

Knowledge Base Article

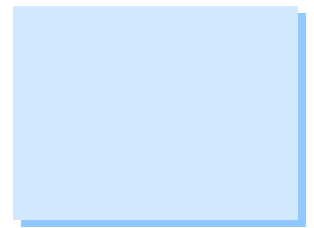
Product Group: Software
Product: SQL Server database file
Version:

Abstract

This article discusses how to create a process to automate data extraction from an Analyst database using SQL Server Integration Services (SSIS) and an export utility.

Overview

This document provides instructions on how to extract custom data from an Analyst database using SSIS packages and the scheduling tool provided by SQL Server Management Studio (SSMS) to place data in a CSV type file within a designated folder. It uses a “Serica” project as an example.



Create the Get Serica Data procedure

1. Connect

Connect to Management Studio as “skfuser1”.

Note: If the local database user is something other than skfuser1 then use that name.

2. Create a new query

- a. Click on the “New Query” button to open a query window.
- b. Copy and paste the code from the attached file “Get_Serica_Data.sql” into the query window.

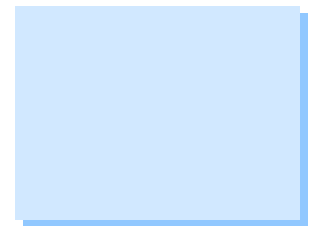


Get_Serica_Data.sql

- c. Click the “Execute” button to create the procedure.

3. Disconnect

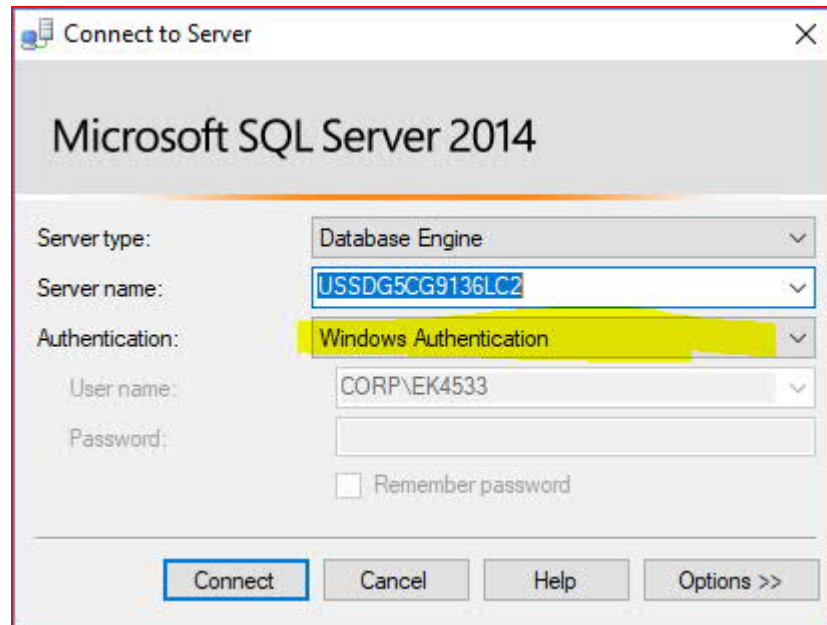
Disconnect user and close the query window.



Create SSIS Export Data Package

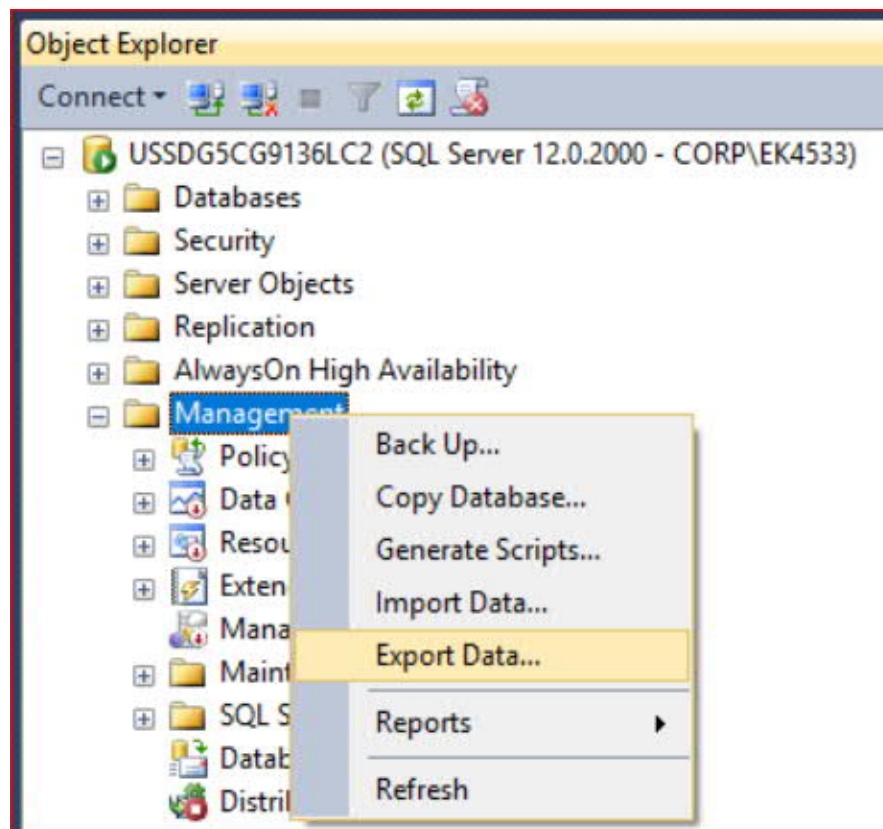
1. Connect

Now connect to Management Studio as a Windows Authentication user.



