

# Nashville Airport Database Migration Plan

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## Purpose

The purpose of this document is to outline and prescribe the steps required to merge the existing two VMS databases together and migrate the VMS database from the current Microsoft SQL Server 2008R2 server to the new Microsoft SQL Server 2017 server. This document will cover the migration of the existing database to the new server, as well as, the editing of each IP Server instance to reflect the new database location.


## Camera Migration

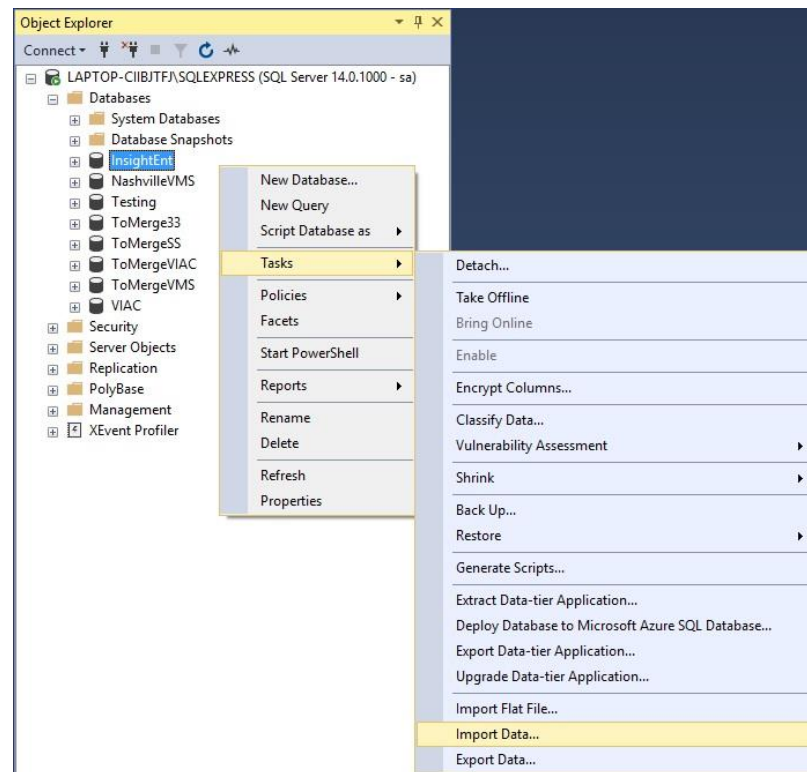
Currently cameras reside on the new server (MNAACamera1). These cameras will be migrated into the existing InsightEnt database before moving the entire database to the new MS SQL 2017 instance.

1. Open a Windows Explorer window
2. Navigate to the saved location for the camera migration .sql files (migration files will be provided prior to database migration)
3. Open Microsoft SQL Server Management Studio
4. Log into the SQL Server 2008R2 instance
5. Create the linked server to SQL Server 2017 instance
6. Click the "New Query" button (will open a blank query tab)
7. Drag and drop each of the camera migration files from Windows Explorer to the SQL Management Studio blank query (will populate the contents of the .sql file into a new tab for each file)
8. Edit each .sql file to reflect linked server name (Find and Replace All)
9. Execute the updated SQL query for each tab

## Database Migration

1. On the Microsoft SQL Server 2017 server, open Microsoft SQL Server Management Studio
2. Log into the SQL Server 2017 instance
3. Click the “New Query” button (will open a blank query tab)
4. Enter the following query to create an empty InsightEnt database  

