

# **Agilent OpenLAB**

**Data Store** 



**Disaster Recovery Plan** 



## Notices

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## Introduction

The guide provides a sample plan to restore your Agilent OpenLAB Data Store Server in the event of a disaster.

Agilent recommends that the following measures are taken to ensure that a proper recovery can be made in the event of a disaster:

- 1 Prepare and validate a recovery plan for the unlikely case that the OpenLAB Data Store Server becomes inoperable due to a hardware or software failure.
- 2 Perform periodic full backups and differential backups between the full backups of your Data Store Server. Use the backup procedure that is provided in this guide or refer to the Agilent OpenLAB Data Store Backup and Restore Guide for more information on performing backups.
- **3** Record and store system information you need to restore your system in a place that will not be affected by a software or hardware failure of your Data Store system.

This sample plan addresses only the basic procedure of backing up and restoring a test Data Store server. Using this sample plan for reference only, system administrators should develop their own disaster recovery plan for the customer's needs, and test the plan thoroughly.

The test server used in this sample plan is a Windows 2008 R2 SP1 enterprise, Microsoft SQL 2008 R2 SP1 system with the following configuration:

- OpenLAB CDS Data Store installed
- EZChrom application

## Who should read this guide?

This guide is designed for the Agilent OpenLAB CDS Data Store system administrator. Basic knowledge of the underlying SQL-Server database management system and the Windows backup and restore process is helpful.

## **Preparation Procedures**

## Step 1. Record and store system information you will need to restore your system

Record and store the system information that you need to restore your system in a place that will not be affected by a software or hardware failure of your Data Store system.

The following is a sample checklist for our test server. Be sure to replace the details with information appropriate for your system.

### Sample Checklist

Information you need to restore your system includes:

#### **Server Information**

- Server name: 9DRBR
- Operating system: Windows 2008 R2 SP1
- SQL Server: Microsoft SQL 2008 R2 SP1 (Mixed mode)
- Domain settings: Agilent.com
- User who did the installation: Username/password (Administrator privileges on Windows server and SQL server)

#### **OpenLAB CDS Installation Configuration**

- Installation folder: E:\Program Files (x86)\Agilent Technologies
- Installation Qualification: Checked
- Installation Type: Networked System
- Networked System: Data Store Server
- Database type: Existing SQL Server

Database server name: 9DRBR

Database instance: Default instance

- Server connection type: Create new database
- OpenLAB Shared Services database: OLSharedServices with Windows authentication
- Backend Storage: Data Store Server Content file directory: E:\OpenLAB-DS
- OpenLAB Shared Service Language: English
- **Register application: EZChrom**

Enterprise path: \\9DRBR\OpenLAB-EP

#### **OpenLAB CDS System Configuration**

- OpenLAB Data Store Database: OpenLabDS
- OpenLAB Data Store Indexes folder: C:\DSIndex\solr
- OpenLAB CDS system administrator and password: Username/password
- OpenLAB CDS Authentication Provider: Windows Domain
- OpenLAB CDS AFS account and password: afs-username/password
- Account for Instrument service on AIC: aic-username/password
- OpenLAB CDS License: No license(trial)

#### **Backup Information**

- Backup of Data Store database name and location
- □ Backup of Shared service database name and location
- Backup of Data store content folder name and location
- Backup of Data store index folder name and location
- Backup of the OpenLABInstallation\_Workgroup\_OLSS\_Server\_DataStore.xml for reference (which is located in the E:\Program Files (x86)\Agilent Technologies\Logs\Install Log)

#### Step 2. Determine the folder location to store the backup

If you are performing a backup, locate the folder (on a share, USB drive, etc.) 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 Procedure**

#### Backup the databases, content, and indexes

Refer to the Microsoft documentation for additional details or updates to these programs.

- 1 Open Windows Services.
- 2 Stop the alfrescoTomcat service, and then the Agilent OpenLAB Shared Services.

