

**Lucent Technologies**  
Bell Labs Innovations



# Performing Switch Integration Diagnostics

## Viewing the Status of the Switch Link

**CAUTION:**

At this time, switch integration diagnostic utilities are available only for Lucent data communications interface unit (DCIU) integrations. Therefore, the procedures in the section only apply to those customers with DCIU integrations.

To view the status of the switch link:

1. Start at the [Lucent Intuity Main Menu](#) and select:

```
Customer/Services Administration
  Diagnostics
    Switch Interface Diagnostics
```

The system displays the [Diagnose Switch Link Window](#).



Procedure completed.

## Performing DCIU Circuit Card Diagnostics

The DCIU circuit card is equipped with diagnostic utilities that test circuit card functionality. If the system detects a switch link problem, it starts this diagnostic automatically.

This diagnostic command also resets and initializes the DCIU circuit card and its associated software (DCIU software). Occasionally, the DCIU link “hangs.” Resetting the switch integration hardware and software often corrects the problem with a minimal interruption in service.

### NOTE:

Diagnosing the switch integration card disables all lines associated with the switch link, including all Intuity AUDIX Voice Messaging lines. Subscribers calling AUDIX will hear a fast busy signal. Callers sent to AUDIX coverage will hear ringing with no answer.

To diagnose or reset the DCIU circuit card:

1. Start at the [Lucent Intuity Main Menu](#) and select:

```
Customer/Services Administration
Diagnostics
  Switch Interface Diagnostics
```

The system displays the [Diagnose Switch Link Window](#).

2. Press F8 (Chg-Keys).



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## Performing DCIU Circuit Card Diagnostics

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**3.** Press F4 (Diagnose).

The system displays the [Test Type Menu](#).

**4.** Select:

board

The diagnostic test takes about one minute. During the tests, the word `working` appears in the upper right corner of the screen.

**5.** If the diagnosis of the DCIU circuit card is successful, the system displays the following series of messages.

```
CARD DIAGNOSTIC
```

```
In progress...
```

```
EiconCard EC C20, Diagnostic: Passed
```


```
-----
```

```
DIAGNOSTIC SUMMARY:
```

```
Card #1: Success.
```

```
-----
```

**6.** If the diagnostics fail, replace the DCIU circuit card.

 Procedure completed.

## Performing Digital Station Interface Circuit Card Diagnostics

To diagnose a digital station interface circuit card:

1. Start at the [Lucent Intuity Main Menu](#) and select:

```
Switch Interface Administration
  Call Data Interface Administration
    Switch Link Administration
      VB-PC Interface
        Link Status
```

The system displays the [Link Status Window](#).



Procedure completed.

## Busying Out a Switch Integration Link

It may be necessary to busy-out the switch link in order to troubleshoot or replace the switch card or its cables.

### NOTE:

Busying out the switch link disables all the lines associated with the switch link, including all Intuity AUDIX Voice Messaging lines. Subscribers calling AUDIX will hear a fast busy signal. Callers sent to AUDIX coverage will hear ring/no answer.



### CAUTION:

Any time you busy out the switch from the Lucent Intuity system, you must also busy out the switch link. This prevents the switch from generating alarms.

To busy-out the switch link:

1. Start at the [Lucent Intuity Main Menu](#) and select:

```
Customer/Services Administration
  Diagnostics
    Switch Interface Diagnostics
```

The system displays the [Diagnose Switch Link Window](#).

2. Press F8 (Chg-Keys).



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## Busying Out a Switch Integration Link


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3. Press F2 (Busyout).

The system displays the [Confirm Window](#).

4. Press **y**

The system displays a [Busyout Command Output Window](#).

 Procedure completed.

## Releasing a Switch Integration Link

Releasing the switch link puts the link back in service so that it can accept and process data.

To release the switch link:

1. Start at the [Lucent Intuity Main Menu](#) and select:

```
Customer/Services Administration
  Diagnostics
    Switch Interface Diagnostics
```

The system displays the [Diagnose Switch Link Window](#).

2. Press F8 (Chg-Keys).
3. Press F3 (Release).

The system displays the [Release Command Output Window](#).



