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LABWORKS LIMS v7.1

Upgrade Guide

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Upgrading LABWORKS 7.0.0.xxx to LABWORKS 7.1.0.xxx

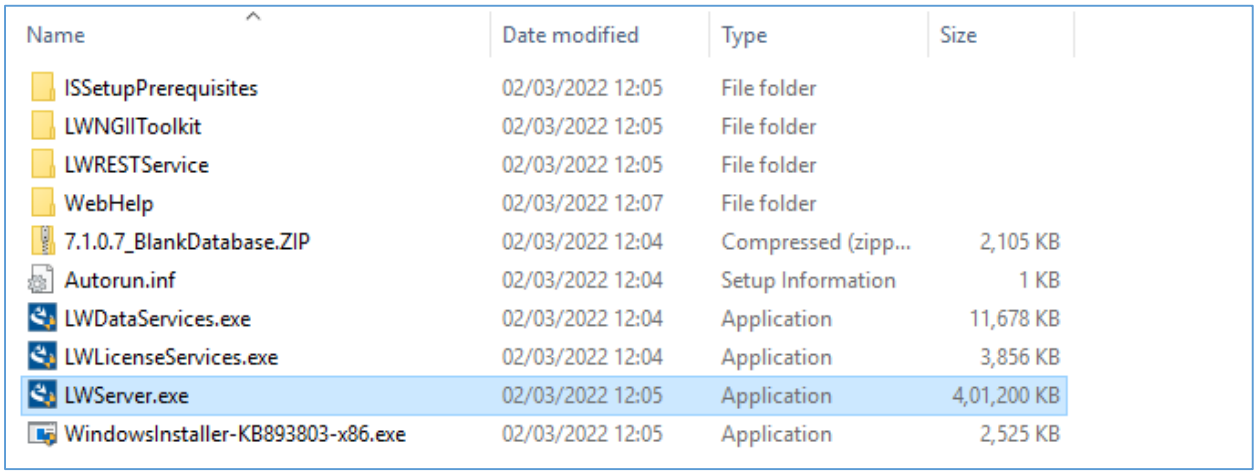
Prerequisite – LABWORKS 7.0 Installer with any version must installed on workstation.

Note – LABWORKS Server installer will not upgrade License Service, Data Service and LABWORKS Client automatically. Every LABWORKS Installer i.e. LWServer, LWLicenseService , LWDataServices and ClientSetup needs to be individually upgrade as per below steps.

Upgrade Steps -

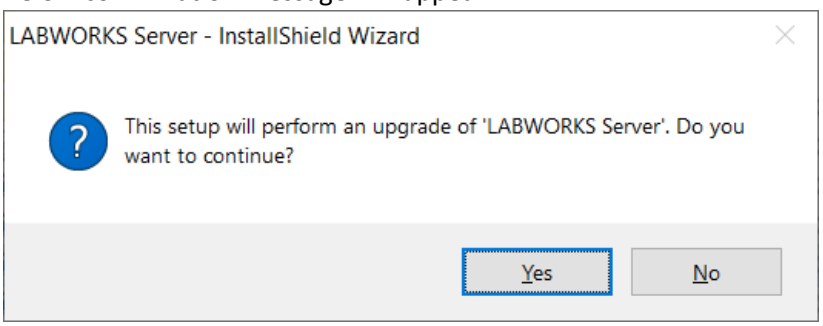
1. LABWORKS Server upgrade

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



Name	Date modified	Type	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	
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
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 Server upgrade.
d. LABWORKS Server upgrade will start. Refer below screen capture.

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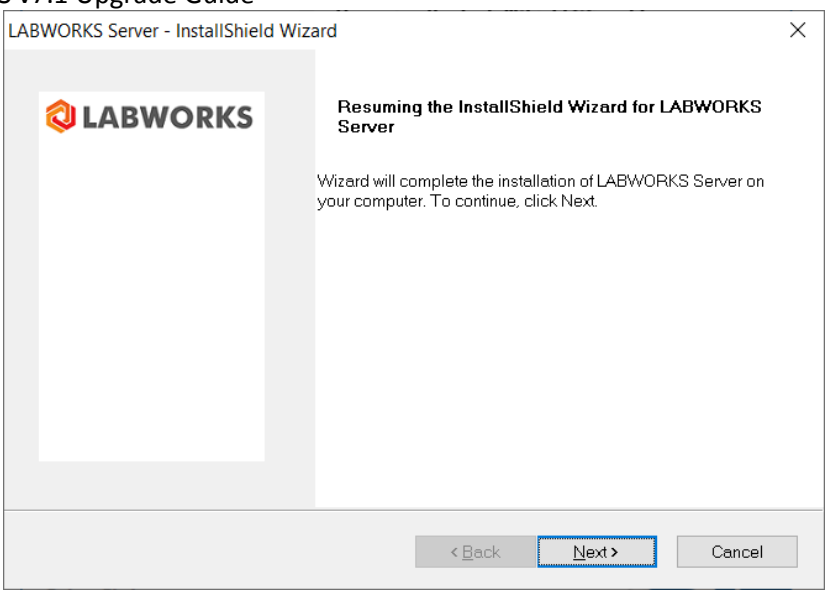
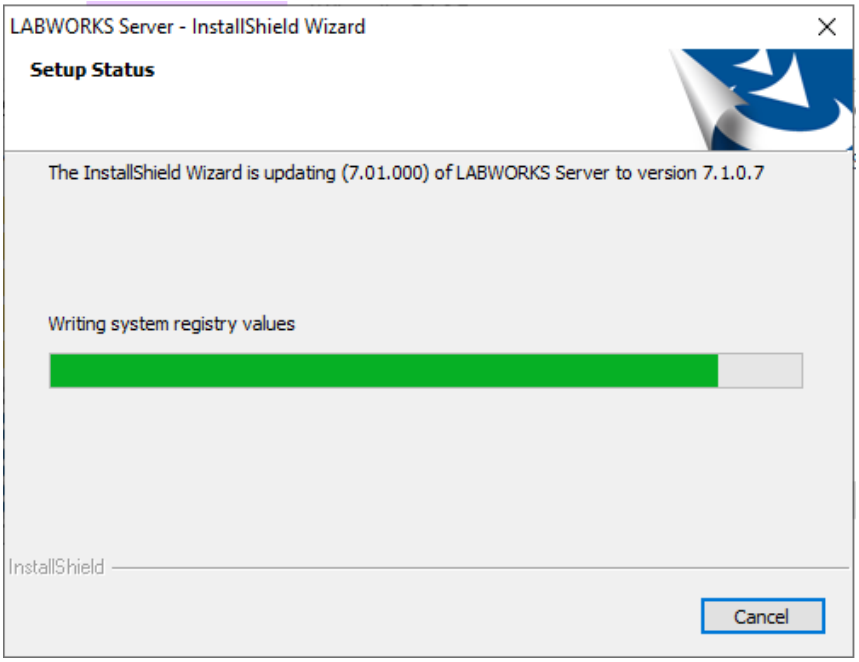


e. Click on “Next” button to continue with the LABWORKS Server upgrade.



f. After completing LABWORKS Server upgrade below confirmation window will appear.

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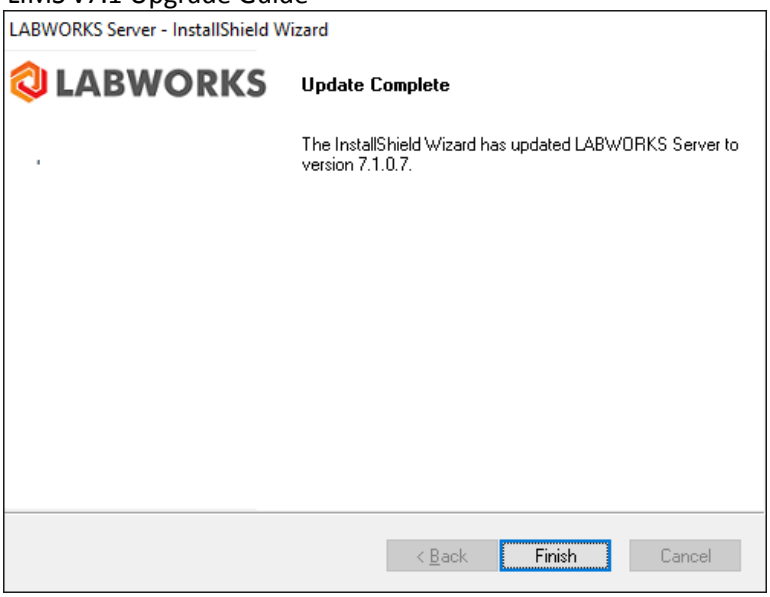

g. Click on “Finish” button to close the LABWORKS Server upgrade installer.

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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 7.1. Example, if upgrading from 6.6, then run the updatetool using LW67Release.xsp, LW68Release.xsp, LW69Release.xsp, LW610Release.xsp, LW70Release.xsp and LW71Release.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

COMMENTS. Migration of data from COMMENTS/DLCOMMENTS to LABOBJCOMMENTS Added in 6.4

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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

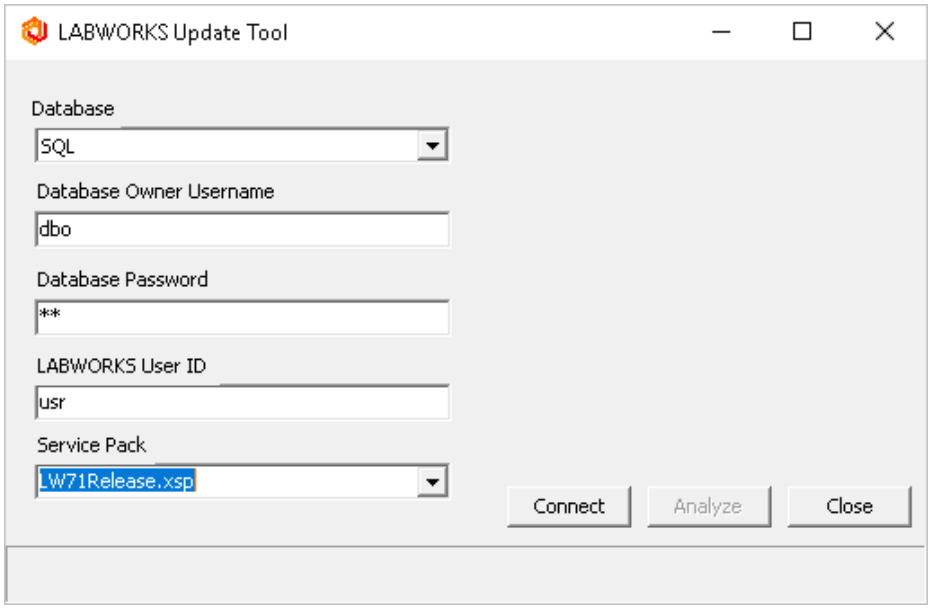
Migrate USERHEAD to FIPS Compliance. Migration of USERHEAD data to FIPS compliant using FIPS compliant encryption algorithm. Added in 6.10

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.
4	Enter the database connection User ID.	Database connection

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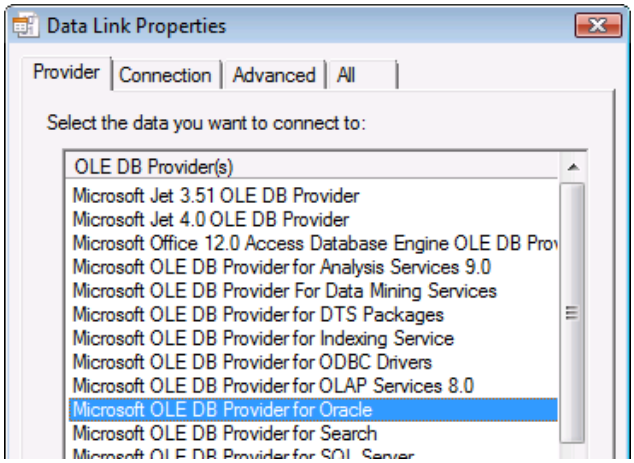
Step	User Input/Action	Expected Results
		User ID entered.
5	Select the Service pack. The file LW71Release.xsp updates the database from 7.0 to 7.1 Desktop format. Run the Update tool.exe using update files for all versions between your current and 7.1. Example, if upgrading from 6.6, then run the updatetool using LW67Release.xsp, LW68Release.xsp, LW69Release.xsp, LW610Release.xsp, LW70Release.xsp and LW71Release.xsp. 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.	Service pack selected and run.
6	Press the Connect button to create a connection to the database. • 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 connection.  Enter your Oracle service name as the server name, database connection username and password. Click Test Connection to confirm the connections.	Connection to the database is established.