🝳 Services							
File Action View	Help						
	à 🗟   🛛 📰   🕨 💷 II IV						
🧟 Services (Local)	🔅 Services (Local)	,					
	alfrescoTomcat	Name 🔺	Description	Status	Startup Type	Log On As	<b></b>
		🏩 Agilent OpenLAB CDS Print Server	Configure	Started	Automatic	Local System	
	Start the service	Agilent OpenLAB Diagnostics Tools	Supports m	Started	Automatic	Local System	
		🏩 Agilent OpenLAB License Server	Manages li	Started	Automatic	Local System	
	Description:	🧠 Agilent OpenLAB Licensing Support	Provides c	Started	Automatic	Local System	
	Apache Tomcat 6.0.29 Server -	🎑 Agilent OpenLAB Shared Services	Host of Agi		Automatic	Local System	
	http://tomcat.apache.org/	Alert Notification Server	Provides al	Started	Automatic	Local System	
		🔍 alfrescoTomcat	Apache To		Automatic	Local System	
		Application Experience	Processes		Manual	Local System	
		🔍 Application Identity	Determines		Manual	Local Service	
		Application Information	Facilitates	Started	Manual	Local System	
		🎑 Application Layer Gateway Service	Provides s		Manual	Local Service	
		🎑 Application Management	Processes i		Manual	Local System	
		🤹 ASP.NET State Service	Provides s		Manual	Network S	
		🤹 Background Intelligent Transfer Ser	Transfers f		Manual	Local System	
		🎇 Base Filtering Engine	The Base F	Started	Automatic	Local Service	
		🌼 Block Level Backup Engine Service	The WBEN		Manual	Local System	
		CA ARCserve Communication Found	Provides d	Started	Automatic	Local System	
		🔍 CA ARCserve Database Engine	Provides d	Started	Automatic	Local System	
		CA ARCserve Discovery Service	Enables th	Started	Automatic	Local System	
		CA ARCserve Domain Server	Provides th	Started	Automatic	Local System	
		🖾 CA ARCserve Job Engine	Maintains a	Started	Automatic	Local System	
		CA ARCserve Management Service	Provides re	Started	Automatic	Local System	
		CA ARCserve Message Engine	Allows rem	Started	Automatic	Local System	
		CA ARCserve PortMapper	Provides th	Started	Automatic	Local System	
		CA ARCserve Service Controller	Enables re	Started	Automatic	Local System	-
	Extended Standard	and"					
	(/						
1						1	J

Open the SQL Server Management Studio.

4 To conduct a complete backup of the OpenLAB Shared Services database (**OLSharedServices**) and the OpenLab Data Store database (**OpenLabDS**), select **Backup type: Full**.

🥫 Back Up Database - OLShare	dServices				_ O ×		
Select a page	🖳 Script 👻 🚺 Help						
Control Options	Source						
	Database:		01 Shared Services				
	Recovery model:		6111				
	Packup know		E.a.				
	backup type.		Iron		-		
	Copy-only Backup						
	Backup component:						
	• Database						
	C Files and filegroups:		J				
	Backup set						
	Name:						
	Description:						
	Backup set will expire:						
	<ul> <li>After:</li> </ul>	0		🛨 days			
Connection	C On:	5/10/2012		v.			
Server:	Destination						
SDRBR	Back up to:	<ul> <li>Disk</li> </ul>	C Tape				
Connection: AGILENT\olprocess-ecm	E:\Backup\OLSharedService	s-Full-Backup-002.b	vak		Add		
View connection properties					Remove		
Progress					Contents		
( Beady					GOINGING		
44.64	1						
				OK	Cancel		

📔 Back Up Database - OpenLa	abDS					
Select a page	\_ Script 👻 🚺 Help					
General Options	Source Database: Recovery modet Backup type: Copy-only Backup Backup component: C Files and filegroups: Backup set Name:	OpenLabDS-F	OpenLabOS FULL Full			¥ ¥
Connection	Description: Backup set will expire: C Alter: Destination	0 5/10/2012	6 X	in e V	days	
SORBR Connection: AGILENTVolprocess-ecm View connection properties Progress Ready	Back up to: • E:\Backup\OpenLabDSFullBackup\OpenLabDSFullBackup\OpenLabDSFullBackup\OpenLabDSFullBackup	UIIK :kup-002.bak	C Tape			Add Remove Contents
					OK	Cancel

To conduct a differential backup of the OpenLAB Shared Services database (**OLSharedServices**) and the OpenLab Data Store database (**OpenLabDS**), select **Backup type: Differential**.

