# HyDraw Library 2022 Database Migration

Access (2000) to MS SQL (2012 or higher)

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#### Contents

Prerequisites	3
Default Location of HyDraw Library Access database files (*.mdb)	4
Prepare HyDraw Library Access databases files (mdb) for Migration	4
Create New Databases	5
Migrate HyDraw Library	7
Migrate Symbol Data	13
Migrate Subsystem Data	18

# Prerequisites

- 1. Microsoft Access 2010 or higher.
- 2. Microsoft SQL Server Migration Assistant for Access.



Microsoft SQL Server Migration Assistant for Access

- 3. Microsoft SQL Express 2012 or higher.
- 4. Microsoft SQL Server Management Studio 2012 or higher.
- 5. Microsoft<sup>®</sup> OLE DB Driver 18 for SQL Server<sup>®</sup> x 64 version: <u>Download Microsoft OLE DB Driver for SQL Server OLE DB D</u>

Default Location of HyDraw Library Access database files (*	.mdb)
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HyDraw Library Access Database Files	Default Location
ComponentData.mdb	
GeometryData.mdb	
HyDrawData.mdb	
HyDrawDataMigration.mdb	C:\VEST\HyDraw Library 2022\Data
ManifoldManufacturing.mdb	
SymbolBuilder.mdb	
DemoGenericData.mdb	C:\VEST\HyDraw Library 2022\Symbol Library\Demo Symbols\MenuData
ElectricalGenericData.mdb	C:\VEST\HyDraw Library 2022\Symbol Library\Electrical Symbols\MenuData
HydraulicGenericData.mdb	C:\VEST\HyDraw Library 2022\Symbol Library\Hydraulic Symbols\MenuData
PneumaticGenericData.mdb	C:\VEST\HyDraw Library 2022\Symbol Library\Pneumatic Symbols\MenuData
SubsystemData.mdb	C:\VEST\HyDraw Library 2022\Subsystems\MenuData

## Note:

- If you use any Custom libraries or Child libraries in HyDraw then you also need to migrate these databases.
- The path may vary, if you use an upgraded library from a previous version of HyDraw with custom location.

# Prepare HyDraw Library Access databases files (mdb) for Migration

- 1. Open ComponentData.mdb in Microsoft Access.
- 2. Right-click the **PortSize** table and select **Design View** menu.
- 3. Select PortSize field name and change the indexed property to Yes (Duplicates OK).
- 4. Select PortCode field name and change the indexed property to Yes (Duplicates OK).
- 5. Click **Close** and save the changes.

