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Introduction

Microsoft defines SQL Server Integration Services (**SSIS**) as a platform for building high performance data integration solutions, including extraction, transformation, and load (ETL- **E**xtract, **T**ransform, **L**oad) packages for data warehousing.

A simpler way to think of SSIS is that it's the solution for automating SQL Server.SSIS provides a way to build packages made up of tasks that can move data around from place to place and alter it on the way. There are visual designers (hosted within Business Intelligence Development Studio) to help you build these packages as well as an API for programming SSIS objects from other applications.

This Tech Note uses the Alarm DB for an example.

Application Versions

- Microsoft SQL Server 2005 and later
- SQL Server Intelligence Development Studio

Assumptions

• This Tech Note assumes you are familiar with SQL Server Setup and SQL Server Intelligence Development Studio.

Task Overview

- 1. Installing SQL Server Integration Service
- 2. Using SSIS
- 3. Manually Executing a SQL Server SSIS Package
- 4. Scheduling the SSIS Job

Installing SQL Server Integration Service

Check integration services from the features

Components to Install Select the components to install of	or upgrade,			
SQL Server Database Services				
🔲 Create a SQL Server failover d	luster			
Analysis Services				
🔲 Create an Analysis Server faild	over cluster			
Reporting Services				
Notification Services				
✓ Integration Services				
Workstation components, Books (Online and devel	opment t	ools	
For more options, click Advanced.				Advanced

FIGURE 1: SQL SERVER 2005 SETUP

Feature Selection Select the Enterprise features to clustered. Setup Support Rules Feature Selection	install. For clustered installations, only Database Engine Services a Eeatures: Instance Features	and Analysis Services can be Description:
Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	 Database Engine Services SQL Server Replication Full-Text Search Analysis Services Reporting Services Shared Features Business Intelligence Development Studio Client Tools Connectivity Integration Services Client Tools Backwards Compatibility Client Tools SDK SQL Server Books Online Management Tools - Complete SQL Client Connectivity SDK Microsoft Sync Framework Redistributable Features 	have their own registry hives. They support multiple instances on a computer.
	Select All Unselect All Shared feature directory: C:\Program Files\Microsoft :	SQL Server\

Using SSIS

In this section we will explain in details with example how to benefit SSIS to perform set of tasks on your DB and we will use WWAlarmDB as an example.

Example 1: Extract AlarmMaster Table to a File.

file:///C|/inetpub/wwwroot/t002687/t002687.htm[10/18/2012 2:40:07 PM]

