

INTEGRATED DIGITAL SERVICES TERMINAL

ENHANCED LOOP SHELF UNIT CARD

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1. GENERAL

1.01 This practice provides information about the IDST Enhanced Loop Shelf Unit (ELSU) card (part number 090-53010-01).

1.02 Whenever this practice is reissued, the reason for reissue will be given in this paragraph.

1.03 ELSU cards reside in the option slots (between the LPS and LSIU cards) in both digroups of IDST Loop Shelves.

2. DESCRIPTION

2.01 Figure 1 is a block diagram of the ELSU card. The ELSU card provides a redundant path for data from the channel units to the LSIU in the other half of the Loop Shelf. This path is redundant to the path through the LSIU in the same half-shelf to the LSIU in the other half of the Loop Shelf.

2.02 Transmit data (into the IDST) from the 24 channel units in the same half-shelf enters a multiplexer. The data bus out of the multiplexer goes through a data switch before exiting the unit en route to the LSIU in the other half-shelf.

2.03 Either the ELSU card output switch or the switch on the transmit data path side of the LSIU card is closed, but not both. Both switches are controlled by the microprocessor on the ELSU card. This processor communicates with the LSIU card in the same half-shelf. If the LSIU card fails or is removed from the shelf, the processor will enable the output of the ELSU card, providing a data path through the LSIU card in the other half shelf to the common equipment.

3. COMMANDS

3.01 The ENT-EQPT command enters the ELSU card into the IDST database as follows:

```
ENT-EQPT::ELSU-x:<ctag>::;
```

where x is loop digroup 113 through 168.

3.02 The RST-EQPT command puts the ELSU card in service as follows:

```
RST-EQPT::ELSU-x:<ctag>;;
```

where x is loop digroup 113 through 168.

3.03 The RMV-EQPT command removes the ELSU card from service as follows:

```
RMV-EQPT::ELSU-x:<ctag>;;  
[<mode>],;
```

where x is loop digroup 113 through 168, and <mode> is NORM (default) or FRCD (forced).

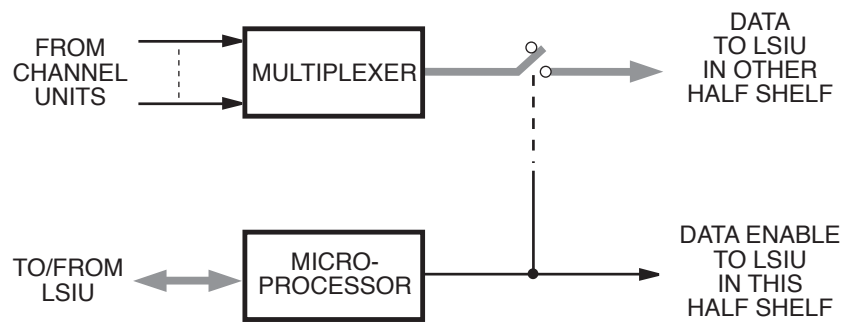


Figure 1. ELSU Card Block Diagram

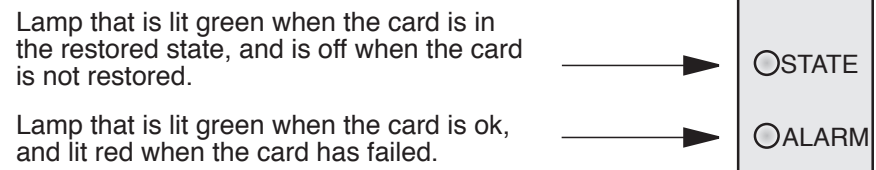
3.04 The DLT-EQPT command deletes the ELSU card from the IDST database as follows:

```
DLT-EQPT::ELSU-x:<ctag>::;
```

where x is loop digroup 113 through 168.