📒 Back Up Database - OLShar	edServices						
Select a page	🔍 Script 👻 🚺 Help						
General	Source						
	Database:		OI SharedServices				
	Descusaria						
	necovery moder:		FULL				
	Backup type:		Differential		<u> </u>		
	Copy-only Backup						
	Backup component:						
	<ul> <li>Database</li> </ul>						
	C Files and filegroups:						
	Backup set						
	Name:	OLSharedServ	ices-Differential Database Backup-(	002			
	Description:						
	Backup set will expire:						
	<ul> <li>After:</li> </ul>	0		÷ days			
Connection	O On:	5/10/2012		~			
Server:	Destination						
9DRBR	Back up to:	<ul> <li>Disk</li> </ul>	C Tape				
Connection: AGILENT\olprocess-ecm	E:\Backup\OLSharedService	is•Diff•Backup•002.ba	k		Add		
View connection properties					Remove		
Progress					Contents		
Ready							
"Page"							
				OK	Cancel		

📒 Back Up Database - OpenLa	bDS				_ 🗆 ×
Select a page	🔍 Script 👻 💦 Help				
General					
T Uptions	Source				
	Database:		OpenLabDS		•
	Recovery model:		FULL		
	Backup type:		Differential		•
	Consonis Backup		,		
	Backup component:				
	Database				
	C Files and filegroups:				
	Backup set		)		
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Server: 9DBBB	Back up to:	Disk	C Tape		
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AGILENT\olprocess-ecm					Add
View connection properties					Remove
Progress					Contents
Ready					
-4p-	1				
					1
				OK	Cancel

5 Use the Windows Server Backup program or other 3rd party backup and restore program to conduct a full backup of the Data Store content folder and DSIndex folder.

🗽 Backup Once Wizard	×
Select Iter	ns for Backup
Backup Options Select Backup Configur Select Tems for Backup Specify Destination Type Select Backup Destination Confirmation Backup Progress	Select the items that you want to back up. Selecting bare metal recovery will provide you with the most options if you need to perform a recovery. Name C:{DSIndex C:{DSInde

- 6 Open Windows Services.
- 7 Start the Agilent OpenLAB Shared Services, and then the alfrescoTomcat service.

Services (Local)							
(,	Services (Local)						
	alfrescoTomcat	Name A	Description	Status	Startup Type	Log On As	
		Aglent OpenLAB CDS Print Server	Configure	Started	Automatic	Local System	
	Stop the service	Agilent OpenLAB Diagnostics Tools	Supports m	Started	Automatic	Local System	
	Restart the service	Agilent OpenLAB License Server	Manages li	Started	Automatic	Local System	
		Agilent OpenLAB Licensing Support	Provides c	Started	Automatic	Local System	
	Description:	Agilent OpenLAB Shared Services	Host of Agi	Started	Automatic	Local System	
	Apache Tomcat 6.0.29 Server -	Alert Notification Server	Provides al	Started	Automatic	Local System	
	http://tomcat.apache.org/	alfrescoTomcat	Apache To	Started	Automatic	Local System	
		Application Experience	Processes	Started	Manual	Local System	
		Application Identity	Determines		Manual	Local Service	
		Application Information	Facilitates	Started	Manual	Local System	
		Application Layer Gateway Service	Provides s		Manual	Local Service	
		Application Management	Processes i		Manual	Local System	
		ASP.NET State Service	Provides s		Manual	Network S	
		Background Intelligent Transfer Ser	Transfers f		Manual	Local System	
		Base Filtering Engine	The Base F	Started	Automatic	Local Service	
		Block Level Backup Engine Service	The WBEN		Manuai	Local System	
		CA ARCserve Communication Found	Provides d	Started	Automatic	Local System	
		CA ARCserve Database Engine	Provides d	Started	Automatic	Local System	
		CA ARCserve Discovery Service	Enables th	Started	Automatic	Local System	
		CA ARCserve Domain Server	Provides th	Started	Automatic	Local System	
		CA ARCserve Job Engine	Maintains a	Started	Automatic	Local System	
		CA ARC serve Management Service	Provides re	Started	Automatic	Local System	
		CA ADC cerve Mercage Engine	Allows rem	Sharbad	Automatic	Local System	
	1	CA ARCserve PortManner	Provides th	Started	Automatic	Local System	
		CA AD Commo Comico Combrollon	Frovides dia	Charles	Automatic	Local System	

## **Recovery Procedures**

Use these procedures to recover your system if the OpenLAB Data Store becomes inoperable due to a hardware or software failure.