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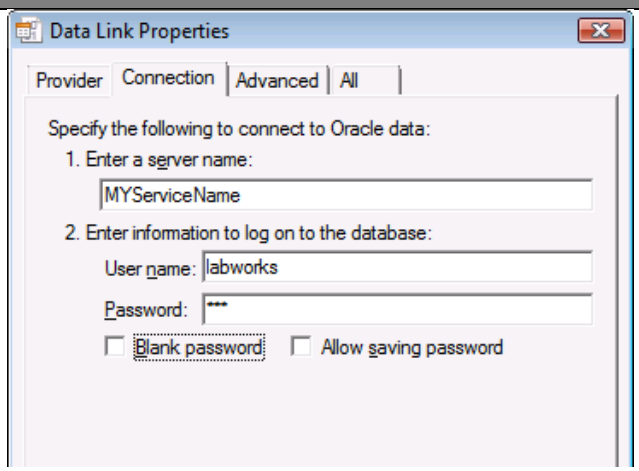
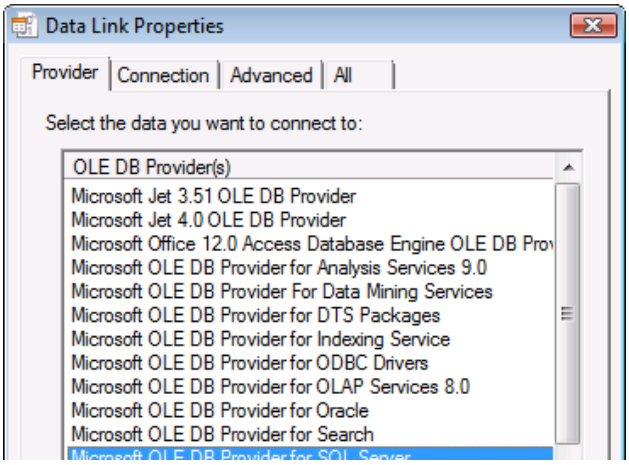
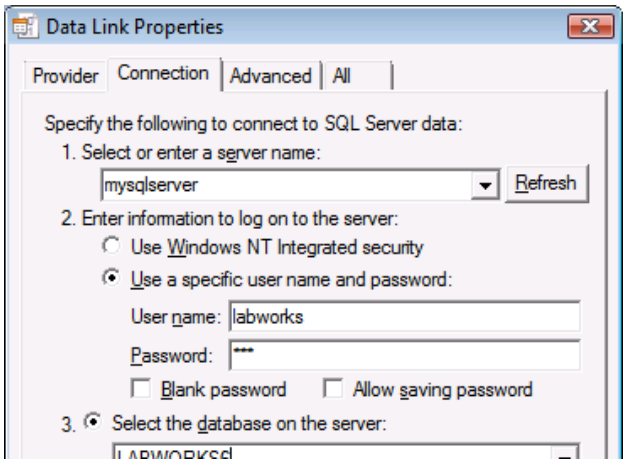
Step	User Input/Action	Expected Results
	 • For SQL Server databases, select the Microsoft OLEDB Provider for SQL Server provider and click 'Next'.  Enter your SQL Server name, database connection username and password, and the database name. Press 'Test Connection' to confirm the connection.  	

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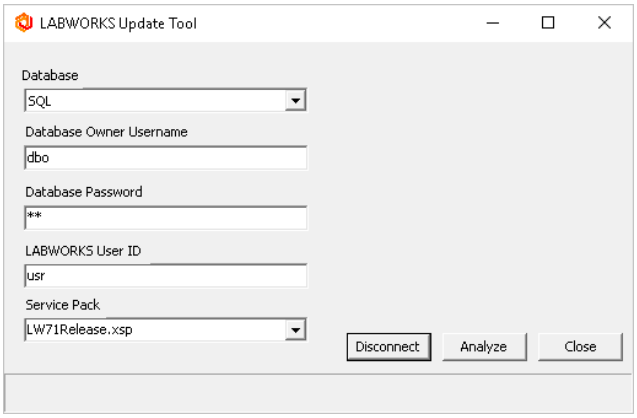
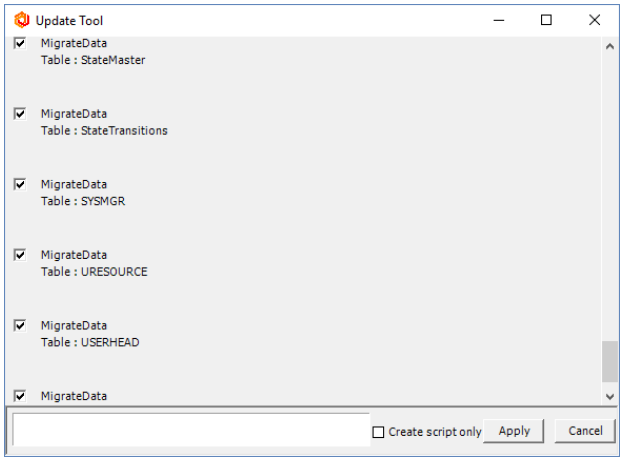
Step	User Input/Action	Expected Results
7	After the database connection is tested, press 'Analyze' to have the program identify the database modifications required.  The program gives a preview of the changes to be made. To apply the changes press 'Apply'.  If an error is encountered, the step that was unsuccessful appears in red. Clicking on the error message displays details about the error.	Database modifications are identified. Changes are applied.

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.	LWMigration Utility

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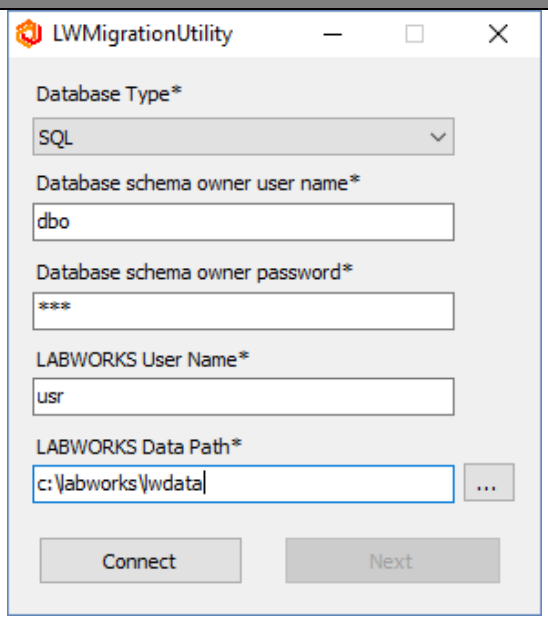
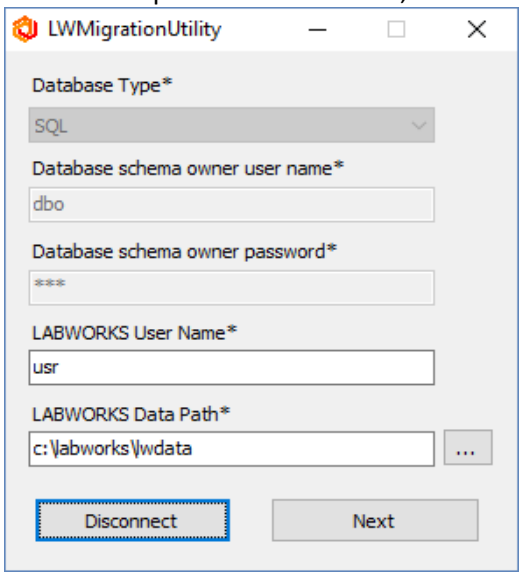
Step	User Input/Action	Expected Results
	 Database schema owner user name: When new tables are created using the update tool, tables will be added to this schema Database schema owner password: The database user password.	prompt is displayed.
2	Then, connect using the same information/parameters as when 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 Update Tool is presented.

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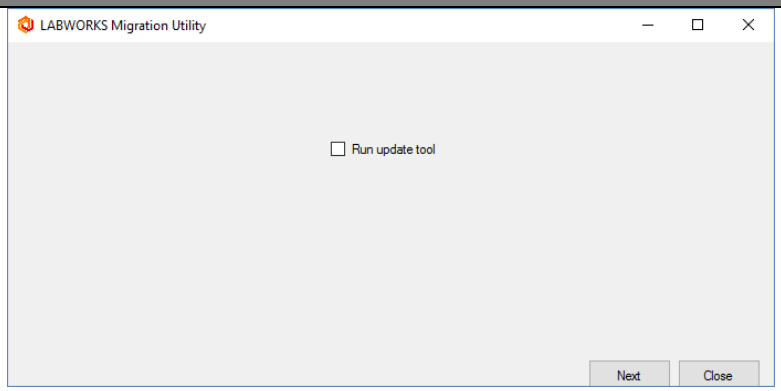
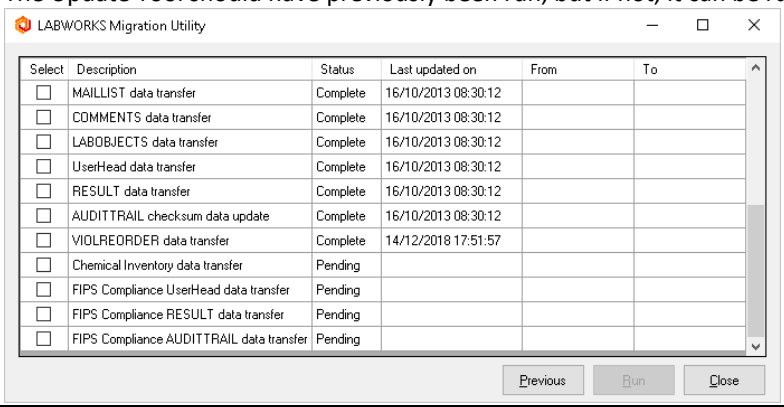
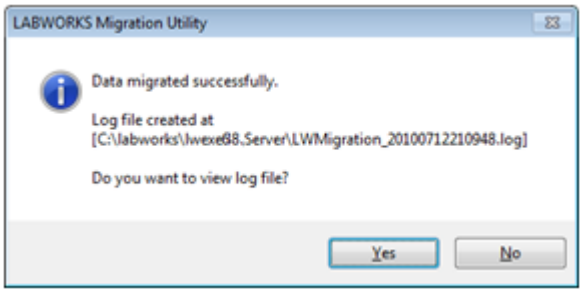
Step	User Input/Action	Expected Results
	 The Update Tool should have previously been run, but if not, it can be run at this time. 	If applicable, the Update Tool is run.

Select	Description	Status	Last updated on	From	To
☐	MAILLIST data transfer	Complete	16/10/2013 08:30:12		
☐	COMMENTS data transfer	Complete	16/10/2013 08:30:12		
☐	LABOBJECTS data transfer	Complete	16/10/2013 08:30:12		
☐	UserHead data transfer	Complete	16/10/2013 08:30:12		
☐	RESULT data transfer	Complete	16/10/2013 08:30:12		
☐	AUDITTRAIL checksum data update	Complete	16/10/2013 08:30:12		
☐	VIOLREORDER data transfer	Complete	14/12/2018 17:51:57		
☐	Chemical Inventory data transfer	Pending			
☐	FIPS Compliance UserHead data transfer	Pending			
☐	FIPS Compliance RESULT data transfer	Pending			
☐	FIPS Compliance AUDITTRAIL data transfer	Pending			

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 7.1, 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.



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.

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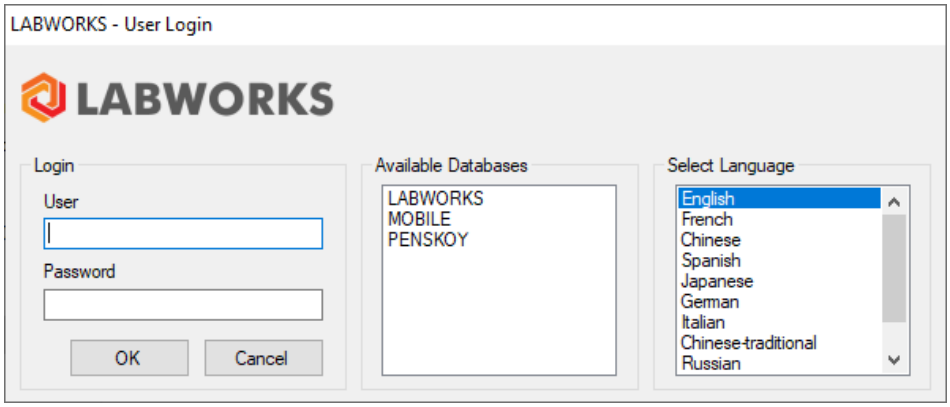
Migration: Persisted group to Log Batch

This kind of migration is required to update from 6.9 or earlier to 7.1 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	Authentication window is open.
	Select a database. Provide your login and password to access the database.  	NGMigration Tool window is open.
2	Select “Persisted group to log batch” tile.	The migration wizard runs.

