

Tellabs® Traffic Management Services — Voice Quality Enhancement Equipment Replacement

Customer Challenge

A major telecommunications service provider needed to add equipment in order to support planned growth of the network. However, there was no floor space available for expansion. The customer faced several choices: find a way to clear floor space, expand the existing office or find new office space.

Tellabs Solution: Network Modernization Program

Tellabs engineers evaluated the office layout and discovered that the office contained a Tellabs® 5500 Digital Cross-connect System (DCS), along with six bays of Tellabs® 3300 Voice Quality Enhancement (VQE) equipment. The office layout included the lineup shown in Figure 1.

This lineup supported the equivalent of 16 OC-3 circuits with voice conditioning and required 192 coaxial cable tandem ties to the Tellabs 5500. It was determined that less than one full bay of the new, high-density Tellabs® Integrated Voice Quality Enhancement (iVQE) hardware for the Tellabs 5500 system could replace the existing voice conditioning equipment.

The Tellabs Network Modernization Program (NMP) is designed specifically for situations like this one. Tellabs engineers utilize proprietary tools, along with specialized functions of the Tellabs 5500 system, to transfer the live traffic to the Tellabs iVQE equipment that is integrated into the Tellabs 5500 DCS.

The resulting bay lineup appeared as shown in Figure 2.

The migration of traffic to the Tellabs iVQE not only allowed the service provider to reclaim a significant amount of floor space, but also reduced expenses required for power and simplified provisioning and maintenance procedures.

Every NMP project is custom engineered to accommodate the specific needs of different service providers and office environments. These customized plans ensure that the risks associated with live traffic-migration are mitigated. In addition, Tellabs offers a range of procedures that balance carriers' needs to maintain traffic, control costs or complete cutover projects quickly.

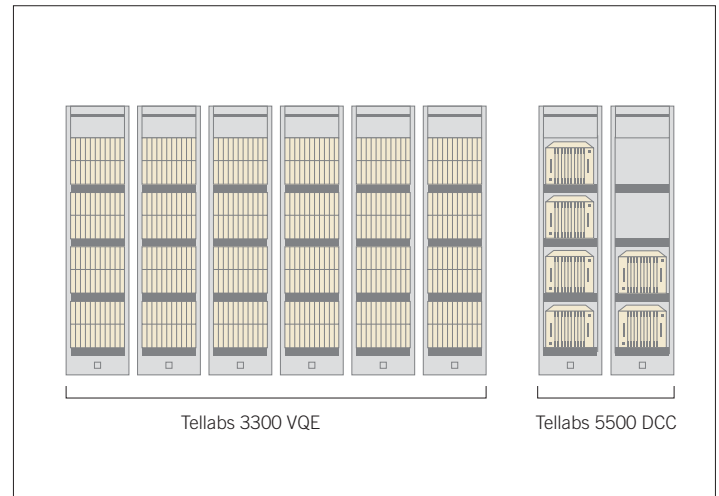


Figure 1. Original bay lineup

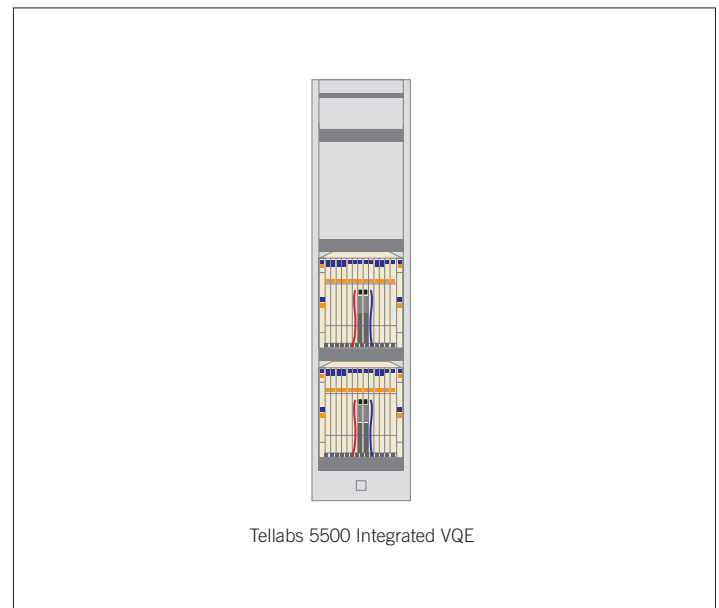


Figure 2. New bay lineup

Customer Benefits

As a result of transferring traffic to the Tellabs iQVE through the NMP, the service provider was able to increase their return on investment. The service provider:

- Migrated existing traffic with no unplanned traffic disruptions
- Completed the project on time and within budget
- Reclaimed seven full bay spaces to support network expansion
- Reduced power requirements for voice quality conditioning by nearly 93% (1,118 watts for the new lineup vs. 15,530 watts for the old lineup)
- Simplified daily provisioning and maintenance activities
- Heat dissipation reduced more than 85%
- Significantly reduced drain of backup power generation and battery plant

Upon completion of this project, the service provider was able to continue to support network growth requirements and reduce overall office expenses.

Tellabs® Global Services

Tellabs Global Services delivers quantifiable results that help you succeed. Our deep expertise and specialized services are designed to help reduce costs, optimize performance, minimize risk and speed time-to-market. We solve the complex business, technical and operational challenges you face in deploying advanced networks — anywhere in the world. Tellabs Global Services' reputation for providing a better customer experience is the result of an open and honest approach, the ability to provide an objective viewpoint and dedication to customer satisfaction.

About Tellabs

Tellabs helps customers succeed through innovation. That is why many of the top global telecom service providers choose our mobile, optical and business solutions. We help telecom service providers, independent operating companies, MSO/cable TV companies, enterprises and government agencies get ahead by adding revenue, reducing expenses and optimizing networks. With wireless and wireline networks in more than 90 countries, we enrich people's lives by innovating the way the world connects™. Tellabs (Nasdaq: TLAB) is part of the NASDAQ Global Select Market, Ocean Tomo 300™ Patent Index, the S&P 500 and several corporate responsibility indexes including FTSE4Good and eight KLD indexes. www.tellabs.com

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