1. Open SQL Server Intelligence Development Studio and create a new Integration Services Project.

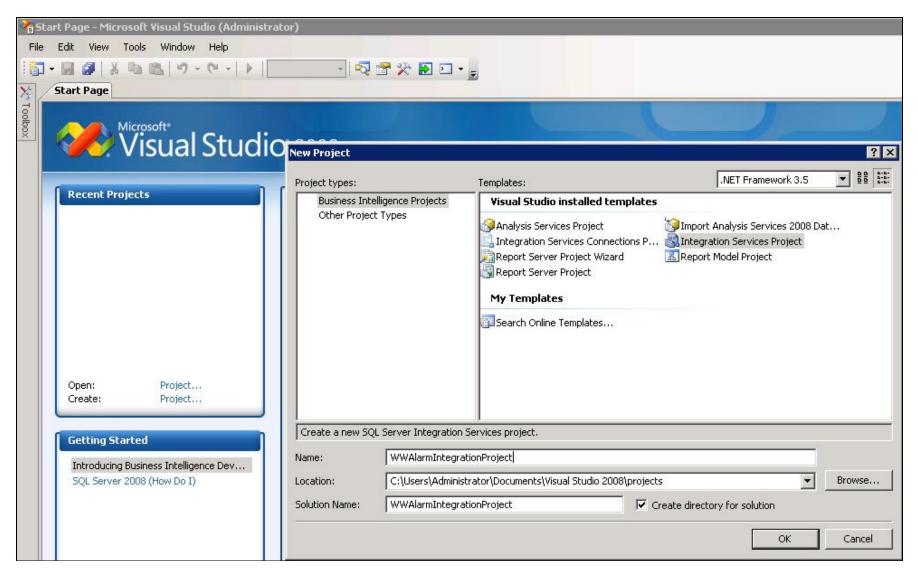


FIGURE 3: SQL SERVER INTELLIGENCE DEVELOPMENT STUDIO: NEW PROJECT

2. Right-click the **Connection Manager** pane to create a new OLE DB Connection (Figure 4 below).

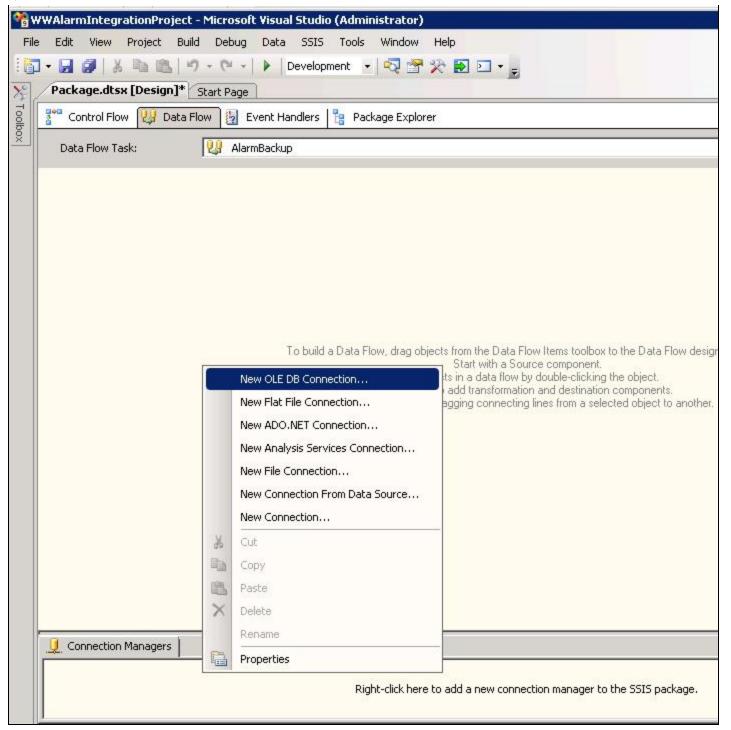


FIGURE 4: CONNECTION MANAGER - NEW OLE DB CONNECTION

3. The Configure OLE DB Connection Manager appears (Figure 5 below).

Configure OLE DB Connection Manager			
To create a connection manager based on prev data connection, and then click OK. To create a			elect a
Data connections:	Da <u>t</u> a connectior	properties:	
	Property	Value	
) N <u>e</u> v	w De	lete
			ancel
	L		

FIGURE 5: CONFIGURE OLE DB CONNECTION MANAGER WINDOW

4. Click the New button to add the connection and configure it (Figure 6 below).

	Server name:
	. Refresh
onnection	_ Log on to the server
	Use Windows Authentication
<u>.</u>	C Use SQL Server Authentication
All	User name:
	Password:
	Fassword; ↓
	Connect to a database • Select or enter a database name:
	WWALMDB
	C Attach a database file:
	Browse
	Logical name;

FIGURE 6: CONNECTION MANAGER WINDOW

For this example, the Dot in the Server name field refers to the local machine. Wonderware recommends using the actual network name of the machine for the local connection. If you need to connect with a remote DB, use the IP address for the machine where the DB exists.

5. Click the Test Connection button to test the connection (Figure 7 below).

	Provider: Na	ive OLE DB\SQL Server Native Client 10.0 Server name:	
ata Flow, Y efine da	Connection	Connect to a database Refresh Refresh Refresh Refresh Refresh Refresh Select or enter a database name:	
	on Manager	WWALMDB	×
4	Test connection s	ucceeded.	ОК
	Test Connect	ion OK Cancel Help	

FIGURE 7: TEST CONNECTION SUCCEEDED MESSAGE

- 6. Click **OK**, then **OK** again to close the Connection Manager window.
- 7. From the connection managers tab, rename the connection (Figure 8 below). In this example, it is **AlarmDBConnection**.

Note: The **Connection Managers** tab lists all configured connections in your project. To modify any connection, just locate it and double-click on it to re-configure it using the **Connection Manager** window.

👤 Connection Managers		
AlarmDBConnection		

FIGURE 8: RENAME THE CONNECTION MANAGER

- 8. Click the Control Flow tab.
- 9. Click the Toolbox tab (at left) and under Control Flow items drag-and-drop Data Flow Task to the main pane (Figure 9 below).

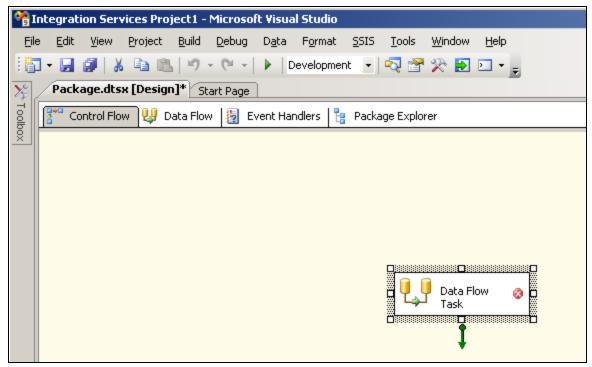


FIGURE 9: NEW DATA FLOW TASK

10. Rename the data flow task AlarmDBToFileTask (Figure 10 below).

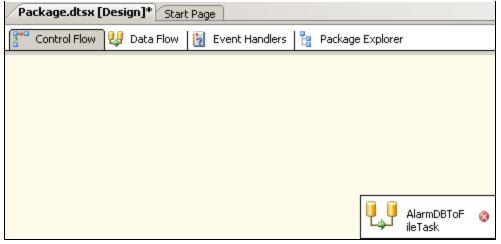


FIGURE 10: RENAME THE DATA FLOW TASK

11. Click the **Data Flow Sources** tab, then drag-and-drop **OLE DB Source** (Figure 11 below) to the main panel. The red x indicates that the source is not configured yet.

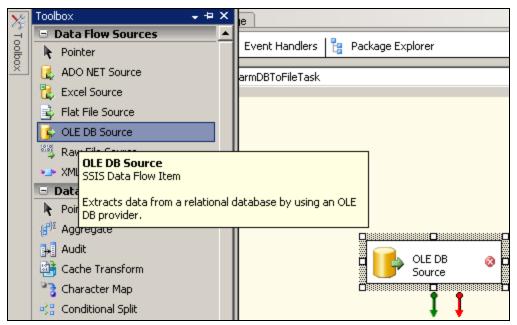


FIGURE 11: OLE DB SOURCE

12. Rename the OLE DB Source. For this example, it is **AlarmDBAlarmMasterTable** (Figure 12 below).

e I	ntegration Services Project1 - Microsoft Visual Studio
File	e Edit View Project Build Debug Data Format SSIS Tools Window Help
16] • 🛃 🎒 🐰 ங 🛍 🌱 • (* • 🕨 Development 🔹 🖏 😤 🎌 🛃 🏹 • 🥫
X	Package.dtsx [Design]* Start Page
X+ Toolbox	🚰 Control Flow 🔱 Data Flow 🛃 Event Handlers 🎦 Package Explorer
<u>×</u>	Data Flow Task: U AlarmDBToFileTask
	AlarmDBAlarmMasterTable 🚳