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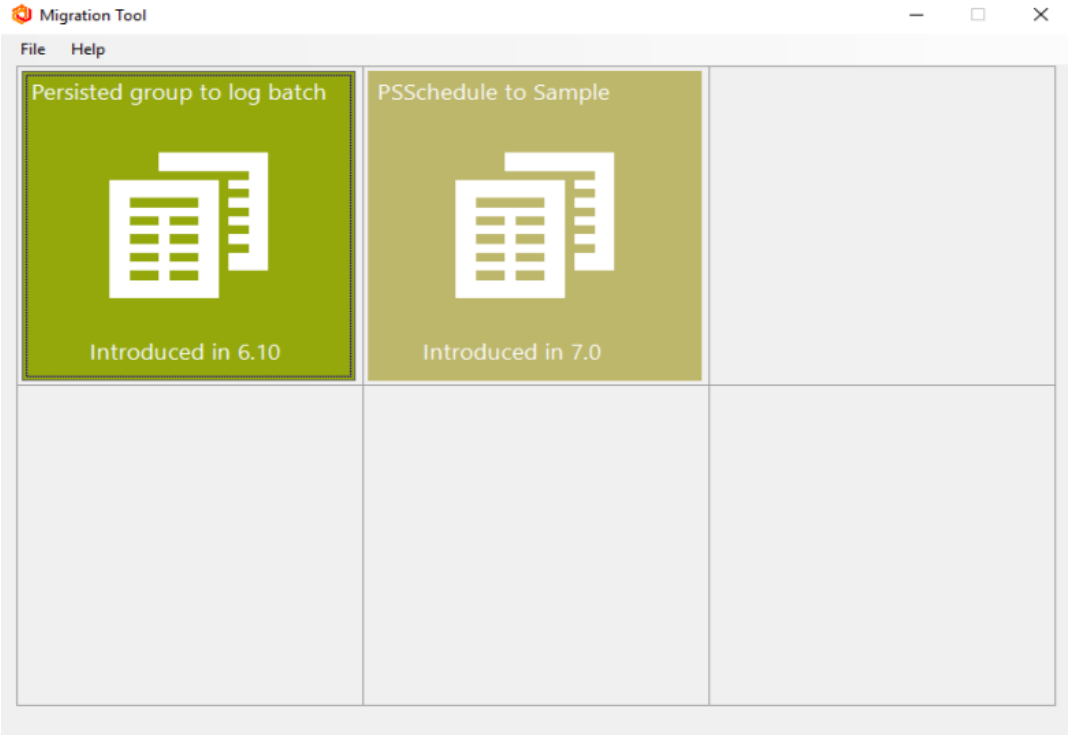
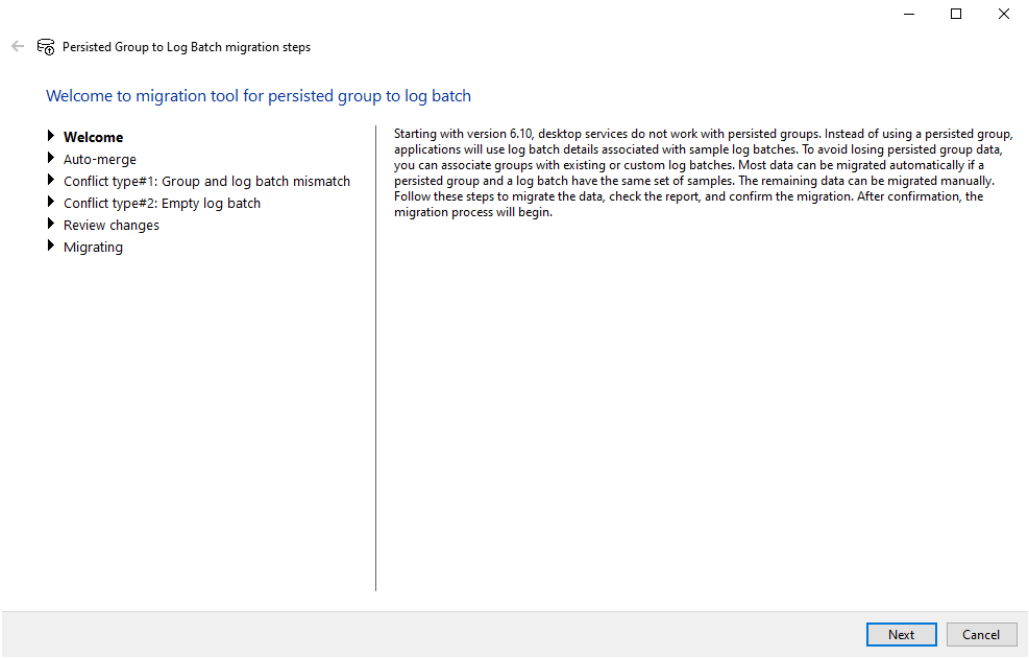
Step	User Input/Action	Expected Results
		
3	Read Welcome screen information. Click Next. 	Auto-merge screen is open.
4	Check Auto-merge information and click Next to continue.	Manual merge screen is open.

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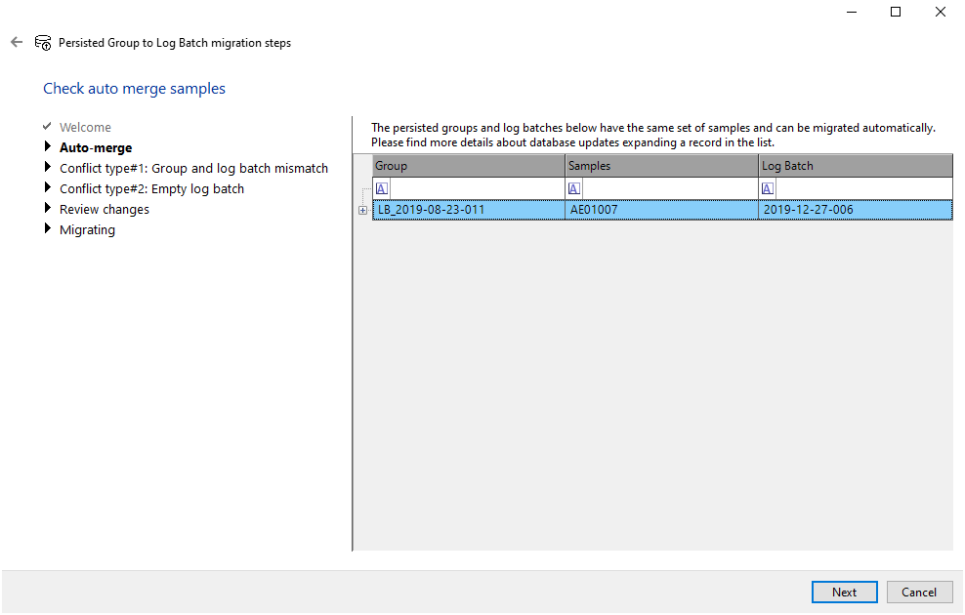
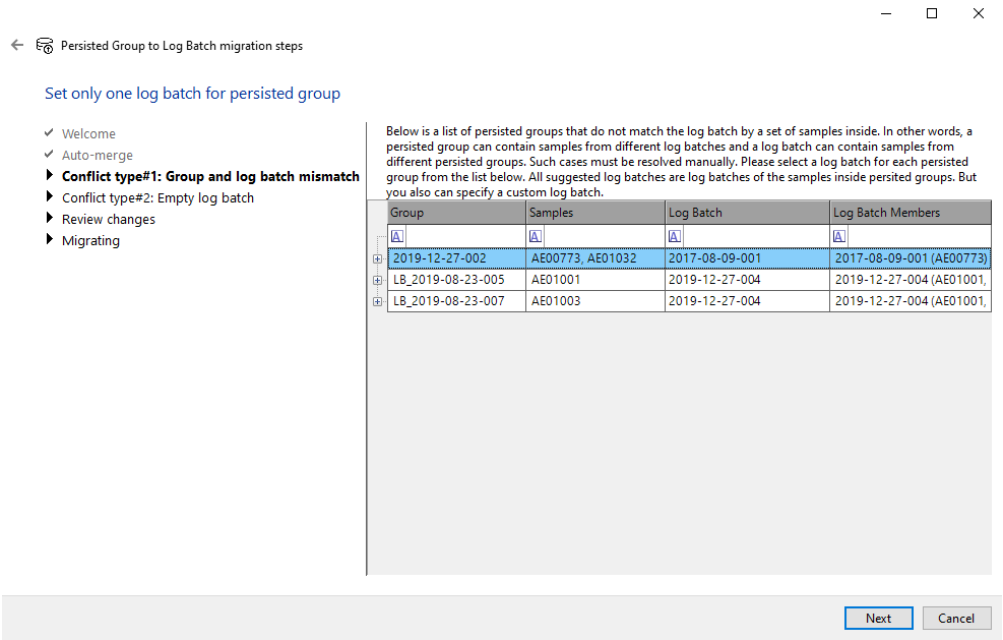
Step	User Input/Action	Expected Results
		
5	Resolve conflicts following the instructions in the tool. Click Next to continue. 	Report screen is open.

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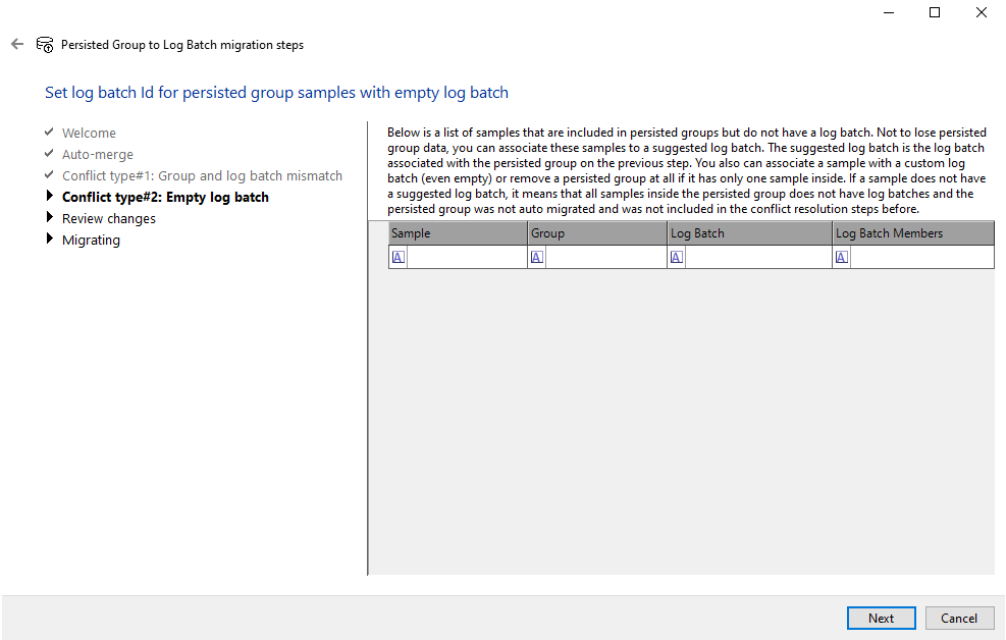
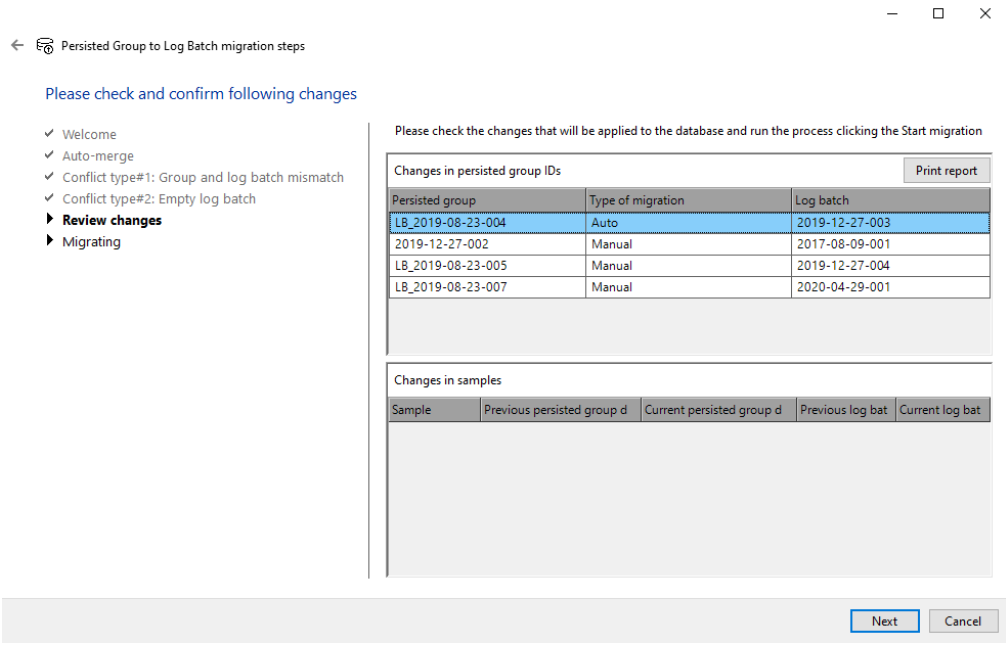
Step	User Input/Action	Expected Results
		
6	After configuring the migration, NGMigrationTool provides a report to check changes before the migration. Print report if it is needed. Check changes and click Next to start the migration. 	Progress screen is open.
7	After the migration completes, the information dialog will be shown. Print report if it is needed.	The wizard will be closed.

