

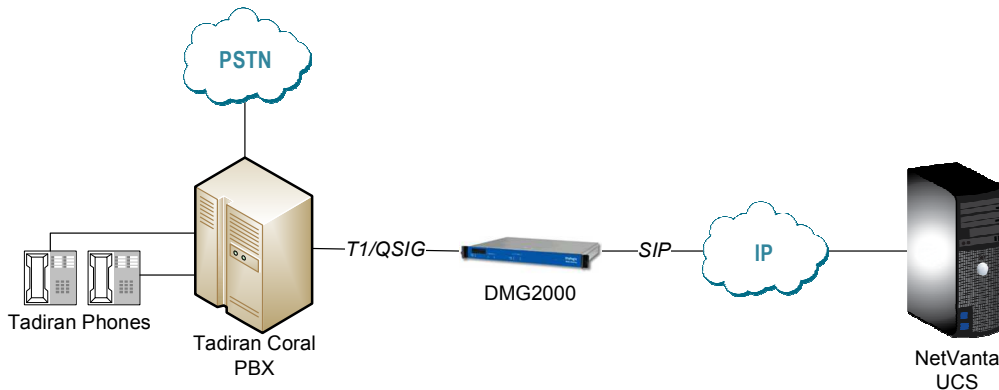


## NetVanta Unified Communications Technical Note

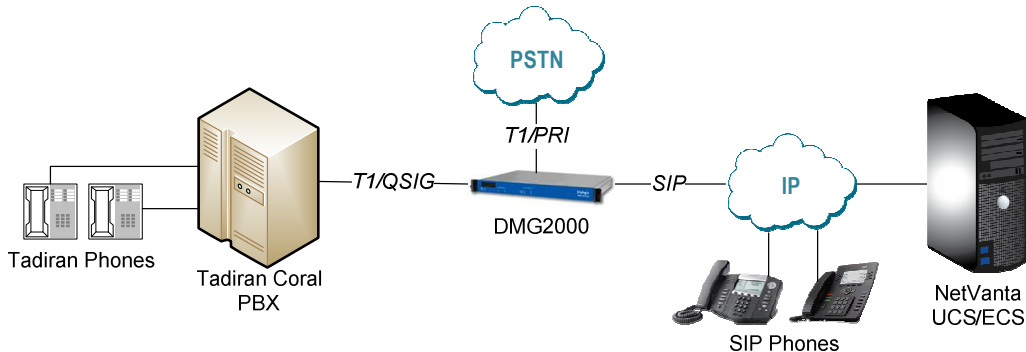
# Configuring a Tadiran Coral PBX using DMG2000 with QSIG

### Introduction

The Dialogic Media Gateway 2000 series provide integration with one or more existing Tadiran Coral PBXs and the NetVanta UC server. The physical connection to the Tadiran Coral PBX is via one or more T1 lines using the QSIG protocol, and the NetVanta UC server uses the SIP protocol to communicate with the Dialogic Media Gateway. The result is that the two systems are bridged together; this modernizes the functionality of the Tadiran PBX by adding advanced unified communications functionality without having to replace any existing PBX hardware infrastructure. Multiple Dialogic Media Gateways can be used to increase capacity and/or to provide fault tolerance. Furthermore, the Dialogic Media Gateway can also be used to terminate T1/PRI trunks from the PSTN.



*Customers that intend to migrate to VoIP over time by adding the Enterprise Communications Server (ECS) licenses to NetVanta UC server can also use the Dialogic Media Gateway to provide extension dialing capabilities between SIP-based phones connected to ECS and Tadiran phones.*



## Intended Audience

This guide is intended for Tadiran PBX technical support specialists and administrators that are responsible for configuring the Tadiran PBX to integrate with the NetVanta UC server software. These administrators should ideally also have some exposure to the Dialogic Media Gateway products and configuration methodologies.