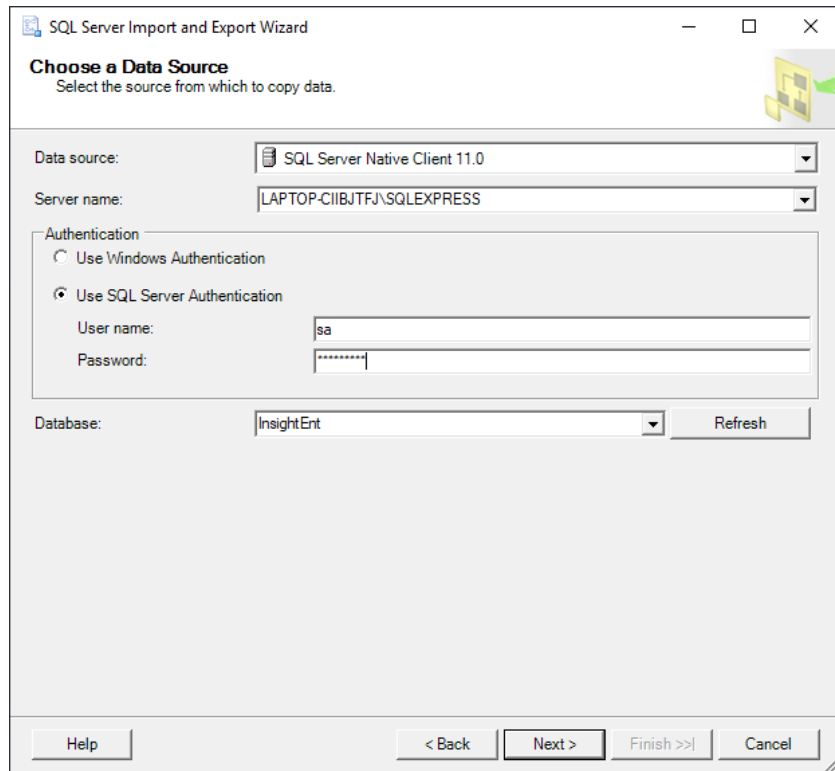
```
CREATE DATABASE InsightEnt;
```
5. Click the “Execute” button or press F5 to execute the query
  - Successful response will be “Commands completed successfully.”
6. In the left tree, click the minus sign (-) to the left of Databases to collapse the database folder
7. Click the blue circle arrow button  in Object Explorer toolbar to refresh database listing
8. In the left tree, click the plus sign (+) to the left of Databases to expand the database folder
9. Right-click on the InsightEnt database
10. Mouse over Tasks
11. Click “Import Data...” (will open SQL Server Import and Export Wizard”



12. If welcome screen appears, click next

13. In the “Choose a Data Source” window set the following values:

- Data Source: SQL Server Native Client 11.0
- Server Name: Server Name / IP Address and Instance name of old SQL Server
  - i. USE SQL Server Authentication; Enter Username and Password
- Database: InsightEnt