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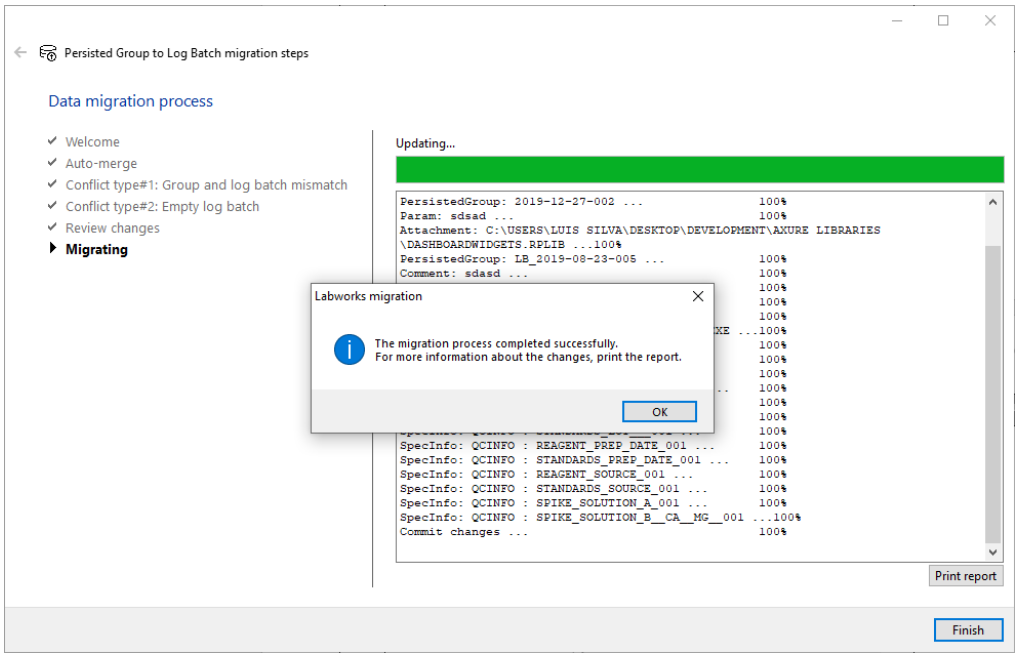
Step	User Input/Action	Expected Results
	Click Finish to finish the migration.  	

Migration: PSSchedule to Sample

This kind of migration is required to update from 6.10 or earlier to 7.1 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	Authentication window is open.
	Select a database. Provide your login and password to access the database.	NGMigration Tool window is open.

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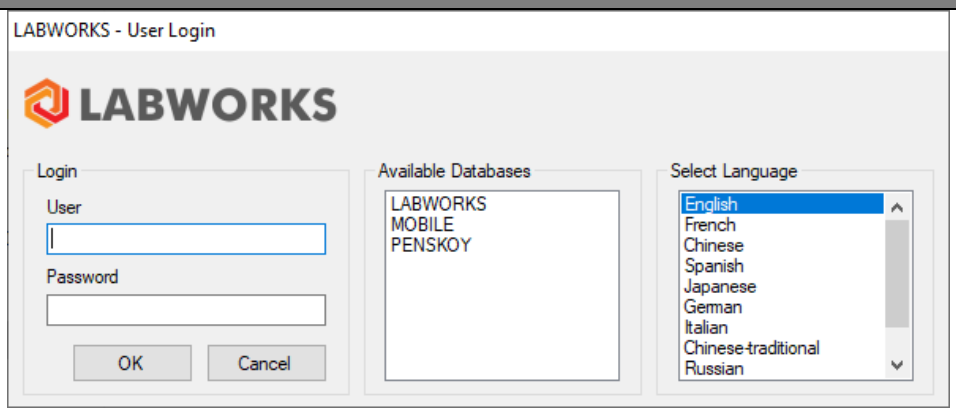
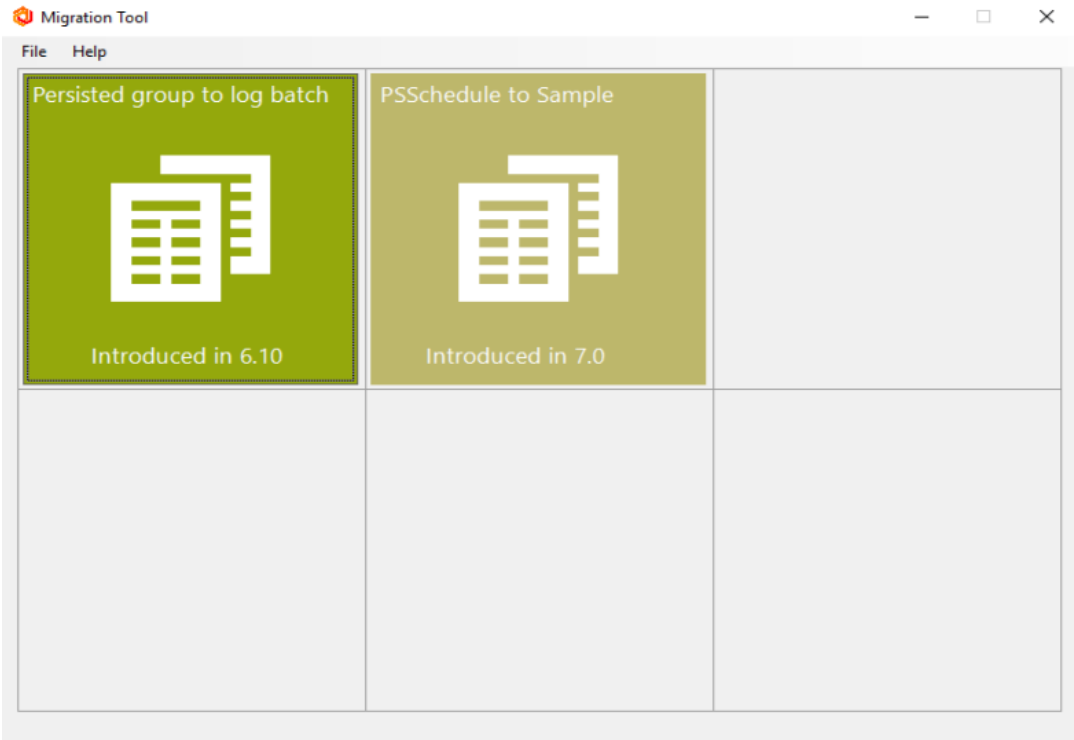
Step	User Input/Action	Expected Results
		
2	Select “PSSchedule to Sample” tile. 	The migration wizard runs.
3	It is strongly recommended to back up the data before performing a migration and will test the migration on a test environment before applying it in production. Make sure that the necessary measures are taken, check all checkboxes in the dialog, and click Proceed.	Migration Warning dialog is open.

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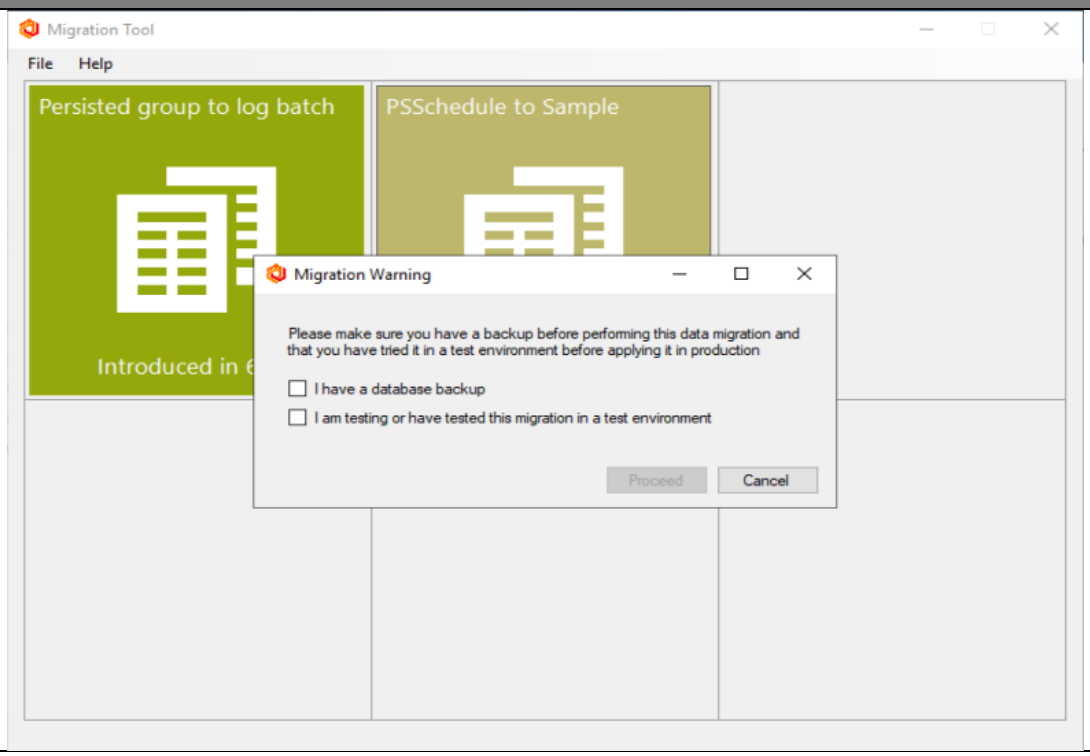
Step	User Input/Action	Expected Results
		

4	Read Welcome screen information. Select a migration option. Click Start.
	
	There are two migration options:
	• Option#1: Do not apply the workflow architect rules (Safe)
	  ○ This means that the statuses of the samples will be transferred according to the map, but the rules of the automatic workflow architect will not be applied. That is, the statuses before and after migration will be expected for users. That is why this is a safe option. For details on the migration map, see the **Status migration map** section below. The workflow architecture rules are defined in the State Management application.
	  ○ After migration, the statuses of the samples may not follow the rules of the workflow architect, but as soon as the user makes any changes to the sample, its status will be recalculated based on these rules. Such automatic transitions may be unexpected for the user because they are not related to his/her actions. They just were not initially made in accordance with the rules but were made later to restore the status transition process.
	• Option#2: Apply the workflow architect rules (Recommended)
	  ○ Aside from sample status transition, the workflow architect rules will be applied. All sample statuses will be fit to the workflow architect rules. After sample data changing, there will no unexpected transitions for sample statuses. That is why this is a recommended option.
		Migration process screen is open.