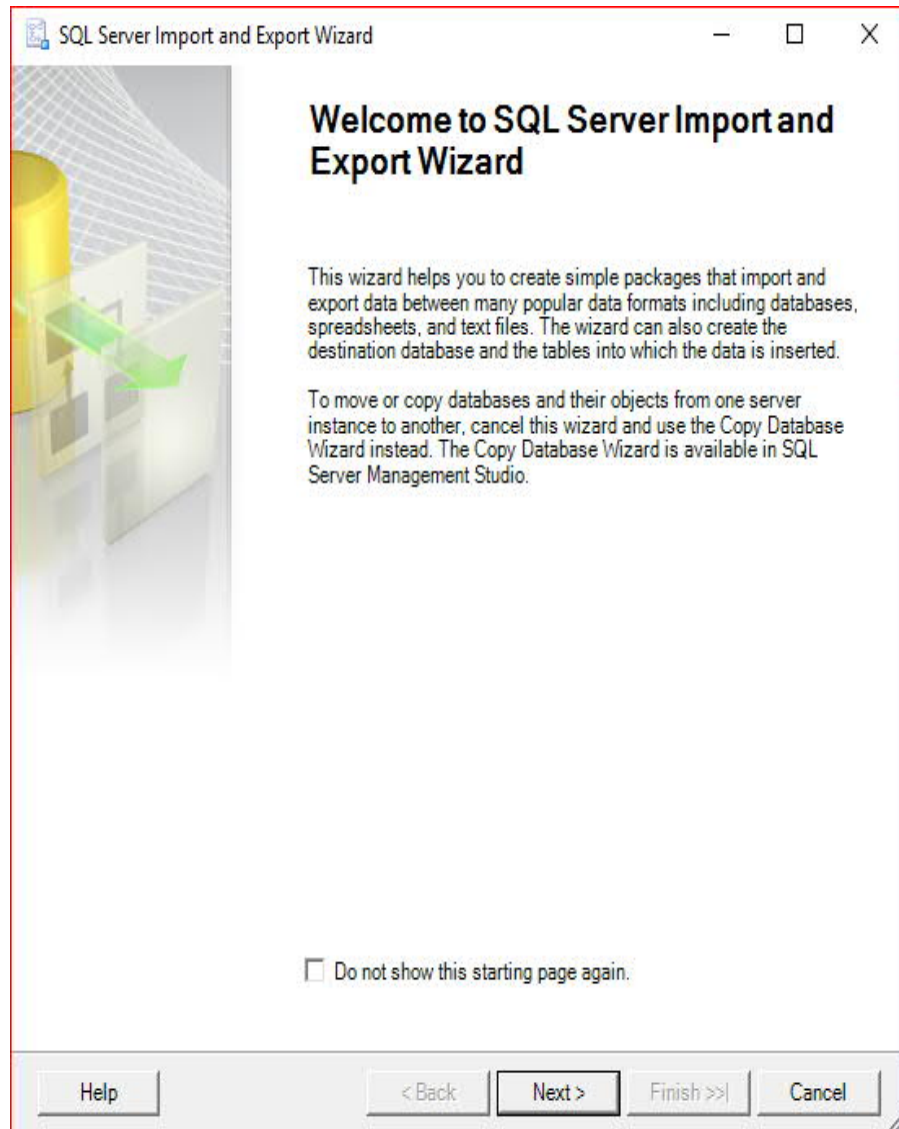
2. Open the Export Data wizard

- a. Right click on “Management” and select “Export Data...” from the menu



¶

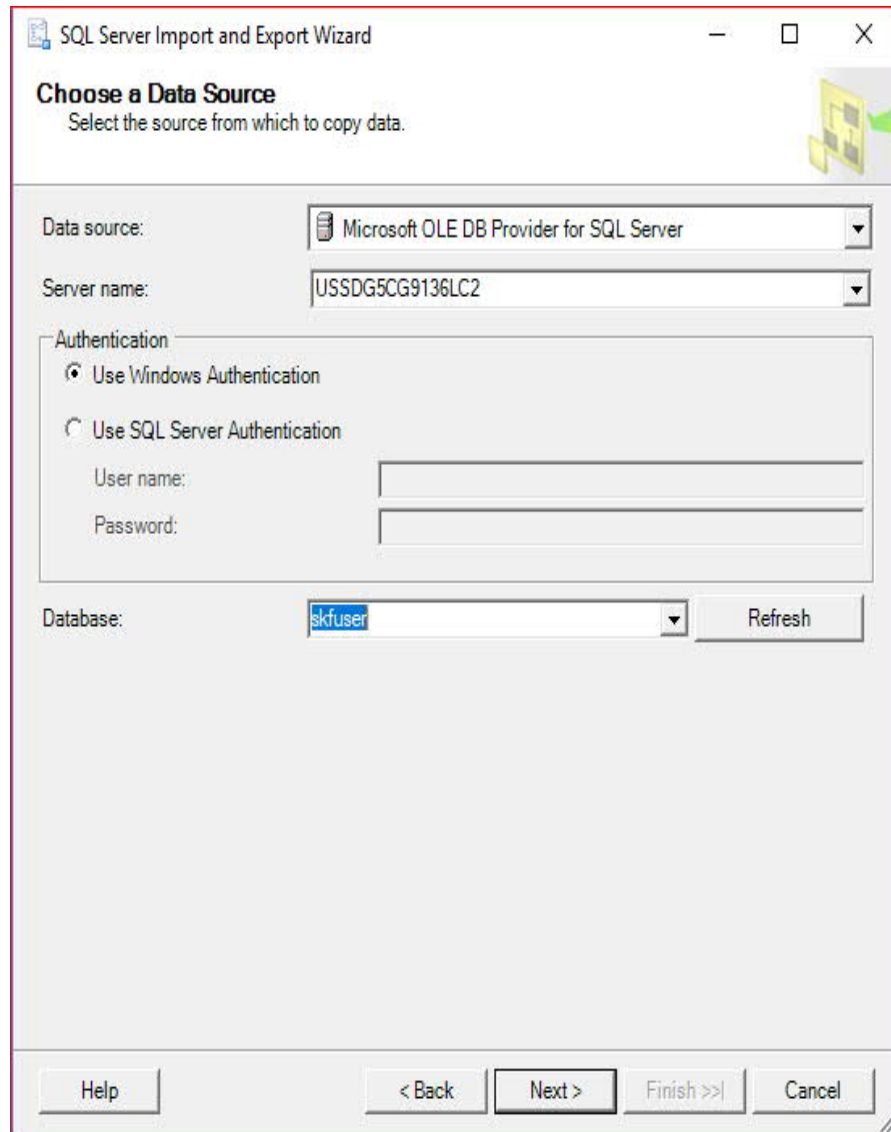
- b. Click the “Next >” button on the welcome screen shown below.





3. Choose a Data Source screen

Make sure to replace the examples below with the actual information for Server name, Database etc.¶



SQL Server Import and Export Wizard

Choose a Data Source
Select the source from which to copy data.

Data source: Microsoft OLE DB Provider for SQL Server

Server name: USSDG5CG9136LC2

Authentication

Use Windows Authentication

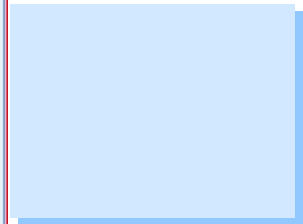
Use SQL Server Authentication

User name:

Password:

Database: skfuser Refresh

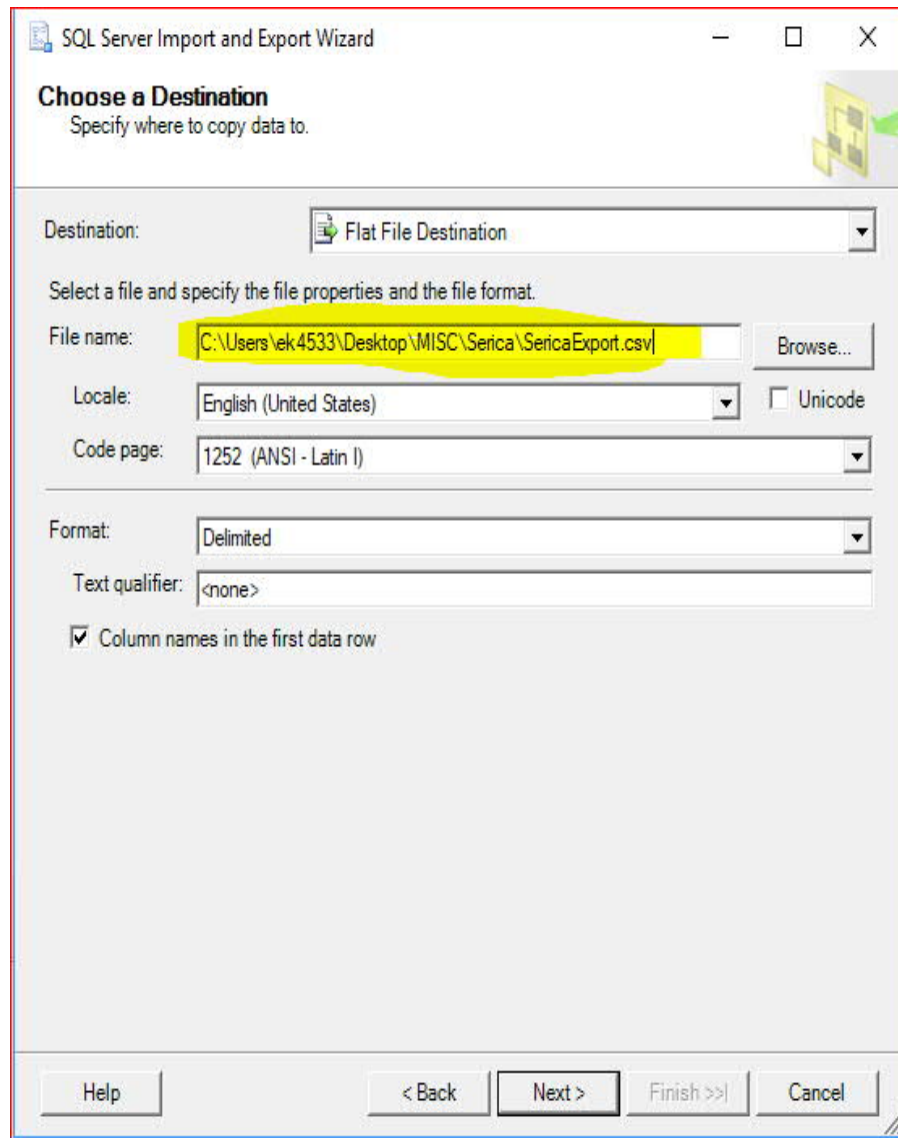
Help < Back Next > Finish >> Cancel



4. Choose a Destination screen

Replace the example path highlighted below in yellow, with the location where the file should be exported to.

Note: The inclusion of column names is optional. If they are not wanted then uncheck the “Column names” checkbox in the lower “Format” area.



SQL Server Import and Export Wizard

Choose a Destination
Specify where to copy data to.

Destination: Flat File Destination

Select a file and specify the file properties and the file format.

File name: C:\Users\ek4533\Desktop\MISC\Serica\SericaExport.csv Browse...

Locale: English (United States) Unicode

Code page: 1252 (ANSI - Latin I)

