

File Replication Service Stops Responding When Staging Area is Full

(Microsoft Corporation)

The File Replication Service (FRS) for Microsoft Windows 2000 uses a "staging area" for replication. The default size of the staging area for FRS is approximately 660 megabytes (MB). If you want to replicate data that exceeds this amount, you may need to configure the FRS staging area to accommodate additional drive space. In addition, the volume that contains the staging area must also have this same amount of additional drive space available.

NOTE: If you have DFS running on a domain controller, the staging area size that you specify is for both SYSVOL and DFS; even if the staging areas are separated, the combined size equals the value in the registry.

When the space consumed by staging files reaches 660 MB, inbound and outbound replication is suspended until free staging space is available. Typically, when the server replicates large amounts of data, staging areas can reach their limit because the FRS moves data to the local staging area at a rate faster than the data can be transferred across the network to the staging area of the other FRS replica partner.

A display of the event that may be registered in the event log is as follows:

Event Type: Warning
Event Source: NtFrs
Event Category: None
Event ID: 13522
Date:
Time:
User: N/A
Computer:
Description:

The File Replication Service paused because the staging area is full. Replication will resume if staging space becomes available or if the staging space limit is increased.

To increase the size of the staging area, change the following registry setting to reflect the amount of space that is needed (enter it in kilobytes). For example, if you need to replicate 1.2 gigabytes (GB) of data, increase the staging areas of the inbound and outbound partners to 1.5 GB to ensure that the staging areas can accommodate all data to be replicated.

HKLM\SYSTEM\CurrentControlSet\Services\Ntfrs\Parameters\Staging Space Limit in KB

Data type: REG_DWORD
Range: 0x0 - 0xFFFFFFFF KB
Default value: Default= 0xA5000 (660000 KB = 660 MB)

For example, 1.5 GB = 16e360 (1500000 KB = 1.5 GB)