## Supported Features

- Call coverage to personal greetings
  - Busy
  - Do not disturb (DND)
  - Ring no answer
  - All calls
- Caller ID (internal and external)
- Automated attendant
- Return to operator
- Personal greeting of originally called party on double call forward using call coverage
- Direct call
- Message waiting
- Centralized voice mail
- Direct inward dialing (DID) services
- Transfer callers to both internal and external sources (blind and supervised transfers)
- Notification services
  - Active message delivery
  - Pager notification
  - Email notification
- Faxing

## ADTRAN NetVanta UC Server Requirements

- NetVanta Unified Communications Server release 4.6 or higher

## Dialogic Hardware Requirements

Dialogic Media Gateway 2000 series: 6.0 service update 7

## Tadiran PBX Requirements

PBX:	Tadiran Coral
Tadiran version (minimum):	15.68.05
Required licenses/capacities:	ARS, QSIG, PRI, software ports for 24-port PRI card

## Other Software Requirements

Tadiran configuration:	Windows HyperTerminal
------------------------	-----------------------

## Nomenclature

The configuration instructions throughout the document include PBX output text, command input, site-specific values and general comments/examples. PBX output text is shown in regular non-bold/italicized text, with a best-effort to ensure it is the same as it appears in the hyper-terminal interface (occasionally the text is capitalized). Command input is shown in **bold**. Site-specific values – those that correspond specifically to the customer site - are shown in **<Name>**. *Comments are italicized*. For example:

PBX output text:	NAME:	
Command input:	<b>dtdb,4</b>	
Site-specific values (and comment):	<b>&lt;Name&gt;</b>	<i>E.g. Adtran</i>

In many areas throughout the document if values to be entered are not specific to the integration they are often not shown. This is noted where applicable.

# Tadiran Configuration Instructions

## Install PRI card in Tadiran

1. Verify that there is sufficient licensing and SAU authorization for the PRI card.
2. Connect the card to the cabinet.
3. Set up the D channel using the following commands:

### dtdb,4

choose access method: **1**

choose mode: **0**

**<shelf>** *E.g. for shelf 0, slot 0, DSL 0: 0*

**<slot>** *8*

**<circuit>** *0*

The following steps show only values required for the integration. Use defaults or your own values for the other entries.

NAME: **<Name>** *E.g. Adtran*  
B\_CHANNEL\_NEGOTIATION: **Exclusive**  
PROTOCOL\_ID: **Qsig**  
PROTOCOL\_SIDE: **Network**  
END\_OF\_DIAL\_DIGIT: **NONE**  
Adjacent Entity Number: **<a number not yet used on the PBX>**

Note: if this is a multi-PRI integration then the Adjacent Entity Number needs to be the same for each of the D channels to the gateway.

TRANSIT\_COUNTER\_CODING (Ecma/Iso): **Ecma**

PROTOCOL\_PROFILE (Ecma/Iso): **Ecma**

```
0,8,0
-----
NAME-      Adtran
SIGNALING CHANNEL-  1
MAIN_CHANNEL:
  SHELF -    0
  SLOT  -    8
  CHANNEL -  24
B_CHANNEL_NEGOTIATION:
  (Exclusive/Preferred)- Exclusive
PROTOCOL_ID (At&t/Etsi/aUstralia/Qsig)- Qsig
PROTOCOL_SIDE: U(User or slave)/N(Network or master)- Network
END_OF_DIAL_DIGIT- NONE
SENDING_COMPLETE for outgoing calls (Y/N)- N
SENDING_COMPLETE for Enblock Incoming calls (Y/N)- N
Send Connected Number to Public Network (Y/N)- N
CONNECT WHEN DEST IS NOT ISDN (Y/N)- Y
DTMF WHEN CALL PROC (OVERLAP ONLY) (Y/N)- Y
MLPP_SUPPORT (Y/N)- N
Adjacent Entity Number - 2
Filter out IN_BAND_PROGRESS (Y/N)- N
Send Redirecting Number (Y/N)- N
OSIG DEFINITIONS :
Support Call Independent Signalling Connection (CISC) (Y/N)- Y
Transit Counter in CISC calls (Y/N)- Y
NET DIVERSION (Y/N)- N
TRANSIT_COUNTER_CODING (Ecma/Iso)- Ecma
PROTOCOL_PROFILE (Ecma/Iso)- Ecma
Path Replacement re-use of connection element (Y/N)- Y
```

4. Set up the B channels. Commands:

**npl,0**

**2**

**<next set of 23 numbers for B-channels>**

*E.g. 7300*

*7322*

NUMBERS ALREADY DEF: **n**

choose type: **0**

ENTER (SHELF, SLOT, CKT) – (**<shelf,slot,circuit>**)

