

# Application Note



Ascom® Wireless Solutions Inc.

Product: DLU Port Configuration-Meridian-1/SL-1  
Purpose: To provide information on DLU port configuration between DCT1900 Freeset on-site wireless communication system and Meridian-1/SL-1.  
Date: March 8, 2005

## DLU Port Configuration-Meridian-1/SL-1

### Overview

The DLU provides an intelligent interface between the Freeset DCT1900 on-site wireless communication system and a proprietary digital PBX. The DLU emulates the digital telephone sets of the PBX and allows Freeset users to take advantage of digital phone set features.

### Digital Phone Set Features

The DLU supports the following digital phone set features to the Freeset DCT1900 Portable Telephones:

- Multiple Line Appearance
- Calling Line Identity
- Called Line Identity
- Connected Line Identity
- Redirected Party Number
- Message Waiting Indication
- Transfer
- Conference
- Hold
- Reconnect

### Hardware

The NT8DO2 (16 port) line card is needed for the M-1 PBX  
The QPC578D (8 port) line card is needed for the SL-1 PBX  
The NTDK16BA (48 port) line card is needed for the Option 11c Mini

### Software

Supports software release 25 – Succession 3.0

### Programming

The programming menus for M-1/SL-1 systems vary between different software releases. Refer to the appropriate manuals for details. Error codes are in numeric form. You will need a manual to decode them.

The important port configuration details:

- Handsfree (HFA) and display (ADD) must be set in CLS (class of service).
- There must be 4 SCR (single call ringing) appearances, with unique DN's, on the first 4 keys (0-3).
- LHK (last hunt key) must be set to 3.
- TRN (transfer) must be on key 4.
- AO6 (conference) must be on key 5.

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1. Enter <CR> a few times. The consoles should respond with "OVL111 IDLE": this means you can attempt to login.
2. Enter "LOGI" and hit <CR>. Enter your password and hit <CR>.
3. The system should log you on. The system prompt will say "TTY #00 LOGGED ON AT..." and the current date and time.
4. Configure the DLU ports using Overlay 11. Type "LD 11" <CR> and wait for the "REQ" prompt.
5. If the 2616 ports exist, use "CHG" to modify them. Type "CHG" <CR>, enter "2616" for the type, and then the TN (terminal number). Use the easy change option (type "YES" <CR> at the "ECHG" prompt) to set the following fields. If the ports do not exist, use the "NEW" option and use all default values (press <CR> at the prompt) with the following exceptions:
  - a. CLS (class of service): The following marks must be set: HFA ADD
  - b. LHK (last hunk key) must be set to 3.
  - c. KEY 00 SCR XXXX. This must be a unique DN.
  - d. KEY 01 SCR XXXX. This must be a unique DN.
  - e. KEY 02 SCR XXXX. This must be a unique DN.
  - f. KEY 03 SCR XXXX. This must be a unique DN.
  - g. KEY 04 TRN. This is the transfer key.
  - h. KEY 05 AO6. This is the 6-party conference key.
6. Repeat 5-13 for all DLU ports.
7. Exit system by typing LOGO.

## Assigning PRI Lines for External Calling

It is assumed a PRI trunk is present and configured for general operation. Assigning PRI lines/DNs to the port is accomplished by simply entering the desired DID number associated with one of the PRI trunk lines as a KEY 00 to 03 number (as seen in the previous page).

## Assigning Analog Lines for External Calling

With an analog trunk attached and configured on the PBX, incoming calls can be configured to ring at a desired set by programming the following:

1. Login and type "LD 14" <CR> and wait for the "REQ" prompt.
2. At "REQ" enter "CHG".
3. At "TYPE" enter "COT".
4. At "TN" enter the analog terminal number - "1 0" for this example.
5. Press "enter" until "ATDN" is displayed and enter the DN of the set to receive the call.
6. Press "enter" until "REQ" is displayed.

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The DN assigned to receive the call can be verified by the following steps:

1. Login and type "LD 20" <CR> and wait for the "REQ" prompt.
2. At "REQ" enter "PRT".
3. At "TYPE" enter "COT".
4. At "TN" enter the analog terminal number - "1 0" for this example.
5. Press "enter" until "ATDN" and the assigned DN are displayed.

### Maintenance

The Meridian PBX may disable ports that are left idle for a long period of time. If this occurs, the following steps may be taken to re-enable the ports:

Repeat steps 1 to 3 in the Port Configuration section.

1. Login and type "LD 32"
2. Get that state of the card or DN.  
Type: STAT 17 (card 17)  
Type: STAT 17 05 (card 17, port 05)
3. If any ports are listed as disabled, either the entire card or individual ports can be re-enabled.  
Type: ENLC 17 (enable entire card)  
Type: ENLU 17 05 (card 17, port 05)
4. Get the state (step 2) to verify ports are enabled. They should be listed as "Idle".

### References

Nortel Meridian Administration and Implementation Manual.  
Ascom Technical Services Bulletin - AN-0359 V2

<http://www.nortelnetworks.com/support>

### Comments

The Meridian DLU interface board provides similar characteristics of the M2616 telephone with display.

### Additional Information

For additional information, please contact the Ascom Technical Support team at 1-877-71ASC0M, Option 3.