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# LABWORKS LIMS v7.2

Upgrade Guide

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# Upgrading LABWORKS 7.1.0.xxx to LABWORKS 7.2.0.xxx

**Note** – To upgrade from LABWORKS 7.1 or earlier to LABWORKS 7.2 or later, all the currently installed applications i.e LWServer, LWDataService, LWLicenseService and LWClient are required to be uninstalled. Further begin with installation of LABWORKS 7.2 or later by double clicking LWServer.exe.

### Upgrade Steps -

### 1. LABWORKS Server upgrade

a. Double click on "LWServer.exe" file to launch Server upgrade. Refer below screen capture.

Name	Date modified	Туре	Size
ISSetupPrerequisites	03/24/2023 09:03	File folder	
LWNGIIToolkit	03/24/2023 09:03	File folder	
LWRESTService	03/24/2023 09:03	File folder	
	03/24/2023 09:05	File folder	
🐝 7.2.0.82_BlankDatabase.ZIP	03/23/2023 22:27	IZArc ZIP Archive	2,222 KB
🔄 Autorun.inf	03/23/2023 21:53	Setup Information	1 KB
🖏 LWDataServices.exe	03/23/2023 20:28	Application	11,851 KB
🖏 LWLicenseServices.exe	03/23/2023 20:23	Application	3,890 KB
😋 LWServer.exe	03/23/2023 22:09	Application	4,28,241 KB
📑 WindowsInstaller-KB893803-x86.exe	05/17/2005 04:12	Application	2,525 KB



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LABWORKS Server - InstallShield Wizard X
Customer Information
User Name:
Admin
Company Name:
Company Name
Install this application for:
<ul> <li>Anyone who uses this computer (all users)</li> </ul>
Only for me (Admin)
InstallShield
< <u>B</u> ack <u>N</u> ext > Cancel
LABWORKS Server - InstallShield Wizard
Setup Type
Select the setup type to install.
Please select a setup type.
<u>Complete:</u> All program features will be installed. (Requires the most disk space.)
Air program features will be installed. (Kequires the most disk space.)
Custom
advanced users.
InstallShield
< Back Next > Cancel



LABWORKS Server - InstallShield Wizard			×
Choose Destination Location			
Specify a folder for the application.			
C: LABWORKS LWEXE			
			Browse
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel
LABWORKS Server - InstallShield Wizard			
EADWORKS SCIVEL INStanShield Wizard			
Choose Destination Location			
Choose Destination Location		Ň	
Choose Destination Location			
Choose Destination Location Specify a folder for new Database.		\	
Choose Destination Location Specify a folder for new Database.		\ 	
Choose Destination Location Specify a folder for new Database.			
Choose Destination Location Specify a folder for new Database.			
Choose Destination Location Specify a folder for new Database.			
Choose Destination Location Specify a folder for new Database. C:\LABWORKS\LWDATA			Browse
Choose Destination Location Specify a folder for new Database. C:\LABWORKS\LWDATA			Browse
Choose Destination Location Specify a folder for new Database. C:\LABWORKS\LWDATA			Browse
Choose Destination Location Specify a folder for new Database.           C:\LABWORKS\LWDATA			Browse
Choose Destination Location Specify a folder for new Database. C:\LABWORKS\LWDATA			Browse
Choose Destination Location Specify a folder for new Database.           C:\LABWORKS\LWDATA           InstallShield			Browse
Choose Destination Location Specify a folder for new Database.           C:\LABWORKS\LWDATA           InstallShield	< Back	Next >	Browse



ABWORKS Server - InstallShield Wizard				×
License file path		Ň		Â
Enter License file path				
C:\LABWORKS\LWEXE				
			Browse	
		l	blonsem	
InstallShield				
1120001000				
	< <u>B</u> ack	<u>N</u> ext >	Cancel	
InstallShield Wizard				×
InstallShield Wizard			No.	×
InstallShield Wizard Installation of LABWORKS Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine.				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine.				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
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InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. LABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. IABWORKS License Services LABWORKS Data Services				×
InstallShield Wizard Installation of LABWORKS Services Select the services to install on this machine. ILABWORKS License Services LABWORKS Data Services InstallShield	< <u>B</u> ack	<u>N</u> ext >	Cancel	×

LWLicenseService installation begins



LABWORKS License Services - Insta	allShield Wizard X
Setup Status	
LABWORKS License Services is co	nfiguring your new software installation.
C:\\LABWORKS\LWLicenseServ	vices\LWLicenseServices64.exe
InstallShield	
	Court
	Cancel
I WLicenseService installation of	ompleted
LABWORKS License Services - Insta	
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed LABWORKS License Services. Click Finish to exit the wizard.
	< <u>B</u> ack <b>Finish</b> Cancel

LWDataService Installation



LABWORKS Data Services - InstallS	hield Wizard X
Setup Status	
LABWORKS Data Services is confi	guring your new software installation.
Updating component registration	
InstallShield	Cancel
LABWORKS Data Services - InstallS	hield Wizard
<b>Q LABWORKS</b>	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed LABWORKS Data Services. Click Finish to exit the wizard.
	< <u>B</u> ack <b>Finish</b> Cancel

LWServer installation begins



LABWORKS Server - InstallShield V	Vizard X
Setup Status	
LABWORKS Server is configuring	your new software installation.
InstallShield	Cancel
LWServer installation complete	ed Vizard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed LABWORKS Server. Click Finish to exit the wizard.
	< <u>B</u> ack <b>Finish</b> Cancel



- 2. LABWORKS Database upgrade
  - a) Running Database Scripts and Update Tool

#### Update the Existing Database and Run the Update Tool.

#### LABWORKS 6.X to latest LABWORKS version

Step	User Input/Action	Expected Results
1	Use the Database tools to run either, LWScripts-SQLServer.sql or LWScripts- Oracle.sql, depending on your database system.	Scripts run.
2	Run the Update tool.exe using update files for all versions between your current and 7.2. Example, if upgrading from 6.6, then run the updatetool using LW67Release.xsp, LW68Release.xsp, LW69Release.xsp, LW610Release.xsp, LW70Release.xsp, LW71Release.xsp and LW72Release.xsp.	Updatetool.exe is run.
3	Run the utility, LWMigrationUtility.exe to update database tables new to latest LABWORKS version	Database tables are updated to latest LABWORKS version

Note: When upgrading an existing database it is recommended to run Lwwsystem6.exe from the C:\Labworks\Client folder because there are new applications-based privileges associated with the new Desktop.

The **LWMigrationUtility** was introduced in LABWORKS 6.2. It is used to copy data from an old format to a new format. In LABWORKS 6.2, the data storage for, AUDITTRAIL, CalcDefs, DMR, Specifications, and Special Info Forms has been updated. LWMigrationUtility should only be run if needed. See Appendix B for when and which options should be used for LWMigrationUtility. Running LWMigrationUtility on previoulsy migratated values like RLTSPECS can overwrite changes you made after the privous migration. LWMigrationUtility should only be run once or each object type.