Format: Delimited

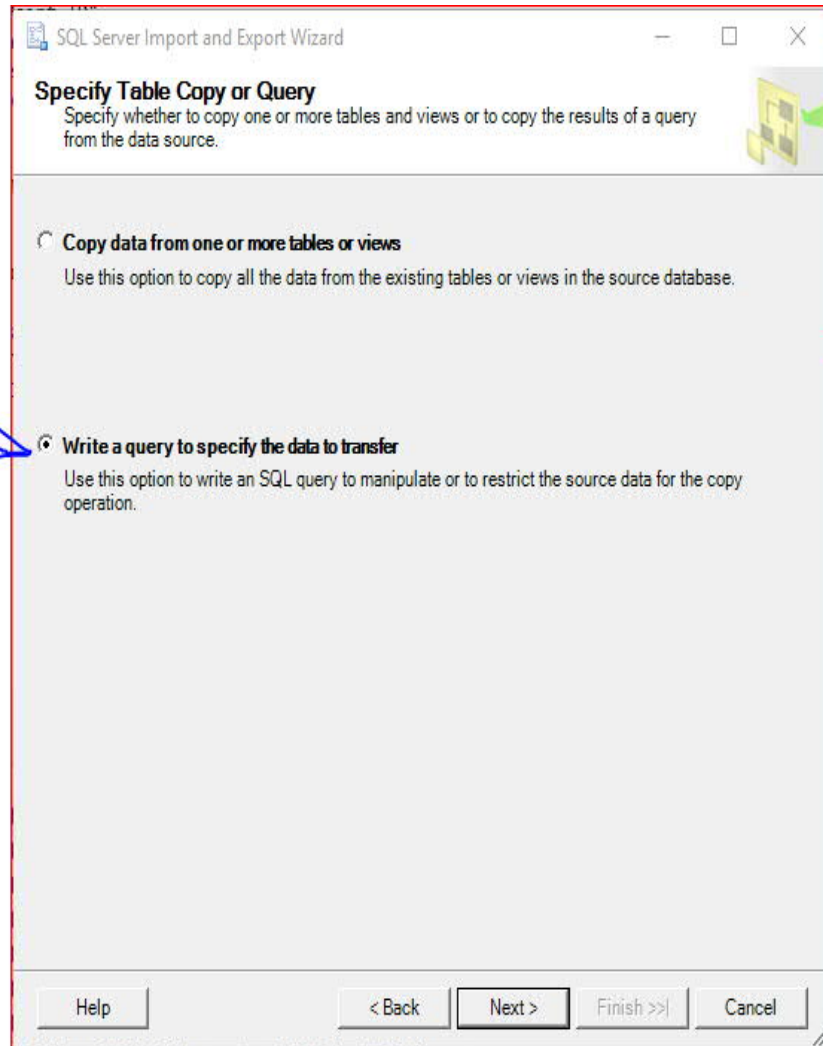
Text qualifier: <none>

Column names in the first data row

Help < Back Next > Finish >> Cancel

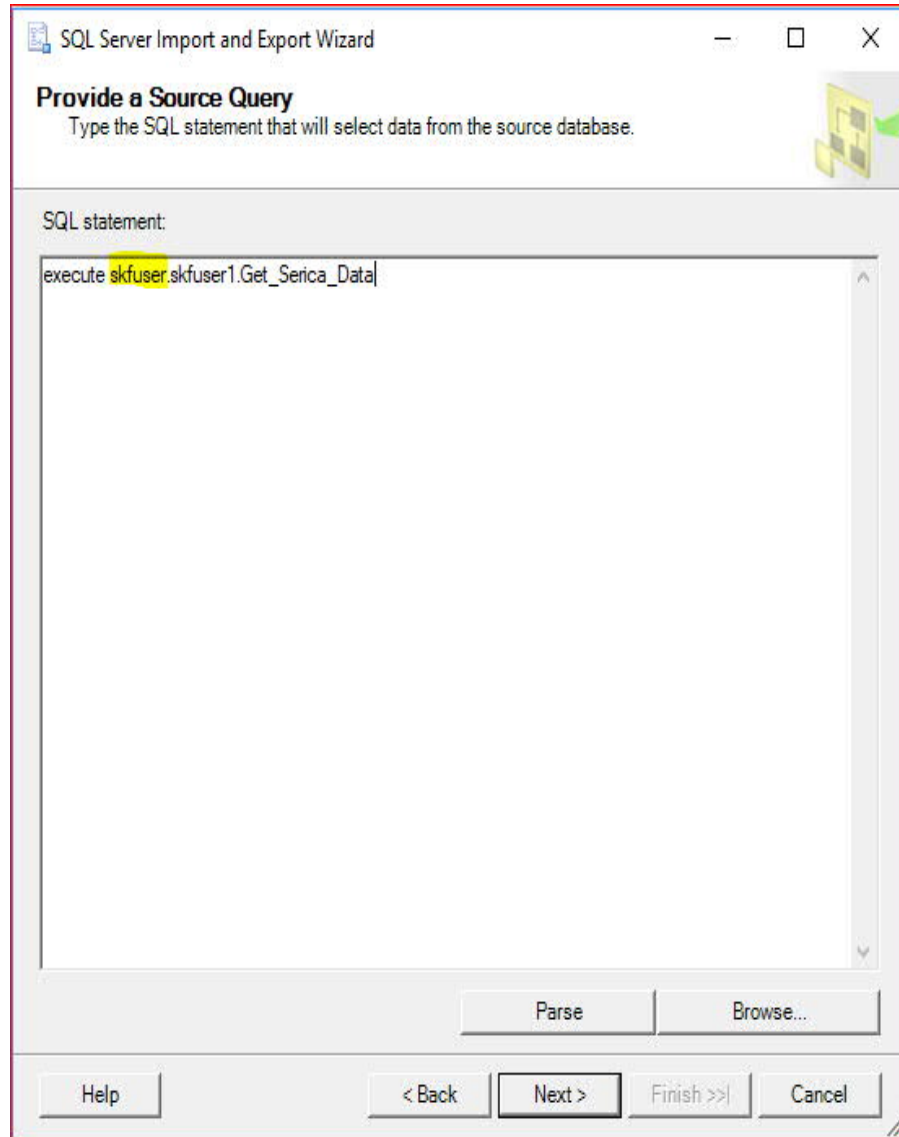
4. Specify Table Copy or Query

- a. Click on the “Write a query” option.
- b. Then click the “Next >” button.



5. Provide a Source Query screen

- a. Type the code shown, inside the “SQL statement” area.
Note: Make sure to use the actual database name if it is something other than “skfuser”.
- b. Then click the “Next >” button.¶



6. Configure Flat File Destination screen

- a. Click “Preview...” to view the results.
- b. When ready, click the “Next >” button.

SQL Server Import and Export Wizard

Configure Flat File Destination

Source query: [Query]

Specify the characters that delimit the destination file:

Row delimiter: {CR}{LF}

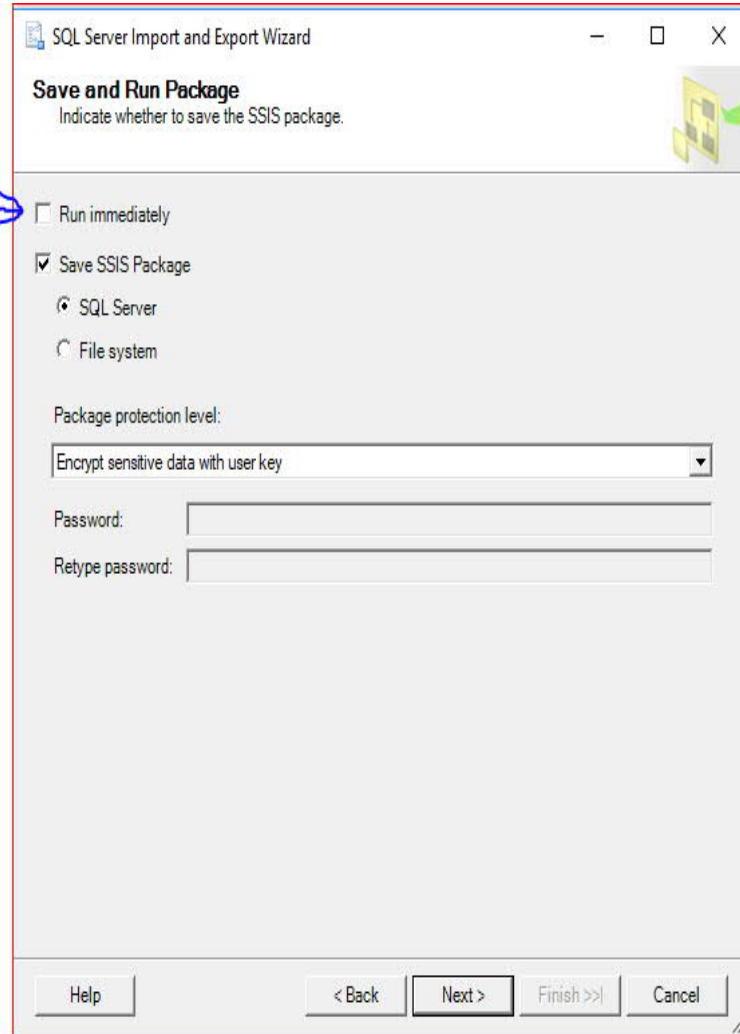
Column delimiter: Comma (,)

Edit Mappings... Preview...

Help < Back Next > Finish >> Cancel

7. Save and Run Package screen

- a. Make sure to uncheck the “Run immediately” checkbox.
- b. Then click the “Next >” button.¶



SQL Server Import and Export Wizard

Save and Run Package

Indicate whether to save the SSIS package.