FIGURE 12: RENAMING THE OLE DB SOURCE

13. Double-click the OLE DB Source. All connections are listed in the OLE DB Source Editor (Figure 13 below).

🕞 OLE DB Source Edito	or 📃 🔍 🗙
Configure the propertie	es used by a data flow to obtain data from any OLE DB provider.
Connection Manager Columns Error Output	Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder.
	OLE DB connection manager: AlarmDBConnection New
	AlarmDBConnection
Select a table or v	Pre <u>vj</u> ew riew from the list.
	OK Cancel <u>H</u> elp

FIGURE 13: OLE DB SOURCE EDITOR

14. Select AlarmDBConnection, then select the dbo.AlarmMaster table from the Name of the table or the view list (Figure 14 below).

🕞 OLE DB Source Edito	r _OX
Configure the propertie	es used by a data flow to obtain data from any OLE DB provider.
Connection Manager Columns Error Output	Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder.
	OLE DB connection manager:
	AlarmDBConnection
	Data <u>a</u> ccess mode:
	Table or view
	Name of the <u>t</u> able or the view:
	[dbo].[AlarmMaster]
• •	Pre <u>v</u> iew
	OK Cancel <u>H</u> elp

FIGURE 14: SELECT DBO. ALARMMASTER TABLE

15. Click **Preview** to display the table content (Figure 15 below)

olumns rror Output	Query result (u	p to the first 200	rows):			
	AlarmId	AlarmGuid	AlarmHandle	ProviderId	GroupName	TagNam 📥
	2943	99D01311	26783992	2	\$System	tag1
	2942	317B8C36	26783992	2	\$System	tag1
	2941	8D3A979	26783992	2	\$System	tag1
	2940	DFFC3F0	26783992	2	\$System	tag1
	2939	5D094EF2	26783992	2	\$System	tag1
	2938	2C63719	26783992	2	\$System	tag1
	2937	A6640D4	26783992	2	\$System	tag1
	2936	B2459916	26783992	2	\$System	tag1
	2935	D5600E58	26783992	2	\$System	tag1
	2934	8460F4F7	26783992	2	\$System	tag1
	2933	8DB9FA1	26783992	2	\$System	tag1
	2932	1AB003B4	26783992	2	\$System	tag1
	2931	2D8ED44	26783992	2	\$System	tagi 💌
	Pre <u>v</u> iew					Close

FIGURE 15: PREVIEW QUERY RESULTS

- 16. Click Close.
- 17. In OLE DB Source Editor, click **Columns**. The table's columns appear. You can uncheck specific columns to be discarded from the results (Figure 16 below).

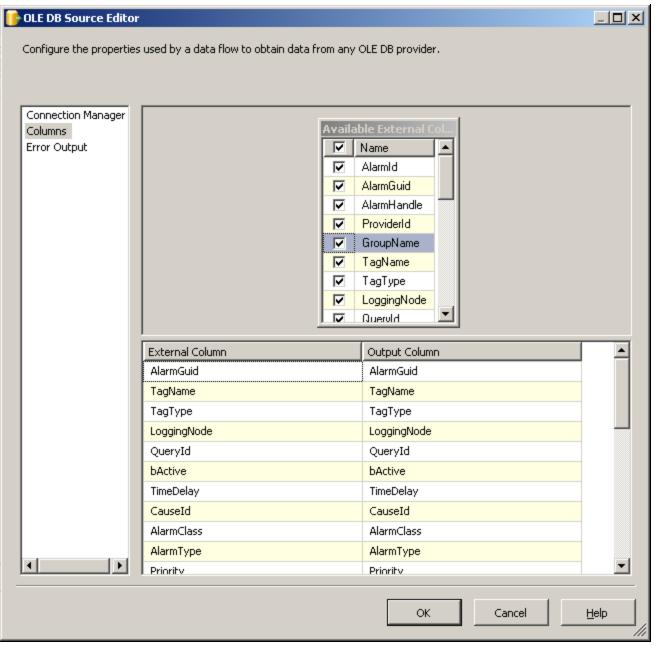


FIGURE 16: SELECT COLUMNS

18. Click **OK**. The Red x disappears, which means that the source is configured properly without errors (Figure 17 below).

X	Package.dtsx [Design]* Start Page
🎌 Toolbox	🚏 Control Flow 🔱 Data Flow 🛐 Event Handlers 💾 Package Explorer
×	Data Flow Task: Q AlarmDBToFileTask

FIGURE 17: ALARMDBALARMMASTERTABLE SOURCE CONFIGURED CORRECTLY

19. Click the Toolbox, and under **Data Flow Destinations** drag-and-drop **Flat File Destination** (Figure 18 below). The red x indicates that the destination is not configured yet.