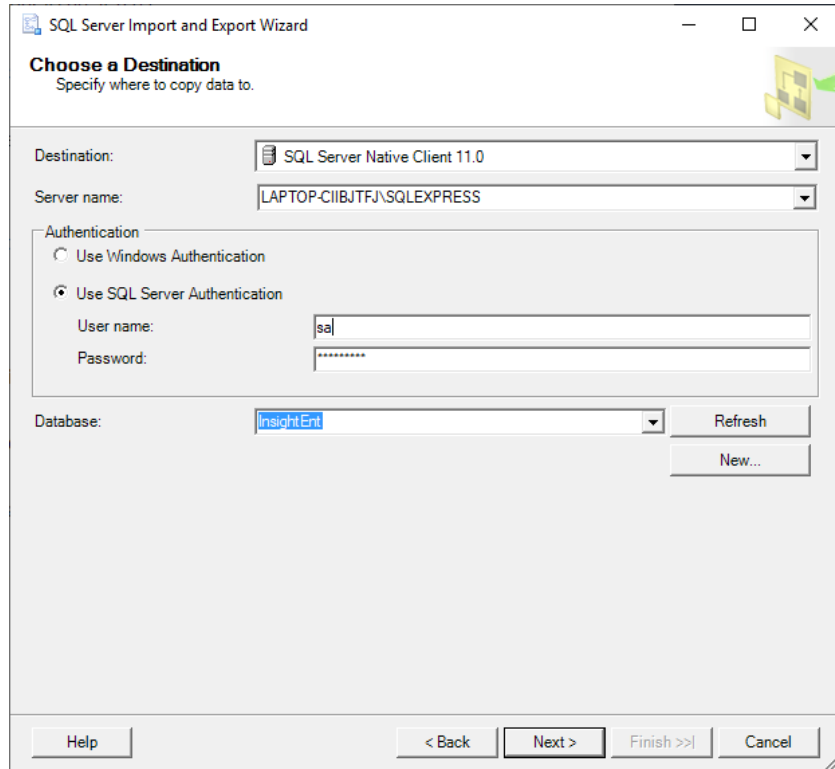


The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Data Source' step. The window title is 'SQL Server Import and Export Wizard'. Below the title bar, the text 'Choose a Data Source' is displayed, followed by the instruction 'Select the source from which to copy data.' The main area contains several fields: 'Data source:' with a dropdown menu set to 'SQL Server Native Client 11.0'; 'Server name:' with a dropdown menu set to 'LAPTOP-CIIBJTFJ\SQLEXPRESS'; an 'Authentication' section with two radio buttons, 'Use Windows Authentication' (unselected) and 'Use SQL Server Authentication' (selected); 'User name:' with a text box containing 'sa'; 'Password:' with a text box containing seven asterisks; and 'Database:' with a dropdown menu set to 'InsightEnt' and a 'Refresh' button to its right. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish >>' (disabled), and a 'Cancel' button on the far right.

14. Click Next

15. In the “Choose a Destination” window set the following values:

- Data Source: SQL Server Native Client 11.0
- Server Name: Should be prepopulated, if not enter gaining SQL Server Instance
  - i. USE SQL Server Authentication; Enter Username and Password
- Database: InsightEnt (should be prepopulated)



The screenshot shows the 'SQL Server Import and Export Wizard' window, specifically the 'Choose a Destination' step. The window title is 'SQL Server Import and Export Wizard'. Below the title bar, the text 'Choose a Destination' is displayed, followed by the instruction 'Specify where to copy data to.'.

The 'Destination' dropdown menu is set to 'SQL Server Native Client 11.0'. The 'Server name' dropdown menu is set to 'LAPTOP-CIIBJTFJ\SQLEXPRESS'. Under the 'Authentication' section, the 'Use SQL Server Authentication' radio button is selected. The 'User name' field contains 'sa' and the 'Password' field contains a masked password (represented by asterisks). The 'Database' dropdown menu is set to 'InsightEnt'. To the right of the 'Database' dropdown are two buttons: 'Refresh' and 'New...'. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish >>|'. The 'Next >' button is highlighted.

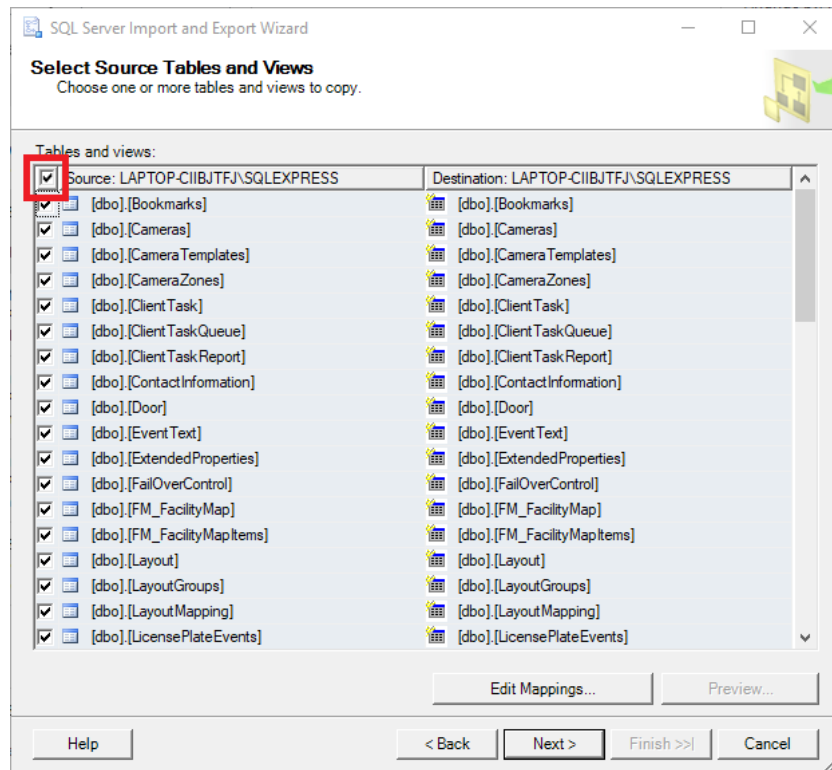
16. Click Next

17. In the “Specify Table Copy or Query” window, click the radio button next to “Copy data from one or more tables or views”

