

FOR IMMEDIATE RELEASE

MFG Systems Builds an Innovative, High Availability Solution for Thermo LabSystems' Software

SOMERSET, New Jersey, August 29, 2002 – MFG Systems Corporation (MFG) announced today a service to protect Thermo LabSystems' SampleManager™ LIMS (SampleManager) users from hardware-related disasters. The MFG solution utilizes Windows2000 cluster software and Oracle's failover architecture to ensure a highly available LIMS environment with minimal interruption to LIMS users. MFG's solution includes an audit of the LIMS architecture and implementation to ensure failover of the both the middle-tier application server and the database server. The resulting high-availability environment permits users to be working within 30 seconds of a complete loss of one of the nodes in a cluster.

SampleManager™ is traditionally run in a three-tier architecture: thin-client software on each user's workstation, SampleManager™ Application Server at the middle-tier and an Oracle database at the backend. In order to meet the round-the-clock demands of today's laboratory personnel, this traditional architecture falls short.

A Fortune 500 chemical manufacturer had purchased two identical Dell servers with dual CPUs and 4G of RAM in an effort to increase SampleManager™ availability. However, without customized configuration neither SampleManager™ nor the Oracle database would utilize the failover capabilities of the cluster environment. MFG was brought in to provide a solution.

MFG analyzed the SampleManager™ environment. To ensure high availability, both the Oracle database and the LIMS application server were provided a failover mechanism. For the Oracle database, MFG installed and configured Oracle FailSafe™, Oracle Corporations' cluster-aware software for instance failover. This software is utilized for both hardware failovers and normal database maintenance. The LIMS application server was also configured to run either on the primary node or database backup node. In the event of hardware failure, user connections are minimally interrupted and the environment is fully available within 30 seconds.

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About MFG

MFG Systems combines the leadership and expertise relied upon by the Oracle community with a proven track record in business-critical enterprise IT environments to deliver business solutions, including database services, application development, support, software products and training. MFG's expertise lies in all areas of Oracle competency with specialists in various complementary technologies including Java, XML, Oracle 9ias, Business Intelligence, Portal and Perl for a wide variety of industries including pharmaceutical, chemical, manufacturing and financial. MFG also provides on-site and remote database Administration services through our dbGuardian™ service offering. In Addition, our AppsGuardian™ service provides on-site application support for our clients as well as remote application support services.

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SampleManager is a registered trademark of Thermo LabSystems, a business unit of Thermo Electron.

Windows2000 Advanced Server is a registered trademark of Microsoft Corporation.

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