*E.g. (0,8,1)*

```
GENERAL
choose mode          |
0 - UPDATE
1 - DISPLAY
2 - ADD
3 - REMOVE
5 - SHOW
7 - ERASE
*: 2

FROM NEW DIAL# - 7300
TO   NEW DIAL# - 7322
NUMBERS ALREADY DEF ? (Y/N)  n

0 - TRUNK          1 - SLT
2 - KEYSET         3 - KEYSET_V_PAGE
4 - TRUNK_GRP     5 - HUNT_GRP
6 - BOSS_GRP      7 - PUBLIC_LIB
9 - FEATURE       10 - EDIT
11 - BELL         12 - PAGE
13 - MODEM       14 - DID_NUMS
16 - DATA_PORT  19 - PRIVATE_LIB
20 - KEYSET_Z_PAGE 21 - RELAY
22 - DATA_USER  23 - DATA_GRP
30 - CONF        31 - DVMS_MSG
32 - DVMS_PORTS  33 - PAGE_Q
35 - GROUP_CALL  36 - DIAL_SERV
37 - ROUTING_ACC 38 - WAIT_QUE
39 - NETWORK     40 - WIRELESS
41 - IP_KEYSET   42 - IP_SLT
43 - IP_LGS      44 - IP_KEY_VPG
45 - IP_NET      46 - SIP_TERMINAL
47 - SIP_TRUNK   48 - DYNAMIC_CONF

choose type
*: 0
ENTER (SHELF,SLOT,CKT) - (0,8,1)_
```

## Configure Trunk Group for UC Server

1. Find the next unused trunk group number. Commands:

**tgdef**

choose mode: **1**

- a. Accept FROM/TO defaults
- b. Find a GRP# that is UNDEF, and use that group number for the new trunk group.
- c. If there are no undefined trunk groups (otherwise skip to next section):

- i. Find the next available index. Commands:

**npl,0**

choose mode: **5**

choose type: **4**

*Examine the existing entries and pick the next available Index.*

- ii. Create a new trunk group. Commands:

**npl,0**

choose mode: **2**

FROM NEW DIAL#: **<new trunk group number>**

TO NEW DIAL#: **<same number as above>**

NUMBERS ALREADY DEF ? (Y/N): **n**

choose type: **4**

ENTER INDEX#: **<Index as above>**

- iii. Locate the QSIG routing access number. Commands:

**lcr,1**

choose mode: **1**

FROM ... **<accept default>**

TO ... **<accept default>**

*Look for NPID with 'Private' and use the corresponding routing access number (screen shot on following page).*

```

choose mode
0 - UPDATE
1 - DISPLAY
*: 1
FROM ROUTING_ACCESS DIAL# - 9
TO ROUTING_ACCESS DIAL# - 7080
Any specific data field (type ? for help)
-
Routing general definitions
9
-----
NAME - BLANK
-----
DEFAULT ELEMENT# - 0
NPID (Isdn_telephony/Private) - Isdn_telephony
OUTGOING ANI:
PREFIX - --
SITE LDN - --
TYPE OF NUMBER (International/National/Subscriber/Unknown)
CALLED (DEFAULT) - National
CALLING - National
MLPP METHOD (Y/N) - N
7080
-----
NAME - QSIG
DEFAULT ELEMENT# - 10
NPID (Isdn_telephony/Private) - Private
SITE LDN - --
TYPE OF NUMBER (Unknown/Regional-1/Regional-2/PTN/Local)
CALLED (DEFAULT) - Regional-1
CALLING - Regional-1
MLPP METHOD (Y/N) - N

```

iv. Define the parameters for the trunk group. Commands:

**tgdef**

choose mode: 0

The following steps show only values required for the integration. Use defaults or your own values for the other entries.

```

FROM TK_GRP#: <trunk group number as above>
TO TK_GRP#: <same trunk group number as above>
SHORT(5): <same trunk group number as above>
FULL(16): ADTRAN_UC
IP_ZONE (#/R): 0
ISDN ONLY (Y/N): N
QSIG (Y/N): Y
DTMF_DIGITS_BEFORE_ANSWER: Y
ROUTING ACCESS: <QSIG routing access number as in step iii above>
MEM #1: <starting number for B-channel series on PRI>
MEM #2: <next number>
...
MEM #23: <last number for B-channel series on PRI>