B	5· ở· =		Table Tools				Acces	s
File	Home Create External Data Da	atabase Tools Help	Design		nat you want to do			
View View	Primary Builder Test Validation Key Rules Tools	s vs okups Sheet Show/Hide	Create Dat Macros ~ Field, Recor	a Rename/ Delete Macro d & Table Events	Relationships Relationships Relationsl	Object pendencies hips		
Tak	les ® «			PortSize		- 0	×	
	ComponentThruDriveMount	Field Na	ame	Dat	а Туре		PortSize	
		V PortSizeID		AutoNumb	er	Cield New	Det	Turne
	ComponentThruShaftDiameter	PortSize		Short Text	~	PortSizeID	ne Dat	a Type
	ComponentThruShaftKeySize	Description		Short Text		PortSizeiD	Short Toxt	er
	ComponentThruShaftLength	PortTypeID		Number		Description	Short Text	
	ComponentTorque	RatedPressure	<b>F</b> 1	Number		PortTypeID	Number	
-	Component Transformer	PressureLineMax	FIOW	Number		RatedPressure	Number	
	ComponentlypeGroup	Cavity Costorint N	ow	Number		PressureLineMaxE	low Number	
	ComponentTypes	DertCode	ame	Short Text		ReturnLineMaxFlo	w Number	
	ComponentUnloadingDifferential	Mounting		Short Text		CavityFootprintNa	me Number	
	ComponentVentSpringPressure	NominalID		Number		PortCode	Short Text	~
-	ComponentVoltage	WithOring		Yes/No		Mounting	Short Text	
	e an	WithThroughBolt	Holes	Yes/No		NominalID	Number	
	ComponentVolume					WithOring	Yes/No	
	ComponentWidth					WithThroughBoltH	Ioles Yes/No	
	Cushions							
	CylinderMount							
	DesignProperties							
	DisplayProperties							
	DisplayPropertyInfo							
	Document							
	DocumentDescription							
	DocumentMainFolders							
	DocumentSubFolders							
	Frequency			Field Pro	perties			
	ItemType	General Lookus					Elaid Dec	martiar
-	Lact IsedPropertyID	Field Size	50				Field Pro	operties
	castoscanopertylo	Format				General Lookup	1	
	LinkedCatalog	Input Mask				Field Size	50	
	Manufacturer	Caption Default Value	-		An index cheed	Input Mask	-	
	NominalSize	Validation Rule			the field, but	Caption		
	Paste Errors	Validation Text			'Yes - No Dup	Default Value		An index speed
	Dart Darian Dramatic	Required Allow Zero Length	Yes		values in the	Validation Text		"Yes - No Du
	ronoesignificipenty	Indexed	Yes (Dupli	cates OK) 🔍		Required	No	values in the
	PortDisplayProperties	Unicode Compression	No Vac (Dent	instan OK		Allow Zero Length	Yes Yes (Duplicates OK)	
	PortDisplayPropertyInfo	IME Mode	Yes (No D	uplicates)		Unicode Compression	No	
	PortProperty	Text Align	General			IME Mode	Yes (Duplicates OK)	
	PortSize					Text Align	General	
	PortSymbols							

6. Open all the \*.mdb files, sequentially and delete Paste Errors tables and Queries, if it exists.

# **Create New Databases**

Create new databases in MS SQL 2012 or higher and use Management Studio 2012 or higher with the following names:

- 1. HyDrawData
- 2. DemoGenericData
- 3. ElectricalGenericData
- 4. HydraulicGenericData
- 5. PneumaticGenericData
- 6. SubsystemData

## Note:

If you use any Custom libraries or Child Libraries in HyDraw then you will also need to recreate these databases in SQL with the same name as in the HyDraw Library (Access database).

1. In the Management Studio, after connecting to the SQL database, right-click **Databases** and click New **Databases...** from the context menu.



#### The New Database dialog box displays.

	C. Carint - IR	Lista							
General									
Pilegroups	Database name: HyDrawData								
	Owner:		<default></default>						
	-	devina							
		lucality							
	Database <u>fi</u> les:								
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize				
	HyDrawData	Rows	PRIMARY	3	By 1 MB, Unlimited				
	HyDrawData	Log	Not Applicable	8	By 10 percent, Unlimited				
Connection									
Connection Server: LK-T X: SQI EXPRESS									
Connection Server: LK-LT-SQLEXPRESS Connection:									
Connection Server: LK-LT\SQLEXPRESS Connection: sa									
Connection Server: LK-LT\SQLEXPRESS Connection: sa View connection properties									
Connection Server: LK-LT\SQLEXPRESS Connection: sa Wew connection properties Progress									
Connection Server: LK-LT\SQLEXPRESS Connection: sa View connection properties Progress Ready Ready	<					:			
Connection Server: LK-LT\SQLEXPRESS Connection: sa Wiew connection properties Progress Ready	¢			Add	Remove	2			
Connection Server: LK-LT\SQLEXPRESS Connection: sa View connection properties Progress Ready Ready	<			Add	Remove				

- 2. Enter Database name and click OK.
- 3. Repeat steps 2 and 3, till you create all the new databases.

# Migrate HyDraw Library

1. Run, Microsoft SQL Server Migration Assistant for Access. (if "Launch this Wizard at Startup" is selected)

The Migration Wizard dialog box displays.