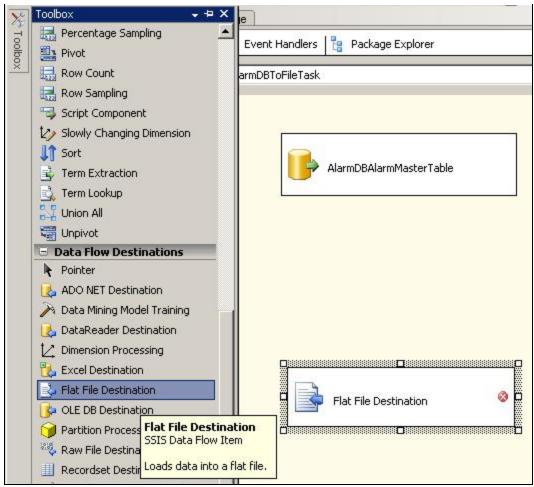


FIGURE 18: FLAT FILE DESTINATION

20. Rename the Flat File Destination. In this example, it is AlarmMasterFile (Figure 19 below).

X	Package.dtsx [Design]* Start Page
🎌 Toolbox	🚏 Control Flow 😕 Data Flow 🛃 Event Handlers 🚦 Package Explorer
ox	Data Flow Task: US AlarmDBToFileTask
	AlarmDBAlarmMasterTable
	AlarmMasterFile 📀

FIGURE 19: RENAME THE FLAT FILE DESTINATION

21. Drag the green arrow from AlarmDBAlarmMasterTable source to AlarmMasterFile destination (Figure 20 below)

T	
l,	

FIGURE 20: CONNECT SOURCE AND DESTINATION

22. Double-click the AlarmMasterFile destination to open the Flat File Destination Editor (Figure 21 below).

Using SQL Server Integration Services (SSIS) to Automate Work with Wonderware DBs

	Flat File Destination	Editor	<u>_ 0 ×</u>
	Configure the propertie:	s used to connect to and insert data into a text file.	
	Connection Manager Mappings	Flat File connection manager:	<u>N</u> ew
		☑ Overwrite data in the file	
		H <u>e</u> ader:	
		Preview	
_	•		
	🔥 Create a new flat fi	le connection manager by clicking New.	
,		OK	

FIGURE 21: FLAT FILE DESTINATION EDITOR WINDOW

- 23. Click New to configure the Flat File connection manager.
- 24. Choose the format of the destination flat file from the Flat File Format window. In this example, the format is Delimited.

25. Click OK (Figure 22 below).

Start Page	🛓 Flat File Destination	Editor
Flow 🛃 Event Handler	Configure the propertie	s used to connect to and insert data into a
AlarmDBToFileTa:		
	Connection Manager	
	Mappings	Flat File connec <u>t</u> ion manager:
Flat File Format		×
Choose the format of the	destination flat file.	
• Delimited		
The columns are delim line character.	iited by commas, except th	e last one which is delimited by the new
C Eixed width		
The columns are defin	ied by fixed widths.	
Fixed width with row d	felimiters	
	ned by fixed widths. An extr o define row delimiters.	ra column, delimited by the new line
C <u>R</u> agged right		
The columns are defin new line character.	ied by fixed widths, except	the last one which is delimited by the
		ОК

FIGURE 22: FLAT FILE FORMAT WINDOW

26. The Flat File Connection Manager Editor opens. Name the connection and click the Browse button to select the file (Figure 23 below).

<u> </u> Flat File Conne	ection Manager Editor			<u>_ X</u>
Connection mana	ager <u>n</u> ame:	AlarmFlatFileConne	ction	
Description:				
General Columns Advanced	Select a file and specify the File name: Locale: Code page: Format: Text gualifier: Header row delimiter: Header rows to skip: Column names in the	itor\Desktop\Ali English (United 1252 (ANSI - L Delimited	armMasterFile.txt States) 💌 🗖 Unice	Browse
		ОК	Cancel	Help

FIGURE 23: FLAT FILE CONNECTION MANAGER EDITOR

- 27. Click OK.
- 28. Click **Mappings** in the **Flat File Destination Editor**. All columns from the **Available Inputs** box connect to their corresponding columns in the **Available Destination** box (Figure 24 below).

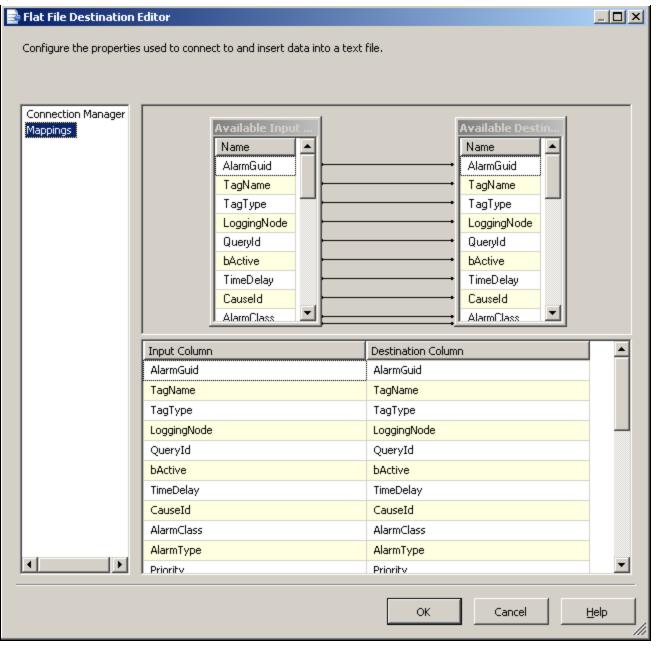


FIGURE 24: MAPPED INPUT COLUMNS TO DESTINATION COLUMNS

29. Click OK. The mapping is complete (Figure 25 below).

AlarmDBAlarmMas	:erTable
AlarmMasterFile	

FIGURE 25: FINAL DATAFLOW

30. Run the project by clicking on the green **Start Debugging** button in the main toolbar. The Green color indicates that everything is mapped correctly (Figure 26 below).