Run immediately

Save SSIS Package

• SQL Server

• File system

Package protection level:

Encrypt sensitive data with user key

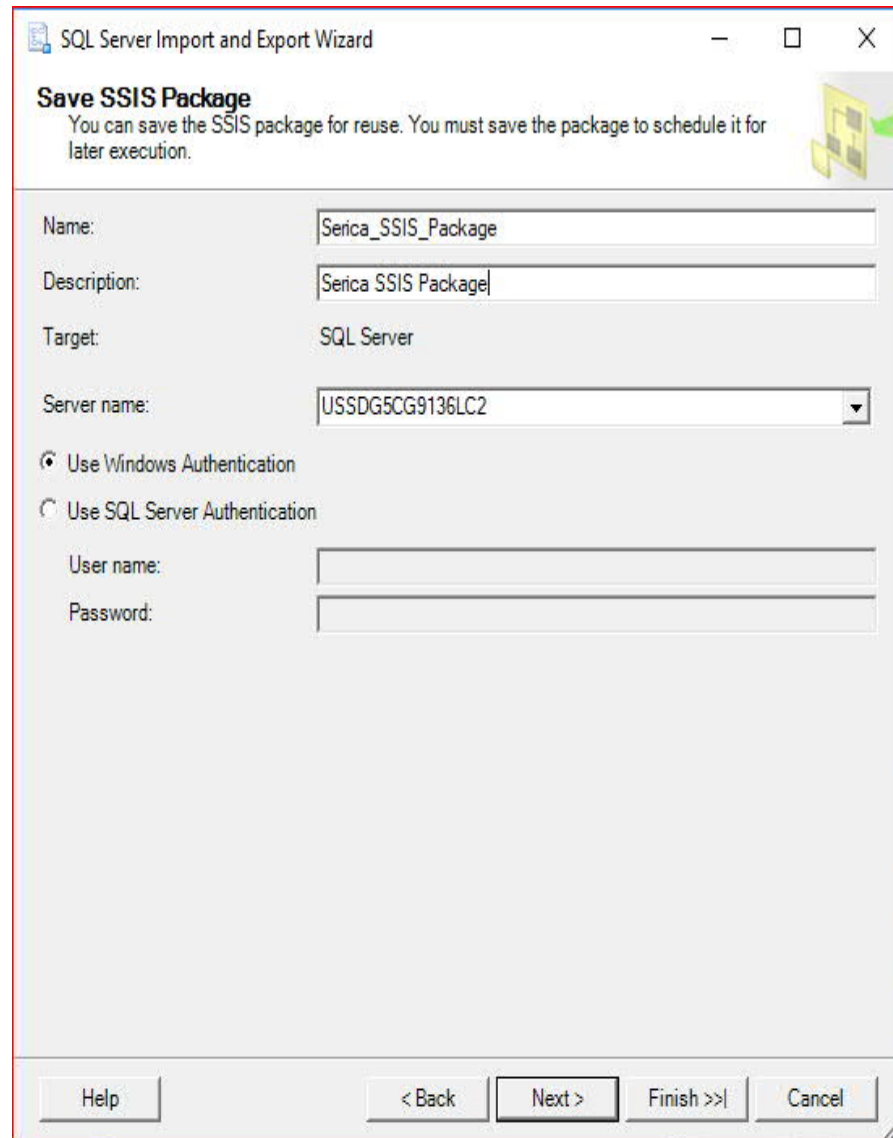
Password:

Retype password:

Help < Back Next > Finish >> Cancel

8. Save SSIS Package screen

- a. Fill in the information shown in the screen capture below but using the appropriate Server name.
- b. Then click the “Next >” button.



SQL Server Import and Export Wizard

Save SSIS Package
You can save the SSIS package for reuse. You must save the package to schedule it for later execution.

Name: Serica_SIS_Package

Description: Serica SSIS Package

Target: SQL Server

Server name: USSDG5CG9136LC2

Use Windows Authentication

Use SQL Server Authentication

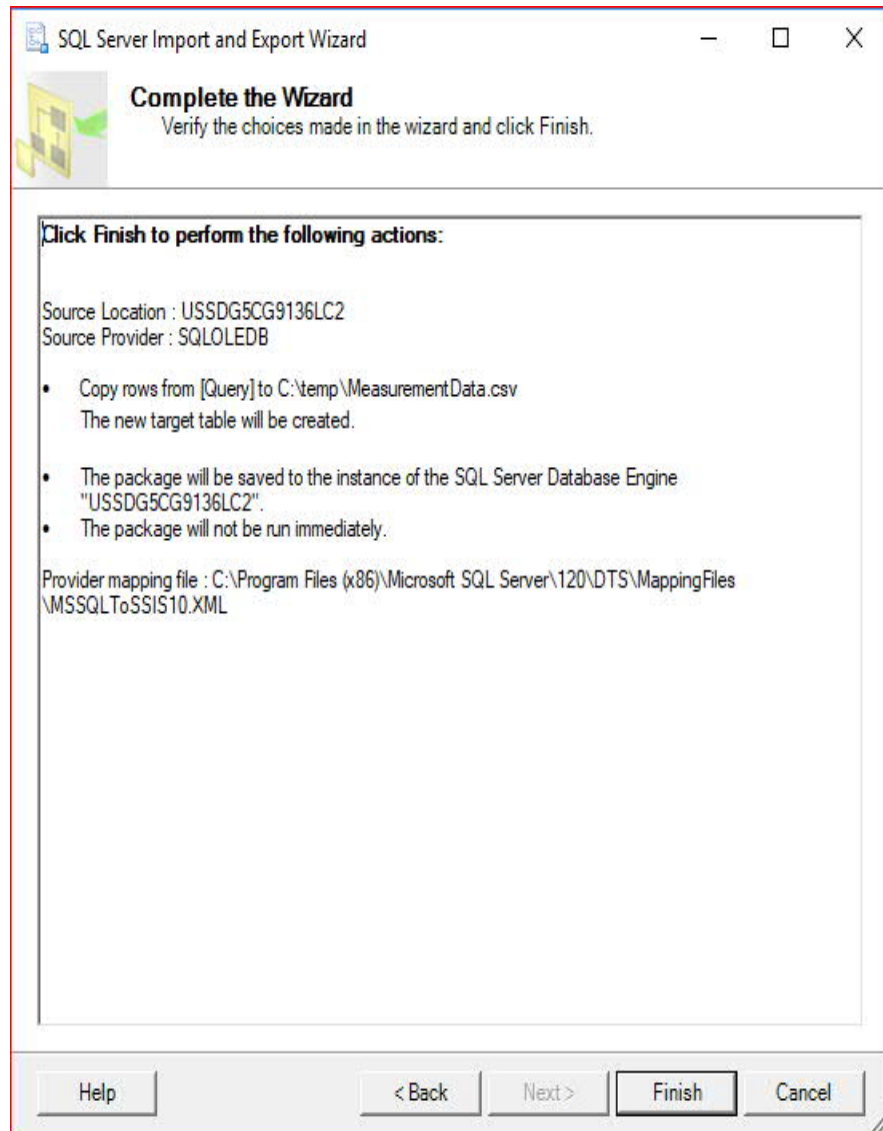
User name:

Password:

Help < Back Next > Finish >> Cancel

9. Complete the Wizard screen

Click the “Finish” button



10. Create Serica Project using Integration Services

- a. Open Management Studio and in the Server type drop-down choose: “Integration Services”.
- b. Click “Connect”.
Note: This may require starting the SSIS service using the Services console/app.
- c. Right click on “Integration Services Catalogs” and select “Create Catalog”.

Note: If disabled execute the code in the file

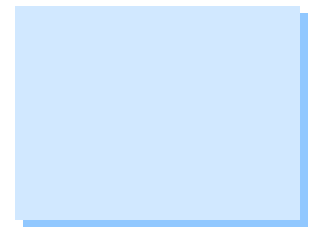
“Enable_Create_Catalog.txt”.

Copy and paste the code then execute as a Windows Authentication user.



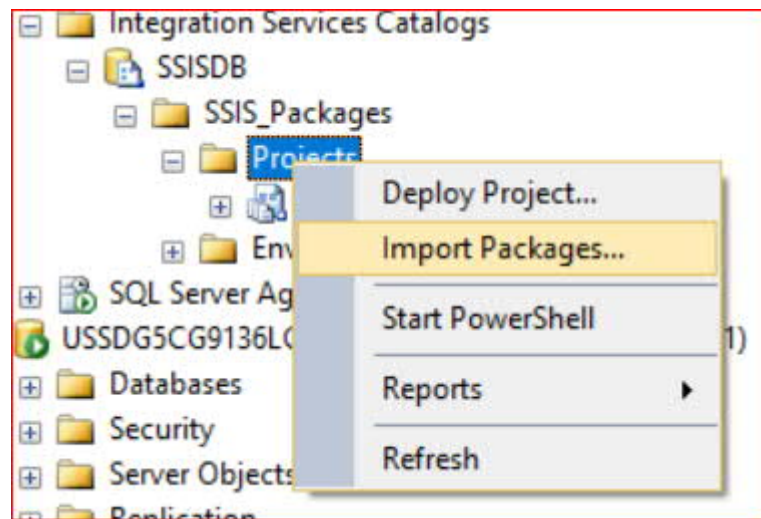
Enable_Create_Cata
log.txt

- d. Follow the on-screen instructions (creating a password if required).
- e. Follow the steps through, to create the project: “Serica Project”.



11. Import Serica package into Projects

- a. Right click on “Projects” and select “Import Packages...”.