```

*(Screen shot on following page)*

```

0 - UPDATE
1 - DISPLAY

*: 0

FROM TK_GRP# -      80  7081
TO   TK_GRP# -      7081
Any specific member (CR/NUM) -

    7081
-----

NAME: (for space use underscore: "_")
SHORT(5) - 7081
FULL(16) - Adtran_VM

NOTE: All NET IP calls in this group will disconnect upon update!
IP_ZONE (#/R) - 0
ISDN ONLY (Y/N) - N
OSIG (Y/N) - Y
DTMF_DIGITS_BEFORE_ANSWER - Y
ANI_SCREENING_SEND(Unavailable,Site_ldn,Transparent,Omit) - T
SEARCH_TYPE (0-circ 1-term) - 1
DTD_OVERRIDE - N
OGR_OVERRIDE - N
COLLECT_TONE_OVERRIDE - Y
PAGING - N
TK_TK_CONNECT_OVERRIDE - N
BCCOS - 0
ROUTING_ACCESS - 7080
LAR_MAX_ASYNCHRONOUS_FAILS (0-10) - 2
LAR_SYSTEM_PREFERENCE (Cost/Performance) - P
LAR_TRIGGERS_SET - 0
TRANSIT_ALI - NONE
DIALING_METHOD (Enblock/Overlap) - E
DIAL_IN_FILTER -
DIAL_IN/CALLER_OUT_OFFSET- NONE
CALLER_#_OUT_FILTER -
INCOMING_ANI_FILTERS (Y/N) - N
METERING_UNIT_CHARGE (xxxxx.yy) - N
INCOMING_CLI_REQUEST (Y/N) - N
NUMBER_OF_DIGITS_EXPECTED -
DISABLE_DTMF_SUPERVISION (Y/N) - N
JOIN_GROUP_CALL_IN_MUTE (Y/N) - N

NOTE: ADD/REMOVE MEMBERS MAY EFFECT CLA EVENTS. RESTART CLA IF NEEDED
(A/R/CR)
MEM# 1 - 7300
MEM# 2 - 7301 ~U

```



## Create a Dial Service

1. Look for a Dial Service that is undefined. Commands:

**lcr,3**

choose mode: **1**

FROM SERVICE DIAL#: **<press Enter>**

TO SERVICE DIAL#: **<press Enter>**

*Wait for the list to finish displaying, this could take several seconds. Look for an entry ROUTING DEST NUM where the value is "--". Make note of the corresponding routing destination number.*

```
4873
-----
NAME - BLANK
NSF - -
ROUTING ACCESS -          9
(DIAL IN/CALLER OUT) OFFSET - -
CALLER # OUT FILTER -
SERVICE TYPE (Outgoing/Incoming/Both) - Both
LAR ON Call Independent Signaling Connections (Yes/No) - Y
LAR TRIGGERS SET - 0
EXTENDED INTERNAL DIAL_SERVICE (Y/N) - N
ROUTING DEST NUM -      --
DIAL_FILTER -
EXPENSIVE TONE
(day/even/night) - N/N/N
TNNT_GRP - 0
BCCOS - 0
COS - 0
D.I.L. DESTINATION -      NONE
NIGHT1 DESTINATION -     NONE
NIGHT2 DESTINATION -     NONE
DIAL IN FILTER -
USE SECOND ALI (Y/N) - N
compression
0=G.711 with 10ms 1=G.711 with 20ms 2=G.711 with 40ms 11=G.711 with 80ms
4=G.729 with 10ms 5=G.729 with 20ms 6=G.729 with 30ms 7=G.729 with 40ms
13=G.729 with 80ms 3=G.723 with 30ms 9=G.723 with 60ms 12=G.723 with 90ms
10=G.729 20ms+vad 8=G.723 30ms+vad

replace by (...) / add by (a,...) / remove by (r,...) / end by <CR>:
COMPRESSION_CAPABILITY - ()

NET_IP:
IP_ADDRESS(#/R) - ----.----.----.----:----
SIGNALING_LOCAL_IP_ADDRESS (Y/N) - N

SIP_TRUNK (Y/N) - N
```

2. If there is no undefined dial service, you must create one.
  - a. Find the next available index. Commands:

**npl,0**

choose mode: **5**

choose type: **36**

*Examine the existing entries and pick the next available index.*

- b. Create a dial service. Commands:

**npl,0**

choose mode: **2**

FROM NEW DIAL #: **<new number not currently in use>**

TO NEW DIAL #: **<same number as above>**

NUMBERS ALREADY DEF ? (y/n): **n**

choose type: **36**

ENTER INDEX#: <next available index, as above>

3. Define the parameters for the dial service. Commands:

**lcr,3**

choose mode: **0**

FROM NEW DIAL #: <dial service number>

TO NEW DIAL #: <same number as above>

The following steps show only values required for the integration. Use defaults or your own values for the other entries.

