

Tellabs® 5500 Digital Cross-Connect System Facility Replacement Program

Increase Capacity Without Increasing Floor Space

Customer Challenge

With the rapid increase in demand for wireless communication services, many wireless service providers increased capacity with little time for careful floor space planning within their Mobile Switching Offices (MSOs). As a result, a service provider encountered difficulties when they needed to expand capacity on their Tellabs® 5500 Digital Cross-Connect System (DCS) because they had no space to accommodate the additional equipment required to add new port modules. For this service provider, office expansion was not practical.

Tellabs Solution: The Tellabs® 5500 DCS Facility Replacement Program

The Tellabs 5500 DCS Facility Replacement Program assists carriers in their efforts to expand system and office capacity while eliminating the need to expand office space or consume valuable floor space. This program provides the services required to transfer existing traffic from older, standard-density port modules to new, high-density port modules with minimal or no traffic disruption.

As part of the Tellabs 5500 DCS Facility Replacement Program, Tellabs engineers:

- Performed a complete system audit
- Created a detailed Method of Procedure
- Prepared the system for cutover
- Executed the activities required to complete traffic cutover to the new modules
- Removed the redundant, standard-density hardware

All of those activities were coordinated in the above order so that the customer was able to smoothly expand the Tellabs 5500 DCS capacity and migrate traffic to the new, high-density port modules with no traffic disruptions and no equipment alarms.

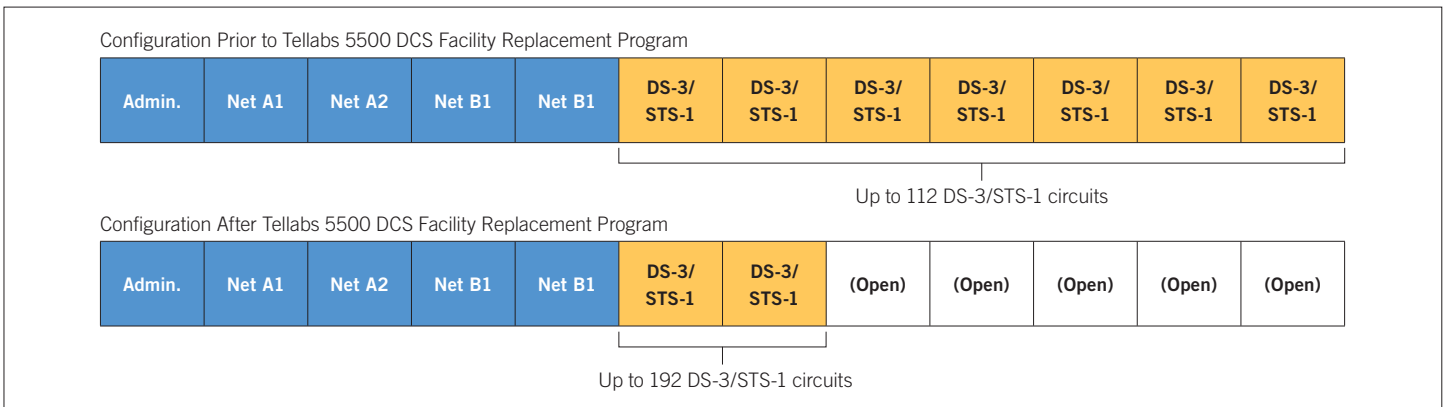


Figure 1. The Tellabs 5500 DCS Facility Replacement Program helps clear floor space for expansion and growth.

Customer Benefits

By utilizing Tellabs Facility Replacement Program, the customer was able to:

- Reduce seven bays of DS-3 modules to fewer than two bays, leaving an additional five bays for further expansion or new equipment
- Expand the Tellabs 5500 system to support new, revenue-generating traffic requirements
- Continue to support normal daily activities while the system conversion and upgrades were implemented by Tellabs engineers
- Reduce the power required to support the existing traffic by 50% to 60%

The new Tellabs high-density port modules give customers the ability to recover significant amounts of floor space. The savings vary depending upon the interface type, as shown in Figure 2.

In addition to the benefits of the new high-density hardware, this service provider benefited from the Tellabs Facility Replacement Program service. These benefits included no unplanned traffic disruptions and a project that was completed quickly and within budget as a result of using Tellabs expert resources, proprietary tools and proven methodology.

Upon completion of this project, the service provider was able to increase capacity to support new, revenue-generating traffic while avoiding the time and expense required to acquire additional floor space.

Interface Type	Interfaces per Bay	
	Standard Density	High Density
DS-3/STS-1	64	288
OC-3	16	96
OC-12	4	24

Figure 2. Tellabs high-density interfaces reduce the number of bays required to support large amounts of traffic.

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North America

Tellabs
One Tellabs Center
1415 West Diehl Road
Naperville, IL 60563
U.S.A.
+1 630 798 8800
Fax: +1 630 798 2000

Asia Pacific

Tellabs
3 Anson Road
#14-01 Springleaf Tower
Singapore 079909
Republic of Singapore
+65 6215 6411
Fax: +65 6215 6422

Europe, Middle East & Africa

Tellabs
Abbey Place
24-28 Easton Street
High Wycombe, Bucks
HP11 1NT
United Kingdom
+44 870 238 4700
Fax: +44 870 238 4851

Latin America & Caribbean

Tellabs
1401 N.W. 136th Avenue
Suite 202
Sunrise, FL 33323
U.S.A.
+1 954 839 2800
Fax: +1 954 839 2828

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