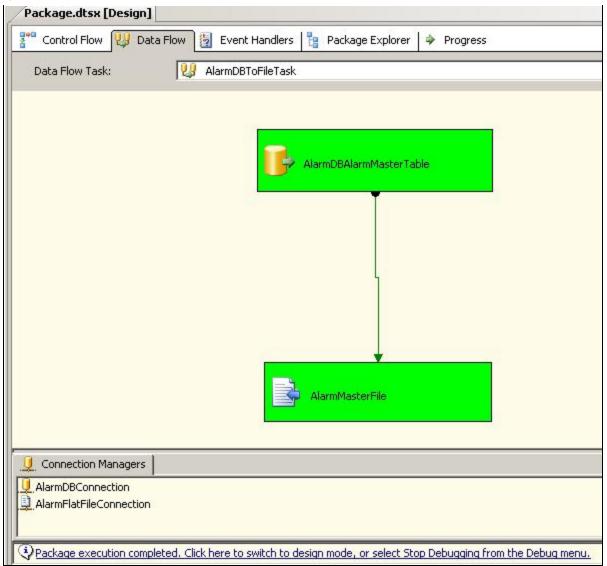


FIGURE 26: START DEBUGGING

31. Verify the file is created successfully by opening it (Figure 27 below). Use the path you configured in Figure 23 (above).

🖥 AlarmMasterfile.txt - Notepad	
Ele Edit Format View Help	
99D01311A3F740AD98625D8A67OCE008, tag1, R, TESTSERVER, 50, 1, 0, , VALUE, HI 317B62364B34B32B926941B80A1D999, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, MI DFFC3F0C99AF41DAB254AC3AD8566231, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, MI DFFC3F0C99AF41DAB254AC3AD8566231, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, MI 2C63719A0AF44269CF07LA493521F19, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493521F19, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493521F19, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493521F219, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493522C801, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493522671, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C63719A0AF44269CF07LA493502504680232C, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO D5600E58F484492295A5E050468023C80, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO D5600E58F414A1C1468CAA0E62B299574EFA, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1133F42059, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1133F42059, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1133F42059, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1138F42079, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1138F42079, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A3CA071FC1138F42073, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2D8E044603164A5C80500C330647182, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2C69855323A498A98AF51C98C130D044C, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2D83684040204F10268E5390A759C746390578, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2D831864204F102685260713C03647182, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2D7918018A8584960A2652500733647182, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, HI 2P69806933C0407EA4D917F811FB3237, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LO 2E6248F66092422F8B89895B385216755, tag1, R, TESTSERVER, 50, 0, 0, , VALUE, LOL 2	1. 70, 70, 73, 831800000000001, 73, 8318, 2022-09-17, 08:46:10, 1400 = 1, 30, 30, 28, 97200000000001, 75, 7009, 2012-09-17, 08:46:08, 1570, 1, 30, 30, 27, 10279999999998, 27, 1028, 2012-09-17, 08:46:08, 1570, 1, 70, 70, 70, 70, 500000000006, 70, 0935, 2012-09-17, 08:46:03, 71700, 1, 30, 30, 29, 90650000000006, 70, 0935, 2012-09-17, 08:46:03, 71700, 1, 30, 30, 29, 906500000000006, 70, 0935, 2012-09-17, 08:46:03, 71700, 1, 30, 30, 29, 906500000000000, 28, 0935, 2012-09-17, 08:46:03, 71700, 1, 30, 30, 29, 906500000000000, 28, 0374, 2012-09-17, 08:46:03, 7670, 1, 30, 30, 29, 906500000000000, 28, 0374, 2012-09-17, 08:46:10, 2670, 1, 70, 70, 70, 93500000000000, 28, 0374, 2012-09-17, 08:45:158, 3270, 1, 30, 30, 29, 906500000000001, 29, 9065, 2012-09-17, 08:45:154, 44300, 1, 70, 70, 70, 70, 39500000000000, 28, 0374, 2012-09-17, 08:45:154, 4430, 1, 30, 30, 29, 906500000000000, 28, 0374, 2012-09-17, 08:45:154, 4430, 1, 30, 30, 29, 906500000000000, 28, 0374, 2012-09-17, 08:45:44, 86, 6700, 1, 70, 70, 70, 03500000000000, 28, 0374, 2012-09-17, 08:45:44, 86, 6700, 1, 70, 70, 70, 035500000000000, 28, 0374, 2012-09-17, 08:45:44, 86, 6700, 1, 70, 70, 70, 035500000000000, 28, 0374, 2012-09-17, 08:45:44, 4570, 1, 30, 30, 29, 906500000000000, 28, 0374, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 0355000000000006, 70, 0935, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 035500000000000, 79, 4393, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 3935000000000000, 79, 4393, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 3935000000000000, 79, 4393, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 3935000000000000, 79, 4393, 2012-09-17, 08:45:40, 4670, 1, 70, 70, 70, 439300000000000, 79, 4393, 2012-09-17, 08:45:30, 6370, 1, 30, 30, 29, 906500000000000, 79, 4393, 2012-09-17, 08:45:30, 6370, 1, 30, 30, 29, 906500000000000, 79, 4393, 2012-09-17, 08:45:30, 6370, 1, 70, 70, 70, 4333000000000000, 79, 4393, 2012-09-17, 08:45:30, 6370, 1, 70, 70, 70, 4333000000000000, 79, 4393, 2012-09-17, 08:45:30, 6370, 1, 30, 30, 29, 906500000000000, 79, 4393, 2012-09-17, 08

FIGURE 27: FILE CREATED SUCCESSFULLY

Example 2: Create WWAlarmDB Backup

1. Create a new Integration Service project and add Back Up Database task from the Maintenance Tasks Pane (Figure 28 below).