NAME: **Adtra**

ROUTING ACCESS: <QSIG routing access number>

SERVICE TYPE: **Both**

ROUTING DES NUM: <trunk group number>

DIAL\_FILTER:

```
4858
-----
NAME - Adtra
NSF - -
ROUTING ACCESS - 7080
(DIAL_IN/CALLER_OUT) OFFSET - -
CALLER # OUT FILTER -
SERVICE TYPE (Outgoing/Incoming/Both) - Both
LAR ON Call Independent Signaling Connections (Yes/No) - Y
LAR TRIGGERS SET - 0
EXTENDED INTERNAL DIAL_SERVICE (Y/N) - N
ROUTING DEST NUM - 7081
DIAL_FILTER -
EXPENSIVE TONE
(day/even/night) - N/N/N

TNNT_GRP - 0
BCCOS - 0
COS - 0
D.I.L. DESTINATION - NONE
NIGHT1 DESTINATION - NONE
NIGHT2 DESTINATION - NONE
DIAL IN FILTER -
USE SECOND ALI (Y/N) - N
compression
0=G.711 with 10ms 1=G.711 with 20ms 2=G.711 with 40ms 11=G.711 with 80ms
4=G.729 with 10ms 5=G.729 with 20ms 6=G.729 with 30ms 7=G.729 with 40ms
13=G.729 with 80ms 3=G.723 with 30ms 9=G.723 with 60ms 12=G.723 with 90ms
10=G.729 20ms+vad 8=G.723 30ms+vad

replace by (...) / add by (a,...) / remove by (r,...) / end by <CR>:
COMPRESSION_CAPABILITY - ()

NET_IP:
IP_ADDRESS(#/R) - ----.----.----.----:----
SIGNALING_LOCAL_IP_ADDRESS (Y/N) - Y

SIP_TRUNK (Y/N) - N
```

## Create an Element

1. Locate an empty element. Commands:

### lcr,4

choose mode: **1**

FROM ELEMENT #: **<press Enter>**

TO ELEMENT #: **<press Enter>**

*Wait for all elements to be displayed. Scroll up and look for an element that has no priority defined.*

```
-----  
LAR MAX ASYNCHRONOUS FAILS (0-10) - 2  
LAR SYSTEM PREFERENCE (Cost/Performance) - P  
DAY: FROM - 0:00  
      PRIO - (  
EVEN.: FROM - NONE  
      PRIO - (  
NIGHT: FROM - NONE  
      PRIO - (  
-----
```

2. Set the parameters for the empty element. Commands:

### lcr, 4

choose mode: **0**

FROM ELEMENT#: **<enter the empty element #>**

TO ELEMENT #: **<same as above>**

*Accept default values except for the priority fields:*

DAY:

PRIO: **(<enter dial service number from previous section>)**

EVEN:

PRIO: **(<enter dial service number from previous section >)**

NIGHT:

PRIO: **(<enter dial service number from previous section >)**

```
choose mode  
0 - UPDATE  
1 - DISPLAY  
3 - REMOVE  
  
*: 1  
FROM ELEMENT#-      0 18  
TO ELEMENT#-      18  
  
route elements number  
from is hh:mm or n for none  
prio is (high dial service/group,.....,low)  
  
18  
-----  
LAR MAX ASYNCHRONOUS FAILS (0-10) - 2  
LAR SYSTEM PREFERENCE (Cost/Performance) - P  
DAY: FROM - 0:00  
      PRIO - (4858)  
EVEN.: FROM - 0:00  
      PRIO - (4858)  
NIGHT: FROM - 0:00  
      PRIO - (4858)  
-----
```

