ABS Tech Note: SNA•ps17 Dowstream Configuration (2/93)

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TOPIC ----------

A method for connecting SNA•ps to a host system "downstream" of an OS/2 gateway is presented.

DISCUSSION ----------

Introduction

OS/2 Extended Edition v1.2 and later has an SNA gateway feature that allows PC's to connect to a host through an OS/2 gateway machine. The host is only aware of the gateway machine, which appears to be a single PU2 with (potentially) many LU's. To the client (workstation) PC's, the gateway machine appears to be a host connection (PU4)

It is a simple procedure to configure a SNA•ps gateway to connect "downstream" of an OS/2 gateway.

For the purposes of this technical note we will limit discussion to the scenario with token ring for both links: host (3720 front end processor) to OS/2 gateway and OS/2 gateway to SNA•ps gateway.

Procedures - OS/2

To configure the OS/2 gateway machine:

- Re-install Communications Manager with an already created configuration file that uses SNA Gateway so that CM has the necessary pieces.

- In the CM configuration file, under SNA Features, choose SNA gateway profiles.

  There are two parts:

  - Host Connection: enter token ring address of the front end processor (3720 or 3174) with gateway feature.

  - Workstation LU: make an entry for each LU to be redistributed to downstream workstations. Enter the local address (LU ID) as it is known at the host and as it is known at the workstation (they need not be the same). Also enter the token ring address of the workstation (in this case, the Mac acting as a SNA•ps gateway). This method pre-allocates LU's to a particular workstation; it is also possible to create pools.

- The OS/2 machine ignores some of the negotiations in the XID and may send I-frame packets larger than those configured for SNA•ps . In the case where SNA•ps I-frame size is limited to 265 (for example low memory situation on the TR card), lower the RU size from 1920 to 256 under SNA Profiles/DLC profile/Token Ring in the CM configuration.

Procedures - SNA•ps

On the SNA•ps gateway, enter the following information in the configuration:

- Create a token ring line.

- Create a partner line. Choose Host type connection, enter the token ring address of the OS/2 machine for link address, and enter the Gateway XID as it is known by the host (in the NCP). If the host connection is through a 3174 gateway, this may not be necessary (but the 3174 configuration will need to know the token ring address of the OS/2 machine).

- Create LUs - the LU ID should match one of those configured in the Workstation LU configuration on the OS/2 machine. Warning: OS/2 displays the LU ID in hex, while SNA•ps uses decimal.

- To obtain optimal performance and where memory is available on the SNA•ps TR card, change the Max I-frame in SNA•ps Config's Line dialog to be the value in SNA Profiles/DLC profile/Token Ring in the CM configuration + 9.

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