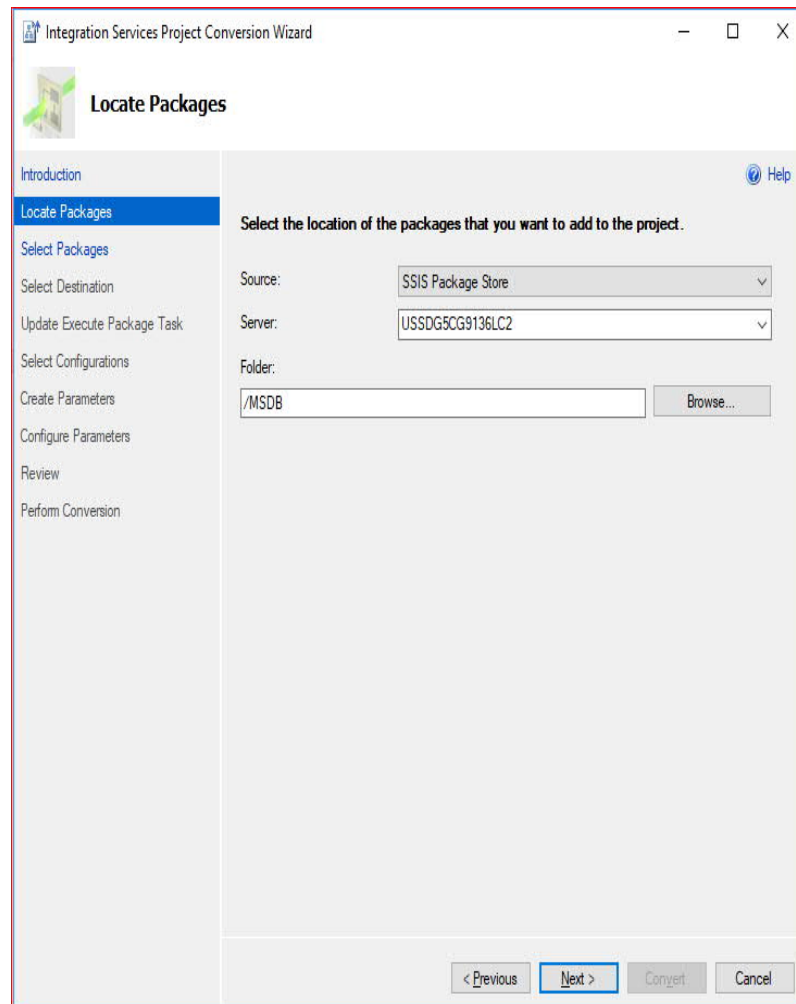
- b. **Introduction**
Click the “Next >” button.

c. Locate Packages screen

Use the screen shown below to locate the package.

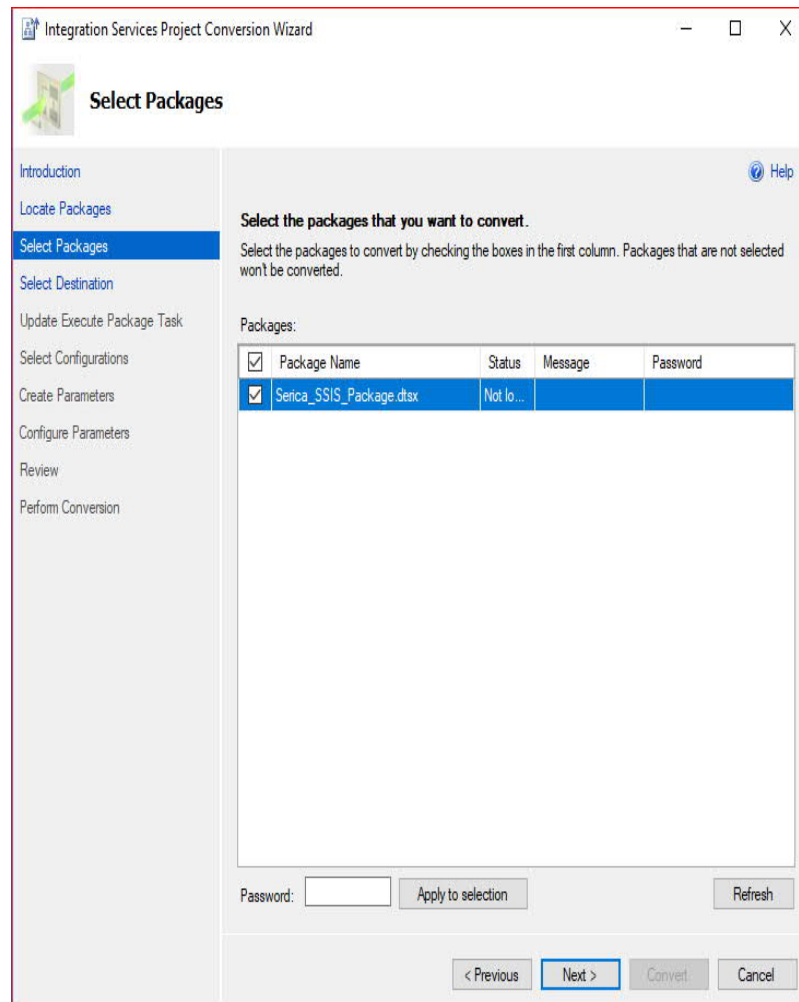
Note: Replace the server name shown with the appropriate name.

When ready, click the “Next >” button.¶



d. Select Packages screen

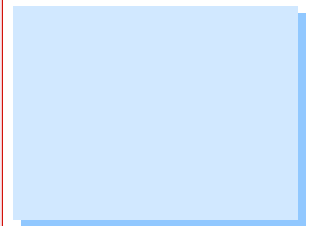
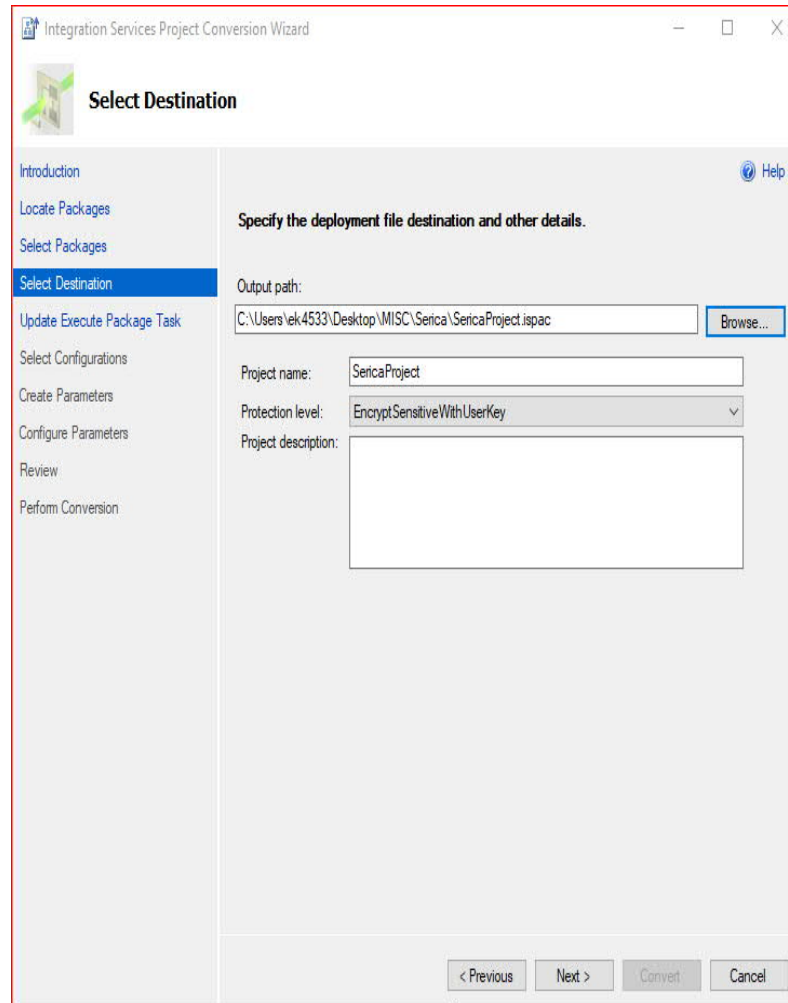
Select the Serica package as shown in the screen below.
Click the “Next >” button.



e. Select Destination screen

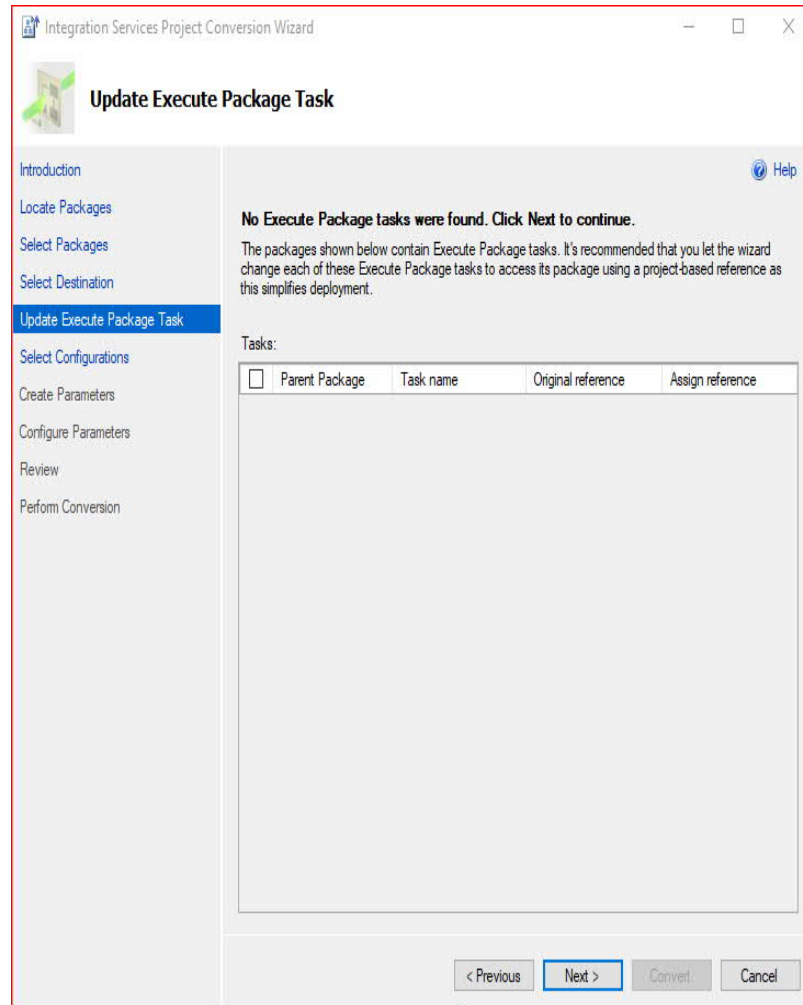
Fill in the path information for a location where the project can be stored.

