

# Enterprise Data Center Networking Implementation Plan



## Overview

This bulletin provides a suggested outline of an implementation plan for enterprise data center networking solutions with respect to IBM mainframes. This plan can be customized as necessary for the solutions and migration path that works best for your network. As a starting point, it includes:

- Installing SNA Switching Services (SNASw) with Dependent Logical Unit Requester/Dependent Logical Unit Server (DLUR/DLUS) and enabling it for TN3270 Server
- Migrating Data-Link Switching Plus (DLSw+) in the WAN to SNASw
- Replacing DLSw+ and extending SNASw all the way to the remote branch
- Converting SNA applications to IP

Note: SNASw can be enabled for customers who use Cisco TN3270 Server remote from the data center and those who want a single-protocol, IP path to the mainframe logical partitions (LPARs).

## Implementation Plan

The introduction of SNASw capabilities to an existing network design could follow a plan as outlined in Table 1. The advantage of a plan is to introduce specific network benefits according to a schedule, allowing for proper resource allocation, planning, change control, and configuration and installation. The end result is a simplified data center design, an all-IP consolidated network, and continued support for SNA applications as necessary.

Table 1 Implementation Plan Outline

Phase	Step	Description
Phase 1		Enable SNASw for TN3270 Server
	1	Perform capacity planning
	2	Plan backup strategy
	3	Install and configure SNASw upstream links and DLUR/DLUS
Phase 2		Enable SNASw for DLSw+ WAN
	1	Perform capacity planning
	2	Plan backup strategy
	3	Install and configure SNASw upstream links and DLUR/DLUS
	4	Migrate current DLSw+ peer connections to SNASw

Table 1 Implementation Plan Outline (Continued)

Phase	Step	Description
Phase 3		Replace DLSw+ with SNASw at the Remote Branch
	1	Perform capacity planning
	2	Ensure remote router resources are adequate; if not, perform necessary upgrades
	3	Install and configure SNASw upstream links and DLUR/DLUS
	4	Remove DLSw+ configuration from remote routers
Phase 4	5	Eliminate DLSw+ from data center peer routers when all changes to remote routers are complete
		Convert SNA-based applications to IP
	1	Perform study of all SNA-based applications in use
	2	Determine strategy and plan for each application
	3	Make decision on future development and strategy
	4	Perform planning for conversion
	5	Implement plans
	6	When complete, remove all SNA protocol support



Corporate Headquarters  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

European Headquarters  
Cisco Systems Europe  
11, Rue Camille Desmoulins  
92782 Issy-les-Moulineaux  
Cedex 9  
France  
www-europe.cisco.com  
Tel: 33 1 58 04 60 00  
Fax: 33 1 58 04 61 00

Americas Headquarters  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-7660  
Fax: 408 527-0883

Asia Pacific Headquarters  
Cisco Systems Australia, Pty., Ltd  
Level 9, 80 Pacific Highway  
P.O. Box 469  
North Sydney  
NSW 2060 Australia  
www.cisco.com  
Tel: +61 2 8448 7100  
Fax: +61 2 9957 4350

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the

**Cisco Web site at [www.cisco.com/go/offices](http://www.cisco.com/go/offices)**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia  
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia  
Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru  
Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa  
Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2001, Cisco Systems, Inc. All rights reserved. Printed in the USA. Cisco, Cisco Systems, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0108R) SPS 10/2001