• Implementation of data link switching (DLSw) which carries LAN traffic over the wide area network
• DLSw was first developed by IBM to provide SNA support within multi-protocol routers
• Newer IP-based devices can be installed while the SNA device continues to operate and share the same network

Data link switching (DLSw) enables successful encapsulation of systems network architecture (SNA) traffic over internet protocol (IP) backbone networks. DLSw provides switching at the data link layer (layer 2) and encapsulates SNA into TCP packets for transportation through the wide area network (WAN). DLSw also helps organizations reduce costs, as there is no need for application changes or new client devices. Furthermore, the technology doesn’t hinder the way end users interact with existing applications.
ACI COMMUNICATION SERVICES™ FOR ADVANCED NETWORKING — DLSw ELIMINATES THE NEED FOR SNA TO REMAIN ON DATA CENTER CONFIGURATIONS.

Although DLSw offers several benefits, it often requires encapsulation software on data center routers, as well as routers on client devices. Organizations must also connect several remote routers to the limited routers inside their data center. This method ultimately makes fault tolerance, scalability, visibility and flexibility difficult to achieve. Organizations need a solution that moves DLSw off their routers and onto their HP NonStop server.

THE ACI COMMUNICATION SERVICES™ FOR ADVANCED NETWORKING — DLSw SOLUTION
ACI Communication Services™ for Advanced Networking — DLSw connects HP NonStop servers to backbone networks. The solution performs encapsulation functions previously executed on data center routers. With Communication Services for Advanced Networking — DLSw, any IP router can be inter-connected, and any HP NonStop LAN controller can be used. In addition, the solution does not restrict users to communications controllers supported by legacy SNA protocols and drivers.

Communication Services for Advanced Networking — DLSw eliminates the need for SNA to remain on data center configurations. IP client devices (e.g., browsers, internet thin clients, ATMs, etc.) as well as old SNA terminals have transparent network accessibility to the same host server application. With Communication Services for Advanced Networking — DLSw, a new IP client device can be installed while the SNA device continues to operate and share the same network. Furthermore, no application changes or reconfigurations are required.

FEATURES AT A GLANCE

• ELIMINATES THE NEED FOR SNA TO REMAIN IN THE CORE OF THE DATA CENTER
• IMPROVES OVERALL NETWORK AVAILABILITY AND EXTENDS FAULT TOLERANCE TO DATA CENTER ROUTERS
• SUPPORTS ANY REMOTE ROUTER THAT SUPPORTS CLIENT DEVICES VIA DLSw
• ENSURES THAT ALL EXISTING TRANSACTION APPLICATIONS IN AN SNA ENVIRONMENT ARE FULLY PROTECTED AND REMAIN OPERATIONAL
• PROVIDES A COMPREHENSIVE AND INTUITIVE NETWORK OPERATOR FACILITY

IMPROVE NETWORK AVAILABILITY
Communication Services for Advanced Networking — DLSw improves overall network availability. The solution extends fault tolerance to data center routers. If a data center router failure occurs, the solution will re-direct TCP/IP traffic to a different data center router without disrupting active sessions. This configuration flexibility allows organizations to achieve fault tolerance for data center routers in numerous ways.
INCREASE ROUTER COMPATIBILITY
DLSw is an accepted standard supported by several router vendors, such as Cisco Systems and Nortel Networks. Communication Services for Advanced Networking — DLSw supports these routers along with any other router that offers DLSw support. The solution also supports any remote router that supports client devices via DLSw.

PROTECT TECHNOLOGY INVESTMENTS
Communication Services for Advanced Networking — DLSw ensures that all existing transaction applications in an SNA environment are fully protected and remain operational. Even as the physical elements in a network change, the solution ensures that investments in SNA devices are not lost. Furthermore, with Communication Services for Advanced Networking — DLSw, there is no need to change SNA device communications hardware.

LEVERAGE HP NONSTOP ENHANCEMENTS
With Communication Services for Advanced Networking — DLSw, users can take full advantage of new TCP/IP implementations on the HP NonStop (in support of both library/IP and single/IP). The solution supports TCP/IP accessibility through operating system calls and high speed LAN controllers.

THE ACI ADVANTAGE
Communication Services for Advanced Networking — DLSw acts as a stand-alone process and communicates via the HP NonStop file system and inter-process messaging capability. As a result, one Communication Services for Advanced Networking process can interact with one or many DLSw processes. With this flexibility, users can configure the solution in a way that is best suited for their HP NonStop server.
ACI Worldwide, the Universal Payments company, powers electronic payments and banking for more than 5,000 financial institutions, retailers, billers and processors around the world. ACI software processes $13 trillion in payments and securities transactions for more than 250 of the leading global retailers, and 21 of the world’s 25 largest banks. Universal Payments — — is ACI’s strategy to deliver the industry’s broadest, most unified end-to-end enterprise payment solutions. Through our comprehensive suite of software products and hosted services, we deliver solutions for payments processing; card and merchant management; online banking; mobile, branch and voice banking; fraud detection; trade finance; and electronic bill presentment and payment. To learn more about ACI, please visit www.aciworldwide.com. You can also find us on Twitter @ACI_Worldwide.