



## TSU DSX Considerations

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### DSX Plug-In Module

- A DSX Plug-In card does Voice and Data in TSU 100/120 and slot 6 of TSU 600.
- A DSX Plug-In card will **NOT** function in slots 1-5 in TSU 600. It must be installed in slot 6.

### DSX Plug-On Module

The following table is a guide that reflects the capabilities of the DSX Plug-on Module (with respect to RBS Voice or Data/D-Channel Voice) when assembled on top of the cards outlined below. D-Channel Voice is sometimes referred to as "common channel or D-Channel signaling". D-Channel voice is the same as a Data application.

- When a DSX Plug-On is installed on a Drop & Insert card, the DSX Plug-On can **ONLY** do RBS Voice on the channels that are mapped **FROM** the Drop and Insert card **TO** the DSX card.
- When a DSX Plug-On is installed on a DSX Plug-In, the DSX Plug-On **CANNOT** do RBS Voice. It can only do Data/D-Channel Voice.
- When a DSX Plug-On is on any other option module, the DSX Plug-On **CAN** do RBS Voice applications. If used in a TSU 600 it must be installed in slot 6.

UNIT	SLOT	DSX on Drop and Insert	DSX on DSX	DSX on ALL others
TSU100 (e)	1	V*/D	D	V/D
TSU120 (e)	1	V*/D	D	V/D
TSU600 (e)	6	V*/D	D	V/D
TSU600 (e)	1-5	N/A	N/A	D

**V\*** - RBS Voice is **only** available on channels that are mapped **from** the Drop and Insert card **to** the DSX Plug-On.  
**D** = Data or D-Channel Voice (Common Channel/PRI)  
**V** = RBS Voice (Robbed Bit Signaling)

### Timing Notes:

- Timing **CANNOT** be sourced from a DSX Plug-On module when installed onto a Drop and Insert, a DXC, or a DSX Plug-In module

-Timing **CAN** be sourced from a DSX Plug-On when installed onto any other Plug-In cards. If installed in the TSU 600, the DSX Plug-On must be installed on a Plug-In module in slot 6 of the chassis.

- TSU 100 units ending with an L1 in the part number running Rev M or higher and TSU 600 units ending with an L1 in the part number running Rev. G or greater, allow for the ROB BIT option to be enabled or disabled via the Port Config menu option on the DSX Plug-On. On prior revisions the ROB BIT option defaults to ENABLED and can not be disabled.

#### **Revision requirements:**

- A DSX Plug-On can only be plugged onto Drop and Insert module with Top Assy. Rev H or greater.

- If a DSX Plug-On is plugged onto a DSX Plug-In (passthru) module, the TSU 100 L1 must have software Rev. K or greater; a TSU 600 L1 must have software Rev. E or greater.

- There are no revision restrictions with TSU 100 L3, TSU/TDU 120, 600 L2, "e" series, or currently shipping TSU units.

### **Built in Base DSX Port on TSU 120**

The built in DSX port on a TSU 120 is capable of passing RBS to the Network port when it is enabled in the Port Configuration menu.

For more information on how RBS works in the TSU 120 please reference kb article # 2250.

Both the 2nd Generation TSU 120 and the TSU 120e **CAN** pass RBS between the Drop and Insert module and the Base DSX interface, but the 1st Generation TSU 120 **CANNOT**.

NOTE: The 1st Generation TDU works like the 1st Generation TSU 120 and the TDU 120e works like the TSU 120e.