

## Application Overview – Drop & Insert, and Reinsert

**Application:** Drop & Insert, and Reinsert

**Customer Solutions:** Transportation, Enterprise, Government.

**Description:** The 'Drop and Insert' mode allows DS0 channels to be "dropped" to any one of the circuits in the 360-80 or "inserted" into a secondary T1 toward a remote location.

In addition data/voice from cards in the 360-80 can be 're-inserted' into any vacant timeslots to the remote location. This allows better utilization of the T1 timeslots by keeping them as full as possible between locations.

The " Drop & Insert" and "Reinsert" capabilities require a 360-80 system to be equipped with both a primary T1 Controller card and a Secondary T1 Controller card.

If a fault occurs in the 360-80 system, the T1 into the primary T1 controller is connected to the T1 into the secondary T1 Controller, bypassing the 360-80 system.

Another configuration that can utilize the drop and insert capability allows the system to handle more than 2 types of circuits at a location. In this configuration each bank has different card types to allow more interfaces to be serviced at the location. This allows flexibility when customer requirements change.

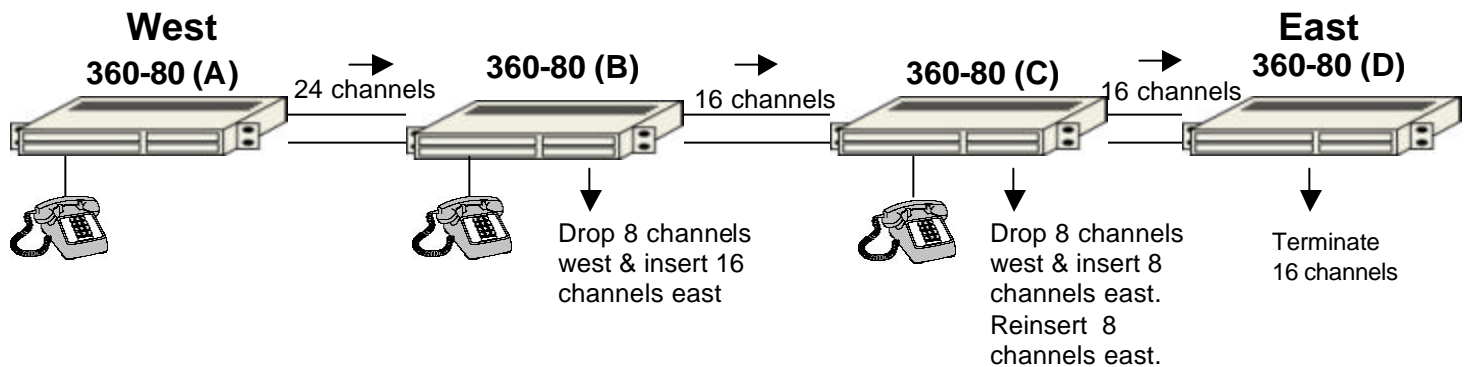


Figure 1:

### Benefits:

- Improves T1 bandwidth utilization
- Reduces T1 transmission equipment needs and maintenance costs
- Reduced footprint
- Cost effective solution
- Simple to install and operate

**Further Information:**

Further information on Charles Industries products may be found at:

<http://www.charlesindustries.com>