Saddleback Valley Unified School District (SVUSD) wanted to integrate voice, data and videoconferencing traffic over their T1s. ADTRAN designed a system to integrate and combine multiple applications for the district office and all 36 remote schools, which resulted in a more efficient network along with significantly lower costs.

**THE ADTRAN ATLAS PROVIDES SADDLEBACK VALLEY A CONVERGED SOLUTION**

**Voice:**
Any of the 36 remote schools can call the district office or any other remote school using private T1 lines, accessing a dial tone through its PBX. The call is carried over the T1, switched through the ATLAS at the district office, and rings at the destination extension. There are no usage charges. Eight simultaneous phone calls are supported at each elementary school and 12-16 simultaneous phone calls at the intermediate and high schools.

**Data:**
All remote schools can send data to any other school through their LAN router connection to the TSU 600e. The network manager can communicate via Telnet with this unit for easy local or remote management and configuration of any unit on the WAN.

**Video:**
Remote schools are capable of point-to-point and multi-point videoconferencing sessions over the T1s. Several schools can dial out over PRI through the district office to conduct any outside videoconferencing session using the Public Switched Telephone Network (PSTN) PRI/video service.
About the ATLAS Series:

The ATLAS Series of integrated access devices offers the highest capacity and most advanced set of networking services. From a single platform, the ATLAS can support multiple technologies including T1, T3, ISDN, IP Routing and Frame Relay.

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THE SADDLEBACK VALLEY UNIFIED SCHOOL DISTRICT NETWORK DESIGN:

This network combines voice, data and video for the district office and 36 remote schools. The ATLAS fractional PRI feature helps the school system best use all the T1 channels depending on current traffic requirements. This feature is unique to the ATLAS. It includes a portion of the bandwidth for switched services (B-Channels) and the remaining bandwidth for dedicated T1 channels. This feature lets voice and videoconferencing access and share the switched channels and assigns the dedicated set of channels for data.

District Office: Four ADTRAN ATLAS Series products at the district office supporting voice, data and video needs for the district office and the 36 remote schools.

28 Elementary Schools: An ADTRAN TSU 600e, a six slot T1 DSU/CSU was used. Ten DSOs were set aside for data and eight for voice, along with a T1/PRI for videoconferencing equipment.

8 Intermediate and High Schools: Each school was allotted two T1s circuits – one dedicated to data using the ADTRAN TSU 100 and the other to voice and video using the TSU 600e.

For more information on how ADTRAN solutions can help reduce telecommunications costs, or to speak to an ADTRAN pre-sales application engineer, please call (800) 615-1176 today.