>
ver Migration Assistant Wizard for Access
Welcome to database migration wizard. This wizard will guide you through the following steps of database conversion and data migration:
Step 1: Create a new SSMA project. Step 2: Add Access database files to the migration project. Step 3: Select objects for migration. Step 4: Connect to SQL Server or Azure SQL Database. Step 5: Link migrated tables (optional). Step 6: Convert objects, load them to database, and migrate data.
☑ Launch this Wizard at Startup
Next > Close

## 2. Click Next.

Or

Click File and select the Migration Wizard menu.



The Migration Wizard: Create New Project dialog box displays.

pate New Project				
Eale New Troject				
Enter the name	e, location and type of the new migration project.			
Name:	HyDrawData		]	
Leasting	C:\Users\kuma\Documents\SSMAProjects	~	Browse	
Location.				
Migrate To:	SQL Server 2012	~		
Migrate To:	SQL Server 2012	~		
Migrate To:	SQL Server 2012	~		
Migrate To:	SQL Server 2012	~		
Migrate To:	SQL Server 2012	~		
Migrate To:	SQL Server 2012	~		

- 3. Enter Name, "HyDrawData".
- 4. Browse and specify the **Location**, if you require to change the default path.
- 5. Select Migrate To, SQL version.
- 6. Click Next.

The Migration Wizard: Add Access Databases dialog box displays.

🚯 Migration Wizard	
Add Access Databases	
	Add Databases
	Find Databases
	Remove Databases
	< <u>Back</u> Next > Close

# 7. Click Add Databases.

The Open dialog box displays.

nize 🔻 🛛 New folde	er				III 💌 🛄
This PC	Name	Date modified	Туре	Size	
3D Objects	🔊 ComponentData.mdb	19-02-2021 09:58	Microsoft Access	4,104 KB	В
Desktop	🖻 GeometryData.mdb	10-12-2019 10:39	Microsoft Access	384 KB	В
Documents	HyDrawData.mdb	04-03-2021 10:24	Microsoft Access	1,216 KB	В
Downloads	HyDrawDataMigration.mdb	10-12-2019 10:39	Microsoft Access	244 KB	В
Music	ManifoldManufacturing.mdb	10-12-2019 10:39	Microsoft Access	732 KB	В
IVIUSIC	SymbolBuilder.mdb	10-12-2019 10:39	Microsoft Access	4,832 KB	В
Pictures					
Videos					
Local Disk (C:)					
System Reservec					
New Volume (E:)					
Working (E)					
working (F.)					

8. Browse to the HyDraw Library, Data folder and select ComponentData.mdb, Geometry.mdb, HyDrawData.mdb, HyDrawDataMigration.mdb\*, ManifoldManufacturing.mdb\* and SymbolBuilder.mdb\*.

\* Optional, you may ignore for this release.

## 9. Click Open.

The Migration Wizard: Add Access Databases dialog box displays.

i Migration Wizard	×
Add Access Databases	
C:\VEST\HyDraw Library 2021\Data\ComponentData.mdb C:\VEST\HyDraw Library 2021\Data\GeometryData.mdb C:\VEST\HyDraw Library 2021\Data\HyDrawData.mdb C:\VEST\HyDraw Library 2021\Data\HyDrawData.mdb	Add Databases
C:\VEST\HyDraw Library 2021\Data\HyDrawDatarnigration.mdb C:\VEST\HyDraw Library 2021\Data\ManifoldManufacturing.mdb C:\VEST\HyDraw Library 2021\Data\SymbolBuilder.mdb	Find Databases
	Remove Databases
	< <u>B</u> ack <u>N</u> ext > Close

#### 10. Click Next.

The Migration Wizard: Select Objects to Migrate dialog box displays.

			1				
Access metadat     Access m		] =		Filter:	2		
	<						)

## 11. Click Next.

The Migrate Wizard: Connect to SQL Server dialog box displays.

😚 Migration Wizard			×
Connect to SQL Server			
Micro	soft"		
SC	Server 2012		
Server name:	LK-LT\SQLEXPRESS	~	
Server port:	[default] V		
Database:	HyDrawData	~	
Authentication:	SQL Server Authentication	~	
User name:	sa	~	
Password:	•••••		
Encrypt C	Connection		
		< Back	Next > Close

- 12. Enter the **Server Name**, select **Database** HyDrawData from the dropdown.
- 13. Enter Authentication, User name, Password and click Next.

