



## Configuring a TSU NxIQ module for ISDN Dial Backup (DBU) with an ISU 128

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### Dial Back-Up (DBU) with the NxIQ Module using ISU 128s

#### Introduction

This note will explain how to configure NxIQ modules for dial back-up using ISU 128s.

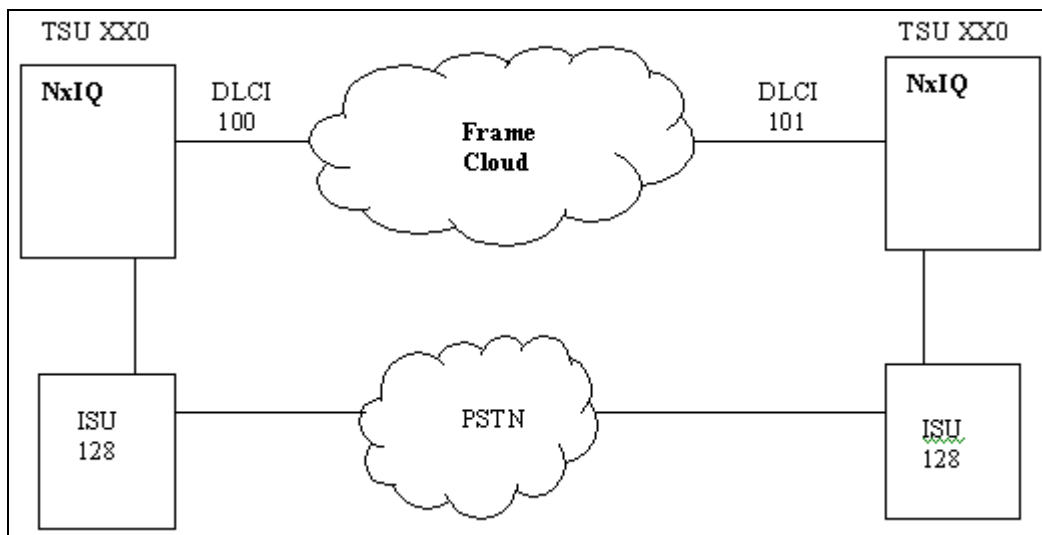


Figure 1

#### Configuration

##### TSU XX0

Configure the TSU as you would for any application. Map the channels that you want running your serial data connection to the NxIQ card.

## **NxIQ Module**

To configure the NxIQ, you will need to establish a console session using a VT-100 terminal connected directly to the Control Port of the card. The terminal settings are as follows:

**DTE Rate:** 9600bps

**Data Bits:** 8

**Parity:** None

**Stop Bits:** 1

**Flow Control:** None

### **Verify the DLCI List**

If the TSU is connected to a working T1, verifying the DLCI information first is helpful. This can be done by going into **2)View Statistics**, then **6) DLCI List**. Active DLCIs will be denoted with an **A**. These are the DLCIs that the Frame Switch is advertising to the IQ. In the example depicted in Figure 1, DLCI 100 would be shown as active.

### **Configuration**

From the main configuration menu, make the following settings:

#### **1) DTE Port:**

##### **1. Physical Layer Options:**

1. **Flow Control:** None
2. **CTS-Forced:** On
3. **DSR-Forced:** On
4. **CD-Forced:** On
5. **TC Clock:** Normal

##### **2. Frame Relay Options:**

Leave these timers on default settings. Then, either enable or disable the Management DLCI 1007.

## 2) Network Port:

1. **Physical Layer Options:**  
**Channel Bandwidth** = 56K or 64K
2. **Frame Relay Options:**  
**Signal Type** = LMI or ANSI
3. **PVC Options:**  
Here is where the DLCI information is configured for each PVC.

**1) DLCI** - Enter the DLCI that was shown as active from your DLCI list above (for our example, DLCI 100).

**2) DBU DLCI** - Enter the DLCI you want backed up when your T1 link goes down. (This is the other side's DLCI-DLCI 101.)

**3) CIR** - Enter the minimum rate that is guaranteed by the frame relay provider.

If any other PVCs need to be monitored or other sites configured for DBU, add these to the DLCI list by using **9) Add**. You can view the PVC list by using **7) Next** and **8) Previous**.

## 3) Dial Backup:

1. **Auto DBU:** Enabled
2. **DBU Options:** Default settings recommended.
3. **DBU Criteria:** Set for either or both **1) Network Failure** and **2) No LMI**
4. **DBU Timers:** Defaults are fine unless customer wants to change the time required to go into DBU and the recovery time for it to switch back to T1.
5. **DCE Options:** Set DBU Bit Rate (for our example, 128 K).

## **Configuring the ISU 128s**

The ISU 128s must be configured for DTR Dialing using Dial Stored Number.

### **Configuring DTR Dialing**

From the main menu, make the following settings:

#### **3) Config**

##### **1) Network Options:**

###### **1) Dial Line**

1. **Switch Protocol** - Provided from telco
2. **Call Type** - Data 64K
3. **Terminal ID** - Set SPID (provided from telco)  
Also, set the local directory number (LDN) for the two spids.
4. **Dial Options** - Front Panel
5. **Auto Answer** - ENABLED

##### **2) DTE Options:**

###### **2) Synchronous**

1. **Bit Rate** - 128,000
2. **Connector Type** - Select the connector type on the ISU.
3. **RTS Options** - Leave at default
4. **CTS Options** - Leave at default
5. **CD Options** - Leave at default
6. **DTR Options** -

**5) Dial # 0 if On** (This must be set on both ISUs.)

##### **3) Protocol:**

###### **2) Bonding Mode 1**

###### **Storing the Number**

From the main menu, make the following settings:

###### **4) Dial**

**6) Store/Review #** -- Enter the number to be dialed.

Your system is now configured for dial back up between two NxIQ modules with ISU 128s.