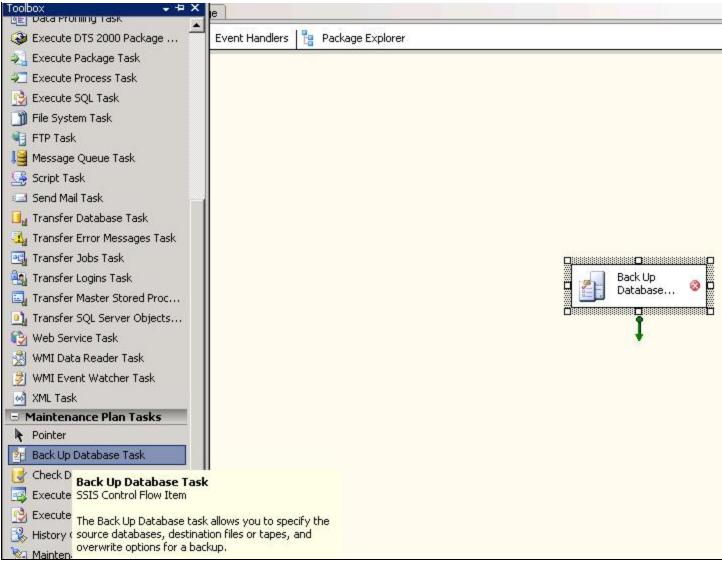


FIGURE 28: BACK UP DATABASE TASK

- 2. Double-click the **Back Up Database** task. The backup database task configuration window appears.
- 3. Click New to create a new connection (Figure 29 below)

Using SQL Server Integration Services (SSIS) to Automate Work with Wonderware DBs

Connection:	AlarmDBConn	•	New
Backup type:	Full		
Database(s):	<select more="" one="" or=""></select>		
Backup component			-
🖸 Database 👫	Connection Properties	×	
C Files and f	Connection name:		
🗖 Backup set w	AlarmDBConn		
🙆 After			
C On S	specify the following to connect to SQL Server data:		
Back up to: 📀	Select or enter a server name:		
🔿 Back up datal			
			Add
	Enter information to log on to the server:		Remove
	 Use Windows NT Integrated security 		TSCITIONG
			Contents
If backup files	C Use a specific user name and password:		
Create a back	User name:		
Create a :	Password:		
Folder:		I	Backup
Backup file ext	OK	Cancel	—
Verify backup integ	witu		4
	, ~,		
Back up the tail of t	the log, and leave the database in the restoring state		
Set backup compression) Use the default server setting		<u>-</u>
	OK Cancel View T	10	Help



4. Select the database to backup. In this example, it is **WWALMDB** (Figure 30 below).

Connection:	AlarmDBConn	New
Backup type:	Full	
Database(s):	<select more="" one="" or=""></select>	
Backup component		
f C Files and filegroups:		
Backup set will expire:	C All databases	
C On	C System databases	
Back up to: 💿 Disk C	cempab)	
Back up databases acro	ss • These databases:	
	Runtime	<u><u><u> </u></u></u>
	SuiteVoyager	iove.
	Test	- tents
If backup files exist:	WWALMDB	
Create a backup file for	ev 🗖 Ignore databases where the state is not online	
Create a sub-direct	ry -	
Folder:	c:	
Backup file extension:	ок с	ancel
Verify backup integrity		
Back up the tail of the l	og, and leave the database in the restoring state	
Set backup compression:	Use the default server setting	79
	0	1

FIGURE 30: SELECT DATABASE TO BACKUP

5. Click **OK** and select the path for the backup.

Note: Pay attention to a **C:** folder that some OSs don't allow for use. It is recommended to use/create something like **C:\bak**.

6. Run the project by pressing **F5** (Figure 31 below).

Pack	kage.dtsx [Desi	gn]							
2 * * C	Control Flow	1	Data Flow	5	Event Handlers	Ŀ	Package Explorer	4	Progress	
									BackupAlarm	DB
. L o	Connection M	anage	ers							
	calHost.WW	ALMDI	в 🚅	SMTR	Connection Man	ager				
P-2. Ala	armDBConn									

Figure 31: Block Converted to green as a result of debugging WWAImDb backup

7. Open C drive, you will find that the backup was created (Figure 32 below)

🌀 🕞 🖉 🗸 Compi	uter 🝷 Local Disk (C:) 🝷	•	Search	
File Edit View Tools	Help			
🕘 Organize 👻 📗 Viev	vs 🔻 📷 Open 🕐 Burn			
Favorite Links	Name 🔺	-	Date modified	Туре
	🔒 Ali		12/26/2011 3:06	File Folder
Documents	🚽 🌽 contract		1/9/2012 2:03 AM	File Folder
📄 Pictures	🚽 🍌 dell		9/2/2010 4:30 PM	File Folder
Nusic Nusic	🚽 🌗 display		1/9/2012 2:47 AM	File Folder
More »	🔋 🌽 Historian		12/27/2011 11:1	File Folder
	📄 🌽 inetpub		12/27/2011 10:2	File Folder
Folders	🧹 🌗 L00118283		1/9/2012 2:03 AM	File Folder
	🔋 🌗 PerfLogs		1/19/2008 1:40 AM	File Folder
Nesktop	🚽 🍌 Program Files		1/17/2012 12:18	File Folder
Administrator	🔋 🄑 test		1/9/2012 1:47 AM	File Folder
iii Public	🛛 🍌 Users		12/27/2011 11:1	File Folder
👰 Computer	🔡 Windows		12/27/2011 10:4	File Folder
🚢 Local Disk (C:)	BOOTSECT.BAK		9/2/2010 4:34 PM	BAK File
👝 Local Disk (D:)	errorlog		12/28/2011 4:29	Text Docur
💮 DVD RW Drive (E	:) : IView		1/18/2012 8:22 PM	Text Docur
👝 Removable Disk ((F:) VIRTPART.DAT		9/5/2010 10:17 AM	DAT File
🚄 Removable Disk (G; WWALMDB_backup_2012_01_23_055921_5790000.bak		1/23/2012 5:59 AM	BAK File
🦲 Removable Disk ((H:)	۲.		
🧮 Removable Disk (Type: BAK File	
CD Drive (J:)			Size: 1.89 MB Date modified: 1/23/:	2012 5:59 4
			init-of	