**AuditTrail**. AuditTrail's data storage format changed in LABWORKS 6.0 from AUDTRAIL to AUDITTRAIL table. LWMigrationUtility converts records from AUDTRAIL (5.8) to AUDITTRAIL format.

**CalcDefs.** Internal LABWORKS Calculation Definitions were limited to 10 inputs. LABWORKS 6.2 adds a new table, CALCPARAMS which removes this 10 input limitation. LWMigrationUtility converts records from CALCDEFS to CALCPARAMS. Added in 6.2

**DMR.** (Optional Program, see DMR Documentation for specific detail.) LWMigration utility moves data into the primary LABWORKS database from the external DMR data storage previously used. Added in 6.2

**RLTSPECS.** RLTSPECS data storage has been changed to RESULTSPECS. This new format provides a better platform for extending what specifications can be defined. Additional specification capabilities will become available in future versions of LABWORKS Added in 6.2

**SIFORM.** Special Info Forms prior to LABWORKS 6.2 used multiple tables for storing defaults for Location Codes, Analyses and storing data for samples and analyses. All this data is now stored in the LABOBJSPECINFO table. Additionally, a field is added to the SIFORMDEF table to create a unique identifier for each field. This unique identifier allows for modifying a Special Info Form without losing the association between the fields and their values. Added in 6.2

MAILLIST. Migration of data from MLADDRESSES/SAMPMAILLIST to LABOBJMAILLIST Added in 6.4

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LABWORKS LIMS v7.2 Upgrade Guide **COMMENTS.** Migration of data from COMMENTS/DLCOMMENTS to LABOBJCOMMENTS Added in 6.4

LABOBJECTS. Migration of data from ANLOBJECT to LABOBJOBJECTS. Added in 6.4

**RESULT**. Addition of CHECKSUM data. Checksum is used to verify no one has modified the data outside of the LABWORKS application. Added in 6.4

USERHEAD. Addition of encrypted password. Added in 6.4

**Migrate USERHEAD to FIPS Compliance.** Migration of USERHEAD data to FIPS compliant using FIPS compliant encryption algorithm. Added in 6.10

**Migrate RESULT to FIPS Compliance.** Migration of RESULT data to FIPS compliant using FIPS compliant encryption algorithm. Added in 6.10

**Migrate AuditTrail to FIPS Compliance.** Migration of AuditTrail data to FIPS compliant using FIPS compliant encryption algorithm. Added in 6.10

LABWORKS 6.4 has new security features for Encrypted passwords and Checksums on result data. If upgrading from 6.2 or 6.3 the migration utility needs to be run and the options for RESULT and USERHEAD need to be run.

#### Running the Update Tool

Step	User Input/Action	Expected Results
1	Select your database type, SQL or Oracle.	Database is selected.
2	Enter the database owner, likely dbo for SQL, and the schema owner for Oracle. New tables will be created under this owner.	Database owner entered.
3	Enter the database connection Password.	Database connection password entered.

# 

Step	User Input/Action	Expected Results
4	Enter the database connection User ID.	Database connection User ID entered.
	Select the Service pack.	
5	The file LW72Release.xsp updates the database from 7.1 to 7.2 Desktop format.	
	Run the Update tool.exe using update files for all versions between your current and 7.2. Example, if upgrading from 6.6, then run the updatetool using LW67Release.xsp, LW68Release.xsp, LW69Release.xsp, LW610Release.xsp, LW70Release.xsp, LW71Release.xsp and LW72Release.xsp.	Service pack selected and run.
	The service pack I18NTables.xsp is used to add additional language strings to the LABWORKS database and is used only if needed for multi-language sites.	
	The service pack LW62DMRRelease.xsp is required for sites that are using the LABWORKS Discharge Monitoring Reports.	
	<ul> <li>Press the Connect button to create a connection to the database.</li> <li>For Oracle databases, select the Microsoft OLEDB Provider for Oracle provider and click 'Next'. Enter your Oracle service name as the server name, database connection username and password. Press Test Connection to confirm the</li> </ul>	
	connection.	
6	Data Link Properties         Provider       Connection       Advanced       All         Select the data you want to connect to:       OLE DB Provider(s)       Image: Connection       Microsoft Jet 3.51 OLE DB Provider         Microsoft Jet 3.51 OLE DB Provider       Microsoft Ole DB Provider for Analysis Services 9.0       Microsoft Ole DB Provider for Analysis Services 9.0         Microsoft OLE DB Provider for DTS Packages       Microsoft OLE DB Provider for ODBC Drivers       Microsoft OLE DB Provider for OLAP Services 8.0         Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search         Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search         Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search         Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search         Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search       Microsoft OLE DB Provider for Search         Microsoft OLE DB Provider for Search       Microsoft OLE Search       Microsoft OLE Search       Microsoft OLE Search         Microsoft OLE Search       Microsoft OLE Search       Microsoft OLE Search       Microsoft OLE Search       Microsoft OLE Search       Microsoft OLE Search </td <td>Connection to the database is established.</td>	Connection to the database is established.
	password. Click Test Connection to confirm the connections.	



Step	User Input/Action	Expected Results
	🗊 Data Link Properties	
	Specify the following to connect to Oracle data:	
	1. Enter a server name:	
	MYServiceName	
	2. Enter information to log on to the database:	
	User <u>n</u> ame: labworks	
	Password:	
	Blank password     Allow <u>s</u> aving password	
	• For SQL Server databases, select the Microsoft OLEDB Provider for SQL Server	
	provider and click 'Next'.	
	🗊 Data Link Properties	
	Provider Connection Advanced All	
	Connection   Advanced   All	
	Select the data you want to connect to:	
	OLE DB Provider(s)	
	Microsoft Jet 3.51 OLE DB Provider	
	Microsoft Office 12.0 Access Database Engine OLE DB Prov	
	Microsoft OLE DB Provider for Analysis Services 9.0	
	Microsoft OLE DB Provider For Data Mining Services Microsoft OLE DB Provider for DTS Packages	
	Microsoft OLE DB Provider for Indexing Service	
	Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0	
	Microsoft OLE DB Provider for Oracle	
	Microsoft OLE DB Provider for Search	
	Enter your SQL Server name, database connection username and password, and the	
	database name. Pross 'Test Connection' to confirm the connection	
	📑 Data Link Properties	
	Provider Connection Advanced All	
	Specify the following to connect to SQL Server data:	
	1. Select or enter a server name:	
	mysqlserver	
	2. Enter information to log on to the server:	
	C Use <u>Windows NT Integrated security</u>	
	Use a specific user name and password:	
	User name: liabworks	
	Password:	
	□ <u>B</u> lank password □ Allow <u>s</u> aving password	
	3. Select the database on the server:	



