

JKB00224

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Determining the size of the Directory Service and Optimizing CockpIT Synchronization

General:

Busy networks that have more than 2,000 users in the directory service may need to adjust CockpIT settings. In this document we will explain how to analyze CockpIT's synchronization with the directory service and how to make the necessary adjustments to CockpIT's settings.

Methods:

In order to check the size of the directory service and the exact amount of time that it takes CockpIT to read all of it, we will use a program called **JDsADScanner.exe**. This program is located under the installation sub-folder lib.

(For example: 'c:\program files\cockpitserver\lib\JDsADScanner.exe')

1. Open command prompt.
Click: START - RUN, type '**cmd**' and click OK.
2. Enter the installation sub-folder lib (as described above).
3. Type the following command:

JDsADScanner.exe 0 domain name users.xml groups.xml administrators 1 1

The following information will be displayed:

AD scan thread - finished
scanning time 21 sec
Groups 11
Users 2101

4. The most important information is the scanning time measured in seconds. 30 seconds is normal for an directory service with more than 2000 users.

Optimizing CockpIT Synchronization with Directory Service

The following CockpIT Server registry keys can be modified in order to improve synchronization between CockpIT and the directory service:

ADRefreshPeriod (default is 600,000)

This setting determines how often CockpIT will synchronize with the directory service. The default setting is 600,000 (every 10 minutes).

- The synchronization interval should be at least three times longer than the time it takes to synchronize in order to avoid a synchronization overlap.
- You can improve system performance by increasing the interval between synchronizations.

Updates to the directory service will not be synchronized with CockpIT until synchronization takes place. When the interval between synchronizations is longer, CockpIT will be updated less frequently. In such a case, you can start synchronization manually by restarting the JDS service.

ADScanTimeout (default is 400,000)

Maximum time that CockpIT will spend trying to synchronize with the directory service before declaring a communication failure. This period should be at least five minutes longer than the interval between synchronizations.