FIGURE 32: CONFIRM BACK UP FILE

Manually Executing a SQL Server SSIS Package

Using the Execute Package Utility (DTEXECULEXE) graphical interface, you can execute an SSIS package that is stored in a File System, SQL Server or an SSIS Package Store.

1. Run the command DTEXECULEXE to open up the Execute Package Utility (Figure 33 below).

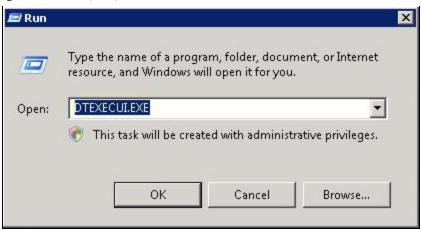


FIGURE 33: DTEXECUIEXE

The Execute Package Utility window appears.

2. From the General tab, choose the Package source as File System (Figure 34 below).

General Configurations Command Files Connection Managers	Select the package to n	un from a storage location.	
Execution Options Reporting	Package source:	File system	
 Preporting Logging Set Values Verification Command Line 		ver vs Authentication rver Authentication	
	Package:		

FIGURE 34: EXECUTE PACKAGE UTILITY INTERFACE

3. Use the Package ellipsis button to locate the SSIS Package file (Figure 35 below)

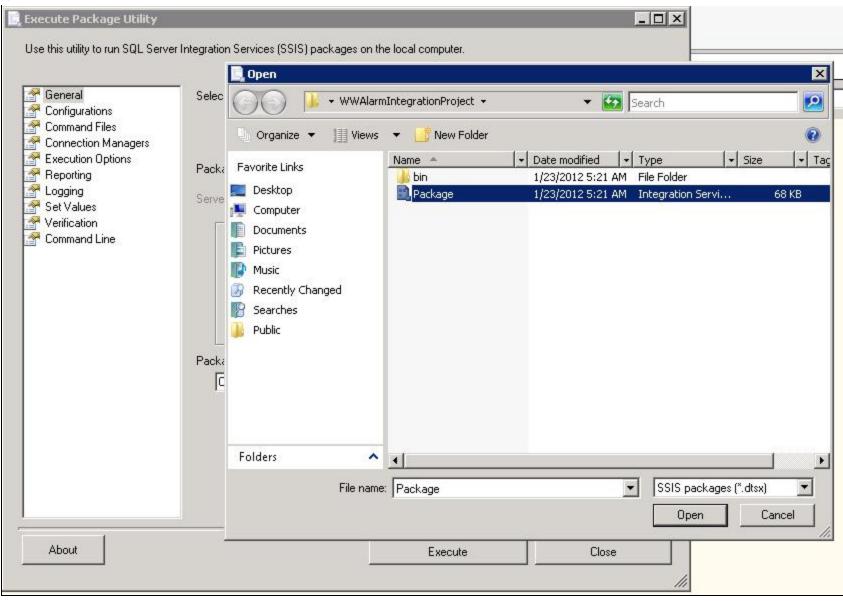


FIGURE 35: SELECT PACKAGE

4. Click Open, then Execute. The Package Execution Progress window appears (Figure 36 below).

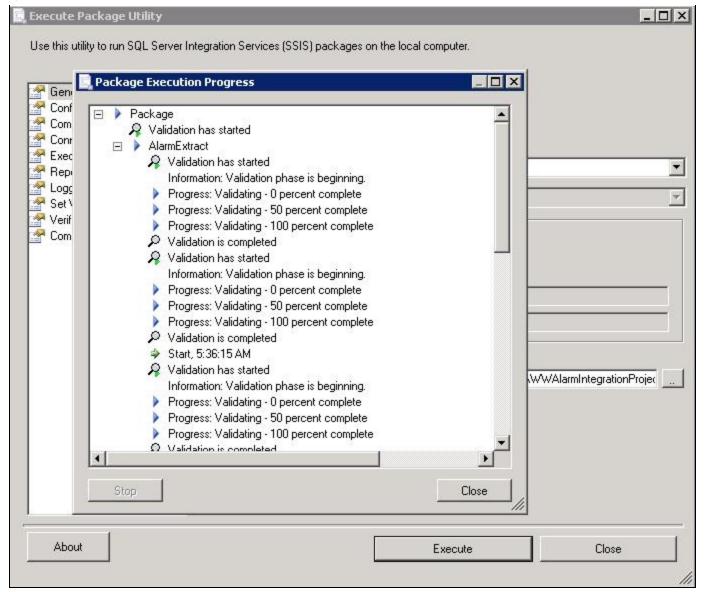


FIGURE 36: PACKAGE EXECUTION PROGRESS

Scheduling the SSIS Job

- 1. Open SQL Server Management Studio and click SQL Server Agent.
- 2. Right-click SQL Server Agent, then Start to start the SQL Agent (Figure 37 below).