When ready, click the “Next >” button.



f. Update Execute Package Task screen

Click the “Next >” button.



g. Select Configurations screen

Click the “Next >” button on this screen.

h. Create Parameters screen

Click the “Next >” button on this screen.

i. Configure Parameters screen

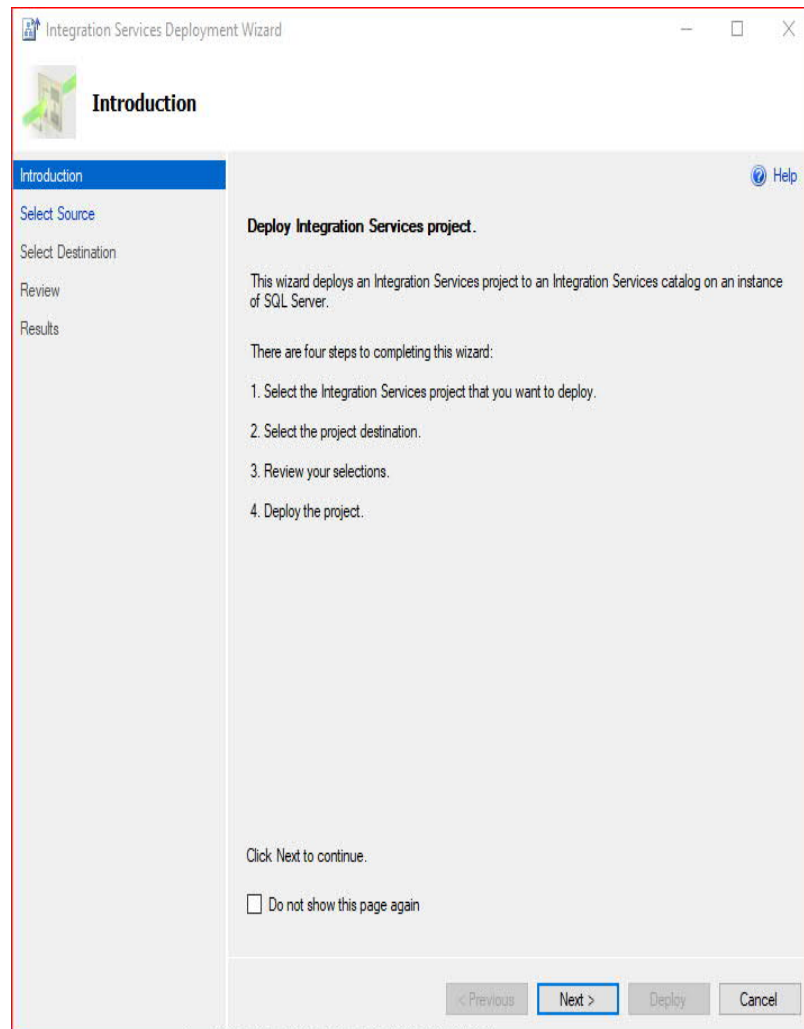
Click the “Next >” button on this screen.

j. Review screen

Click “Convert” and then click “Close”. Upon clicking the “Close” button the “Integration Services Deployment Wizard” will display next.

k. Introduction screen (Integration Services Deployment Wizard)

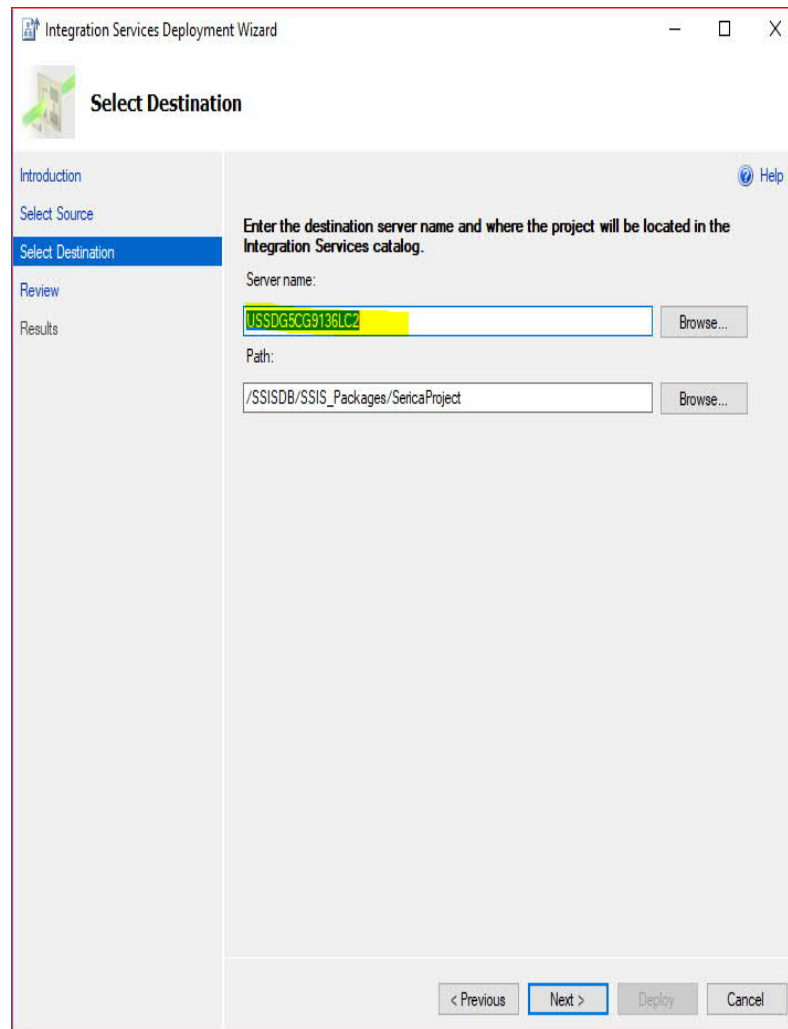
Click the “Next >” button



I. Select Destination

Select the appropriate server name.

Then when ready click the “Next >” button.



Integration Services Deployment Wizard

Select Destination

Introduction
Select Source
Select Destination
Review
Results

Help

Enter the destination server name and where the project will be located in the Integration Services catalog.

Server name:
WSSDG5CG9136LC2 Browse...

Path:
/SSISDB/SSIS_Packages/SericaProject Browse...

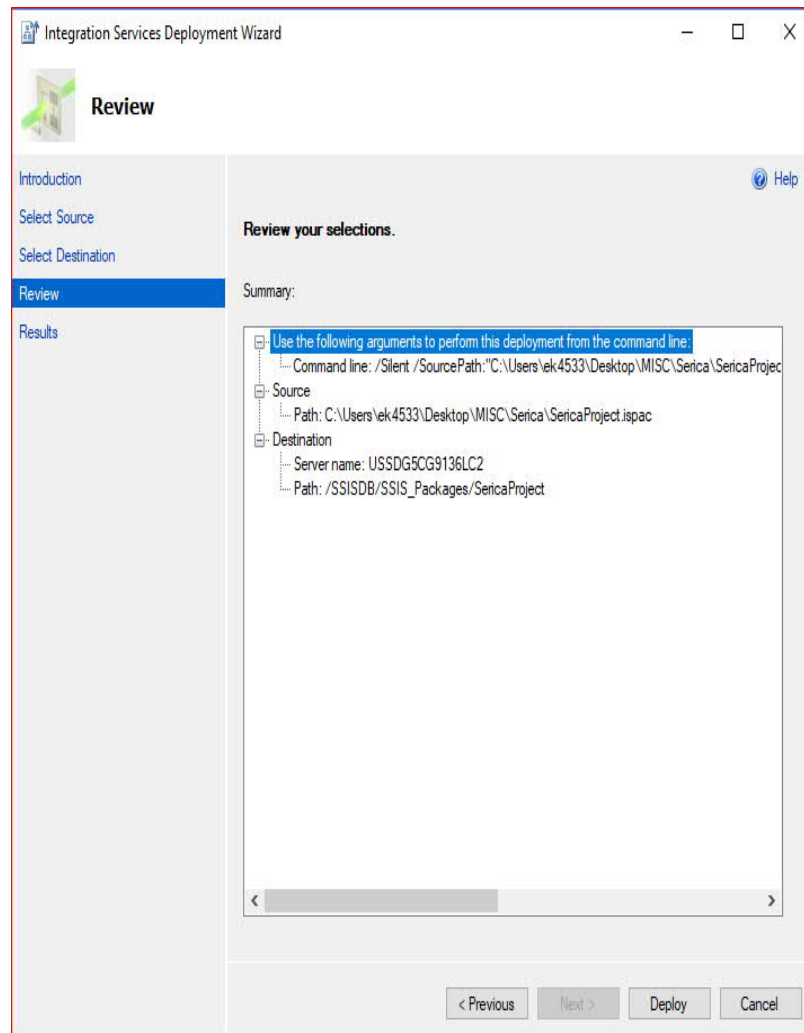
< Previous Next > Deploy Cancel

m. Review

Click the “Deploy” button.

