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MacDFT: How to Tune Token Ring-Host Polling

Article Created: 18 February 1991

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TOPIC -----

I have a network running under the following configuration:

- 4mbps Token Ring
- Various Macintoshes with MacDFT 1.1, configured as DSPUs in NCP gen
- 3174-51R with a Token Ring feature, connected to FEP via a 9600bps leased line

Everything works fine, except that when MacDFT is launched, it takes 3-4 minutes for the connection to come up. My best guess is that the host is probably set to poll very infrequently on an inactive connection. Therefore, when you make the request to attach, you sit around with a COMM 505 until the next poll.

The link status on the 3174 is always 02. It's 01 on the DSPUs until the host finds it, when it changes to 02.

Is there a parameter that can be set in the NCP gen (or in the controller config) to shorten the time it takes to attach to the host?

DISCUSSION -----

There is an NCP Tuning parameter called SERVLIM which might help you in this case. The following is from the IBM's "The Remote 3174 Token-Ring Gateway", section 1.4.2.1, page 15, part number GG24-3366-00:

"Contact" polling (the transmission of a SNRM, SNRME or DISC) is not subject to the data polling cycle. After the number of passes through the Service Order Table specified by SERVLIM, the NCP will perform one contact poll for a PU. On the next contact poll, it will start looking for an outstanding SNRM, SNRME, or DISC for the next entry in the Service Order Table. SERVLIM thus determines the ratio of activation/deactivation processing to normal data transfer. Setting the value high (its maximum is 254) means that relatively few attempts are

made to contact a PU in order to activate it. While this may help performance for active users by reducing the time spent transmitting and waiting for responses to special polls, it has a negative impact on resource activation times. This effect may be more marked in the remote Token-Ring Gateway environment since two polls are required to establish connectivity between the NCP and each DSPU.

In environments where 3270 Emulation is being started and terminated frequently and devices powered on and off, which is often the case with PC users, a high value should not be specified. The long wait for the VTAM 'USS10' message after requesting a host session may be considered unacceptable. During the tests, we (IBM) found that a SERVLIM value of 254 led to resource activation times of some minutes. We (IBM) recommend setting SERVLIM to 4 as a good starting point for your installation.

Note: the questioner reported later that the above suggestion was right on target. The problem went away as soon as they dropped the SERVLIM parameter to a lower number.

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 7031