Step	User Input/Action	Expected Results
	After the database connection is tested, press 'Analyze' to have the program identify the database modifications required.	
	🔕 LABWORKS Update Tool - 🗆 X	
	Database	
	SQL 💌	
	Database Owner Username	
	dbo	
	DatabasePassword	
	**	
	LABWORKS User ID	
	usr	
	Service Pack	Database
	LW72Release.xsp	modifications
		are identified.
7		
		Changes are
	The program gives a preview of the changes to be made. To apply the changes press	applied.
	V MigrateData Table : StateMaster	
	Table : StateTransitions	
	I MigrateData	
	I♥ MigrateData Table : URESOURCE	
	✓ MigrateData	
	Table : USERHEAD	
	✓     MigrateData	
	Li Ureate scriptionity Apply Lancei	
	If an error is encountered, the step that was unsuccessful appears in red. Clicking on the	
	error message displays details about the error.	1

#### b) Running LWMigration Utility

**Note**: If upgrading from 6.4 or 6.5 the LWMigrationUtility is only requried for ViolationReorder or FIPS Encryption Migration. Re-migrating data that has been migrated can overwrite data that has been updated after a migration.

The LWMigrationUtility requires a valid LABWORKS login to the database, thus requiring Gateway Administrator be configured and the LWLicenseServices be running.

Step	User Input/Action	Expected Results
1	When LWMigrationUtility.exe starts it prompts for information about the database and users.         Image: Constant of the example of the exampl	LWMigration Utility prompt is displayed.
2	Then, connect using the same information/parameters as when running the UpdateTool in earlier steps. After connection, the 'Next' button will be available.	Connection to the database is established.
3	Then the program gives the option of running the Update Tool.	The option to run the

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L	User	Input/Action							Expected Results
	🕲 LABV	WORKS Migration Utility				- 0	ı ×		Update Too
									presented.
			🗌 Run u	update tool					If applicable
									Tool is run.
						Next	Close		
T	The U	Jodate Tool should hav	e prev	iouslv been r	un. but i	Next	close an be r	at this time.	
T	Гhe U 🕸 LAB\	Ipdate Tool should hav	e prev	iously been r	un, but i	Next if not, it c — [	<sup>Close</sup> an be r □ ×	n at this time.	
T	The U	Update Tool should hav WORKS Migration Utility	e prev	iously been r	un, but i	Next if not, it c — [	Close an be r	n at this time.	
T	The U	Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer	e prev Status Complete	Last updated on	un, but i	Next if not, it c — [	Close can be r	n at this time.	
T	Γhe U <sup>©</sup> LAB∖	Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer	e prev Status Complete Complete	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12	un, but i	Next if not, it c – [	Close can be r	n at this time.	
T	The U	Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer LABOBJECTS data transfer	e prev Status Complete Complete Complete	iously been r Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	un, but i	Next if not, it c – []	Close	n at this time.	
T		Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer	E prev Status Complete Complete Complete Complete	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	From	Next if not, it c	Close	n at this time.	
1	Select	Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer	e prev Status Complete Complete Complete Complete Complete	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	From	Next if not, it c	Close an be r ×	n at this time.	
	Гhе U	Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer AUDITTRAIL checksum data update	E prev Status Complete Complete Complete Complete Complete Complete	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	From	Next if not, it c	Cose	n at this time.	
1		Update Tool should hav WORKS Migration Utility Description MALLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer AUDITTRAIL checksum data update VIDLREORDER data transfer	E prev Status Complete Complete Complete Complete Complete Complete Complete	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	From	Next if not, it c	Close an be r	n at this time.	
T	Select	Update Tool should hav WORKS Migration Utility Description MALLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer RESULT data transfer AUDITTRAIL checksum data update VIDLREORDER data transfer Chemical Inventory data transfer	e prev	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12	From	Next if not, it c	Close	n at this time.	
	Select           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	Update Tool should hav WORKS Migration Utility Description MALLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer AUDITTRAIL checksum data update VIDLREORDER data transfer Chemical Inventory data transfer FIPS Compliance UserHead data transfer	e prev Status Complete Complete Complete Complete Complete Complete Pending Pending	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 14/12/2018 17:51:57	From	Next if not, it c	Close	n at this time.	
1		Update Tool should hav WORKS Migration Utility Description MAILLIST data transfer COMMENTS data transfer LABOBJECTS data transfer UserHead data transfer RESULT data transfer AUDITTRAIL checksum data update VIOLREORDER data transfer FIPS Compliance UserHead data transfer FIPS Compliance RESULT data transfer	e prev Status Complete Complete Complete Complete Complete Complete Pending Pending Pending	Last updated on 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 16/10/2013 08:30:12 14/12/2018 17:51:57	From	Next if not, it c	Close	n at this time.	

The LABWORKS Migration Utility provides a method for migrating each type of data independently. And for data conversions that are sample related and may take long periods of time to process, the sample range can be defined. (Sample Specs, Sample Special Info, RESULT data transfer, FIPS Compliance RESULT data transfer). Date range can be defined for AUDITTRAIL checksum data transfer, FIPS Compliance AUDITTRAIL data transfer.

For each process in the migration the program stores the date the conversion was last executed. When doing an upgrade to LABWORKS 7.2, the programs will store their data in the new formats described earlier. Working with LABWORKS product specialist and support specialist, best practices for the migration process can be worked out for your configuration and change management processes.

When the Migration Utility is finished it provides a log file with a count of the number of records that were migrated.

LABWORK	S Migration Utility 23
1	Data migrated successfully. Log file created at [C:\labworks\lwexe68.Server\LWMigration_20100712210948.log] Do you want to view log file?
	Yes No

The log file can be helpful if there are errors in migrating data to the new format.



#### c) Running NGMigration Utility

NGMigrationTool is a common tool for various migrations. It needs to be executed when updating a version. Follow the instruction below for more details about each migration task.

#### **Migration: Persisted group to Log Batch**

This kind of migration is required to update from 6.9 or earlier to 6.10 or later.

Starting with 6.10, Desktop services do not work with persisted groups. Instead of using persisted groups, applications use log batch details associated with sample log batches. To avoid losing persisted group data, it can be associated with existing or new log batches using NGMigrationTool.

*Note:* NGMigrationTool can be run repeatedly to change the migration. It is available because the old relationships between persisted groups and samples are not removed from the database after the migration.

Step	User Input/Action	Expected Results		
1	Run NGMigrationTool from LABWORKS\LWEXE\Server\NGMigrationTool.exe			
2	Select a database. Provide your login and password to access the database.	NGMigration Tool window is open.		
3	Select "Persisted group to log batch" tile.	The migration wizard runs.		