18. Click Next

19. In the “Select Source Tables and Views” window:

- Click the empty checkbox in the header bar to select all tables



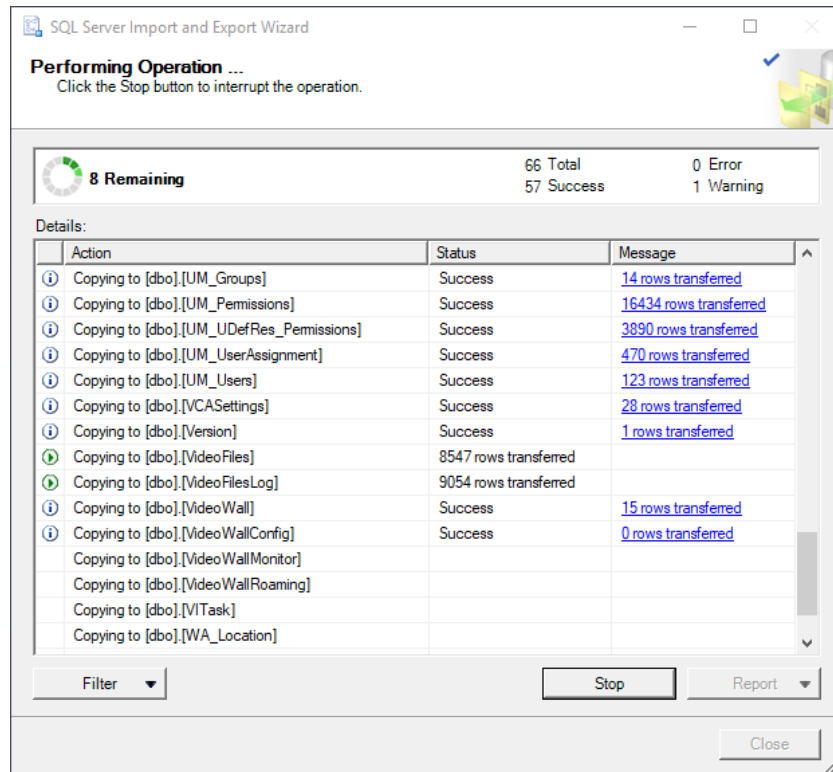
20. Click Next

21. Click Finish in the “Save and Run Package” window

22. Click Finish in the “Complete the Wizard” window



23. The “Performing Operation” window will appear and display the progress of each table and the number of rows copied per table

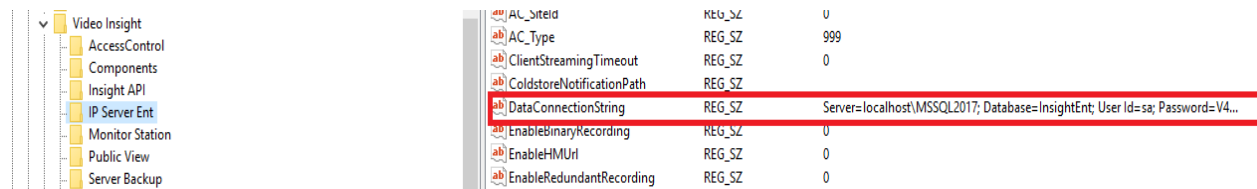


24. Once complete the Close button becomes active, click Close to close the window
25. Expand the InsightEnt database in the Object Explorer to verify that tables have been imported

## Update Data Connection String

After the database has been moved to the new server, the Data Connection Strings on each of the VI servers will need to be changed to reflect the new database location.

1. Open the Registry Editor
2. Navigate to HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\Video Insight\IP Server Ent
3. Double click on the “DataConnectionString” entry



4. Delete the existing value
5. Enter the new value
6. Click OK to accept the new value
7. Close the Registry Editor

8. Open IP Server Manager
9. Right-click on the IP Server Manager icon in the system tray
10. Click Start IP Server
11. IP Server icon will turn green