Agilent OpenLAB

Data Store

Backup and Restore Guide

Agilent Technologies

Notices

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Contents

Introduction

Agilent OpenLAB Data Store is used to store data files that are generated by supported software applications such as ChemStation and EZChrom. The purpose of this document is to provide information about where this information is stored, to describe the backup/restore process, and to provide examples, so that a customer can develop a backup/restore procedure.

Agilent recommends that you back up the OpenLAB Data Store information, content and indexes on a regular basis and that the restoration process be validated prior to moving into production. It is assumed that various other data (operating system, DBMS, Agilent software, configuration files ...) are being backed up independently.

Who should read this guide?

This document is targeted for the system administrator of the OpenLAB Data Store system. Administrative knowledge of the underlying database management system (i.e. SQL-Server) and familiarity with backup and restore concepts is required.

OpenLAB Data Store System Overview

OpenLAB Data Store stores files, indexes and some other related information directly on the file system. The location of this storage is determined when the product is installed. Metadata, such as file and folder information, audit trails, and signatures are stored in a relational database. The name of the database is also determined when the product is installed. This is the key information that must be backed up in order to ensure that the system can be later restored to the same state.

Agilent recommends that you perform periodic full backups and differential backups between the full backups. A differential backup contains the changes that have occurred since the last full backup. As such, this process will generally be faster.

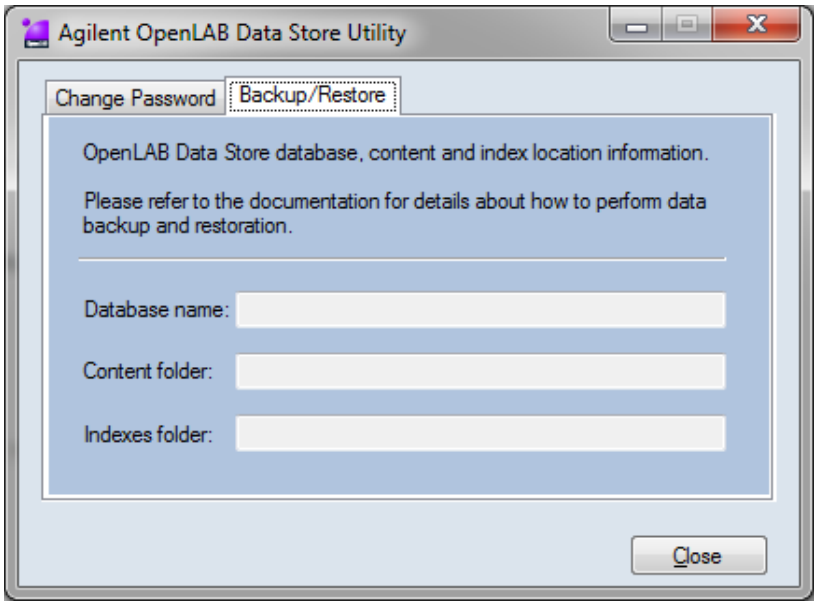
Before You Begin

Determine your current database, content, and index locations

To backup and restore OpenLAB Data Store, you will need to know the name of your database, the location of the stored content folder, and the location of the stored indexes folder. The Agilent OpenLAB Data Store Utility is provided to help you easily determine this information.

To determine the database, content, and index locations

1 Click **Start > All Programs > Agilent Technologies > Agilent Data Store > Agilent OpenLAB Data Store Utility**. The **Agilent OpenLAB Data Store Utility** window opens.



2 Select the **Backup/Restore** tab. Your **Database name**, **Content folder**, and **Indexes folder** locations are displayed. Record the locations to use later in the process.

3 Click **Close** to exit the program.

Determine the folder location to store the backup

If you are performing a backup, locate or create a share folder to store backup information. Record the location to use later in the backup process.

If you are restoring your system, locate the folder where the backup is stored. Record the location to use later in the restore process.

Backup Process

Follow these steps in the order shown to backup your system. Detailed examples for each step are provided in the "Examples" on page 9.