Expected Step **User Input/Action** Results 🔕 Migration Tool  $\times$ File Help Persisted group to log batch Scheduled events to eLIMS Introduced in 7.1 QAQC Template Introduced in 7.1 Read Welcome screen information. Click Next.  $\times$ 🗧 🗟 Persisted Group to Log Batch migration steps Welcome to migration tool for persisted group to log batch Starting with version 6.10, desktop services do not work with persisted groups. Instead of using a persisted group, applications will use log batch details associated with sample log batches. To avoid losing persisted group data, you can associate groups with existing or custom log batches. Most data can be migrated automatically if a persisted group and a log batch have the same set of samples. The remaining data can be migrated manually. Follow these steps to migrate the data, check the report, and confirm the migration. After confirmation, the migration process will begin. Welcome Auto-merge Conflict type#1: Group and log batch mismatch Conflict type#2: Empty log batch Review changes Migrating Auto-merge 4 screen is open. Next Cancel



#### 

	Millo Ellaio VI.2 Opgilade Galae		÷
Step	User Input/Action		Expected Results
5	Check Auto-merge information	<ul> <li></li></ul>	Manual merge screen is open.
6	Resolve conflicts following the	instructions in the tool. Click Next to continue. -	Report screen is open.

#### 

Step	User Input/Action					Expected Results
	← 🗑 Persisted Group to Log Batch migration steps				- 0 X	
	Set log batch ld for persisted group samples with empty log batch         ✓ Welcome         ✓ Auto-merge         ✓ Conflict type#1: Group and log batch mismatch         Conflict type#2: Empty log batch					
	<ul> <li>Review changes</li> <li>Migrating</li> </ul>	Sample	Group	Log Batch	Log Batch Members	
					Next Cancel	
7	After configuring the migration before the migration. Print rep Check changes and click Next to ← € Persisted Group to Log Batch migration steps Please check and confirm following changes → Welcome → Auto-merge → Conflict type#1: Group and log batch mismatch → Conflict type#2: Empty log batch ▶ Review changes ▶ Migrating	Please check the changes Changes in persisted group LB_2019-08-23-004 2019-12-27-002 LB_2019-08-23-005 LB_2019-08-23-007	nTool provid ded. gration. that will be applied to the up IDs <u>Type of migrat</u> <u>Auto</u> <u>Manual</u> <u>Manual</u>	e database and run the process on Log bat 2019-1 2017-0 2019-1 2020-0	check changes –	Progress screen is open.
		Changes in samples Sample Previous	persisted group d Cun	ent persisted group d Previo	us log bat Current log bat	
8	After the migration completes, needed.	the informati	on dialog w	ill be shown. F	Print report if it is	The wizard will be closed.

#### LABWORKS LIMS v7.2 Upgrade Guide Expected **User Input/Action** Step **Results** Click Finish to finish the migration. 🗧 🗟 Persisted Group to Log Batch migration steps Data migration process ✓ Welcome Updating... 🖌 Auto-merge ✓ Conflict type#1: Group and log batch mismatch PersistedGroup: 2019-12-27-002 ... Conflict type#2: Empty log batch 100% Param: sdsad ... Param: sdsad ... Attachment: C:\USERS\LUIS SILVA\DESKTOP\DEVELOPMENT\AXURE LIBRARIES \DASHBOARDWIDGETS.RPLIB ...1004 PersistedGroup: LB\_2019-08-23-005 ... 1004 Review changes Migrating Comment: sdasd 100% 100% Labworks migration $\times$ 100% 100% XE .100% The migration process completed successfully. For more information about the changes, print the report. 100% OK Specinfo: OCINFO : REAGENT PREP\_DATE\_001... Specinfo: OCINFO : SIANDADE\_PREP\_DATE\_001... Specinfo: OCINFO : REAGENT\_SOURCE\_001... Specinfo: OCINFO : SIANDADE\_SOURCE\_001... Specinfo: OCINFO : SINTE\_SOLUTION\_0.001... Specinfo: OCINFO : SPIKE\_SOLUTION\_B\_CA\_MG\_001 ...100% 100% Commit changes . Print report Finish

# Migration: PsSchedule to Sample

This kind of migration is required to update from 6.10 or earlier to 7.0 or later.

Starting with 7.0, scheduled samples DB structure has been changed. Desktop services do not work with PSSchedule table. Instead of using PSSchedule table, applications will use Sample table. To avoid losing scheduled samples data, it is necessary to migrate it in Sample table using NGMigrationTool.

Step	User Input/Action	Expected Results
1	Run NGMigrationTool from LABWORKS\LWEXE\Server\NGMigrationTool.exe	Authenticatio n window is open.
2	Select a database. Provide your login and password to access the database.	NGMigration Tool window is open.

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Step	User Input/Action			Expected
	LABWORKS - User Login Login User Password OK Cancel	Available Databases Sel LABWORKS MOBILE S Ju G It C R	ect Language	
3	Select "PSSchedule to Sample"	Tile.	Scheduled events to eLIMS	The migration wizard runs.
	Project management	QAQC Template		

Step	User Input/Action	Expected Results
	1 LABWORKS 7 x Database Migration Utility	
4	Before this date all data will be set to INACTIVE     March 2022     Apply process scheduler status rules     Status     Migration Results     Process Scheduler Samples to be made INACTIVE in Sample Table     Samples Process Scheduler Validation Queue : NA     Samples Process Scheduler Invoice Queue : NA   Set selected statuses to inactive	
5	7.x Database Migration Utility is launched. On selecting an date and clicking on button "Perform Upgrade", will update all the samples prior to selected date to INACTIVE.         In Migration Results section, count of Process Scheduler samples which have statuses like Validation, Report and Invoice queue will be displayed.         Select the required checkboxes corresponding to Validation, Report and Invoice queue status and click the button "Set selected statuses to Inactive", to set the status to INACTIVE for the corresponding samples.         Count of samples with current state as NULL would be displayed as "Samples with ambiguous status".         If count of samples with ambiguous status is greater than 0 then an button with text "Correct Data" will be visible at extreme right bottom of the 7.x Database Migration Utility window.         Samples with ambiguous status: 5       Correct Data         Clicking the button "Correct Data" will fix the sample status discrepancy.	

#### **Migration: Project management**

This kind of migration is required to update from 7.1 or earlier to 7.2 or later.

Starting with 7.2, Desktop services work with a new system entity – project. Instead of using SAMPLE.PROJECT text field as a reference, applications will use a new CIM\_Project.ID field. To avoid losing existing sample project data, a new project should be created for each sample project value using NGMigrationTool.

To keep history, the value of the original project (SAMPLE.PROJECT) is stored in a separate CIM\_Project.LEGACY\_PROJECT field. Initial project status (CIM\_Project.CURRENT\_STATE) is determined by the workflow configuration when migrating projects.



Step	User Input/Action	Expected Results
1	Run NGMigrationTool from LABWORKS\LWEXE\Server\NGMigrationTool.exe	Authentication window is open.
2	Select a database. Provide your login and password to access the database.	NGMigrationToo I window is open.
3	Select "Project management" tile.	The migration wizard runs.
4	Read Welcome screen information. Click Next.	Location project screen is open.