Procedure completed.



## Lucent Intuity Main Menu

### INTUITY (TM) Main Menu

```
ASG Security Administration
AUDIX Administration
Customer/Services Administration
Feature Options
Internet Messaging Administration
Networking Administration
Software Management
Switch Interface Administration
System Upgrade
TCP/IP Administration
Unix Management
Voice System Administration
```

## Diagnose Switch Link Window

```

Diagnose Switch Link

STATUS SWITCH-LINK

Type  Baud   State
DCIU  9600   In Service

Link Level 2 is Up

DCIU switches (In/Out of data transfer)
  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
  I

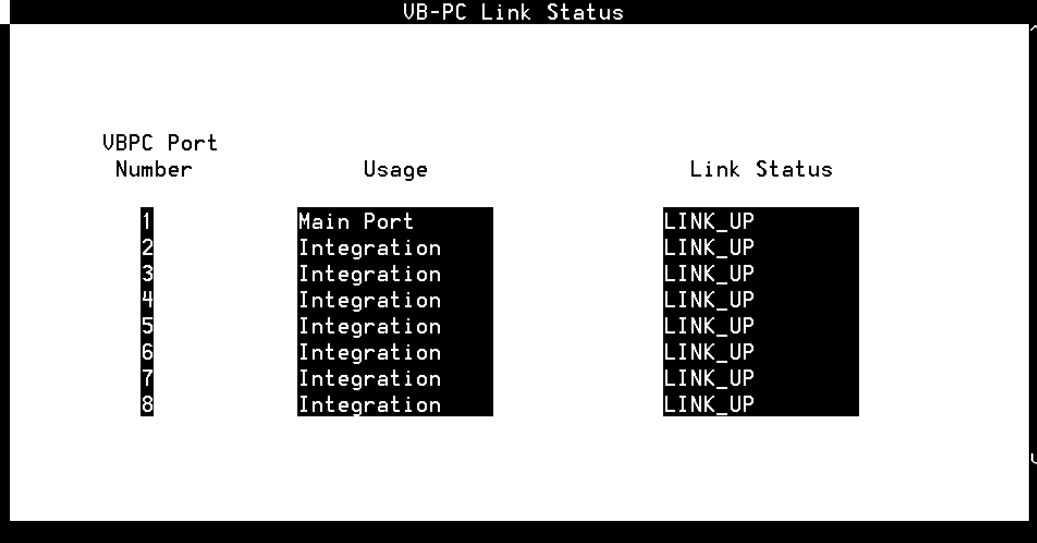
```

Status Field	DCIU Value	Definition
Type	DCIU	This field tells you the mode of switch integration for the Lucent Intuity system.
Baud	9600	This field tells you the speed at which the Lucent Intuity system and the switch communicate.
State	In Service or BUSIED	This field tells you the status of the link.
Link Level 2 is	Up or Down	The field tells you whether or not the link is actively processing data for calls.
DCIU Switches (In/Out Of Data Transfer)	I, O, or blank	This field tells you whether or not the switches in a DCS network are operational or not.

## Test Type Menu

```
Test Type  
>board  
reset
```

## Link Status Window



The screenshot shows a window titled "UB-PC Link Status" with a table of port information. The table has three columns: "UBPC Port Number", "Usage", and "Link Status". The data is as follows:

UBPC Port Number	Usage	Link Status
1	Main Port	LINK_UP
2	Integration	LINK_UP
3	Integration	LINK_UP
4	Integration	LINK_UP
5	Integration	LINK_UP
6	Integration	LINK_UP
7	Integration	LINK_UP
8	Integration	LINK_UP

## Confirm Window

### Confirm

WARNING: The DCIU board is currently in use. Removing it from service will disable all lines associated with the DCIU, including all AUDIX lines.

Press <y> to confirm.  
Press <n> to cancel.

## Busyout Command Output Window

```
Command Output

Busyout DCIU Output:
The Switch Link is changed to state MANOOS.

Press CANCEL to leave this window.
```

## Release Command Output Window

```
Command Output

Release DCIU Output:
The Switch Link is now released.

Press CANCEL to leave this window.
```