

DSC DEX

Central Management System

automatically disconnects a circuit that has failed and connects a new circuit that has been previously defined to replace the failed circuit. Up to five alternate circuits can be specified in order of priority to cover various contingencies. Because the alternate routes are chosen by circuit name, the alternate circuits may have different endpoints than the normal route. This feature can be an effective tool to provide alternate routing to a back-up data center in the event that communications to the normal data center are lost.

With Dynamic Alternate Routing, DSC DEX CMS automatically disconnects a point-to-point circuit that has failed and reconnects the original endpoints using Auto Route Feature and replaces the failed circuit. The Auto Route can be configured to utilize the network bandwidth permanently assigned to that customer, or it can use usage-sensitive bandwidth if no permanently assigned bandwidth is available.

Bandwidth Management

DSC DEX CMS includes powerful tools for managing the available bandwidth in the network. Bandwidth is assigned to one of three pool types. The permanent pool bandwidth is assigned to a specific end-user's network. The temporary pool bandwidth is used for bandwidth-on-demand services. This bandwidth can be reserved and used by customers who are billed for its usage. The spare pool bandwidth is capacity that has been installed but not yet assigned to either a permanent pool or the temporary pool. DSC DEX CMS provides management reports for maintaining adequate capacity in each of the pools to meet projected bandwidth requirements.

Schedules and Reservations

The Schedules and Reservations feature permits circuit connections and disconnections to be scheduled in advance, either on a one-time basis or a recurring basis. Reservations are used to reserve bandwidth, on a one-time or recurring basis, from the temporary pool.

Performance Management

With the DSC DEX CMS, the network operator can retrieve, display and clear performance-monitoring data from the cross-connect network. This information can be formatted into a report that allows tracking over time. Performance thresholds can also be set remotely through CMS.

Accounting Management

DSC DEX CMS automatically records transactions such as the connection or disconnection of circuits and the usage of bandwidth from the temporary pool. The billing even records that are generated can then be used by a billing processor to generate bills for network usage.

Security Management

In the comprehensive security management system, the system administrator can define for each user the commands that the user is authorized to perform. For each command, a user can be allowed to view, change, add or delete information or any combination of these functions.

User Interface

Each user is presented with a menu-driven terminal interface on a VT100* or VT220* (or compatible) terminal. One portion of the screen forms a scrolling window in which any alarms and responses from the managed network elements are presented to the user. In another portion of the screen, the user can select from various menus to choose an operation. The presentation includes forms for the user to fill out to perform the requested operation.

Network Compatibility

DSC DEX CMS utilizes an X.25 interface to communicate with the digital cross-connects that it manages. The inherent error recovery and automatic routing of the X.25 standard provide efficient and reliable links to each of the managed network elements. However, in the event of a failure of an X.25 link, DSC DEX CMS can automatically transfer control to a predefined alternated link.

Computer Platform

DSC DEX CMS operates on a wide range of Sun Microsystems SPARC® and Digital Equipment Corporation VAX® processors. The model of the platform can be sized to meet the initial requirements and yet can be grown incrementally as needs increase.

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*Specifications subject to change without notice

Telmar Network Technology holds ISO 9001 and TL 9000 certifications.

We are also members of the QuEST Forum, an organization formed and dedicated to fostering quality and reliability in the telecommunications industry.