	<ul> <li>← Eq Project management migration steps</li> <li>Welcome to migration tool for project management</li> <li>&gt; Welcome         <ul> <li>Location project</li> <li>Sample project</li> <li>Prelogin group project</li> <li>Project analyte reporting group project</li> <li>Review changes</li> <li>Migrating</li> </ul> </li> </ul>	
	Next Cancel	
5	Check Location project updates and click Next to continue. <ul> <li>Project management migration steps</li> </ul> <ul> <li>Velcome</li> <li>Velcome</li> <li>Velcome project migration</li> <li>Project management migration steps</li> <li>Project management migration steps</li> <li>Nereive stanalyte reporting group project</li> <li>Nigrating</li> </ul> <ul> <li>Migrating</li> </ul> <ul> <li>Nett<ul> <li>Cancel</li> </ul></li></ul>	Sample project screen is open.
6	Check Sample project updates and click Next to continue.	Prelogin group project screen is open.

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	<ul> <li></li></ul>	
	Next Cancel	
7	Check Prelogin group project updates and click Next to continue.	Project analyte reporting group project screen is open.
8	Check Project analyte reporting group project updates and click Next to continue.	Report screen is open.

	< 두 두 Project management migration steps	-	
	Check project analyte reporting group migra		
	✓ Welcome	Project analyte reporting groups contain project in the group name.	
	<ul><li>✓ Location project</li><li>✓ Sample project</li></ul>	Group Name	
	<ul> <li>Prelogin group project</li> <li>Project analyte reporting group project</li> </ul>		
	<ul><li>Review changes</li><li>Migrating</li></ul>		
		Next Cancel	
	After configuring the migration	n, NGMigrationTool provides a report to check	
	changes before the migration.	Print report if it is needed.	
	Check changes and click Next 1	to start the migration.	
		- 🗆 X	
	← E7 Project management migration steps		
	Please check and confirm following changes	Please check the changes that will be applied to the database and run the process clicking the Start migration	
	<ul> <li>Velcome</li> <li>Location project</li> <li>Complementation</li> </ul>	Changes during the project migration Print report	
_	<ul> <li>Sample project</li> <li>Prelogin group project</li> </ul>	Name Description Type	Progress screen
9	<ul> <li>Project analyte reporting group project</li> <li>Review changes</li> </ul>	POND         New project 'POND' will be created         Project           WT         New project 'WT will be created         Project	is open.
	Migrating	LAB1         1 location(s) will be updated with project 'LAB1'         Location           WT         10 sample(s) will be updated with project 'WT         Sample           DDUD         0 simple(s) will be updated with project 'WT         Sample	
		POND         Project analyte reporting group 'POND' will be updated with projec         PAM Group           ProjectPreLogGrp         PreLogin group 'ProjectPreLogGrp' xml data will be updated         PreLoginGroup	
		Next Cancel	
	After the migration completes	the information dialog will be shown. Print report if it	
10	is needed.		The wizard will
			be closed.
	Click Finish to finish the migrat	tion.	



← ← ₽roject management migration steps		~
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Data migration process		
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<ul> <li>Prelogin group project</li> </ul>	Create new projects	▲
<ul> <li>Project analyte reporting group project</li> </ul>		
<ul> <li>Review changes</li> </ul>		
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		Print report
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#### **Migration: QAQC Template**

This kind of migration is required to update from 7.1 or earlier to 7.2 or later.

Starting with 7.2, users can specify all the special QA sample in a single list in QAQC Template builder. The previous QAQC templates contained "Special QA Sample" and "Special QA Sample available for batch" as separate fields. Going forward these fields will be merged into a single list of "Special QA Sample available for batch".

To avoid losing existing "Special QA Sample" data, migrate the existing QAQC templates using NGMigrationTool.

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Step	User Input/Action	Expected Results
1	Run NGMigrationTool from LABWORKS\LWEXE\Server\NGMigrationTool.exe	Authentication window is open.
2	Select a database. Provide your login and password to access the database.	NGMigrationToo l window is open.
3	Select "QAQC Template" tile.	The migration wizard runs.
4	Read Welcome screen information. Click Next to start the migration.	Progress screen is open.

