# Rice Lake Weighing Systems SQL Database Migrating a SQL Database to Another Machine

**Product**: OnTrak<sup>®</sup>, WeighVault<sup>®</sup> and other Rice Lake Weighing Systems software packages.

Issue: Transferring a Rice Lake Weighing Systems program Microsoft<sup>®</sup> SQL (MSSQL) database and to an instance of SQL. Solution: Back up the current MSSQL database and transfer to another machine.



Manuals and additional resources are available from Rice Lake Weighing Systems at www.ricelake.com/manuals Warranty information can be found at www.ricelake.com/warranties

## Save and Restore Database Files

1. Create a backup file of the current MSSQL database using the backup and restore utility.



NOTE: SSMS and the backup and restore utility are included in the software package and have their own instructions within those packages' manuals or help files.

- 2. Save the backup file (.bak) to a temporary location for future retrieval.
- Install the Rice Lake Weighing Systems software package on new machine. 3.
- Install SQL Server Management Studio (SSMS) software package onto the new machine. 4.

### NOTE: To download the SSMS software package, go to https://docs.microsoft.com/sql/ssms.

- 5. Open SMSS on the new machine.
- In SSMS, select **Databases** and right-click on the saved database to restore. 6.
- Navigate to Tasks> Restore> Database. 7.



Figure 1. Database Restore



8. Under Source, select **Device** and click the ellipsis button \_\_\_\_ on the right. The Select Backup Device window will open.

a. Select Add.

- b. Locate the .bak file saved in Step 2.
- c. Select OK.
- d. A message will pop up stating that the selected database has been installed. Select OK.

<ol> <li>Ready</li> </ol>								
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A General A Files A Options	Source O Database: Database: Destination Database: Restore to: Restore to:		C'temp'RLWS.bak					
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Connection								
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Figure 2. Select Backup Device Window

- 9. Select Options in the Select a Page column.
- 10. Select Overwrite the existing database (WITH REPLACE) and Close existing connections to destination database select.
- 11. Select OK.



Figure 3. Options Page

- 12. A message will open stating that the database has successfully been restored.
- 13. Select OK.



#### Authenticated User Replacement

1. Delete existing ApplicationUserName (e.g. WEIGHVAULT\_USER) from object explorer.

#### NOTE: Record ApplicationUserName for future use.

- a. Navigate to Security> Users> WEIGHVAULT\_USER.
- b. Right-Click WEIGHVAULT\_USER.
- c. Select Delete.



Figure 4. Authenticated User Deletion Path

- 2. Right-click the Users folder.
- 3. Select New User.



Figure 5. New User Selection

4. Select the ellipsis button ... next to Login name.



Enter the name in the Enter the object names to select (examples): box. 5.

NOTE: Use ApplicationUserName recorded in previous step. 

- Select Check Names. 6.
- 7. Check the matching object name and select OK.



Figure 6. Name Selection

8. Input the User Name and the Login Name.

🗑 Database User - New		-	Х
Select a page	∏ Script ▼ ? Help		
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<ul> <li>Securables</li> <li>Extended Properties</li> </ul>	SQL user with login		~
	User name:		
	WEIGHVAULT_USER		
4	Login name:		
9	WEIGHVAULT_USER		
	Default schema:		

Figure 7. User Name Input



NOTE: The User Name and Login Name must match.

- 9. Select **Membership** from the **Select a page** column.
- 10. Check **db\_datareader** and **db\_datawriter**.

Select a page	🖵 Script 🔻 🚱 Help
<ul> <li>General</li> <li>Owned Schemas</li> <li>Membership</li> <li>Securables</li> <li>Extended Properties</li> </ul>	Database role membership:         Role Members         db_accessadmin         db_backupoperator         Øb_datareader         Øb_deladamin         db_deladamin         db_deladareader         db_denydatareader         db_denydatareader         db_denydatareader         db_securityadmin
Connection Server: BRAREE-PC2\SQLEXPRESS Connection: RLWS\braree V View connection properties	
Progress Ready	
*8p*	OK Cancel

Figure 8. Membership Role Selection

- 11. Select OK.
- 12. Close SSMS.



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