



# Midwestern Telecom Company Selects Tejas for SONET Network Modernization Project

## A Network Modernization Case Study

### Customer Overview:

A Tier 3 service provider in the Midwest United States delivers ICT services including (Voice, video, internet and optical transport) to residential and businesses customers across two neighboring cities.

### Challenge/Issue:

One of the key services offered is DS1 business connectivity, which is aggregated into DS3 and OC-3/12/48 SONET interfaces and handed off to a regional service provider. The legacy platform currently used to deliver this service; including Cisco 14454, Coriant SN-9000 and Alcatel 1630-Sx that have been discontinued for several years.

As a result, new and spare line cards are hard to find and increasingly expensive. The service provider frequently relies on the gray market or other sources to maintain operations. In addition, vendor support contracts are often unavailable or prohibitively costly, and finding qualified personal to support this end-of-life SONET equipment has become increasingly difficult and expensive.

### Customer

*US telecom operators maintaining legacy SONET and TDM (DS1/DS3) networks as part of their access and aggregation infrastructure.*

### Challenge

*Service providers delivering legacy TDM (DS1/DS3/SONET) services are struggling to remain profitable as existing SONET equipment reaches end of life, driving higher maintenance costs and operational complexity.*

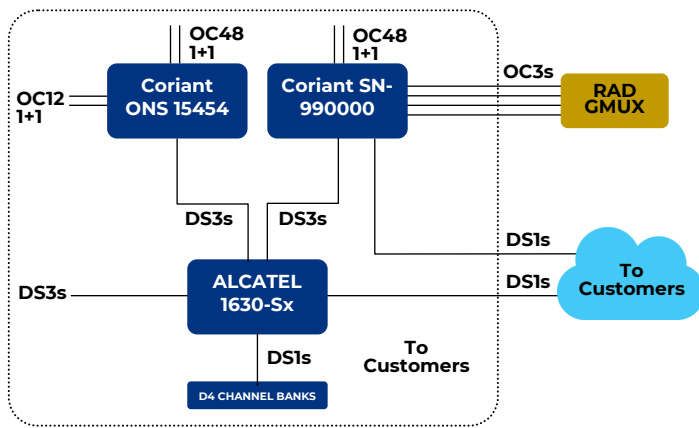
### Solution

*Tejas TJ-1400 Network Modernization Solution*

### Results

*Service providers nationwide are able to continue to provide legacy TDM service in a cost effective manner.*





### Use Case Introduction:

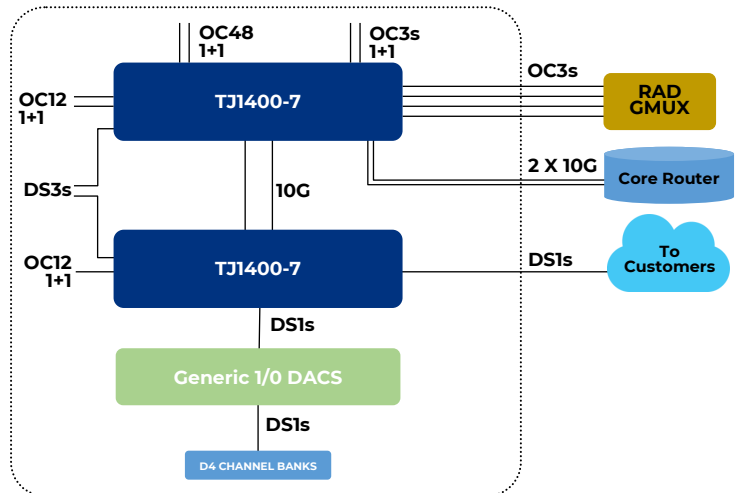
The local service provider evaluated a wide range of potential vendors to identify an alternative solution for DS1 services. During this evaluation, Tejas was identified as one of the very few vendors offering a viable and future ready solution for SONET-based DS1 aggregation services.

Based on this evaluation, the Service provider has selected Tejas to replace its three existing, deprecated DS1 SONET aggregation systems.

### The Tejas Solution:

Tejas proposed the TJ1400-7, a 2RU, seven-slot Converged Access Chassis, equipped with an integrated CEM/switch fabric and a comprehensive set of DS1, DS3 and OC-3/12/48 SONET line cards. This flexible and scalable platform is well suited for a wide range of TDM Network Modernization projects, enabling seamless replacement of legacy SONET aggregation systems.

Additionally, the solution includes the TJ5500 Network management system, which can be deployed either on-premises or hosted on Google Cloud Platform (GCP) offering operational flexibility and centralized network visibility.



### The Solution: Tejas TJ1400 CEM Solution

The Tejas TJ1400 CEM solution delivers several unique and measurable benefits.

- Enables continued delivery of DS1, DS3, and SONET services to existing customers without service disruption. Eliminates end of life (EOL) equipment, significantly reducing hardware maintenance and support costs
- Reduces power and space requirements by up to 90%, lowering ongoing operational expenses

### The Results

With the deployment of the Tejas TJ1400 Network Modernization solution, the service provider is able to continue delivering legacy TDM services cost-effectively on a modern, fully supported platform, while reducing space and power consumption by 90%.