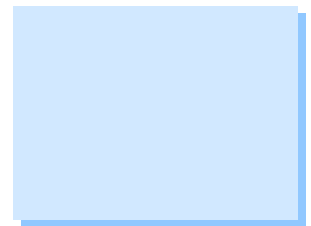
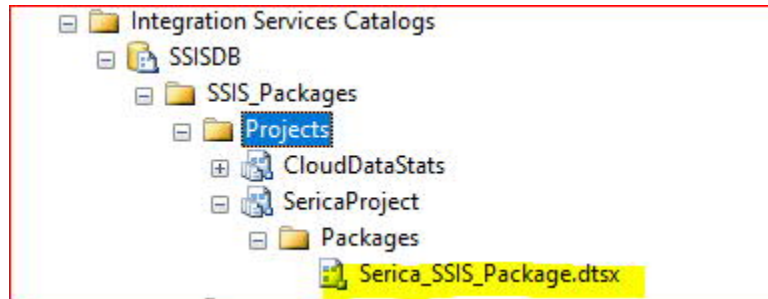
Verify that the Results step displays “Passed”.

Click “Close”.



n. Projects

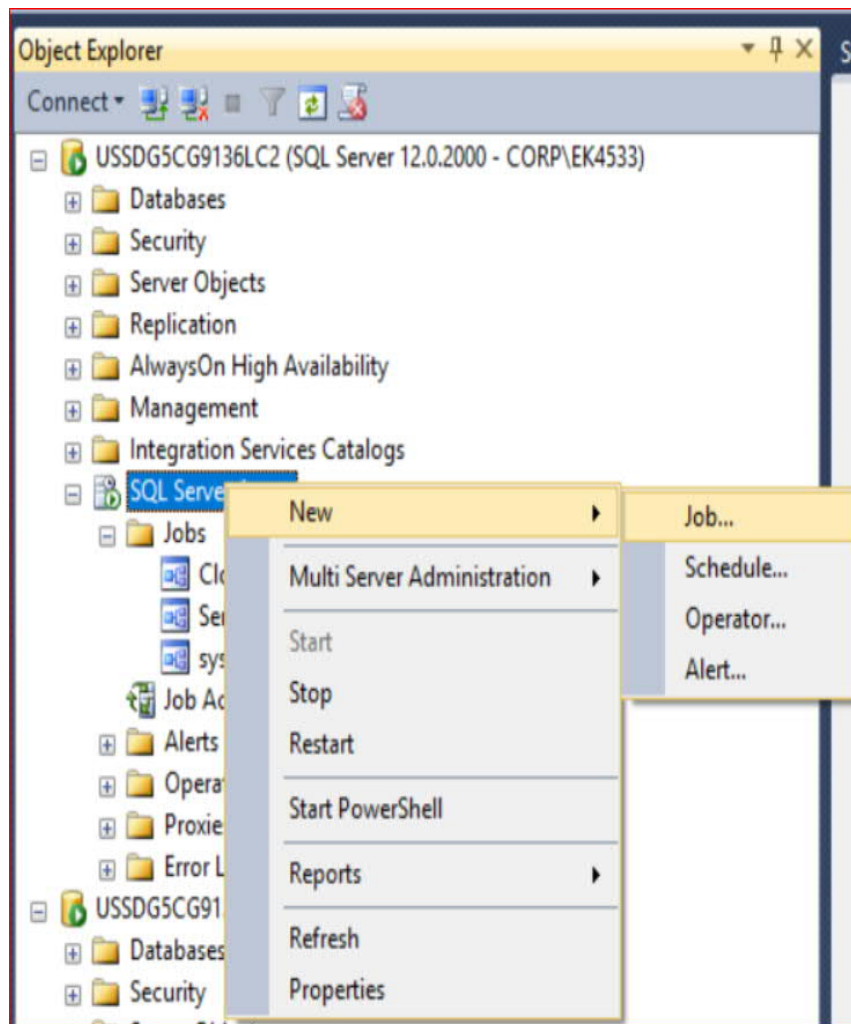
Now verify that the SSIS package has been created under Projects.



Create and Schedule the Serica Job

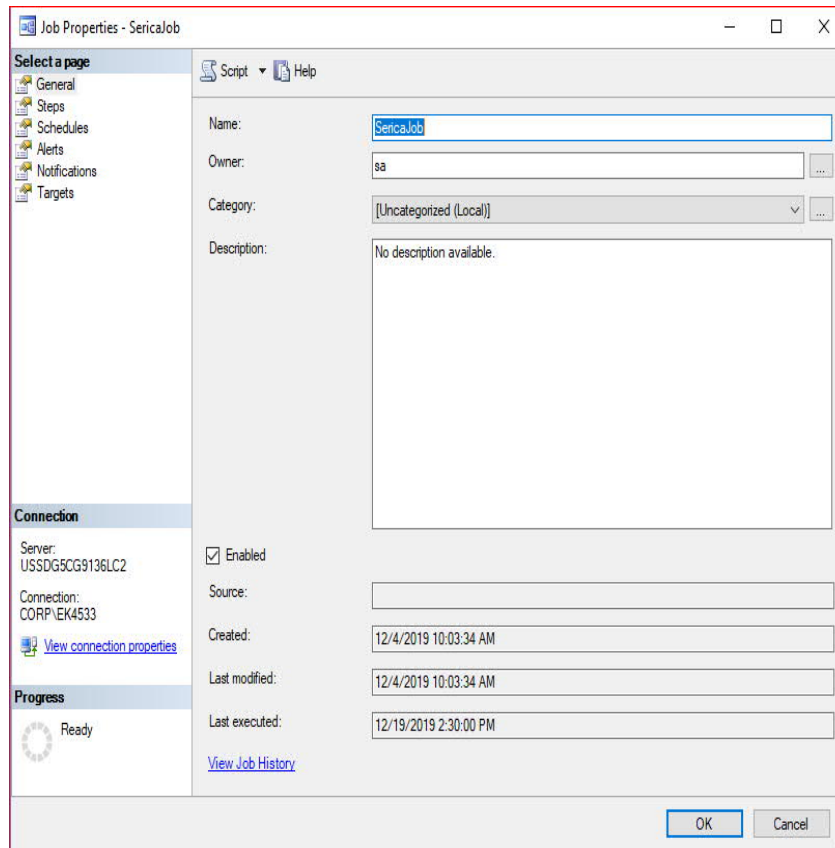
1. Create a New Job

- a. In Object Explorer (Windows Authentication connection), right click on “SQL Server Agent” and select “New”, then “Job...”.



2. Set the properties of the new Job

- a. Enter a name for the job.
- b. Use “sa” or Windows authentication, for the Owner.



Job Properties - SericalJob

Select a page

- General
- Steps
- Schedules
- Alerts
- Notifications
- Targets

Script Help

Name: SericalJob

Owner: sa

Category: [Uncategorized (Local)]

Description: No description available.