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		h watao		Starting with version 7.1 users can su	necify all the special OA sample	in a single list in OAOC Template	builder The	
• Signator report          • Signator report       Instructional diversity of the signature diversity of the signatediversity of the signature di	• signation rapion          • signation rapion       In the balance from the table of t	Migrati	ing OAOC Template	previous QAQC templates contained	"Special QA Sample" and "Spec	cial QA Sample available for batc	h" as separate	
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After the migration completes, the information dialog will be shown. Print report if it is needed. Click Close.	After the migration completes, the information dialog will be shown. Print report if it is needed. Click Close.					Start	Cancel	
After the migration completes, the information dialog will be shown. Print report if it is needed. Click Close.	After the migration completes, the information dialog will be shown. Print report if it is needed. Click Close.         Image: Click Close click close click close click click close click cl							
Migration report         • Welcome to migrate on tool to migrate QAQC Tex         • Migrating QAQC Template         • Migrating QAQC Te	Migration report         • Welcome to migration tool to migrate QAQC Tem.         • Migration report         • GaC/Template The migration process completed         • or more information about the changes, print the report.         • or more information about the changes, print the report.         • OK         • Ctore	After the is needed	migration com J. Click Close.	pletes, the information	dialog will be s	shown. Print re	port if it	
<ul> <li>Welcome to migration tool to migrate QAQC Tem</li> <li>Migration report</li> <li>Perse check the migrated events list.</li> <li>Print report</li> <li><u>AQC Template Name</u></li> <li><u>DadaC Template Sume</u></li> <li><u>DadaC Template Name</u></li> <li><u>DadaC Template Sume</u></li> <li><u>DadaC Template Sump</u></li> <li><u>DadaC Templat</u></li></ul>	<ul> <li>Velkome to migration tool to migrate QAQCTerm.</li> <li>Migration report</li> <li>Please check the migrated events list.</li> <li>Print report</li> <li><u>AQCC Template Name</u></li> <li><u>GAQC Template Name</u></li> <li><u>GAQC Template Name</u></li> <li><u>GAQC Template Name</u></li> <li><u>TEMPALTE Error</u></li> <li><u>There are no special QA Sample</u></li> <li><u>QAQC Template Name</u></li> <li><u>QAQC Template Name</u></li> <li><u>GAQC Template The migration process completed</u></li> <li><u>Temper Information about the changes, print the reports</u></li> <li><u>Clore</u></li> </ul>	After the is needec ← ि Migration	n QAQC Template steps	pletes, the information	dialog will be s	shown. Print re	port if it	
Aligrating QAQC Template Name       V Migrating QAQC Template Name     Status     Details	Migrating QAQC Template     Migration report     Migration report     Migration access the migrate events of the migrate events e	After the is needec ← ि Migration Migration	n QAQC Template steps n report	pletes, the information	dialog will be s	shown. Print re	port if it	
Migration report     Oud_C Template Name     Status     Detains     Detai	Wigration report       Uduct. template Name       Status       Uduct.       Uduct.       Uduct.       Error       There are no special QA Sample         QAQCBATCHTEMPLATE       Error       There are no special QA Sample       Uduct.       Error       There are no special QA Sample         Labourds migration       Uduct.       Error       There are no special QA Sample       Uduct.       Error       There are no special QA Sample         QAQC Template successfully.       GadC Template successfully.       GadC Template successfully.       Image: Status       Oddette Construction       Image: Status       Image: St	After the is needec ← ि Migration Migration	n QAQC Template steps n report	pletes, the information	dialog will be s	shown. Print re	port if it	
Interaction	Outcome of the part of	After the is needed	n QAQC Template n QAQC Template n g QAQC Template	Please check the migrated events lis	dialog will be s	shown. Print re	port if it	
TEMPALTE_FOR_ME       Error       There are no special QA Sample         Labworks migration       QAQC Template successfully mi       OAQC Template successfully mi         Image: OAQC Template The migration process completed       Successfully.       For more information about the changes, print the reports.         Image: OK       OK       Close       Close	TEMPALTE_FOR_ME       Error       There are no special QA Sample         Labovarks migration       QAQC Template successfully mi       QAQC Template successfully mi         OK       OK       Description       Description         Close       Close       Close	After the is needed	n QAQC Template steps n report te to migration tool to migrate on report	Please check the migrated events lis QAQC Te Please check the migrated events lis QAQC Template Name OM TEMPLATE	dialog will be s	shown. Print re	port if it	
Labworks migration       CadQC Template successfully mi         Image: Add Care and Care a	Labworks migration       QAQC Template successfully mi         QAQC Template successfully mi       Be closed.	After the is needed	n QAQC Template steps n report te to migration tool to migrate on report	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCATCHTEMPLATE	dialog will be s	shown. Print re	port if it	
Close	Close	After the is needed	n QAQC Template steps n report ne to migration tool to migrate ng QAQC Template	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPPALTE_FOR_ME	dialog will be s	shown. Print re	port if it Print report al QA Sample al QA Sample al QA Sample	The wittend wi
Close	QAQC Template: The migration process completed successfully.         For more information about the changes, print the reports.         OK         OK	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrate ng QAQC Template ion report	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME beords: priorition	dialog will be s	shown. Print re	Print report al QA Sample al QA Sample al QA Sample cessfully mi	The wizard wi
Successfully.         For more information about the changes, print the reports.         OK         OK	Successfully:         For more information about the changes, print the reports.         OK         OK	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migration og QAQC Template ion report	e QAQC Te Please check the migrated events lis QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration	dialog will be s	shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
For more information about the changes, print the reports.	For more information about the changes, print the reports.	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migration og QAQC Template ion report	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Сове	OK	After the is needed ← € ™ Migration Migration → Welcom → Migratin ▶ Migration	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrate ng QAQC Template ion report	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report Ie to migration tool to migrat ng QAQC Template Ion report	e QAQC Te QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	tt. Status Error Error Error K ted t the reports.	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report 1e to migration tool to migrat ng QAQC Template ion report	e QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME ibworks migration	dialog will be s	shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Pe QAQC Te QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME abworks migration QAQC Template: The migration process completion Successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME abworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME abworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME  bworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Term QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
Close	Close	After the is needed	e migration com d. Click Close. In QAQC Template steps n report te to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis         QAQC Te         Please check the migrated events lis         QAQC Template Name         OM_TEMPLATE         QAQC Template: The migration process completed events migration         QAQC Template: The migration process completed events for more information about the changes, print	dialog will be s	Shown. Print re	Print report al QA Sample al QA Sample al QA Sample cccessfully mi	The wizard wi be closed.
		After the is needed	e migration com d. Click Close. In QAQC Template steps n report te to migration tool to migrat ng QAQC Template ion report	Please check the migrated events list QAQC Te QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration QAQC Template: The migration process comple successfully. For more information about the changes, print	dialog will be s	Shown. Print re	port if it	The wizard wi be closed.
		After the is needed	e migration com d. Click Close. In QAQC Template steps n report ne to migration tool to migrat ng QAQC Template ion report	Please check the migrated events lis QAQC Te Please check the migrated events lis QAQC Template Name OM_TEMPLATE QAQCBATCHTEMPLATE TEMPALTE_FOR_ME bworks migration QAQC Template: The migration process complet successfully. For more information about the changes, print	dialog will be s	shown. Print re	port if it	The wizard wi be closed.



# 3. LABWORKS License Services upgrade

a. Double click on "LWLicenseService.exe" file to launch License Services upgrade. Refer below screen capture.

Name	Date modified	Туре	Size
ISSetupPrerequisites	02/03/2022 12:05	File folder	
LWNGIIToolkit	02/03/2022 12:05	File folder	
LWRESTService	02/03/2022 12:05	File folder	
	02/03/2022 12:07	File folder	
7.1.0.7_BlankDatabase.ZIP	02/03/2022 12:04	Compressed (zipp	2,105 KB
🔄 Autorun.inf	02/03/2022 12:04	Setup Information	1 KB
🖏 LWDataServices.exe	02/03/2022 12:04	Application	11,678 KB
🔩 LWLicenseServices.exe	02/03/2022 12:04	Application	3,856 KB
🔩 LWServer.exe	02/03/2022 12:05	Application	4,01,200 KB
ा WindowsInstaller-KB893803-x86.exe	02/03/2022 12:05	Application	2,525 KB

b. Below confirmation message will appear.



- c. Click on "Yes" button to continue with LABWORKS License Services upgrade.
- d. LABWORKS License Services upgrade will start. Refer below screen capture.

LABWORKS License Services - InstallShield Wizard	>	×
Resuming the InstallS License Services	hield Wizard for LABWORKS	
Wizard will complete the License Services on your Next.	installation of LABWORKS computer. To continue, click	
< <u>B</u> ack	Next > Cancel	



e. Click on "Next" button to continue with the LABWORKS License Services upgrade. If License service is running then below confirmation message will appear.

LABWORKS License Services - InstallShield Wizard	×
Files in Use	
Some files that need to be updated are currently in use.	
The following applications are using files that need to be updated by this setup.	
LWLicenseServices	
Automatically close and attempt to restart applications.	
Do not close applications. (A reboot will be required.)	
InstallShield	
OK	Cancel

f. Select the first option i.e. "Automatically close and attempt to restart applications." And click on "OK" button to continue with the LABWORKS License Services upgrade.

LABWORKS License Services - InstallShield Wizard	×
Setup Status	
The InstallShield Wizard is updating (7.01.000) of LABWORKS License Services to version 7.1.0.7	1
Removing backup files	_
InstallShield	
Cano	:el

g. After completing LABWORKS License Services upgrade below confirmation window will appear.