The Migration Wizard: Link Tables dialog box displays.



# 14. Click Next.

The Migration Wizard: Migration Status dialog box displays.

C	Convert, Load, and Migrate				
	Convert selected objects	^			
	Converting table ComponentData.[ComponentDesignProperties]				
*	Load converted objects into the target database Operation in queue.	-			
*	Migrate data for selected objects Operation in queue	Ī,			
Descrip SQL S databa	ntion erver Migration Assistant will convert selected objects, load converted objects into the target se, and migrate data for selected objects.				

The Synchronize with the Database dialog box displays.

Synchronize with the Database   Image: Big in the Equal Objects     Database     Database     Action     Local Metadata     Image: Big in the Database     Image: Big in th	×						
😑 🛨 ╞ Hide Equal Objects							
Database		Action	Local N	Netadata			
🗉 📁 Tables		←	⊞ í	🛅 Tables			
							122.0
							025
					ОК	Cancel	
	1				1		
398 Object(s) Changed Locally	0 Object(s) Changed in Database	0 Object(s) Not Ch	nanged	0 Object(s) Changed in Database	and Locally		.::

## 15. Click **OK**.

Migration Wizard Migration Status		×
	Convert, Load, and Migrate	
	Convert selected objects <u>0 errors, 230 warnings, and 622 informational messages.</u>	Â
	Load converted objects into the target database <u>0 errors, 0 warnings, and 0 informational messages.</u>	-
	Migrate data for selected objects         Report           0 errors, 0 warnings, and 0 informational messages.         Report	
	P Description SQL Server Migration Assistant will convert selected objects, load converted objects into the target database, and migrate data for selected objects.	
	< <u>B</u> ack Stop Close	

# 16. When the migration is complete,

If you get "**0** Errors", you can **Close** the dialog box.

If you get any Errors, Contact VEST Support at <u>support@vestusa.com</u>. Ignore warnings and information messages.

# Migrate Symbol Data

1. Click File and select Migration Wizard.

File	Edit View Tools H	lelp			
	New Project	rind Databases	👤 Connect to SQL Server	Convert, Load, and Migrate	Cre
0	Open Project				
H	Save Project				
	Close Project				_
4	Migration Wizard				
0	Add Databases				
	Remove Database				
÷.	Find Databases				
1	Connect to SQL Server				
	Recent Projects				
	Exit				

The Migration Wizard: Create New Project dialog box displays.

🔒 Migration Wizard		>
Create New Project		
Enter the name	, location and type of the new migration project.	
Name:	DemoGenericData	
Location:	C:\Users\kuma\Documents\SSMAProjects	Browse
Migrate To:	SQL Server 2012	~
	< Back	Next > Close
		Close

- 2. Enter Name, "DemoGenericData".
- 3. Browse and specify the **Location**, if you require to change the default path.
- 4. Select Migrate To, SQL version.

The Migration Wizard: Add Access Databases dialog box displays.

😚 Migration Wizard	×
Add Access Databases	
	Add Databases
	Find Databases
	Remove Databases
	< Back Next > Close

# 5. Click Add Databases.

The Open dialog box displays.

😚 Open					×
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\bigstar$ $\blacksquare$ « Local	I Disk (C:) → VEST → HyDraw Library 2	021 > Symbol Library > Demo	o Symbols → MenuData	ٽ ~	, ○ Search MenuData
Organize 👻 New folder					≣≣ <b>▼ □■ (</b> )
This PC	Name	Date modified	Type	Size	
🗊 3D Objects	🖻 DemoGenericData.mdb	10-12-2019 10:39	Microsoft Access	364 KB	
📃 Desktop					
Documents					
Uownloads					
J Music					
Videos					
Local Disk (C:)					
System Reserved					
🔜 New Volume (E:)					
🕳 Working (F:)					
🕳 Old Working (G: 🗸					
File <u>n</u> am	ne: DemoGenericData.mdb			~	All supported databases (*.mdt $ \smallsetminus $
					Open Cancel

- 6. Browse to the HyDraw Library, "Symbol Library/Demo Symbols/Menu Data" folder and select **DemoGenericData.mdb**.
- 7. Click **Open**.

