

Control Flow Basics

Performing tasks in Integration Services



Overview

- Connection Managers
- Tasks
- Precedence Constraints
- Containers

Connection Managers

- Usage

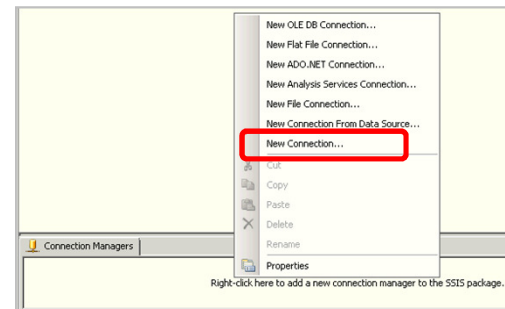
- Control flow task or container
- Data flow source, destination, transformation
- Log provider

- Creation

- Connection property



- Connection Manager Tray



Connection Managers

Built-In

- ADO
- ADO.NET
- CACHE
- EXCEL
- FILE
- FLATFILE
- FTP
- HTTP
- MSMQ
- MSOLAP100
- MULTIFILE
- MULTIFLATFILE
- OLEDB
- ODBC
- SMOServer
- SMTP
- SQLMOBILE
- WMI

Download from Microsoft

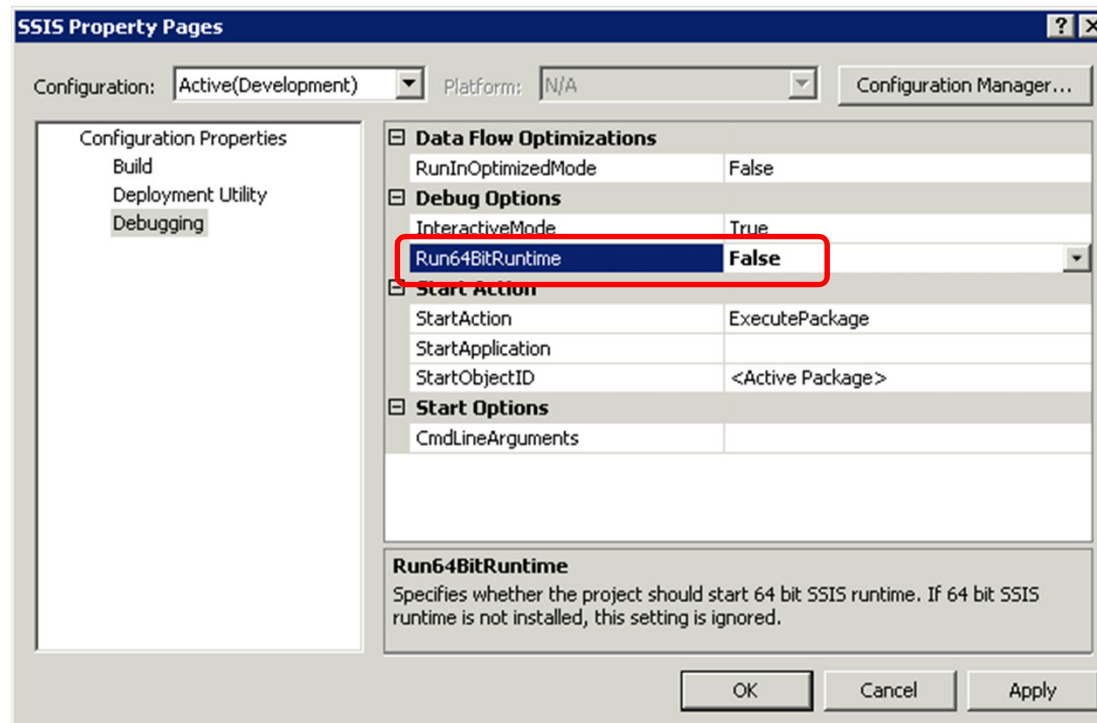
- ORACLE
- TERADATA
<http://tinyurl.com/3yy59br>
- SAP Netweaver BI
<http://tinyurl.com/66ylj2t>

Need something else?