#### **Step 1. Prepare the new system to meet the following requirements**

- 1 Install the same OS system as your previous system.
- 2 Set the same host name as your previous system.
- **3** Join the domain.
- 4 Set the Windows user who will be installing the software as a member of the local system administrators group.
- **5** Login as the user who will be installing the software.
- 6 Install the SQL 2008 R2 SP1 (same version as on your previous system).
- 7 Install the required Microsoft hot fixes.

#### Step 2. Install the OpenLAB CDS Data Store system

- 1 Login as the user who was set up to install the software.
- **2** Obtain the same version of OpenLAB CDS as the previous installation.
- **3** Open the master installer to install the Data Store server. Use the same configuration as the previous installation.
- **4** Open OpenLAB Control Panel, edit the System Configuration. Use the same configuration as the previous configuration.
- **5** Activate the database.
- 6 Login to one of the system's AIC.
- For EZChrom systems, run %InstallationPath%\EZChrom\
   EnterpriseConfig.exe to configure the AFS permission with the same domain user account as the previous installation. This step is not needed for ChemStation systems.

## Step 3. Restore the Databases, Content, and Indexes

Refer to the Microsoft documentation for additional details or updates to these programs.

- 1 Login as the user who was set up to install the software.
- 2 Open Windows Services.
- 3 Stop the alfrescoTomcat service and then the Agilent OpenLAB Shared Services.

tists.					
Help					
o 🗟 🚺 📰   🕨 🔳 🕕					
🔅 Services (Local)					
-					
alfrescoTomcat	Name 🔺	Description	Status	Startup Type	Log On As
	Agilent OpenLAB CDS Print Server	Configure	Started	Automatic	Local System
Start the service	Agilent OpenLAB Diagnostics Tools	Supports m	Started	Automatic	Local System
	🥋 Agilent OpenLAB License Server	Manages li	Started	Automatic	Local System
Description:	Agilent OpenLAB Licensing Support	Provides c	Started	Automatic	Local System
Apache Tomcat 6.0.29 Server -	Agilent OpenLAB Shared Services	Host of Agi		Automatic	Local System
http://tomcat.apache.org/	🎑 Alert Notification Server	Provides al	Started	Automatic	Local System
	🚉 alfresco Tomcat	Apache To		Automatic	Local System
	Application Experience	Processes		Manual	Local System
	Application Identity	Determines		Manual	Local Service
	Application Information	Facilitates	Started	Manual	Local System
	Application Layer Gateway Service	Provides s		Manual	Local Service
	Application Management	Processes i		Manual	Local System
	ASP.NET State Service	Provides s		Manual	Network S
	Background Intelligent Transfer Ser	Transfers f		Manual	Local System
	Base Filtering Engine	The Base F	Started	Automatic	Local Service
	Block Level Backup Engine Service	The WBEN		Manual	Local System
	CA ARCserve Communication Found	Provides d	Started	Automatic	Local System
	CA ARCserve Database Engine	Provides d	Started	Automatic	Local System
	CA ARCserve Discovery Service	Enables th	Started	Automatic	Local System
	CA ARCserve Domain Server	Provides th	Started	Automatic	Local System
	CA ABCserve Job Engine	Maintains a	Started	Automatic	Local System
	CA ARCserve Management Service	Provides re	Started	Automatic	Local System
	CA ARCserve Message Engine	Allows rem	Started	Automatic	Local System
	CA ARCserve PortManner	Provides th	Started	Automatic	Local System
	CA APCcerve Service Controller	Fnablec re	Started	Automatic	Local System

4 Open the SQL Server Management Studio.

Restore the OpenLAB Shared Service database
 (OLSharedServices) from the full backup or differential backup. Select the option With Replace to replace the existing database with your backup version.

