How to backup and restore data for 2012 SQL Server (For Aria Electronic Tracking Users)

This document provides a step-by-step guide for customers to backup and restore their SQL database using SQL Server Management Studio (SSMS).

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Steps – Prerequisites

1. If not already installed, download and install SQL Server Management Studio (SSMS).

*SSMS v18.12.1 was used to verify these procedures.*

Steps – Backing Up Data

2. Connect to the SQL Server Instance to be migrated.
3. Open SQL Server Management Studio. You will be prompted to login after the application startup. In the case that the “Login” and “Password” fields are auto populated, you only have to select the server name and click “Connect.”

Alternatively, you may cancel out of the initial SSMS window and connect to the server using the outlined button below.
4. Using the **Object Explorer**, navigate to the desired database, right-click, and go to **Tasks > Back Up.**

5. Make sure the backup type is “Full” and is backed up to Disk. Start the backup process by clicking **OK** on the back-up main window.
6. Click Ok to complete the process. You should see the following message.

Steps – Restoring the Backup

7. Create a new SQL Server 2012 instance using the SQL Install wrapper application.

*** Please make sure that no database of the same name is present in the new SQL Server instance.

For example, If the source database used for backup is "AriaDatabase", please ensure that "AriaDatabase" does not already exist in the destination SQL Server instance.

8. Using the Object Explorer select Connect > Database Engine...

9. Select the SQL Server instance to connect to, input the credentials and click Connect.

10. On the Object Explorer, right click Databases and select Restore Database...
11. Select **Source: Device** and click the “…” button and then click “Add.”
12. Select the backup file and click **OK**.

1. Find the directory the backup was created in

2. Select the `.bak` file

3. Click on “Add” button

4. Click on “Ok” button
13. Click **OK** on the *Select backup devices* window.
14. Go to the **Files** tab on the **Restore Database** window, tick the **Relocate all files to folder** checkbox and click **OK**. No action required on the “Options” page.

15. The database has now been migrated to the instance. It can be used by re-installing the software and selecting the new database as the default database.

**Verification**

To verify if the restoration was successful:

1. The database should show up during Aria Software installation.
2. The Aria software will connect to the database using the same credentials (same username and password) as the old database.

3. Log Entries have successfully migrated. Experiment files are also migrated and can be opened.