LABWORKS License Services - InstallShield Wizard				
<b>Q LABWORKS</b>	Update Complete			
	The InstallShield Wizard has updated LABWORKS License Services to version 7.1.0.7.			
	< <u>B</u> ack <b>Finish</b> Cancel			

h. Click on "Finish" button to close the LABWORKS License Services upgrade installer.



#### 4. LABWORKS Data Services upgrade

a. Double click on "LWDataServices.exe" file to launch Data Services upgrade. Refer below screen capture.

ISSetupPrerequisites02/03/2022 12:05File folderLWNGIIToolkit02/03/2022 12:05File folderLWRESTService02/03/2022 12:05File folderWebHelp02/03/2022 12:07File folder7.1.0.7_BlankDatabase.ZIP02/03/2022 12:04Compressed (zippAutorun.inf02/03/2022 12:04Setup Information1 KBLWDataServices.exe02/03/2022 12:04Application11,678 KBLWLicenseServices.exe02/03/2022 12:04Application3,856 KBLWServer.exe02/03/2022 12:05Application4,01,200 KBWindowsInstaller-KB893803-x86.exe02/03/2022 12:05Application2,525 KB	Name	Date modified	Туре	Size
LWNGIIToolkit02/03/2022 12:05File folderLWRESTService02/03/2022 12:05File folderWebHelp02/03/2022 12:07File folder7.1.0.7_BlankDatabase.ZIP02/03/2022 12:04Compressed (zippAutorun.inf02/03/2022 12:04Setup Information1 KBLWDataServices.exe02/03/2022 12:04Application11,678 KBLWLicenseServices.exe02/03/2022 12:04Application3,856 KBLWServer.exe02/03/2022 12:05Application4,01,200 KBWindowsInstaller-KB893803-x86.exe02/03/2022 12:05Application2,525 KB	ISSetupPrerequisites	02/03/2022 12:05	File folder	
LWRESTService02/03/2022 12:05File folderWebHelp02/03/2022 12:07File folder7.1.0.7_BlankDatabase.ZIP02/03/2022 12:04Compressed (zippAutorun.inf02/03/2022 12:04Setup Information1 KBLWDataServices.exe02/03/2022 12:04Application11,678 KBLWLicenseServices.exe02/03/2022 12:04Application3,856 KBLWServer.exe02/03/2022 12:05Application4,01,200 KBWindowsInstaller-KB893803-x86.exe02/03/2022 12:05Application2,525 KB	LWNGIIToolkit	02/03/2022 12:05	File folder	
WebHelp         02/03/2022 12:07         File folder           7.1.0.7_BlankDatabase.ZIP         02/03/2022 12:04         Compressed (zipp         2,105 KB           Autorun.inf         02/03/2022 12:04         Setup Information         1 KB           WDataServices.exe         02/03/2022 12:04         Application         11,678 KB           UWLicenseServices.exe         02/03/2022 12:04         Application         3,856 KB           UWServer.exe         02/03/2022 12:05         Application         4,01,200 KB           WindowsInstaller-KB893803-x86.exe         02/03/2022 12:05         Application         2,525 KB	LWRESTService	02/03/2022 12:05	File folder	
Image: Sector	WebHelp	02/03/2022 12:07	File folder	
Autorun.inf         02/03/2022 12:04         Setup Information         1 KB           WDataServices.exe         02/03/2022 12:04         Application         11,678 KB           LWLicenseServices.exe         02/03/2022 12:04         Application         3,856 KB           LWServer.exe         02/03/2022 12:05         Application         4,01,200 KB           WindowsInstaller-KB893803-x86.exe         02/03/2022 12:05         Application         2,525 KB	7.1.0.7_BlankDatabase.ZIP	02/03/2022 12:04	Compressed (zipp	2,105 KB
WDataServices.exe         02/03/2022 12:04         Application         11,678 KB           LWLicenseServices.exe         02/03/2022 12:04         Application         3,856 KB           LWServer.exe         02/03/2022 12:05         Application         4,01,200 KB           WindowsInstaller-KB893803-x86.exe         02/03/2022 12:05         Application         2,525 KB	📓 Autorun.inf	02/03/2022 12:04	Setup Information	1 KB
WLicenseServices.exe         02/03/2022 12:04         Application         3,856 KB           WServer.exe         02/03/2022 12:05         Application         4,01,200 KB           WindowsInstaller-KB893803-x86.exe         02/03/2022 12:05         Application         2,525 KB	🔩 LWDataServices.exe	02/03/2022 12:04	Application	11,678 KB
WServer.exe         02/03/2022 12:05         Application         4,01,200 KB           WindowsInstaller-KB893803-x86.exe         02/03/2022 12:05         Application         2,525 KB	😋 LWLicenseServices.exe	02/03/2022 12:04	Application	3,856 KB
WindowsInstaller-KB893803-x86.exe 02/03/2022 12:05 Application 2,525 KB	🔩 LWServer.exe	02/03/2022 12:05	Application	4,01,200 KB
	📑 WindowsInstaller-KB893803-x86.exe	02/03/2022 12:05	Application	2,525 KB

#### b. Below confirmation message will appear.

LABWORKS Data Services - InstallShield Wizard	$\times$
This setup will perform an upgrade of 'LABWOR you want to continue?	(S Data Services'. Do
Y	!s No

- c. Click on "Yes" button to continue with LABWORKS Data Services upgrade.
- d. LABWORKS Data Services upgrade will start. Refer below screen capture.



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e. Click on "Next" button to continue with the LABWORKS Data Services upgrade. If Data service is running then below confirmation message will appear.

LABWORKS Data Services - InstallShield Wizard	×
Files in Use Some files that need to be updated are currently in use.	Z
The following applications are using files that need to be updated by this se	:tup.
LWDataServices	
Automatically close and attempt to restart applications.	
O Do not close applications. (A reboot will be required.)	
OK	Cancel

f. Select the first option i.e. "Automatically close and attempt to restart applications." And click on "OK" button to continue with the LABWORKS Data Services upgrade.



g. After completing LABWORKS Data Services upgrade below confirmation window will appear.



LABWORKS Data Services - InstallS	Shield Wizard			
<b>Q LABWORKS</b>	Update Complete			
	The InstallShield Wizard has updated LABWORKS Data Services to version 7.1.0.7.			
	K Back Finish Cancel			

h. Click on "Finish" button to close the LABWORKS Data Services upgrade installer.

# 5. LABWORKS Client upgrade

a. Go to the "\\LABWORKS\LWEXE" LABWORKS Server folder where LABWORKS Client Installer exist. Refer below screen capture.