间 Restore Database - OLShar	edServices								_ 🗆 🗵	
Select a page	🔄 Script 👻 🚺	Help								
General	Destination for	restore								
	Select or ty	Select or type the name of a new or existing database for your restore operation.								
	To databas	se:	<b>DLSharedServices</b>						•	
	To a point	in time:	Most recent possible							
	Source for res	Source for restore								
	Specify the	source and location of ba	ackup sets to restore.							
	From data	atabase:					-			
	C From de	evice:								
	Select the	backup sets to restore:								
	Restore	Name		Component	Туре	Server	Database	Position	First LSN	
		OLSharedServices-Full I	Database Backup-002	Database	Full	9DRBR	OLSharedServices	1	3100000000	
Connection	~	OLSharedServices-Diffe	rential Database Backup-002	Database	Differential	9DRBR	OLSharedServices	1	3200000000	
Server: 9DRBR										
Connection: AGILENT\olprocess-ecm										
View connection properties										
Progress										
Ready										
484	•								Þ	
							0	ĸ	Cancel	

6 Restore the OpenLAB Data Store database (**OpenLabDS**) from the full backup or differential backup. Select the option **With Replace** to replace the existing database with your backup version.

🧾 Restore Database - OpenLa	bDS								_ 🗆 ×
Select a page	⊴ Script 👻 [	help							
General Options	Destination fo	r restore							
	Select or t	ype the name of a new or existi	ng database for you	r restore operat	ion.				
	To databa	ise:	penLabDS						•
	To a point	in time: M	ost recent possible						
	Source for res	Source for restore							
	Specify th	Specify the source and location of backup sets to restore.							
	From d	atabase:	penLabDS						<b></b>
	C From d								
	Select the	hackup sets to restore:							
	Restore	Name		Component	Туре	Server	Database	Position	First LSN
	<b>V</b>	OpenLabDS-Full Database B	ackup-002	Database	Full	9DRBR	OpenLabDS	1	17800000016700034
Connection	<b>V</b>	OpenLabDS-Differential Data	abase Backup-002	Database	Differential	9DRBR	OpenLabDS	1	18900000001600048
Server: 9DBBB									
Connection: AGILENT\olprocess-ecm									
View connection properties									
Progress									
Ready									
, A <sup>42</sup> A.	•								Þ
L									OK Cancel

 Remove DSAdmin from OpenLabDS > Security > Users. Assign Security > Logins > DSAdmin as db\_owner for Data Store database.

🚪 Login Properties - DSAdmir	ı				_ 🗆 ×
Select a page	Script -	· 🖪 Help			
🚰 General					
Server Roles	Lisers ma	oped to this login:			
Securation	Man	Database	Ulser	Default Schema	
Status		master			
		model			
		msdb			
		OLSharedServices			
		OpenLabDS	DSAdmin	dbo	
		tempdb			
	Database	account enabled for: m	iaster		
Connection	db ad	cessadmin			
Server: 9DRBR Connection: AGILENT\olprocess-ecm View connection properties Progress Ready		ackupoperator Istareader atawiiter Iadmin nydatareader nydatareader nydatawiiter vner curityadmin			
					Coursel 1
				UK	Lancel

8 If using DB user and SQL Server authentication for OLSS database, remove the DB user from Shared Services database
 > Security > Users. Assign Security > Logins > dbuser as db\_owner for Share Services database.

📱 Login Properties - olssadmin 📃 🗖 🗙						
Select a page	🛒 Script 🤜	· 🛐 Help				
🚰 General –	<u> </u>					
Server Roles	Users ma	pped to this login:				
Securables	Man	Database	User	Default Schema		
Securaties		master				
		model				
		msdb				
		OLSharedServices	olssadmin	dbo		
		OpenLabDS				
		tempdb				
		1				
	1					
	🚩 Guest	account enabled for: master				
	Database	role membership for: master				
Connection	db_a	cessadmin				
Server	db_ba	ackupoperator				
pelles2	db_da	atareader				
Connection:		ladmin				
AGILENT\olprocess-ecm		enydatareader				
Set View connection properties	db_de	enydatawriter				
		wher				
Progress	Dublic	cunyadmin				
Beadu	E poblic					
Tready						
, et la ,						
				OK Cancel		

- 9 If the OpenLAB CDS authentication provider is Windows local, edit the tables OLSharedServices.ExternalUsers and OLSharedServices.ExternalGroups in the OpenLAB Shared Services database, to replace the value of the field ExternalId of each group or user with the SID of the group or user from the new computer system.
- **10** Rename the existing Data Store Content and DSIndex folders.