## Create a New Network Node Definition

1. Locate an empty network node definition. Commands:

**net,0**

choose mode: 1

FROM NODE#: <press Enter>

TO NODE #: <press Enter>

*Look through results for "NAME - BLANK" and "R.E#--" and make note of the NODE#.*

NODE# - 17

NAME- BLANK                      R.A#-        NONE                      L/R-R        R.E#--

2. Define the network node definition. Commands:

**net,0,1**

choose mode: **0**

FROM NODE #: <node number from step 1>

TO NODE #: <same as above>

FULL NAME: **ADTRAN\_UC**

ROUTING\_ACCESS #: <routing access number from 'Create a Dial Service' section>

LOCAL/REMOTE: R

ROUT\_ELEMENT #: <route element from 'Create an Element' section>

```
TO        NODE#-        2
NODE_CONTENT
2
-----
FULL NAME - BLANK                      ADTRAN
ROUTING_ACCESS # -        NONE        7080
LOCAL/REMOTE -        R
ROUT_ELEMENT # - --        18

choose mode
0 - UPDATE
1 - DISPLAY
*:
```

## Create a New Number Plan Entry

1. Create a new number plan entry to correspond to the UC server answering group number. Commands:

**npl,0**

choose mode: **2**

FROM NEW DIAL #: <answering group number to be used for UC server>

*E.g. 4999*

The answering group number must be unique in the Tadiran number plan. All phones will be forwarded to this number when the extension is not answered, busy, etc...

TO NEW DIAL #: <same as above>

NUMBERS ALREADY DEF? (Y/N): **n**

choose type: **39**

ENTER NODE #: <enter node number from previous section>

```
choose mode
0 - UPDATE
1 - DISPLAY
2 - ADD
3 - REMOVE
5 - SHOW
7 - ERASE

*: 2

FROM NEW DIAL# - 4999
TO NEW DIAL# - 4999
NUMBERS ALREADY DEF ? (Y/N) n

0 - TRUNK
1 - SLT
2 - KEYSSET
3 - KEYSSET_V_PAGE
4 - TRUNK_GRP
5 - HUNT_GRP
6 - BOSS_GRP
7 - PUBLIC_LIB
9 - FEATURE
10 - EDIT
11 - BELL
12 - PAGE
13 - MODEM
14 - DID_NUMS
16 - DATA_PORT
19 - PRIVATE_LIB
20 - KEYSSET_Z_PAGE
21 - RELAY
22 - DATA_USER
23 - DATA_GRP
30 - CONF
31 - DVMS_MSG
32 - DVMS_PORTS
33 - PAGE_Q
35 - GROUP_CALL
36 - DIAL_SERV
37 - ROUTING_ACC
38 - WAIT_QUE
39 - NETWORK
40 - WIRELESS
41 - IP_KEYSET
42 - IP_SLT
43 - IP_LGS
44 - IP_KEY_VPG
45 - IP_NET
46 - SIP_TERMINAL
47 - SIP_TRUNK
48 - DYNAMIC_CONF

choose type
*: 39

ENTER NODE# - 18_
```

## Verify System Feature Control values

1. Verify SFE 11 value is set to Ecma (E). Commands:

**sfe,11**

choose mode: **1**

2. The following entries must be set to these corresponding values:

```
INITIATE_TRANSFER_BY_REROUTING: N
PATH REPLACEMENT: Y
ACTIVATE_PATH_REPLACEMENT_ON_TRANSFER: Y
ACTIVATE_PATH_REPLACEMENT_OF_FORWARD: Y
NET MESSAGE: E
```

```
choose mode
0 - UPDATE
1 - DISPLAY
*: 1
Any specific data field (type ? for help)
_

Network

TRANSIT_COUNTER(1-31) - 15
INITIATE_TRANSFER_BY_REROUTING - N

ALLOW_TRANSFER_BY_REROUTING_TO_VM - N
ALLOW_TRANSFER_BY_REROUTING_VIA_NET_IP - Y
MAX_DIVERSIONS(1-31) - 15
CAMP_ON - Y
NET MESSAGE (Coral/Ecma) - E
PATH REPLACEMENT - Y
  ACTIVATE_PATH_REPLACEMENT_ON_TRANSFER - Y
  ACTIVATE_PATH_REPLACEMENT_ON_FORWARD - Y
NETWORKING_WIDE_VFAC (Y/N) - Y
DEFAULT_MLPP_SERVICE_DOMAIN (N/#)- 0
MLPP_NETWORK_ID - 0
TBCT_TO_B_CHANNEL_TRANSFER_ALLOWED(AT&T) (Y/N) - N
ENABLE_TBCT_WITHOUT_SMDR (at&t)(Y/N) - N
MAXIMUM_HOURS_TBCT_CALL (at&t)(1-250) - 0
```

If these entries are not set according to the values above then enter "update mode" and set them to the correct values.

