



PROFESSIONAL SERVICES TECH NOTE #028

Max Multiplex option

The Concept

Some CIFS applications (such as Citrix, Terminal Server, and IIS) require numerous I/O sessions to access network resources. To operate more efficiently, these applications combine multiple I/O sessions into a single TCP connection. This is called multiplexing. When the applications require more I/O sessions than the network resource will provide then new sessions will fail and users may be denied access to files. Data ONTAP controls the number of I/O sessions it will support in a single TCP connection with the `cifs.max_mpx` option.

Examples

To see the current settings and to change them, use the following commands:

```
fas1> options cifs.max_mpx  
fas1> options cifs.max_mpx <value>
```

Note: The value can ONLY be set to 50, 126, 253 or 1124

What It Means To You

Unless users are complaining about not being able to access files, the only time you will see this message is by viewing the system log of your storage controller. You may also see recommendations to increase the value in a System Audit Report or when using the Premium AutoSupport tool on the NOW website. Because increasing the value uses system resources on the client, you will only want to increase the multiplex value to the next higher setting. The new value will take affect the next time the client opens a new TCP connection.

More Information

The following Knowledge Base article contains a wealth of information on max multiplex:

<https://now.netapp.com/Knowledgebase/solutionarea.asp?id=ntapcs4193>

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