The Migration Wizard: Add Access Databases dialog box displays.

Add Assess Detabases	
Add Access Databases	Add Databases Find Databases Remove Databases

## 8. Click Next.

The Migration Wizard: Select Objects to Migrate dialog box displays.

in Migration Wizard		×
Select Objects to Migrate	: 🗉 🗄 🔚 🏪 🕢 Filter:	
	<	>
	< <u>B</u> ack <u>N</u> ext > Close	

# 9. Click Next.

The Migrate Wizard: Connect to SQL Server dialog box displays.

Migration Wizard			>
Connect to SQL Server			
Minu			
Micros	Convortion12		
@, JQ			
Server name:	LK-LT\SQLEXPRESS	~	
Server port:	[default] V		
Database	DemoGenericData	~	
Authentication:	SOL Server Authentication	~	
Autoritication.		•	
User name:	sa	~	
Password:	•••••		
Encrypt C	onnection		
		< <u>B</u> ack	<u>N</u> ext > Close

- 10. Enter the Server Name, select Database DemoGenericData from the dropdown.,
- 11. Enter Authentication, User name, Password and click Next.

The Migration Wizard: Link Tables dialog box displays.

😚 Migration Wizard		×
Link Tables		
P.	If you want to use your existing Access applications with SQL Server, you can link your original Access tables to the migrated SQL Server tables. Linking modifies your Access database so that your queries, forms, reports, and data access pages use the data in the SQL Server database instead of the data in your Access database.	
-0		
	Link Tables	
	< Back Next >	Close

# 12. Click Next.

The Migration Wizard: Migration Status dialog box displays.

AN P		Convert, Load, and Migrate	
	0	Convert selected objects Q errors, 2 warnings, and 12 informational messages,	Í
P		Load converted objects into the target database 0%	
	**	Choosing objects to synchronize Migrate data for selected objects Operation in queue	
	Descrip SQL S databa	tion erver Migration Assistant will convert selected objects, load converted objects into the target se, and migrate data for selected objects.	

The Synchronize with the Database dialog box displays.

🚯 Synchronize with the Database					12 <u>-</u>		Х
😑 🛨 ╞ Hide Equal Objects 📔							
Database	Ac	tion Local Me	tadata				-
🗉 🚞 Tables		H 🗉 🧯	📕 Tables				
							-
				OK		Cancel	
6 Object(s) Changed Locally 0 Object(s) Chan	iged in Database 0 Object(s) Not	Changed 0	Object(s) Changed in Da	atabase and Locally			

13. Click **OK**.

0	Convert, Load, and Migrate	
$\odot$	Convert selected objects <u>0 errors, 2 warnings, and 12 informational messages.</u>	Report
0	Load converted objects into the target database <u>0 errors, 0 warnings, and 0 informational messages.</u>	
0	Migrate data for selected objects <u>0 errors, 0 warnings, and 0 informational messages</u>	Report
Descrip SQL S databa	ation erver Migration Assistant will convert selected objects, load converted se, and migrate data for selected objects.	objects into the target

- 14. When the migration is complete,
  If you get "O Errors", you can Close the dialog box.
  If you get any Errors, Contact VEST Support at <u>support@vestusa.com</u>. Ignore warnings and informational messages.
- 15. Repeat the above steps for all the Symbols libraries, i.e. ElectricalGenericData.mdb, HydraulicGenericData.mdb, PneumaticGenericData.mdb and any Custom Libraries you have created or any Custom Libraries provided by VEST or Child Libraries created in HyDraw.

# Migrate Subsystem Data

Repeat the steps 1 to 15, per Chapter 2. Symbol Data Migration. Ensure the database name used is **SubsystemData** available at default location, "C:\VEST\HyDraw Library 2022\Subsystems\MenuData".