

December 17, 2003

Log #: AN-0367

DLU Port Configuration – Avaya G3 v4

Overview

The DLU provides an intelligent interface between the Freeset DCT1900 in-building 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

TN2224 (24 ports) line card, lower versions of TN2224B (24 ports) line card, or a TN2181 (16 ports) line card needed for Avaya PBX.

Software

Supports software release V4 and higher.

Programming

NOTE: The programming for Avaya systems vary between different systems and software releases ... consult the appropriate manuals for details.

The important port configuration details:

- There must be 4 call appearance keys, on buttons 1-4
 - The "Restrict last appearance" option must be off ("n") to allow incoming calls on the 4th line appearance.
1. Enter your login and password at the console to gain access to the Avaya PBX database. Note that you'll need a login and password that allows maintenance access to perform system maintenance functions, such as re-enabling an "out-of-service" port.

December 17, 2003

Log #: AN-0367

2. To add a station, use the "add station next" command. The next available port in the system will be readied for programming. If the port has already been defined, use the "change station XXXX" command, where XXXX is the station number of the port.
3. The station screen will come up. Normally there are 4 pages to a station definition.
4. On the first screen, enter the phone type as 8410D.
5. Enter the system port (i.e., 1A1007) if required.
6. Enter the set's name according to the naming conventions listed in the Naming Conventions section below.
7. Skip to the 2nd page of the station definition. Hit <CR> until you get to the "Restrict last appearance" field, change this to "n".
8. Skip to the 3rd page of the station definition. Hit <CR> until you get to the Button Assignment section, make sure that buttons 1-4 are "call-appr".
9. Save the station definition.
10. Repeat for the remaining DLU ports.

Naming Conventions for Internal Caller ID and External Trunk ID

Naming conventions are required for proper display via the DLU card. The conventions are as follows:

1. There are no longer length restrictions on number of characters allowed in the DLU, resulting in PBX entry field restrictions applying.
2. The name field should not contain numeric strings alone or separated from non-numeric strings by spaces (i.e. any set of numbers, with or without embedded dashes, separated by spaces - e.g. "port 1 28 04", "1-28-04", "321-1239", etc. are invalid).
3. Numeric strings may be included if in combination with non-numeric characters, as long as a non-numeric character is part of the numeric string (e.g. "port1-28-04", "port P1-28-04", "port 1_28_04", "1_28_04", etc. are valid names - note the underscores).

Configuring Digital Trunks for External Calling – PRI

After logging into the PBX, enter the following items.

1. Enter the command "change trunk x" where x = the digital trunk in question.
2. On page 1 for the above mentioned trunk, enter a "Group Name" according to the naming conventions listed in the Naming Conventions section.
3. On page 3, enter the following on a DID/port by DID/port basis:
Service Feature = public-ntwrk
Call Len = 4
Called Num = DID #1 (choose a DID from the 23 present on the current trunk)
Del = 4
Insert = DN #1 (enter the DN of the set the call is to be routed to)
4. On page 4, the Port Number and Signal Group should be displayed, beside the appropriate port enter the name for that port following the naming conventions mentioned in step 3.

December 17, 2003

Log #: AN-0367

NOTE: this assumes proper routing has been configured in the PBX for external dialing - contact system administrator or consult the PBX documentation. Inbound calls to the programmed DID number will now be presented at the designated DN and the set will be able to dial out by dialing the appropriate prefix (as set in routing).

Configuring Analog Trunks for External Calling

After logging into the PBX, enter the following items.

1. Enter the command "change trunk x" where x = the analog trunk in question.
2. On page 1, enter a Trunk Group Name as per the naming conventions listed below.
3. Enter the desired DN where an inbound analog call is to ring in the Incoming Destination field.
4. Take note of the Trunk Access Code as this is the code required as a prefix for outbound dialing.

Maintenance

To get an "out of service" port back in service, you must know the port number (i.e., 1A1203) or the station number. At the system console, you can type "status station XXXX", where XXXX is the station number, to get a status for the port. This will show the port status (in service, out of service) and the port number.

To get a port back into service, use the following commands:

```
busyout port (port #)
test port (port#)
release port (port#).
```

As an example, if the port number that's out of service is 01A1201, use the following sequence:

```
busyout port 1a1201
test port 1a1201
release port 1a1201
```

If the port is not known, the station DN may be used to re-enable a port by using the following commands:

```
Find the station status by typing:      ST ST 1705 (status – station – DN)
Busy out station by typing:           BU ST 1705 (busy out - station - DN)
Release the station by typing:        REL ST 1705
Re-check status of port/station – should be displayed as "Idle"
```

December 17, 2003

Log #: AN-0367

Specific system issues:

- (1) Then TN746 analog line card supports 16 phones, but only 8 phones can be ringing at once. It provides only 24V battery and 50-60VAC ringing. If you need a real POTS line card (48V battery, 90-110V ringing) use a TN746B, which still has the same limitation of 8 ports ringing at once.
- (2) The TN2182 tone card will only allow 8 digital phones and 8 analog phones to dial at once. If you anticipate needing more tone detectors, add a TN744 tone pack or TN748 pack (which adds a call classifier).

References

<http://support.Avaya.com/>

Comments

Choose Shift + F5 for list of commands and options.
Choose Shift + F6 to save changes at anytime