Configuring Multiple DSPU to Upstream FEP

Document ID: 17573

Introduction
Prerequisites
Requirements
Components Used
Conventions
Design Notes
Configure
Network Diagram
Configurations
Verify
Troubleshoot
Related Information

Introduction

This document provides a sample configuration for multiple downstream physical units (DSPUs) that are connected to an upstream front−end processor (FEP).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on Communications Manager/2 (CommMgr/2) that is running on OS/2.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions .

Design Notes

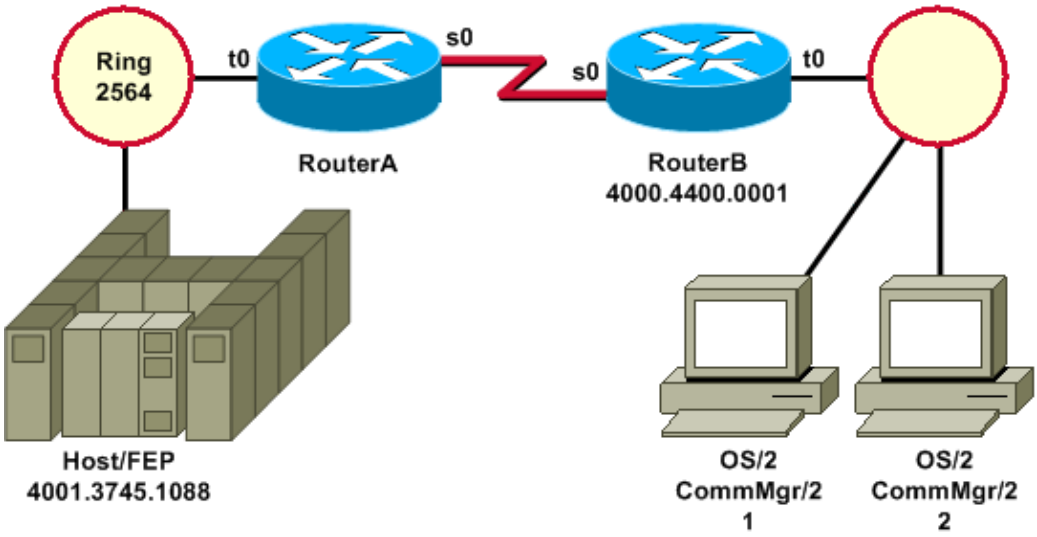
- These configurations use Remote Source−Route Bridging (RSRB). DSPU can be used over Data Link Switching Plus (DLSw+) (recommended) using Virtual Data−Link Control (VDLC).
- DSPU is configured to use dedicated Logical Unit (LU) resources and allow connections from devices with listed Exchange Identifications (XIDs).
- A Multiple DSPU to Upstream FEP Sniffer Trace was taken between CommMgr/2 and RouterB.

Configure

In this section, you are presented with the information to configure the features described in this document.

Network Diagram

This document uses this network setup:



Configurations

This document uses these configurations:

- RouterA
- RouterB
- CommMgr/2 1
- CommMgr/2 2
- VTAM Switched Major Node

RouterA

`hostname RouterA`
 	
`source-bridge ring-group 2989`
`source-bridge remote-peer 2989 tcp 198.92.0.235`
`source-bridge remote-peer 2989 tcp 192.190.226.148`
 	
`interface Serial0`
`ip address 193.100.1.1 255.255.255.0`
 	
`interface TokenRing0`
`ip address 198.92.0.235 255.255.255.0`
`ring-speed 16`
`source-bridge 2564 1 2989`
`source-bridge spanning`

RouterB

`hostname RouterB`
 	
`source-bridge ring-group 2989`

```
source-bridge remote-peer 2989 tcp 192.190.226.148
source-bridge remote-peer 2989 tcp 198.92.0.235

dspu rsrb 77 1 2989 4000.ffff.0001
dspu rsrb enable-host lsap 4
dspu host HOST3745 xid-snd 05d05197 rmac 4001.3745.1088 lsap 4 rsap 4
dspu rsrb start HOST3745
dspu pu SRVTOK2 xid-rcv 05daa005 lsap 4 rsap 4
dspu lu 2 4 host HOST3745 5
dspu pu SRVTOK xid-rcv 05d10001 lsap 4 rsap 4
dspu lu 2 4 host HOST3745 8

interface Serial0
ip address 193.100.1.2 255.255.255.0

interface TokenRing0
 mac-address 4000.4400.0001
 ip address 192.190.226.148 255.255.255.0
 no ip route-cache
 ring-speed 16
 dspu enable-pu lsap 4
```

CommMgr/2 1

Configure CommMgr/2 on the first PC in this manner:

1. Click the **CM Setup** icon.
2. Click the **Setup** button.
3. Specify the configuration name and click **OK**.
4. To specify the configuration type, click **Configure** and complete these fields with these values:

    - Netid: NETA
    - Local Node Name: DSPUA
    - Local Node ID: 05DAA005
    - LAN Destination: 4000.4400.0001

CommMgr/2 2

Configure CommMgr/2 on the second PC in this manner:

1. Click the **CM Setup** icon.
2. Click the **Setup** button.
3. Specify the configuration name and click **OK**.
4. To specify the configuration type, click **Configure** and complete these fields with these values:

    - Netid: NETA
    - Local Node Name: DSPUA
    - Local Node ID: 05D10001
    - LAN Destination: 4000.4400.0001

VTAM Switched Major Node

```
SWCERT5A VBUILD TYPE=SWNET,MAXGRP=4,MAXNO=4
*
DSPUA    PU     ADDR=01,
                PUTYPE=2,
                IDBLK=05D,
```

```
                IDNUM=05197,
                MODETAB=ALAMODE,
                DLOGMOD=SX32702S,
                DISCNT=(NO),
                USSTAB=USSSNA,
                ISTATUS=ACTIVE,
                MAXDATA=521,
                IRETRY=YES,
                MAXOUT=7,
                PASSLIM=5,
                MAXPATH=4
*
DSPAL00 LU      LOCADDR=02
DSPAL01 LU      LOCADDR=03
DSPAL02 LU      LOCADDR=04
  .
  .
  .
DSPAL20 LU      LOCADDR=22
```

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- **Technology Support**
- **Product Support**
- **Technical Support & Documentation − Cisco Systems**

Updated: Sep 09, 2005 Document ID: 17573