To back up OpenLAB Data Store

1 "Stop the OpenLAB Data Store service" see page 9 for details.

2 Backup the OpenLabDS database.

- For details on using tools provided by Microsoft, please consult Microsoft documentation.
- For details on using a script file for a complete backup, see "A script to backup a database to a local file" on page 10.
- For details on using a script file for a differential backup, see "A script to backup a database to a local file (differential)" on page 10.

3 Backup the content and index folders that were noted from the Agilent OpenLAB Data Store Utility.

For details on using tools provided by Microsoft, please consult Microsoft documentation.

4 "Start the OpenLAB Data Store service" see page 9 for details.

Restore Process

Follow these steps in the order shown to restore your system. Detailed examples for each step are provided in the "Examples" on page 9.

To restore OpenLAB Data Store

1. "Stop the OpenLAB Data Store service" see page 9 for details.
2. Restore the OpenLabDS database.
   - For details on using tools provided by Microsoft, please consult Microsoft documentation.
   - For details on using a script file for a complete restore, see "A script to restore a database from a local file" on page 10.
   - For details on using a script file for a differential restore, see "A script to restore a database and differential database from a local file" on page 11.
3. Restore the OpenLAB data and indexes.

   For details on using tools provided by Microsoft, please consult Microsoft documentation.
4. "Start the OpenLAB Data Store service" see page 9 for details.

Examples

This section explains in detail how to perform some individual steps in the backup/restore process. These steps relate specifically to backing up and restoring the SQL Server database that is used by the OpenLAB Data Store.

The scripts shown in this section are **for reference only** and should not be used in a production environment. The administrator that sets up the backup/restore process should develop scripts that are appropriate for the customer. In addition backup and restoration of the log should be considered.

Stop the OpenLAB Data Store service

1. Select **Start > All Programs > Accessories**.
2. Right click **Command Prompt** and select **Run as administrator**. The Administrator: Command Prompt window opens.
3. Type `net stop alfrescoTomcat`.
4. Press **Enter**.

Start the OpenLAB Data Store service

1. Select **Start > All Programs > Accessories**.
2. Right click **Command Prompt** and select **Run as administrator**. The Administrator: Command Prompt window opens.
3. Type `net start alfrescoTomcat`.
4. Press **Enter**.

To run a database script file

1. Open a Windows Command Prompt.
2. Type:
   cd%ProgramFiles%\Microsoft SQL Server\100\Tools\Binn
3. Type:
   osql –n –U *user* –P *password* –i *scriptfile* –o *outputlogfile*

A script to backup a database to a local file

```
USE dbname;

GO

BACKUP DATABASE dbname TO DISK = 'localfile'  WITH
FORMAT;

GO
```

A script to backup a database to a local file (differential)

A differential backup is based on the most recent, previous full data backup. A differential backup captures only the data that has changed since that full backup.

```
USE dbname;

GO

BACKUP DATABASE dbname TO DISK = 'localfile' WITH
DIFFERENTIAL;

GO
```

A script to restore a database from a local file

```
USE master;

GO

ALTER DATABASE dbname SET SINGLE_USER WITH
ROLLBACK IMMEDIATE;

GO

RESTORE DATABASE dbname FROM DISK = 'localfile'
WITH REPLACE;

GO

ALTER DATABASE dbname SET MULTI_USER;

GO
```

A script to restore a database and differential database from a local file

Please refer to Microsoft documentation for an explanation of the various options (such as the FILE, NORECOVERY, RECOVERY and REPLACE) for the RESTORE DATABASE command.

```
USE master;

GO

ALTER DATABASE dbname SET SINGLE_USER WITH ROLLBACK IMMEDIATE;

GO

RESTORE DATABASE dbname FROM DISK = 'localfile' WITH NORECOVERY, REPLACE;

GO

RESTORE DATABASE dbname FROM DISK = 'localfile' WITH FILE = 1, RECOVERY;

GO

ALTER DATABASE dbname SET MULTI_USER;

GO
```

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