Connection

Server: USSDG8CG9136LC2

Connection: CORP\EK4533

[View connection properties](#)

Progress

Ready

[View Job History](#)

Enabled

Source:

Created: 12/4/2019 10:03:34 AM

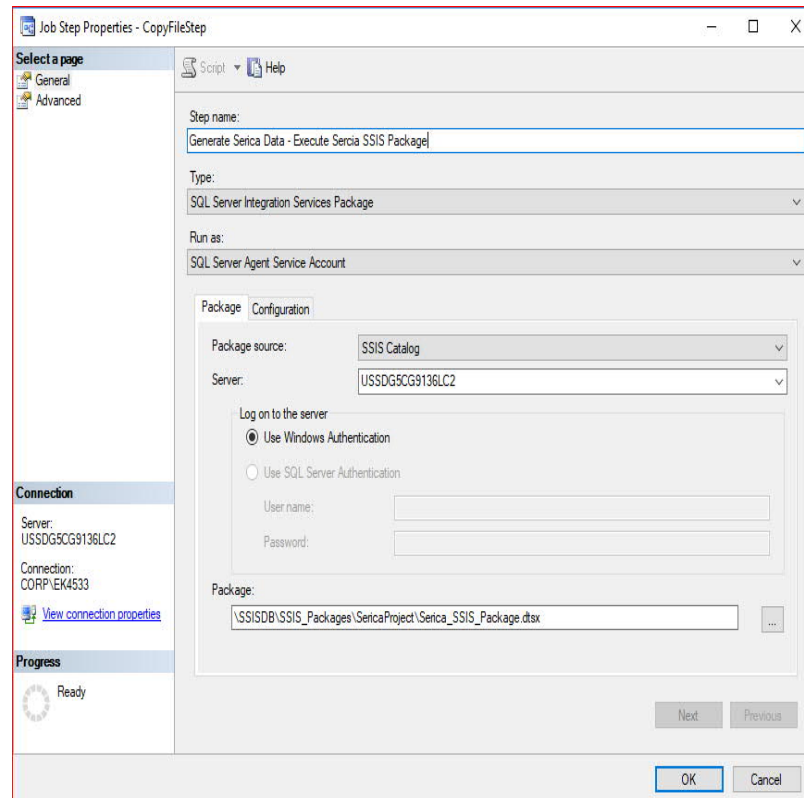
Last modified: 12/4/2019 10:03:34 AM

Last executed: 12/19/2019 2:30:00 PM

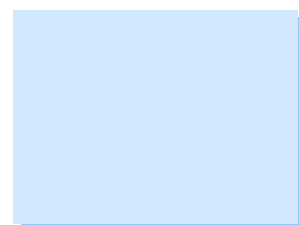
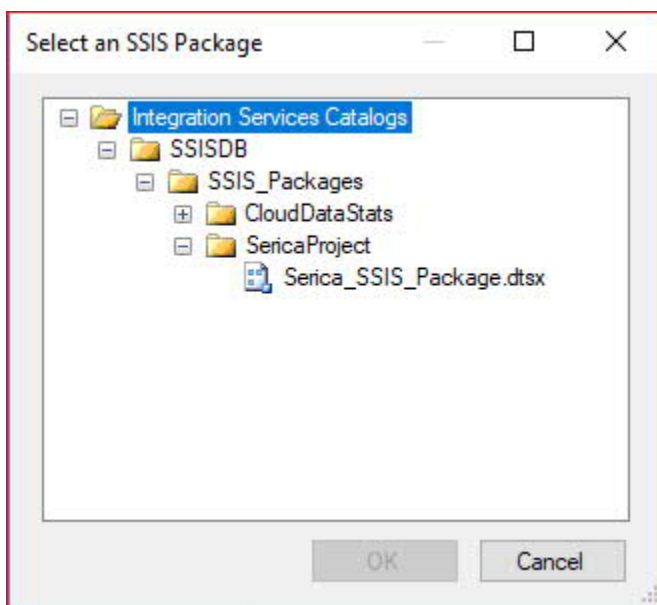
OK Cancel

3. Create a Step to generate the data

- a. Select the “Steps” page, and then click on the “New...” button.
- b. Enter the information displayed below for the Serica package.

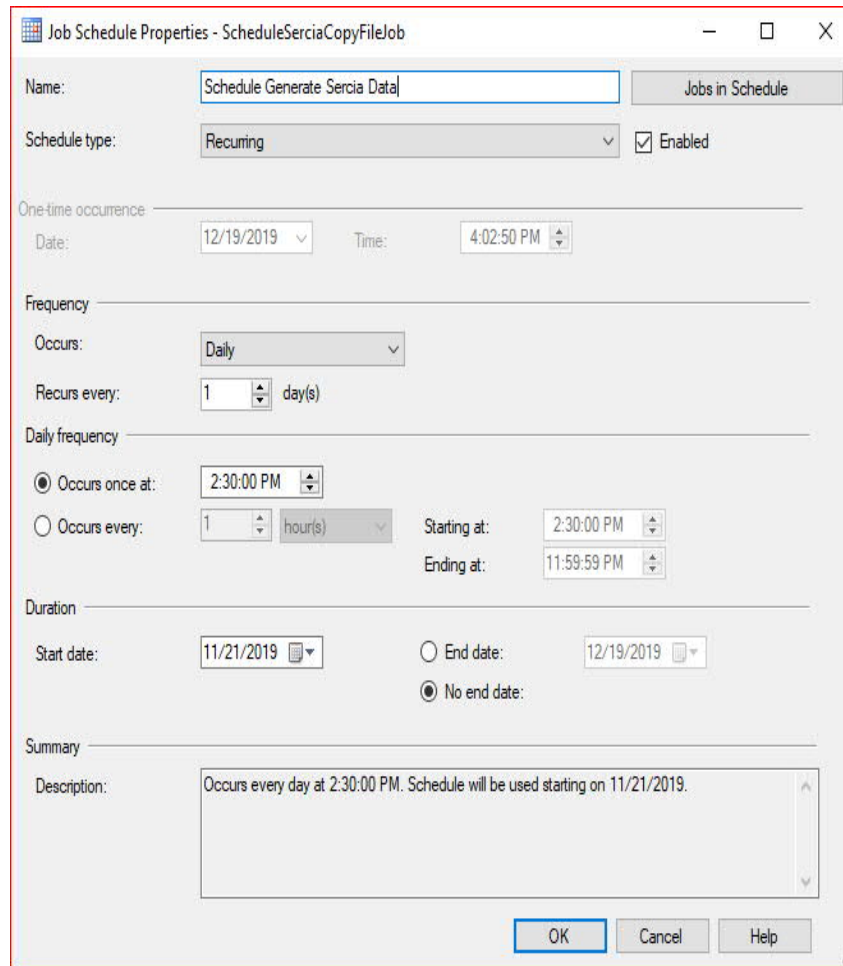


- c. To select the previously created package, click the “...” button and navigate to the Serica package, then click the “OK” button:¶



4. Set the Job Schedule

- a. Select the “Schedules” page, and then click on the “New...” button.
- b. Populate the schedule information as desired, see example below.

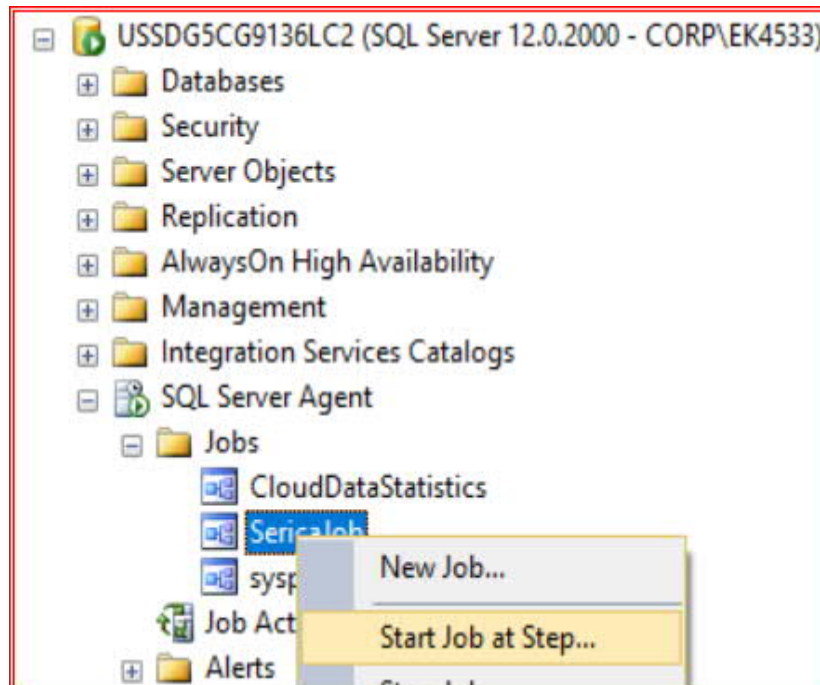


The screenshot shows the 'Job Schedule Properties' dialog box for a job named 'ScheduleGenerateSerciaDataJob'. The dialog is titled 'Job Schedule Properties - ScheduleGenerateSerciaDataJob' and has standard window controls (minimize, maximize, close). The 'Name' field contains 'ScheduleGenerateSerciaDataJob' and there is a 'Jobs in Schedule' button to its right. The 'Schedule type' is set to 'Recurring' and the 'Enabled' checkbox is checked. The 'One-time occurrence' section is collapsed. The 'Frequency' section is expanded, showing 'Occurs' set to 'Daily', 'Recurs every' set to '1' day(s), and 'Daily frequency' options. Under 'Daily frequency', 'Occurs once at' is selected with a time of '2:30:00 PM'. 'Occurs every' is set to '1' hour(s), with 'Starting at' and 'Ending at' times of '2:30:00 PM' and '11:59:59 PM' respectively. The 'Duration' section shows 'Start date' as '11/21/2019', 'End date' as '12/19/2019', and 'No end date' selected. The 'Summary' section has a 'Description' field containing the text: 'Occurs every day at 2:30:00 PM. Schedule will be used starting on 11/21/2019.' At the bottom are 'OK', 'Cancel', and 'Help' buttons.

5. Click OK to close the “Serica Job”

6. Test the data generation

- a. To verify data generation, right click on “SericaJob” (or the job name used) and select “Start Job at Step...”



- b. Verify a CSV file has been created in the folder selected.
See the attached sample file for an example:



SericaExport.csv