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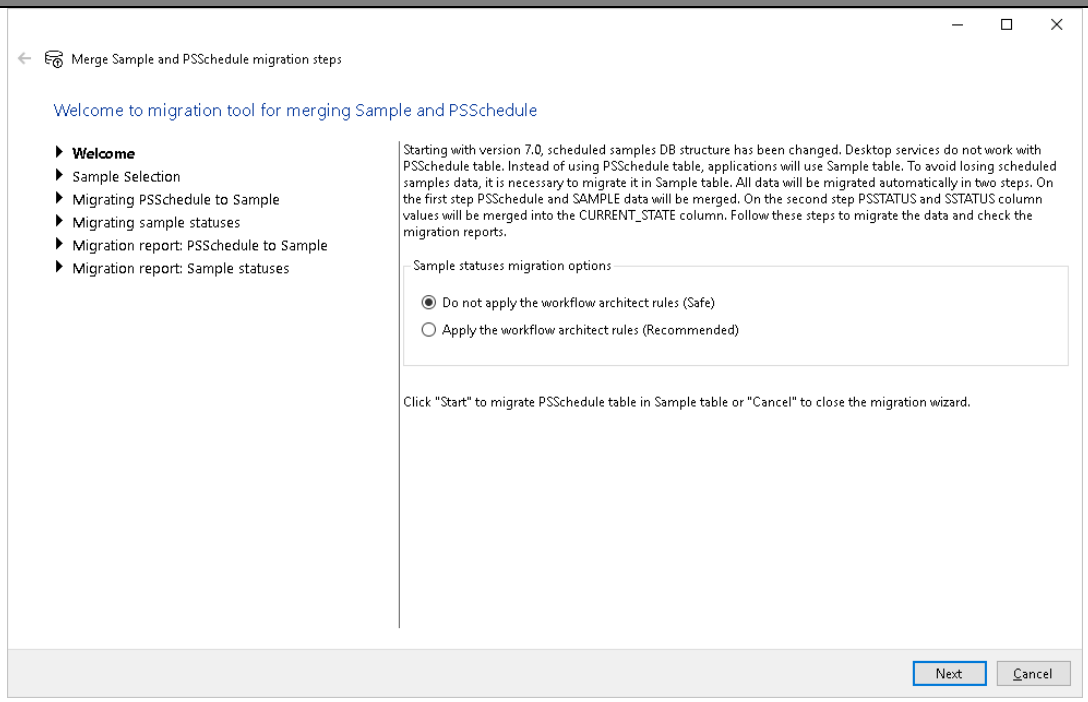
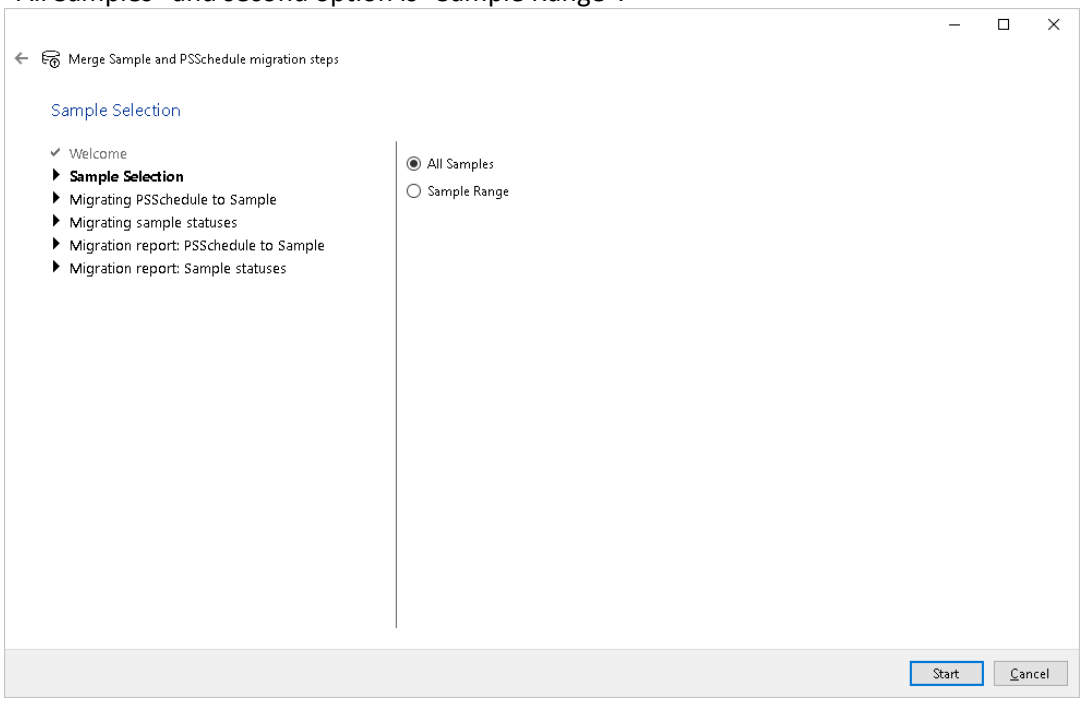
Step	User Input/Action	Expected Results
		
5	The first migration step is to select samples to migrate the PSSCHEDULE table into the SAMPLE. In Sample Selection tab there are two option for sample selection, first option is “All Samples” and second option is “Sample Range”.  OR	Message with migration status is shown.

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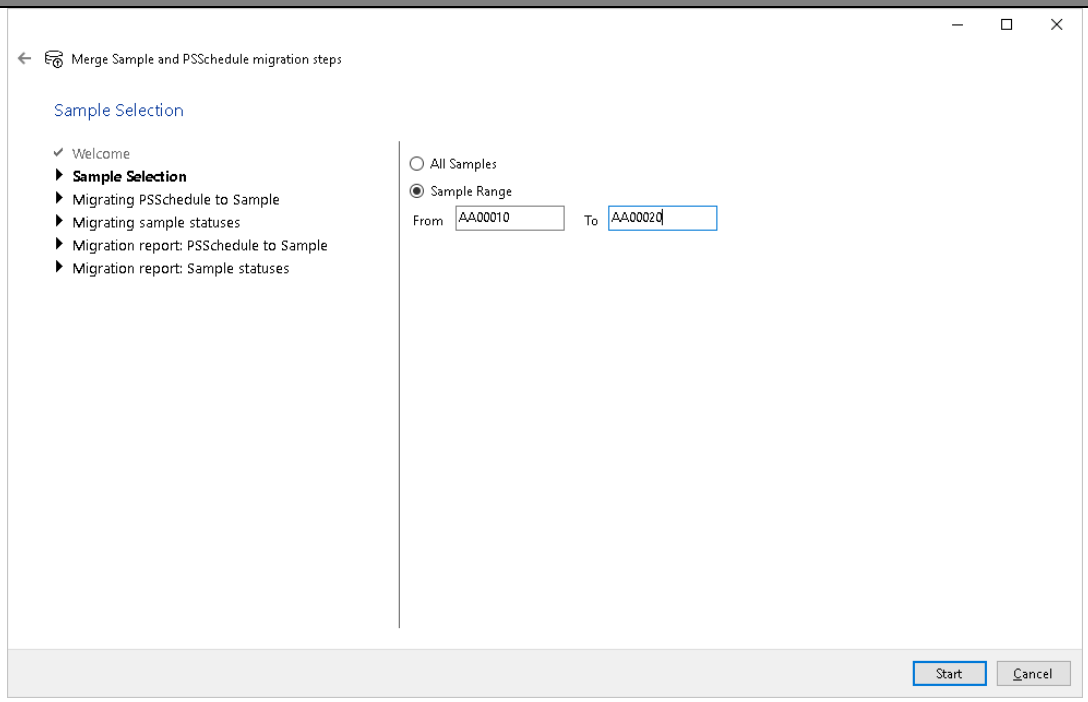
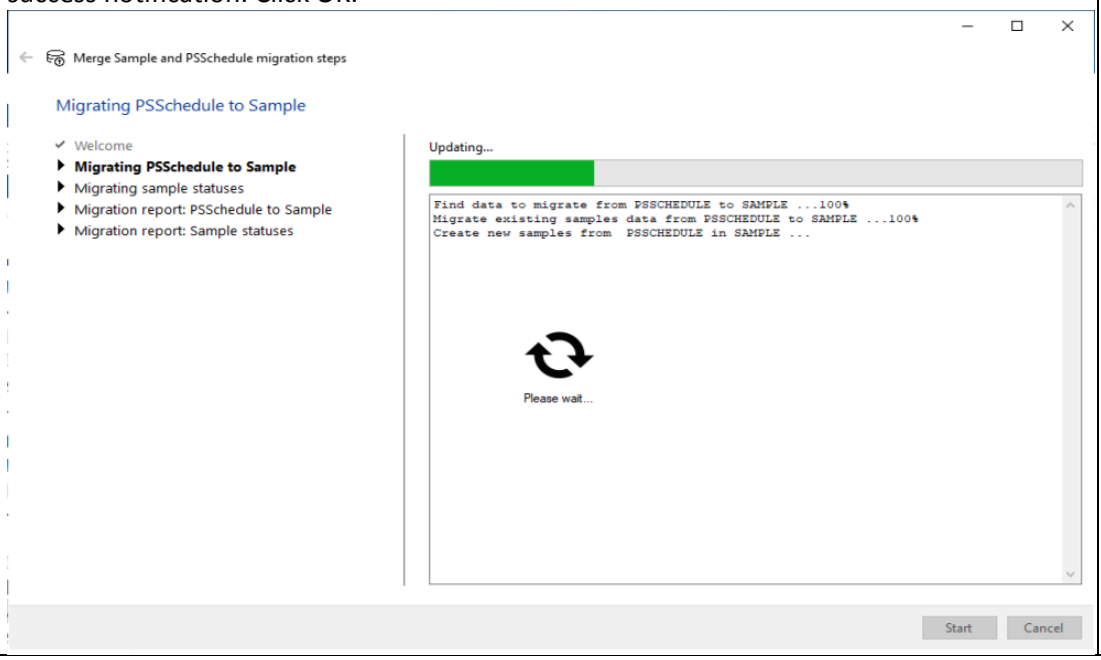
Step	User Input/Action	Expected Results
	 Migration will be done automatically. The first migration step is to migrate the PSSCHEDULE table into the SAMPLE one. Please wait when it is finished. You will receive a success notification. Click OK. 	

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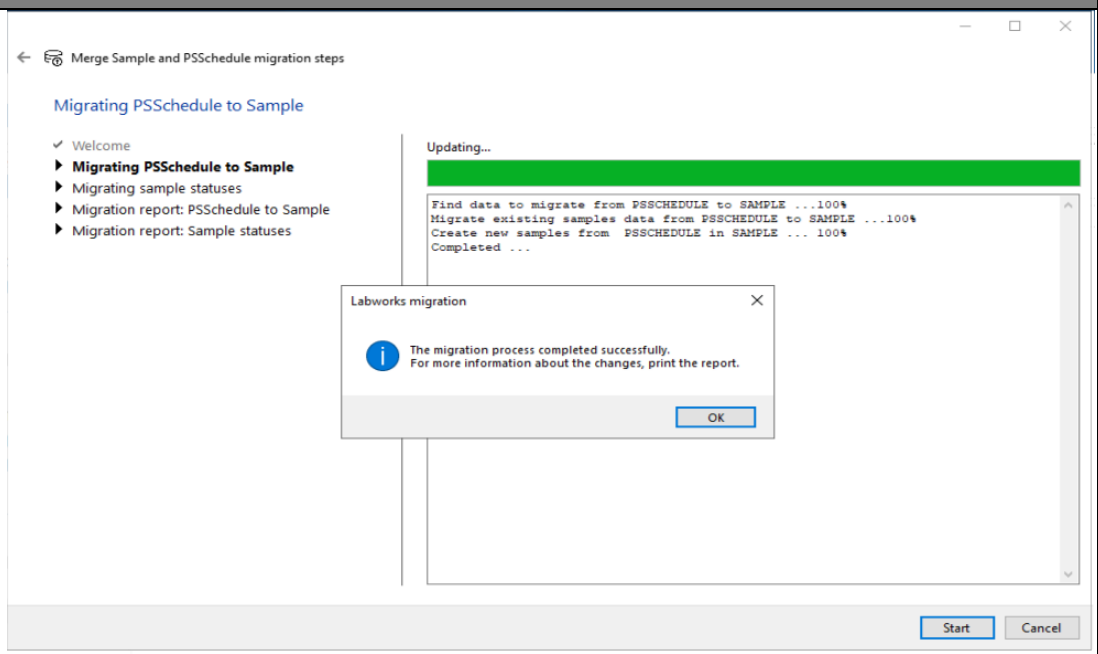
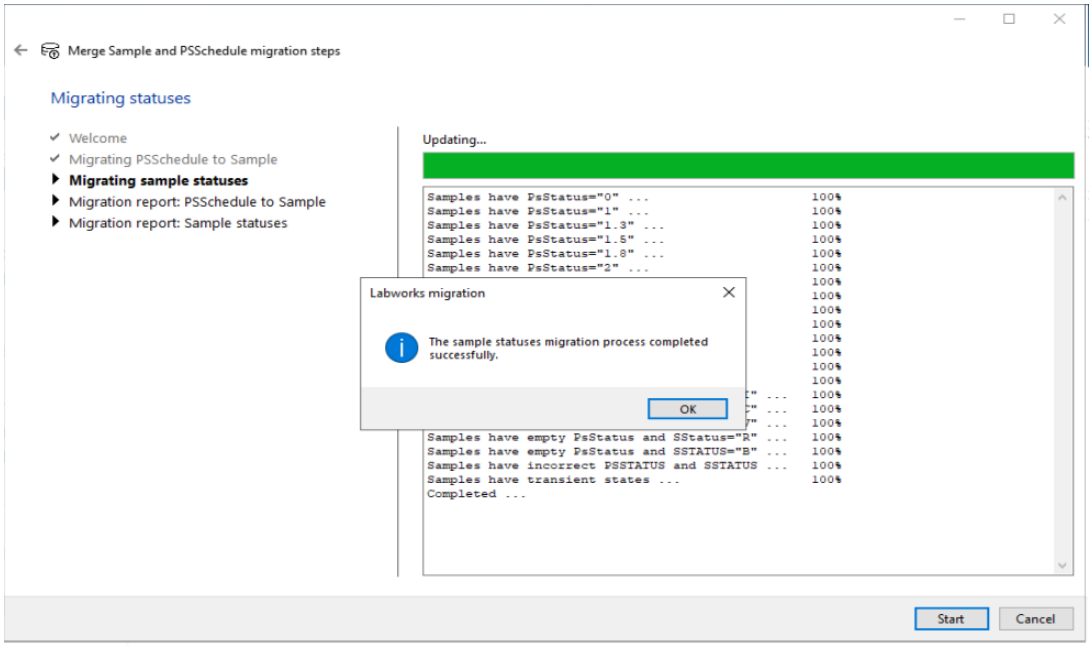
Step	User Input/Action	Expected Results
		