- **11** Open the Windows Server Backup program or other 3rd party backup and restore program.
- **12** Conduct a restore of the DataStore Content and DSIndex folders to the original place in the directory from the full backup and differential backup.

🌆 Recovery Wizard			×		
Select Iter	ns to Recover				
Getting Started Specify Location Type Specify Remote Folder	Browse the tree in Available items to find the files or folders that you want to recover. Click an item in the tree or under Name to select it for recovery. Available items: Items to recover:				
Select Backup Date	9DRBR	Name 🔺	Date Modified		
Select Recovery Type	E- Local disk (C:)	DSIndex	5/11/2012 11:		
Select Items to Recover	Data (E:)				
Specify Recovery Opti	DopenLAB-DS				
Confirmation					
Recovery Progress					

🗽 Recovery Wizard			×						
Select Items to Recover									
Getting Started Specify Location Type Specify Remote Folder	Browse the tree in Available items to find the files or folders that you want to recover. Click an item in the tree or under Name to select it for recovery. Available items: Items to recover:								
Specify Remote Folder Select Backup Date Select Recovery Type Select Items to Recover Specify Recovery Opti Confirmation Recovery Progress	Youcure Lettis.       Image: Second sec	Name A DpenLAB-D5	Date Modified 5/11/2012 11:						

- **13** Open Windows **Services**.
- 14 Start the Agilent OpenLAB Shared Services, and then the alfrescoTomcat services.

iew Help						
🗐 🖸 📑 🚺 🖬 🖬 🖬 🖬 🖬						
l) 🖏 Services (Local)						
alfrescoTomcat	Name 🔶	Description	Status	Startup Type	Log On As	
	🧠 Agilent OpenLAB CDS Print Server	Configure	Started	Automatic	Local System	
Stop the service	Agilent OpenLAB Diagnostics Tools	Supports m	Started	Automatic	Local System	
Restart the service	🥋 Agilent OpenLAB License Server	Manages li	Started	Automatic	Local System	
	🥋 Agilent OpenLAB Licensing Support	Provides c	Started	Automatic	Local System	
Description:	🥋 Agilent OpenLAB Shared Services	Host of Agi	Started	Automatic	Local System	
Apache Tomcat 6.0.29 Server -	🥋 Alert Notification Server	Provides al	Started	Automatic	Local System	
http://tomcat.apache.org/	🙀 alfresco Tomcat	Apache To	Started	Automatic	Local System	
	Application Experience	Processes	Started	Manual	Local System	
	Application Identity	Determines		Manual	Local Service	
	Application Information	Facilitates	Started	Manual	Local System	
	🖾 Application Layer Gateway Service	Provides s		Manual	Local Service	
	Application Management	Processes i		Manual	Local System	
	ASP.NET State Service	Provides s		Manual	Network S	
	🖾 Background Intelligent Transfer Ser	Transfers f		Manual	Local System	
	Base Filtering Engine	The Base F	Started	Automatic	Local Service	
	Block Level Backup Engine Service	The WBEN		Manual	Local System	
	CA ARCserve Communication Found	Provides d	Started	Automatic	Local System	
	🖾 CA ARCserve Database Engine	Provides d	Started	Automatic	Local System	
	CA ARCserve Discovery Service	Enables th	Started	Automatic	Local System	
	CA ARCserve Domain Server	Provides th	Started	Automatic	Local System	
	CA ARCserve Job Engine	Maintains a	Started	Automatic	Local System	
	CA ARCserve Management Service	Provides re	Started	Automatic	Local System	
	CA ARCserve Message Engine	Allows rem	Started	Automatic	Local System	
	CA ARCserve PortMapper	Provides th	Started	Automatic	Local System	
	CA ADCoarve Service Controller	Fnables re	Started	Automatic	Local System	

15 For EZChrom systems, reset printers from OpenLAB Control Panel if a printer server is installed. This step is not needed for ChemStation systems.



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