4. FACEPLATE INDICATORS

4.01 Figure 2 is a drawing of the ELSU card faceplate indicators.



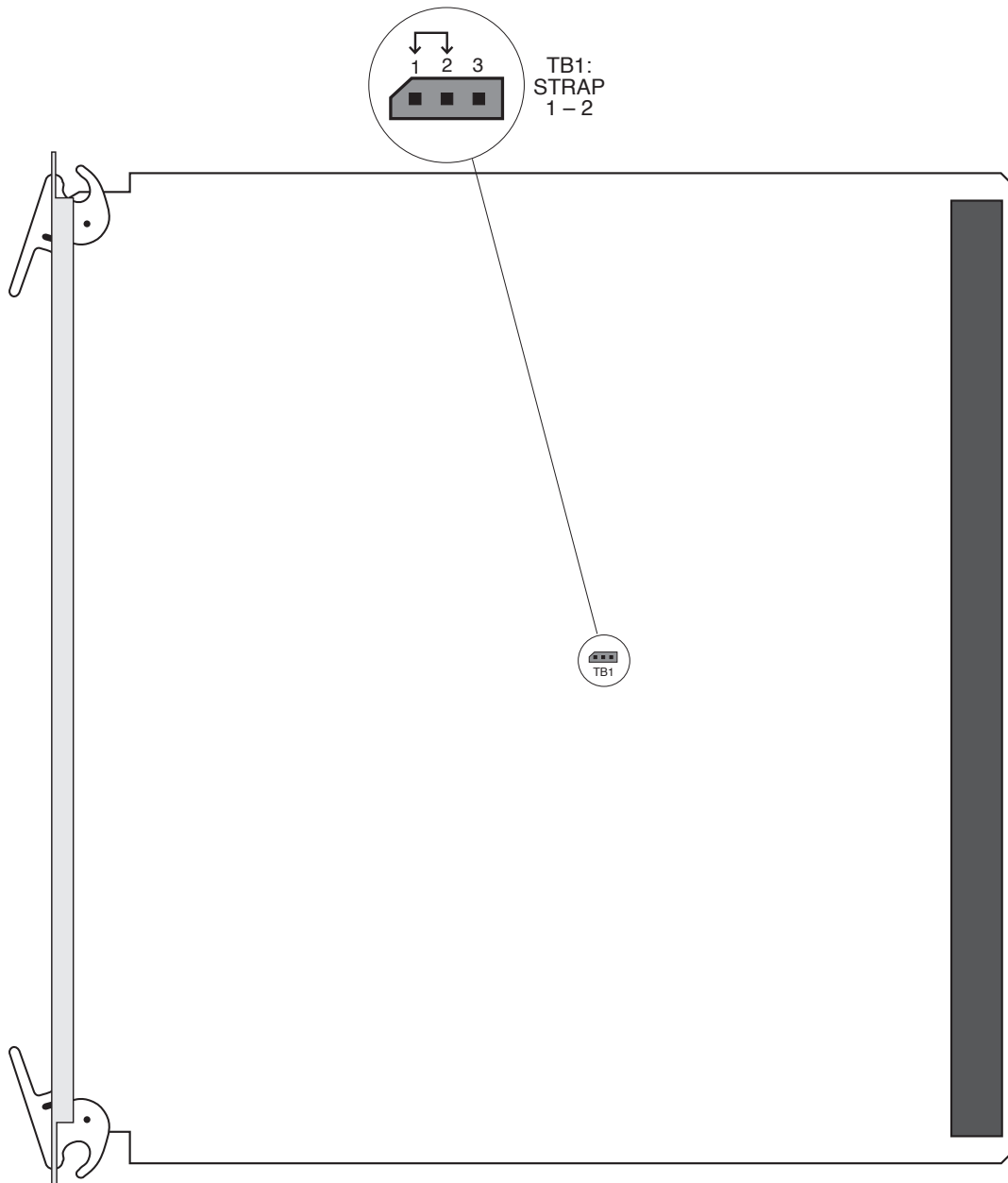
Note: If both lamps are off, the card has lost power.

Figure 2. ELSU Card Faceplate Indicators

5. CARD STRAPS

strap positions other than the normal strap positions indicated in the figure are reserved for factory use.

5.01 Figure 3 is a drawing of the ELSU card straps, and their position for normal card operation. All



Note: Straps are shown in normal operating position. Any change in strap position will affect the operation of this card.

Figure 3. ELSU Card Straps