6	The next step is to migrate sample statuses based on the selected option. It will be done automatically. Please wait when it is finished. You will receive a success notification. Click OK. 	Message with migration status is shown.
7	Check the table migration result. Print report if it is needed. If an error is occurred, check the error details using “Error” hyperlink in Status column.	Migration is finished.

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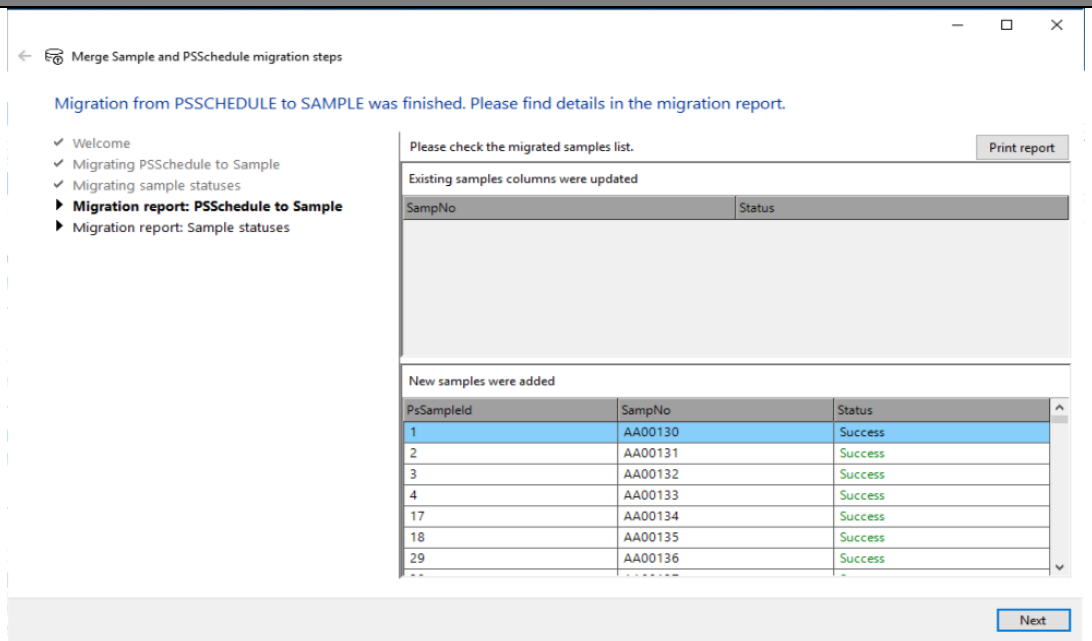
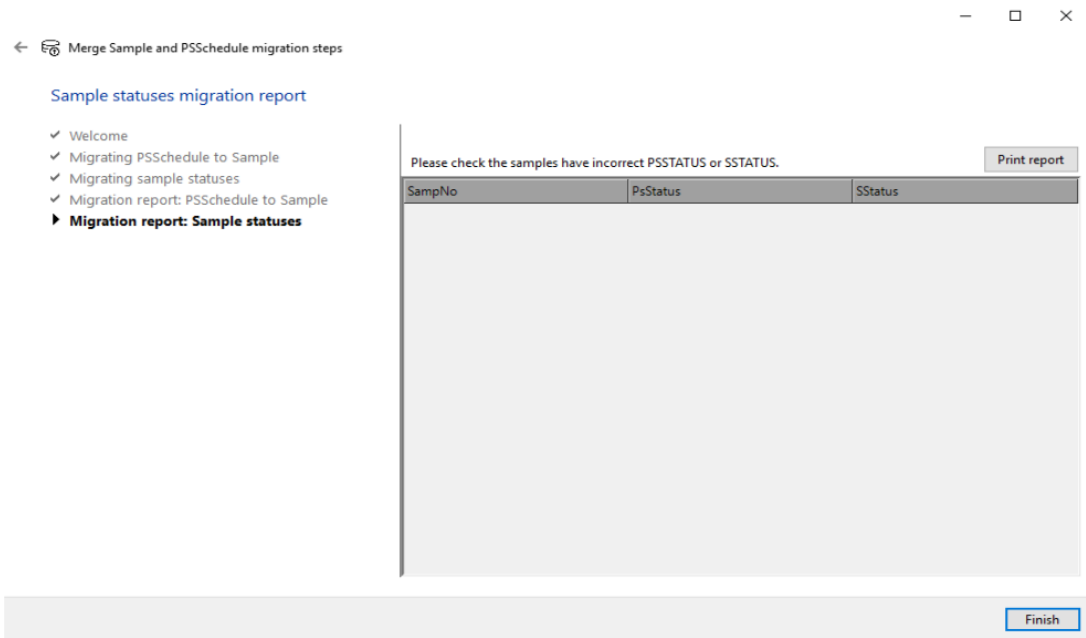
Step	User Input/Action	Expected Results
	 ***Note:*** *If an error has occurred, the sample is not migrated. So, to migrate this sample need to fix an error in this sample data using LWDesktop apps and run the migration wizard one more time.*	
8	Check the sample statuses migration result. Print report if it is needed.  ***Note:*** *If an error has occurred, the sample is displayed in the list and not migrated. So, to migrate this sample need to fix an error in this sample data using LWDesktop apps and run the migration wizard one more time.*	Migration is finished.
9	Click Finish to close the migration wizard.	The wizard will be closed.

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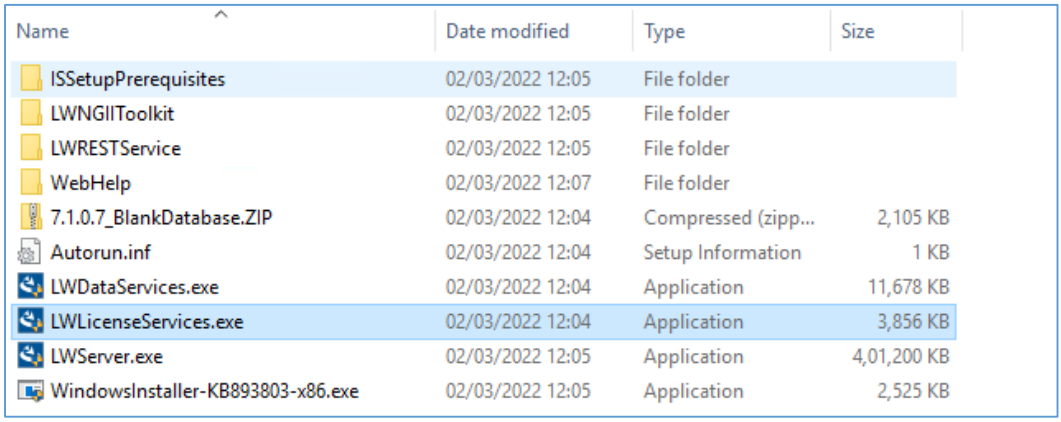
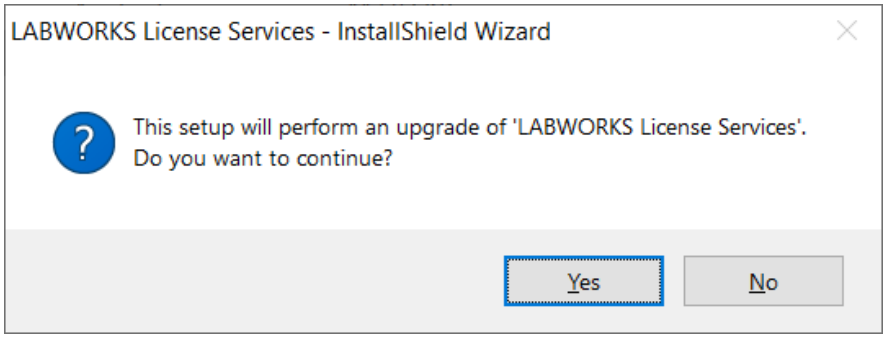
3. LABWORKS License Services upgrade

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



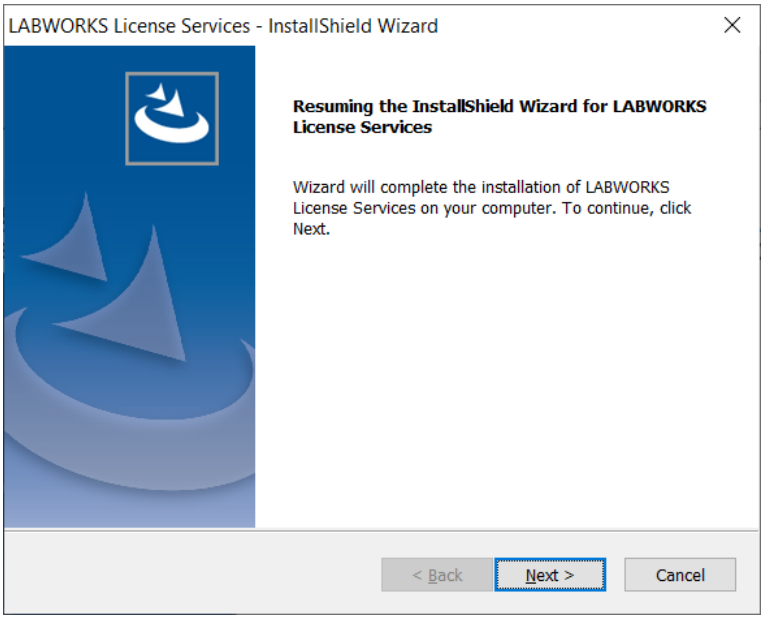
Name	Date modified	Type	Size
ISSetupPrerequisites	02/03/2022 12:05	File folder	
LWNGIIToolkit	02/03/2022 12:05	File folder	
LWRESTService	02/03/2022 12:05	File folder	
WebHelp	02/03/2022 12:07	File folder	
7.1.0.7_BlankDatabase.ZIP	02/03/2022 12:04	Compressed (zipp...	2,105 KB
Autorun.inf	02/03/2022 12:04	Setup Information	1 KB
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.



