

The Customer

A growing Charter School organization had one location acting as their primary data center with other school locations accessing all of their applications remotely. They used point-to-point T1s to connect the remote school sites to the Data Center and ran multiple Avaya PBXs at each location.

The Issue

The point-to-point T1 architecture was not providing enough bandwidth for the Citrix servers that were being used by students and faculty. Secondly, the current carrier was unable to provide business continuity in the event of T1 failure. Since the IT Department was constantly receiving complaints about applications running slowly and needed more reliability, they had to find a better solution.

The Concerns

There were many motivating factors that drove the decision to switch from point-to-point T1s to SD-WAN Next. But at the end of the day it boiled down to three simple things:

1. Increase bandwidth
2. Implement redundancy/disaster recovery
3. Save money

The Demands

The new solution had to:

- be private and secure to meet the strict security compliance enforced on schools.
- be easy to manage because the schools IT Department was stretched thin.
- increase the bandwidth from the Data Center to the schools.
- have true redundancy in order to achieve 100% uptime.
- provide Quality of Service/Class of Service for their VoIP phone system.
- not exceed 120% of what was currently spent on their telecommunications.
- be 100% up and running in less than 45 days to accommodate move of their primary data center.

The Solution

The growing Charter School organization overhauled their IT infrastructure implementing 50Mbps broadband connections as the primary data connection with wireless connections as their failover route. **With proper battery backup this new network architecture virtually ensures 100% uptime.** Additionally they implemented a new IP Phone System to centralize communications and deploy a full cloud-based Unified Communications infrastructure. **By utilizing SD-WAN Next, each of these routes can be automatically assigned and rerouted when connectivity issues arise.** This ensures that they have the highest quality Wide Area Network routes available for their data-sensitive applications, including their newly deployed VoIP phones.