## Set Phones to Forward to the New Number Plan (Answering Group #)

1. From the phone, dial:

#142<new answering group number for UC server>      E.g. #1424999

2. From the console (to quickly set a range of extensions):

**feat,0**

choose mode: **0**

FROM DIAL #: <starting extension number in range>

TO DIAL #: <ending extension number in range>

CHOOSE FEATURE: **13**

```

*: feat,0

choose mode
 0 - UPDATE
 1 - DISPLAY

*: 0

FROM      DIAL# -    1509
TO        DIAL# -    7781

CHOOSE FEATURE

1 - ATTEND_MSG      21 - NIGHT-1
2 - CF_ALL          22 - NIGHT-2
3 - CF_BUSY        23 - EXC_HOLD
4 - DONT_DIST      24 - PRIVACY
5 - HOT_ST_IMM     25 - O/G_ONLY_TK
6 - DIAL_LOCK      26 - CHECK_OUT
7 - HOT_ST_DELAY   27 - TIMED_FWD
8 - DIR_IN_LINE    28 - CLR_ID_RESTR
9 - TERMIN_ONLY    29 - LAR_BLOCKED
10 - ORIGIN_ONLY   30 - CF_EXT_ALL
11 - ST_BLOCKING   31 - CF_EXT_BUSY
12 - O/G_TK_RESTR  32 - CF_NO_ANS_EXT
13 - CF_NO_ANS     33 - TIMED_FWD_EXT
14 - BUSY_OUT      34 - AUTO_SET_RELOCATE
15 - CO_BLOCKED    35 - FlexiCall_ALL
16 - HOT_TK_DELAY  36 - FlexiCall_INT
17 - DROP_NO_DIAL  37 - FlexiCall_EXT
18 - HOT_TK_IMM    38 - IRSS
19 - I/C_ONLY_TK   39 - CF_UNDEF
20 - TK_RSRVD

*: 13

DIAL      1509 : DEST = 4999_

```

## Dialogic Media Gateway Configuration Instructions

Follow the instructions in the technical note labeled [Configuring the Dialogic Media Gateway](#) in the ADTRAN support forums, with the following difference noted below:

### QSIG Protocol Specification: ECMA\_Only

The screenshot shows the Dialogic configuration interface for T1/E1 settings. The breadcrumb path is 'Config > TDM > T1/E1'. The left sidebar contains a navigation menu with sections: Status (Summary, Alarms, TDM, VoIP, Serial, Call Log, MIB-II, Statistics), Configuration (Import/Export, IP, Mgmt. Protocols, Routing Table, TDM, VoIP, Serial, Tone Detect, Certificates, DSP Settings), Diagnostics (Trace/Logging, Tests), and System (Web UI, Password, Upgrade, Restart). The main content area is titled 'T1/E1 Configuration' and contains the following settings:

T1/E1 Configuration	
<b>Line Settings</b>	
* Line Mode	T1
* Signaling Mode	ISDN
* Telephony Port Interface Side	Terminal
<b>T1 Line</b>	
* Line Encoding	B8ZS
* Framing	ESF
* Selects Transmit Pulse Waveform	Short_Haul_110ft
<b>T1 ISDN protocol</b>	
* ISDN Protocol	QSIG
ISDN Protocol Variant	None
<b>General ISDN Settings</b>	
QSIG Protocol Specification	ECMA_Only
Multiple Diversion Processing	First
Network-Specific Facilities (NSF)	None
ISDN Service Class	Speech
ISDN Answer Supervision Enable	No
Force Channel Ext Bit Low	No
ISDN Overlap Receive Minimum Digits	0
ISDN Overlap Receive Timeout (ms)	24000
ISDN Overlap Receive Number Match	
<b>Failover Settings</b>	
* Enable Failover	No