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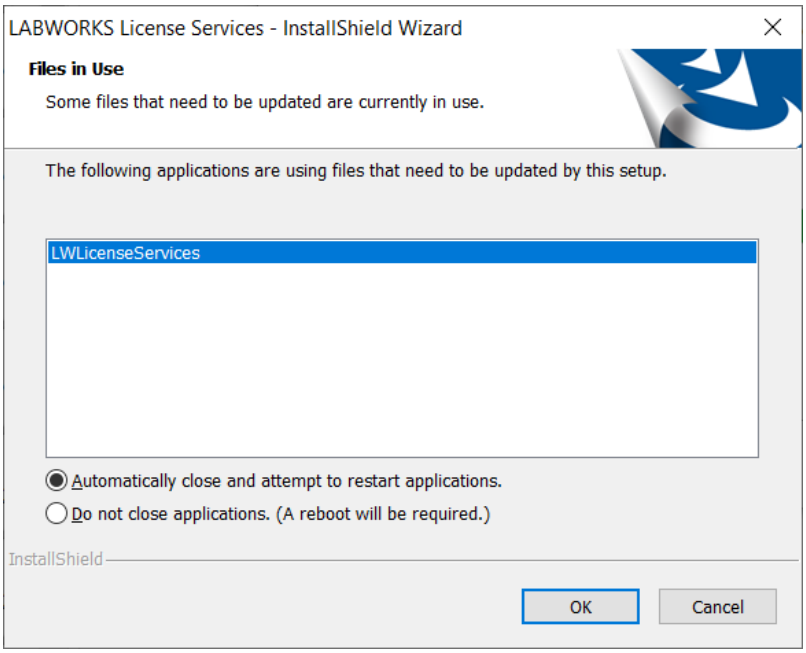
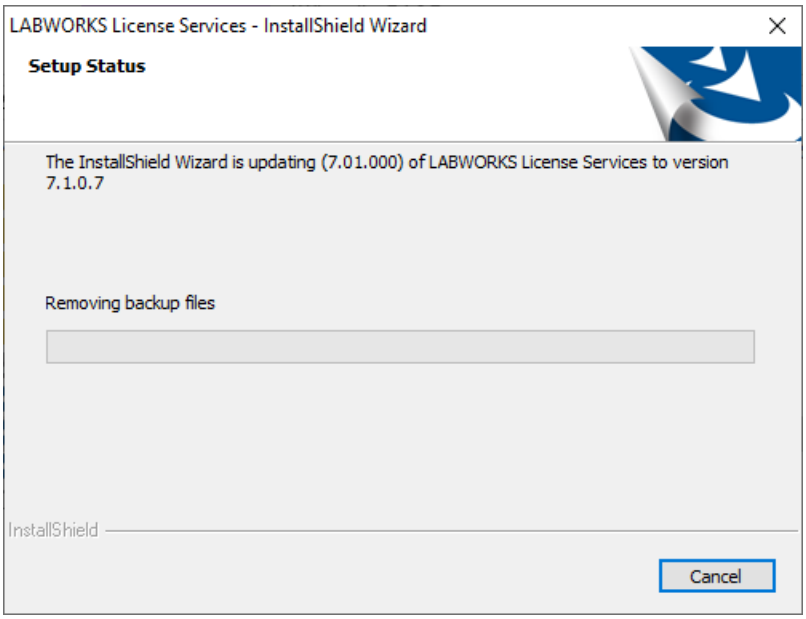
e. Click on “Next” button to continue with the LABWORKS License Services upgrade. If License service is running then below confirmation message will appear.



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.



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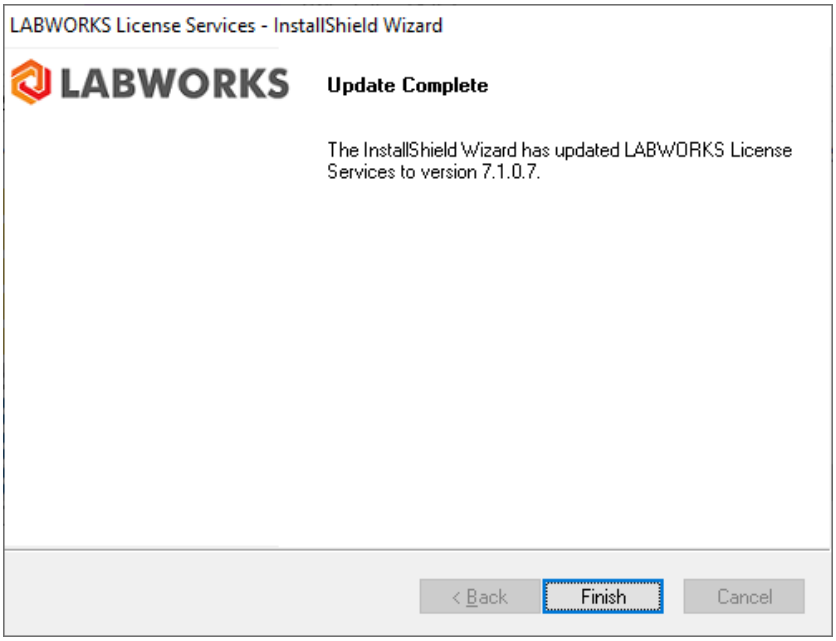
g. After completing LABWORKS License Services upgrade below confirmation window will appear.



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

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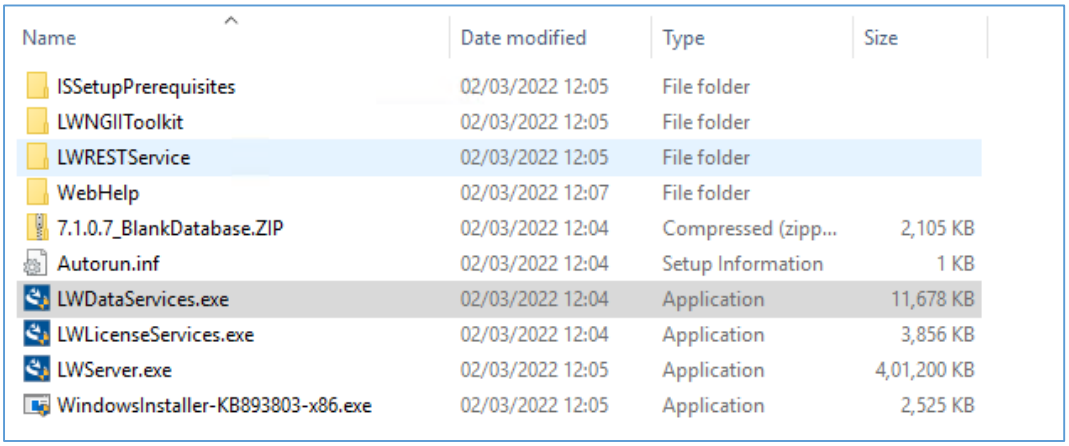
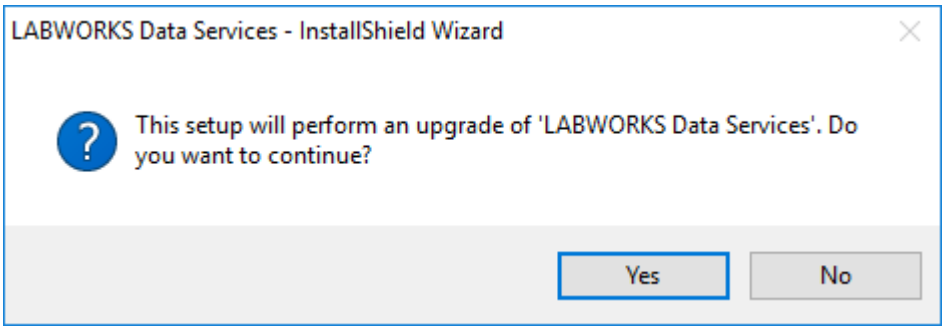
4. LABWORKS Data Services upgrade

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



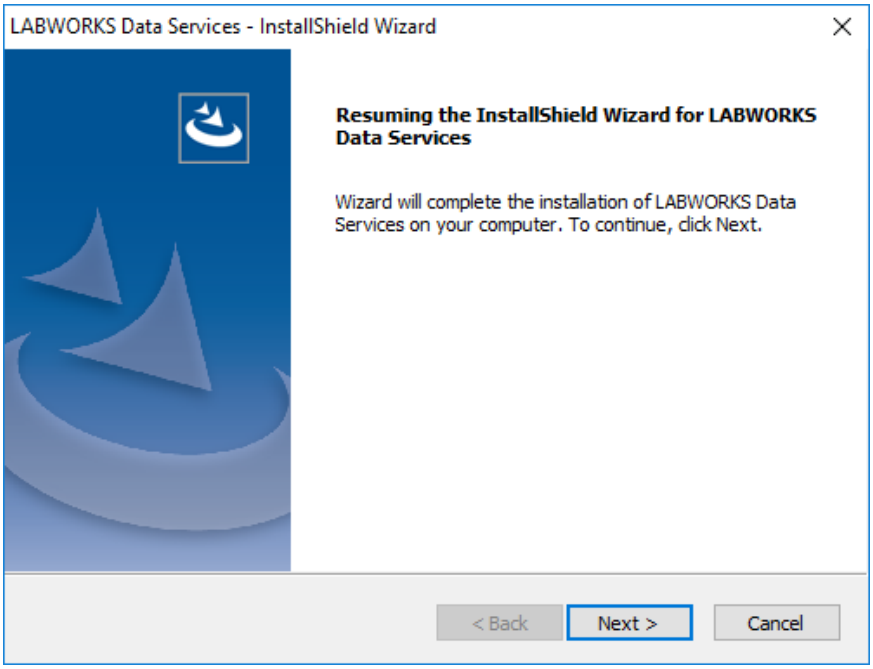
Name	Date modified	Type	Size
ISSetupPrerequisites	02/03/2022 12:05	File folder	
LWNGIIToolkit	02/03/2022 12:05	File folder	
LWRESTService	02/03/2022 12:05	File folder	
WebHelp	02/03/2022 12:07	File folder	
7.1.0.7_BlankDatabase.ZIP	02/03/2022 12:04	Compressed (zipp...	2,105 KB
Autorun.inf	02/03/2022 12:04	Setup Information	1 KB
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 Data Services upgrade.

d. LABWORKS Data Services upgrade will start. Refer below screen capture.



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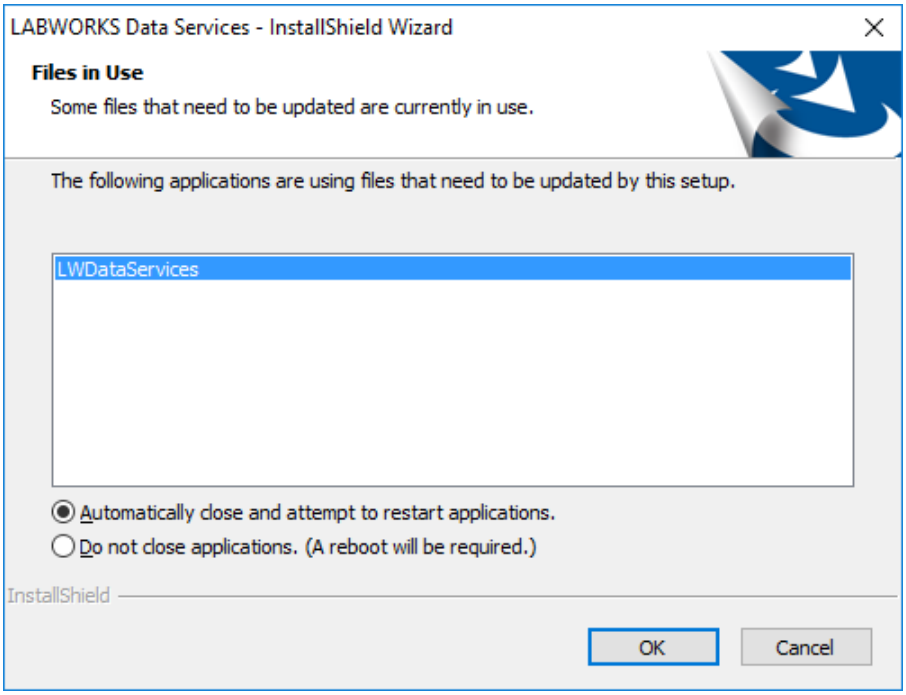
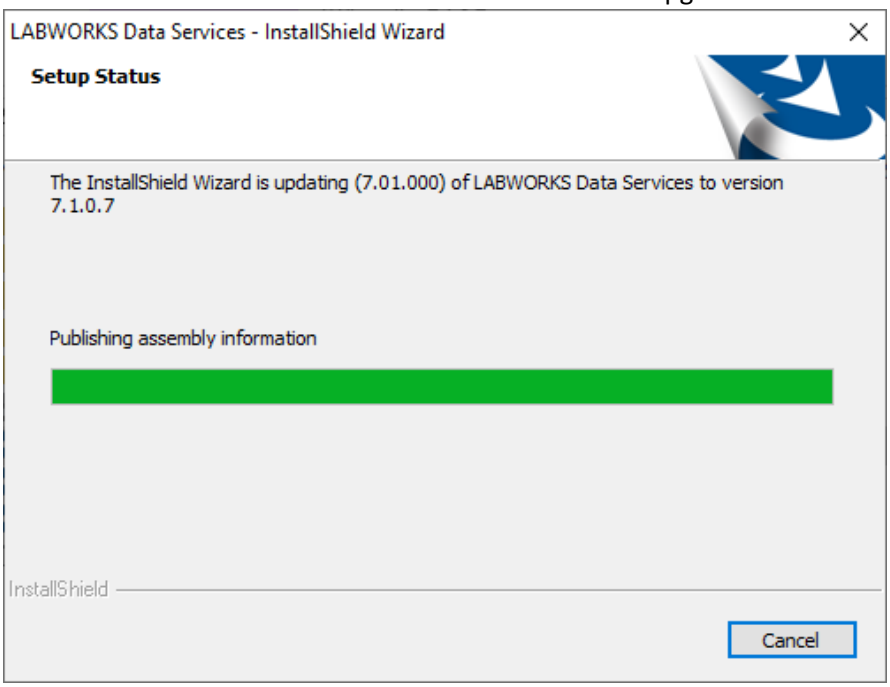
e. Click on “Next” button to continue with the LABWORKS Data Services upgrade. If Data service is running then below confirmation message will appear.