Name	Date modified	Туре	Size	File version
Server	02/03/2022 12:35	File folder		
syscfg	02/03/2022 12:35	File folder		
📙 Updates	02/03/2022 11:27	File folder		
	02/03/2022 11:27	File folder		
ApplicationSpec.xml	02/03/2022 11:37	XML Document	1 KB	
ClientApp.config	01/27/2022 02:19	CONFIG File	5 KB	
ClientMSTFile.mst	01/27/2022 02:19	MST File	21,092 KB	
🔂 ClientSetup.msi	02/02/2022 12:46	Windows Installer	1,62,184 KB	
CollectionGroupReport.xsd	01/27/2022 02:19	XSD File	40 KB	
🔀 CR13SP28MSI32_0-10010309.MSI	04/29/2021 03:36	Windows Installer	1,13,356 KB	
🔁 CrystalXIRDC.msi	02/02/2022 12:50	Windows Installer	69,823 KB	
Labworks.ini	01/27/2022 02:19	Configuration sett	40 KB	
Labworks_271.ini	12/29/2021 18:03	Configuration sett	45 KB	
Labworks_original.ini	01/25/2022 13:08	Configuration sett	40 KB	
LE722722.CTL	01/24/2022 14:35	CTL File	9 KB	
LWClientInstallScript.bat	01/27/2022 02:19	Windows Batch File	1 KB	
LWClientUnInstallScript.bat	01/27/2022 02:19	Windows Batch File	1 KB	
LWClientUpgradeScript.bat	01/27/2022 02:19	Windows Batch File	1 KB	
LWI18NRES.MDB	01/27/2022 02:19	MDB File	8,132 KB	
LWI18NRES.xml	01/27/2022 02:19	XML Document	8 KB	
LWReporting.xsd	01/27/2022 02:19	XSD File	21 KB	
mcinstr6.lst	01/31/2022 21:19	LST File	3 KB	
scinstr6.lst	01/31/2022 21:19	LST File	4 KB	
Upgrade LABWORKS Client.bat	01/27/2022 02:19	Windows Batch File	1 KB	
₩vcredist_x86.exe	01/31/2022 22:22	Application	2,683 KB	6.0.2900.2180

b. Double click on "Upgrade LABWORKS Client.bat" file to launch Client upgrade. Refer below screen capture.

	AB	wo	RKS
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Name	✓ Date modified	Туре	Size	File version	
Server	02/03/2022 12:35	File folder			
syscfg	02/03/2022 12:35	File folder			
📙 Updates	02/03/2022 11:27	File folder			
	02/03/2022 11:27	File folder			
ApplicationSpec.xml	02/03/2022 11:37	XML Document	1 KB		
ClientApp.config	01/27/2022 02:19	CONFIG File	5 KB		
ClientMSTFile.mst	01/27/2022 02:19	MST File	21,092 KB		
🛃 ClientSetup.msi	02/02/2022 12:46	Windows Installer	1,62,184 KB		
CollectionGroupReport.xsd	01/27/2022 02:19	XSD File	40 KB		
🔂 CR13SP28MSI32_0-10010309.MSI	04/29/2021 03:36	Windows Installer	1,13,356 KB		
🔁 CrystalXIRDC.msi	02/02/2022 12:50	Windows Installer	69,823 KB		
Labworks.ini	01/27/2022 02:19	Configuration sett	40 KB		
Labworks_271.ini	12/29/2021 18:03	Configuration sett	45 KB		
📓 Labworks_original.ini	01/25/2022 13:08	Configuration sett	40 KB		
LE722722.CTL	01/24/2022 14:35	CTL File	9 KB		
LWClientInstallScript.bat	01/27/2022 02:19	Windows Batch File	1 KB		
EWClientUnInstallScript.bat	01/27/2022 02:19	Windows Batch File	1 KB		
LWClientUpgradeScript.bat	01/27/2022 02:19	Windows Batch File	1 KB		
LWI18NRES.MDB	01/27/2022 02:19	MDB File	8,132 KB		
LWI18NRES.xml	01/27/2022 02:19	XML Document	8 KB		
LWReporting.xsd	01/27/2022 02:19	XSD File	21 KB		
mcinstr6.lst	01/31/2022 21:19	LST File	3 KB		
scinstr6.lst	01/31/2022 21:19	LST File	4 KB		
Upgrade LABWORKS Client.bat	01/27/2022 02:19	Windows Batch File	1 KB		
避 vcredist_x86.exe	01/31/2022 22:22	Application	2,683 KB	6.0.2900.2180	

# LABWORKS Client upgrade will start. Refer below screen capture





LABWORKS LIMS v7.2	Upgrade Guide
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C:\WINDOWS\system32\cmd.exe		_	×
re you sure you want to continue with LW client upgrade (Y/N)?Y			^
LABWORKS Client			
Please wait while Windows configures LABWORKS Clier	ıt		
Gathering required information			
	Cancel		
			~
LABWORKS Client			
Please wait while Windows configures LABWORKS C	lient		
Time remaining: 8 minutes			
	Ca	ancel	

c. Click on "Finish" button to close the LABWORKS Client upgrade installer.

← → ∽ ↑ 📴 → This PC → Local Disk (C:) → LABWORKS → Client →						
> 🖈 Quick access	Name	Date modified	Туре	Size	File version	
	칮 loginacc6.exe	02/02/2022 12:28	Application	520 KB	7.1.0.7	
> 💻 This PC	🔍 LSession6.exe	02/02/2022 12:28	Application	524 KB	7.1.0.7	
> 🤿 Network	칮 LWAnlMaint_DotNet.exe	02/02/2022 12:28	Application	887 KB	7.1.0.7	
-	🔾 LWAutoScratch6.exe	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 LWBARCOD640.exe	02/02/2022 12:29	Application	552 KB	7.1.0.7	
	칮 Lwbz00_6.exe	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 Lwbz01_6.exe	02/02/2022 12:29	Application	524 KB	7.1.0.7	
	칮 LWBZ02_6.EXE	02/02/2022 12:29	Application	524 KB	7.1.0.7	
	칮 Lwbz03_6.exe	02/02/2022 12:29	Application	576 KB	7.1.0.7	
	칮 Lwbz04_6.exe	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 Lwbz06_6.exe	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 Lwbz07_6.exe	02/02/2022 12:29	Application	576 KB	7.1.0.7	
	칮 Lwbz08_6.exe	02/02/2022 12:29	Application	576 KB	7.1.0.7	
	칮 LWBZ09_6.EXE	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	💙 LWBZ10_6.EXE	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	Q Lwbz11_6.exe	02/02/2022 12:29	Application	328 KB	7.1.0.7	
	칮 LWBZ14_6.EXE	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 LWBZ15_6.EXE	02/02/2022 12:29	Application	532 KB	7.1.0.7	
	칮 LWBZ18_6.EXE	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 LWBZ19_6.EXE	02/02/2022 12:29	Application	528 KB	7.1.0.7	
	칮 Lwbz29_6.exe	02/02/2022 12:29	Application	576 KB	7.1.0.7	
	🔕 Lwbz30 6.exe	02/02/2022 12:29	Application	528 KB	7.1.0.7	

d. After LABWORKS Client upgrade need to reconfigure "ApplicationSpec.xml" file.

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