL
                   S1B                   CORNET BEARER CHANNEL

```

DEV = **prid**

PROTOCOL = ?

```

PROTOCOL          : PROTOCOL IDENTIFICATION FOR D CHANNEL
CHARACTERISTIC    : OPTIONAL
POSSIBLE VALUES  : ATT4E3                AT&T 4ESS (TEST VERSION 3)
                   ATT4E4                AT&T 4ESS (TEST VERSION 4 - FUTURE )
                   ATT5E8                 AT&T 5ESS (SOFTWARE GENERIC 5E7/8)
                   ATT5E9                AT&T 5ESS (SOFTWARE GENERIC 5E9)
                   ATT5E10               AT&T 5ESS (SOFTWARE GENERIC 5E10- FUTURE )
                   ATT5E11               AT&T 5ESS (SOFTWARE GENERIC 5E11- FUTURE )
                   ATT5E12               AT&T 5ESS (SOFTWARE GENERIC 5E12- FUTURE )
                   BC36                  BELL CANADA DMS-100 (RELEASE BCS-36)
                   BC37                  BELLCANADA DMS-100 (RELEASE BCS-37/LEC-03-)
                   BC38                  BELLCANADADMS-100 (RELEASE BCS-38/LEC-04-)
                   BC39                  BELLCANADA DMS-100 (RELEASE BCS-39/LEC-05-)

```

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D10036 NTI DMS-100 (RELEASE BCS-36)
D10037 NTI DMS-100 (RELEASE BCS-37/LEC-03- FUTURE)
D10038 NTI DMS-100 (RELEASE BCS-38/LEC-04- FUTURE)
D10039 NTI DMS-100 (RELEASE BCS-39/LEC-05- FUTURE)
EWS11 SIEMENS EWS1 (RELEASE APS-11)
EWS12 SIEMENS EWS1 (RELEASE APS-12- FUTURE)
EWS13 SIEMENS EWS1 (RELEASE APS-13- FUTURE)
EWS14 SIEMENS EWS1 (RELEASE APS-14- FUTURE)
FTS5E GSA FTS-2000 (AT&T 5ESS - FUTURE)
FTS250 GSA FTS-2000 (SPRINT DMS-250)
IEC1 INTER-EXCHANGE CARRIER 1 (FUTURE)
LEC1 LOCAL EXCHANGE CARRIER 1 (FUTURE)
MCI136 MCI DEX600 (RELEASE 36)
MCI137 MCI DEX600 (RELEASE 37- FUTURE)
MCI138 MCI DEX600 (RELEASE 38- FUTURE)
MCI139 MCI DEX600 (RELEASE 39- FUTURE)
MCI236 MCI DMS-250 (RELEASE BCS-36/IEC-01)
MCI237 MCI DMS-250 (RELEASE BCS-37/IEC-02- FUTURE)
MCI238 MCI DMS-250 (RELEASE BCS-38/IEC-03- FUTURE)
MCI239 MCI DMS-250 (RELEASE BCS-39/IEC-04- FUTURE)
NI2 NATIONAL ISDN 2
NI3 NATIONAL ISDN 3 - FUTURE
SA1 SPECIAL APPLICATION 1 (UNDESIGNATED SPARE-
SPRINT36 SPRINT DMS-250 (BCS-36/IEC-01)
SPRINT37 SPRINT DMS-250 (BCS-37/IEC-02- FUTURE)
SPRINT38 SPRINT DMS-250 (BCS-38/IEC-03- FUTURE)
SPRINT39 SPRINT DMS-250 (BCS-39/IEC-04- FUTURE)
WCIN36 WESTINGHOUSE DMS-250 (BCS-36/IEC-01)
WCIN37 WESTINGHOUSE DMS-250 (BCS-37/IEC-02-FUTURE)
WCIN38 WESTINGHOUSE DMS-250 (BCS-38/IEC-03-FUTURE)
WCIN39 WESTINGHOUSE DMS-250 (BCS-39/IEC-04) -FUTURE

PROTOCOL = att5e8

*****Protocol would be "NI2" if using National ISDN 2*****

DEDSVC = ?

DEDSVC : DEDICATED SPECIAL COMMON CARRIER FOR PRID
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : MAX. OF 4 POSITIONS
DEDSVC =

INTERFID = ?

INTERFID : INTERFACE IDENTIFICATION NUMBER FOR PRI D CHANNEL
CHARACTERISTIC : OPTIONAL
POSSIBLE VALUES : 0-31
INTERFID =

TMR301 = ;

CHA-TCSU:1-1-73-24,,,,,,,,,,,,,PRID,ATT5E8,,,,;

H500: AMO TCSU STARTED

H11 : PROTOCOL CHANGED - CHECK THE DEDSVC ON THE SPAN FOR THE COMPATIBILITY TO THE NEW PROTOCOL.

H10 : TIMERS HAVE BEEN CHANGED TO THE DEFAULT VALUES BASED ON THE PROTOCOL SELECTED.

H14 : PRID TRUNK AT PORT 1-1-73-24 WAS CHANGED.

AMO-TCSU -111 TRUNK CONFIGURATION, SWITCHING UNIT

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Display Trunk Members:

<dis-tscu

PEN1 = 1-1-73-24;

H500: AMO TCSU STARTED

```
+-----+
| PEN:  1- 1- 73- 1  INS: Y   BOARD: TMDN64P   DEV: PRIB       TGRP: 100 |
+-----+
| TRKID  : 0001           TCCID   :              |
| CCT    : 23           /0001              |
|
| ACDATA : 0             DITIDX  : 0             LOCANA   :              |
| ATNTYP : CO           DPLN    : 0             REMANA   :              |
| COPNO  : 100          ITR     : 0             SIDANI   : N              |
| COSNO  : 100          LCRCOSD : 1             SRTIDX   : 1              |
| COTNO  : 100          LCRCOSV : 1             TRTBL    : DIDCR         |
| DEDSVC : NONE         FACILITY : *              |
+-----+
```

7. Verification:

Making basic test calls, (direct dialing an extension) from each system verifies the connection. This application uses ESS5 and NI-2 standards. It is assumed that all features that are supported by these standards will work.

8. Conclusion:

This solution provides a means by which customers with traditional TDM based PBX communications networks, like the Siemens Hicom 300, can become IP Enabled without completely replacing their whole infrastructure. Enabling a gradual migration to a converged solution facilitates opportunities for enterprises using non-Avaya solutions to get familiar with applications and administration of the new Avaya platforms gradually. Enhancements to the enterprise network and the addition of services for new employees can be added to the new Avaya platform as the business needs continue to spawn opportunities for incremental change.

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