	New 🕨
⊕ Security ⊕ Server Objects	Multi Server Administration
E C Replication	Start
	Stop
E Dobs	Restart
■ syspolicy_ ■ Update_U	Start PowerShell
📆 Job Activity M 🕀 🧰 Alerts	Reports +
🕀 🧰 Operators	Refresh
Ready Province	Properties
🥂 Start 🛛 🚠 📰 🄏	Microsoft SQL Server

FIGURE 37: START THE SQL SERVER AGENT

		SELECT TOP 1	000 [EventStamp]
	art the SQLSERVERAGENT service on	GC501?	
45		Y	es No
		, [Cate	

FIGURE 38: CONFIRM START

- 3. Click Yes to start the SQL server Agent
- 4. Expand the SQL Server Agent item and click Jobs.
- 5. Right-click **Jobs** and click **New job** (Figure 39 below).



FIGURE 39: NEW JOB

- 6. Click the General tab and configure the following:
 - · Job name,
 - The Job owner,
 - Category
 - Description (Figure 40 below)

🅞 New Job				
Select a page	🔄 Script 🝷 🚺 Help			
General Steps Schedules Alerts	Name:	Type the job name here		
Alerts	Owner:	GCS08\Administrator		
Targets	Category:	Database Maintenance		.
Connection	Description:	DB Maintenance job.		
Server: GCS08 Connection: GCS08\Administrator Mew connection properties Progress Ready	Enabled			
			ОК	Cancel

FIGURE 40: GENERAL JOB DATA

7. Click the **Steps** page and click New to create new job step (Figure 41 below).

📧 New Job					<u>_ ×</u>
Select a page	🔄 Script 🔸 📑 Help				
🚰 Steps	Job step list:				
Schedules Alerts Notifications Targets	St Name		Туре	On Success	On Failure
Connection					
Server: GCS08 Connection:					
GCS08\Administrator					
Progress	Move step:	Start step:			
Ready		insert	Edit	De	elete
			/ <u></u>		
				ОК	Cancel

FIGURE 41: NEW JOB STEP

8. In the General page, type the Step name, select SQL Server Integration Services Package for the Type.

The SQL Server Agent Service Account is selected by default for Run as (Figure 42 below).

💽 New Job Step		. 🗆 🗙
Select a page	🖾 Script 👻 📑 Help	
General		
Advanced	Step name:	
	Execute SSIS package	
	Type:	
	SQL Server Integration Services Package	
	Run as:	
	SQL Server Agent Service Account	-
	Set values Verification Command line	
	General Configurations Command files Data sources Execution options Logging	
	Package source: File system	a
		-
	Server:	
	Log on to the server	
	Use Windows Authentication	
0	C Use SQL Server Authentication	
Connection	C Use Sull Server Aumentication	
Server: GCS08	User name:	
Connection:	Password:	
GCS08\Administrator		
View connection properties	Package:	
Progress		
Ready		
Weap of	Next Previou	s
	OK Cance	el 1

FIGURE 42: CONFIGURE A NEW JOB STEP

9. Select File System as the Package Source and provide the location of the SSIS package in the Package field (Figure 43 below).

🛯 New Job Step					
Select a page	🖾 Script 👻 🚺 Help				
😤 General 😤 Advanced					
Auvanceu	Step name:				
	Execute SSIS Package				
	Туре:				
	SQL Server Integration Services Package				
	Run as:				
	SQL Server Agent Service Account				
	Set values Verification Command line				
	General Configurations Command files Data sources Execution options Logging				
	Package source: File system				
	Server:				
	Log on to the server				
	 Use Windows Authentication 				
Connection	C Use SQL Server Authentication				
Server:	User name:				
GCS01	Password:				
Connection: GCS01\Administrator	1 dssmold.				
View connection properties	Package:				
	C:\Users\Administrator\Documents\Visual Studio 2008\Projects\WWAlarmIntegrat				
Progress					
Ready					
Can'	Next Previous				
(23) (D					
	OK Cancel				
	OKCancel				

FIGURE 43: CHOOSE SQL SERVER AGENT SERVICE ACCOUNT FROM LIST

10. Click Schedules then right-click and click New to create a Job Schedule (Figure 44 below).

Explorer	New Job Schedule	
New Job	Name:	Schedule1 Jobs in Schedule
elect a page General	Schedule type:	Recurring 🔽 🔽 Enabled
Steps Schedules	One-time occurrence Date:	1/23/2012 Time: 5:45:52.AM 🚔
Alerts Notifications Targets	Frequency	
	Occurs:	Weekly
	Recurs every:	1 🕂 week(s) on
		🗖 Monday 🔲 Wednesday 🔲 Friday 🔲 Saturday
		🗖 Tuesday 🗖 Thursday 🔽 Sunday
	Daily frequency	
	Occurs once at:	12:00:00 AM
	O Occurs every:	1 - hour(s) Starting at: 12:00:00 AM
		Ending at: 11:59:59 PM
nection	Duration ———	
ver:	Start date:	1/23/2012 C End date: 1/23/2012
S01		No end date:
nnection: S01\Administrato	Summary	
View connectio	Description:	Occurs every week on Sunday at 12:00:00 AM. Schedule will be used starting on 1/23/2012.
gress		·
Ready		OK Cancel Help



- 11. Click ${\bf OK}$ to save the job step settings.
- 12. Click \mathbf{OK} again to save the SQL Server Agent Job.
- R. Mahmoud

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