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.

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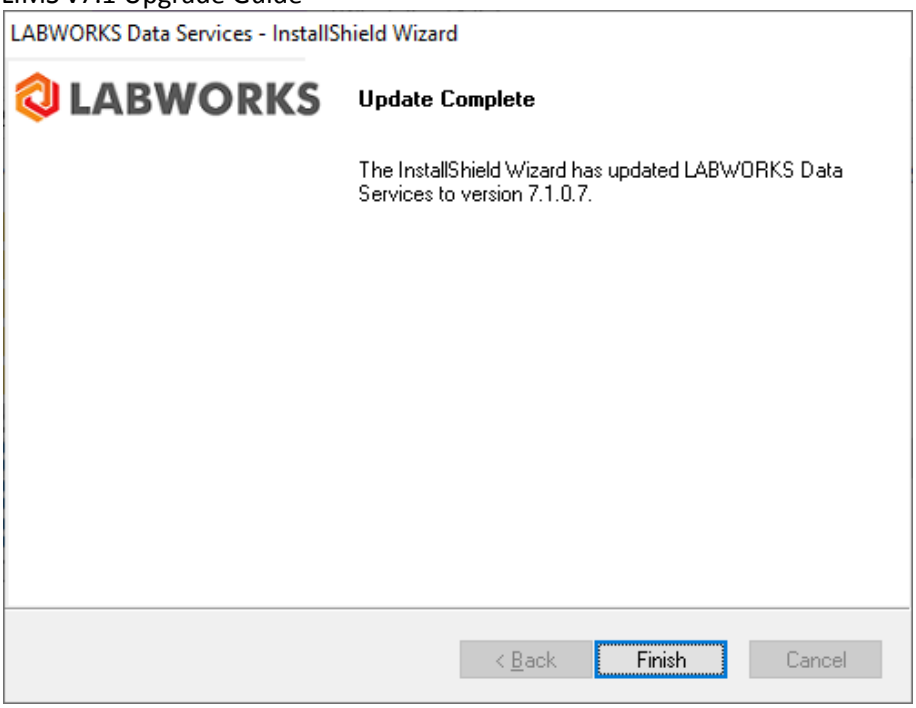

h. Click on “Finish” button to close the LABWORKS Data Services upgrade installer.

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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	Type	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		
WebHelp	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.

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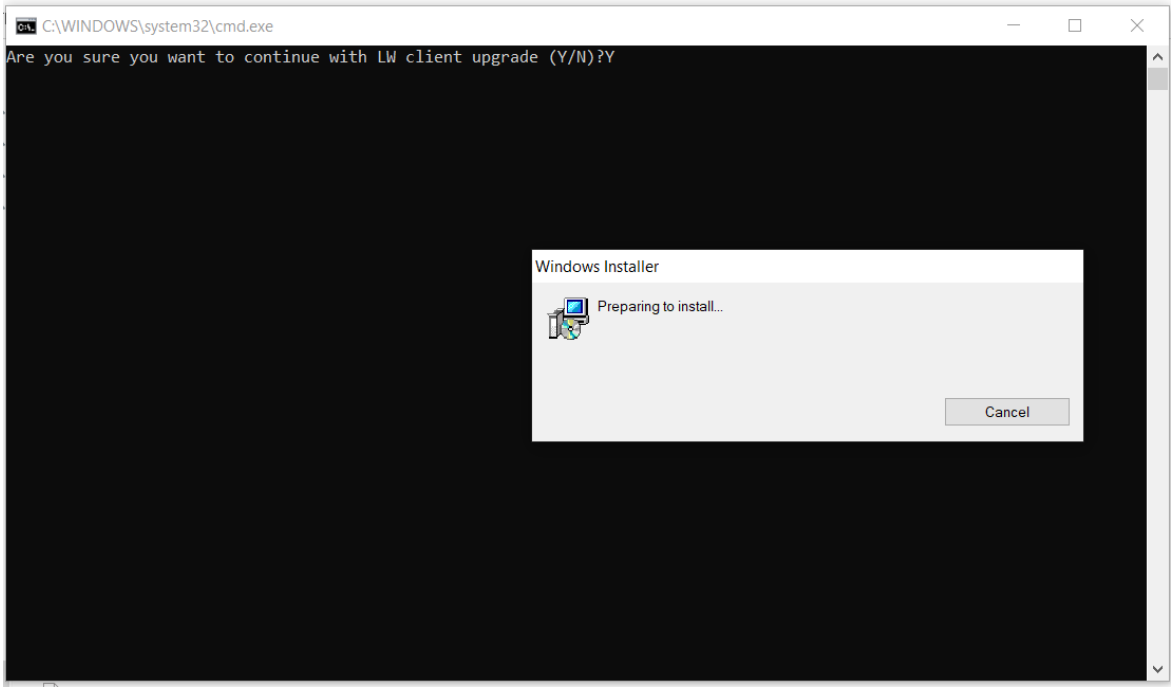
Name	Date modified	Type	Size	File version
Server	02/03/2022 12:35	File folder		
syscfg	02/03/2022 12:35	File folder		
Updates	02/03/2022 11:27	File folder		
WebHelp	02/03/2022 11:27	File folder		
ApplicationSpec.xml	02/03/2022 11:37	XML Document	1 KB	
ClientApp.config	01/27/2022 02:19	CONFIG File	5 KB	
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

LABWORKS Client upgrade will start. Refer below screen capture



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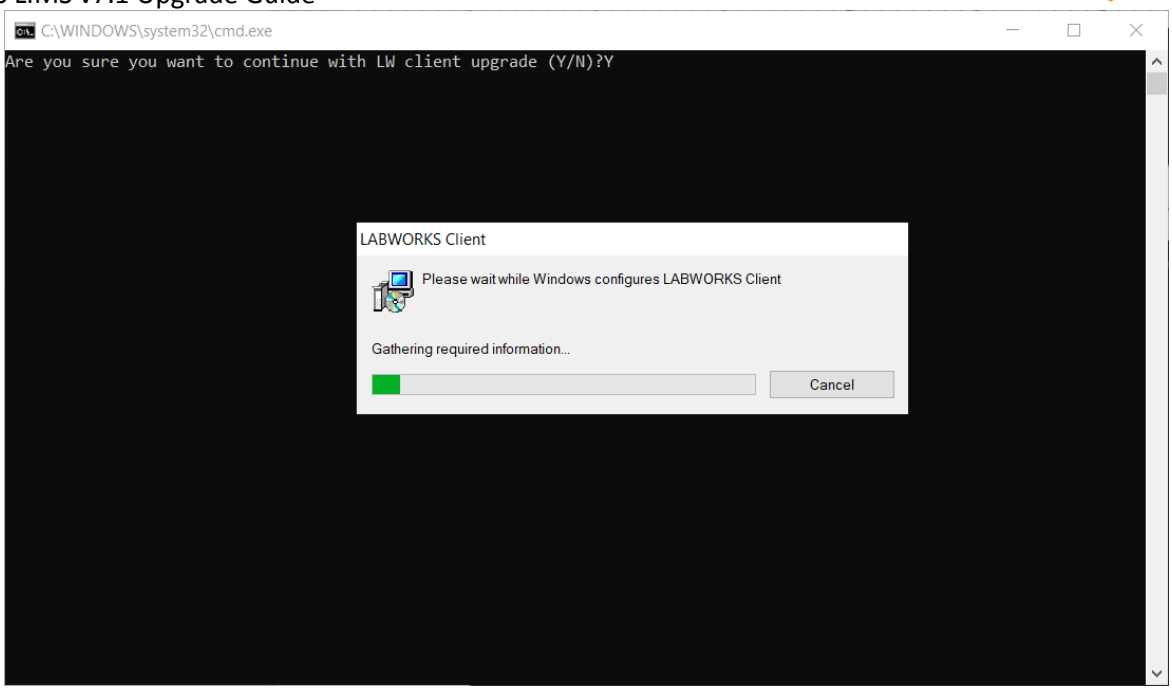
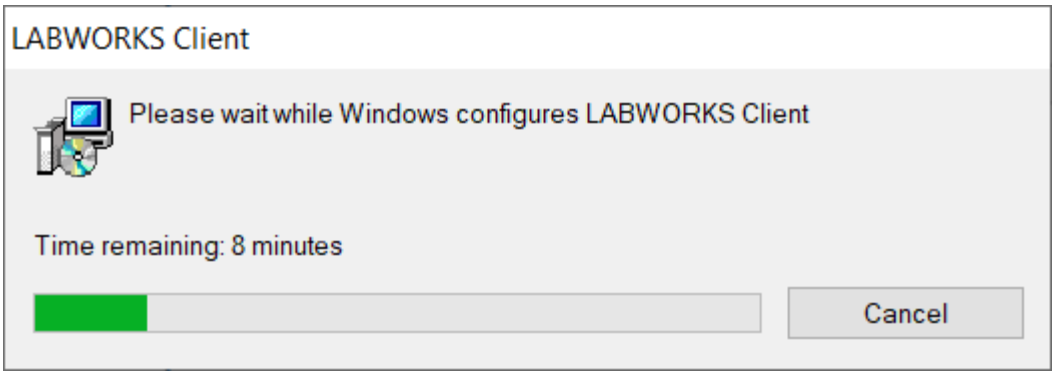
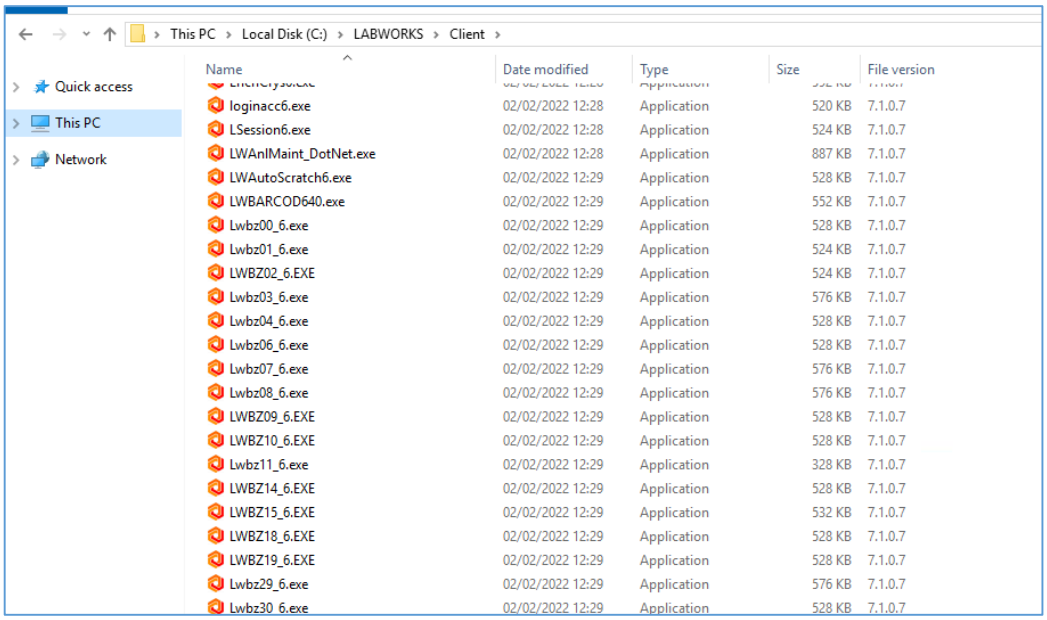




c. Click on “Finish” button to close the LABWORKS Client upgrade installer.



d. After LABWORKS Client upgrade need to reconfigure “**ApplicationSpec.xml”** file.

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