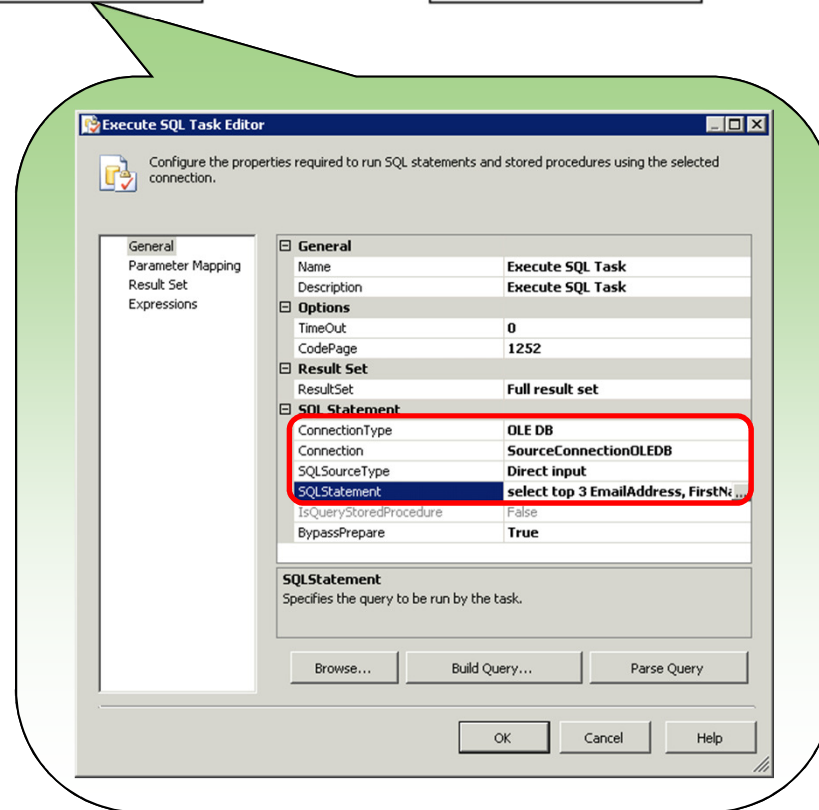
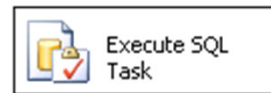
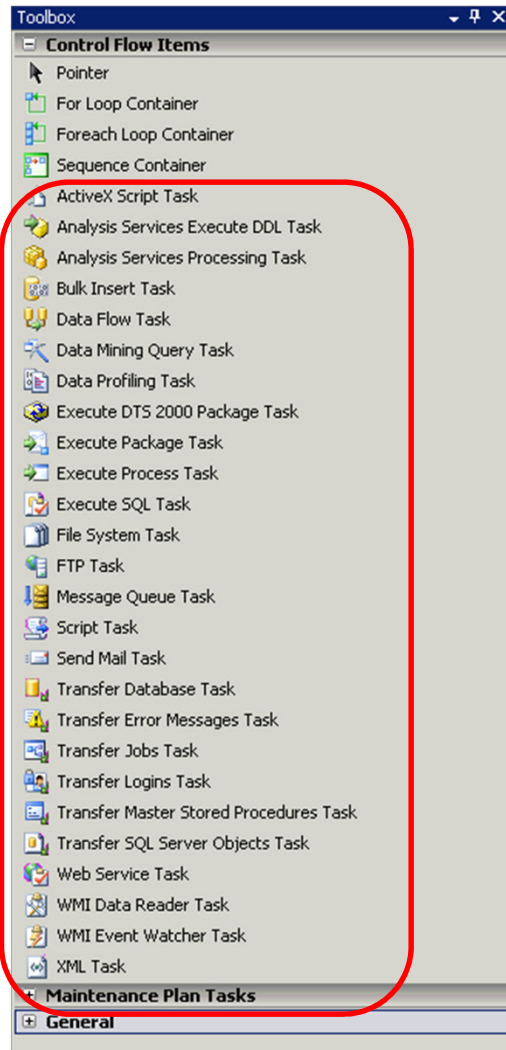
Develop a custom connection manager!

32-Bit versus 64-Bit Providers

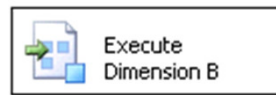
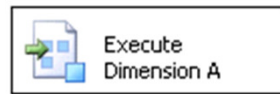
- Install BIDS or Management Tools-Complete for both 32-bit and 64-bit
- Connect to Access or Excel using 32-bit mode OLE DB Provider for Jet
 - Or download 64-bit provider from <http://tinyurl.com/6azx5mf>



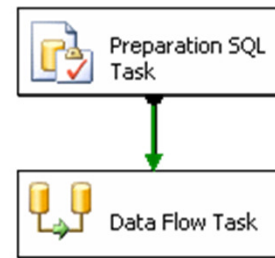
Tasks



Precedence Constraints



Parallel execution



Sequential execution

Success



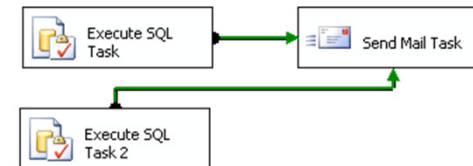
Failure



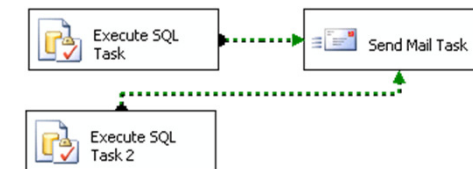
Completion



@Count>5

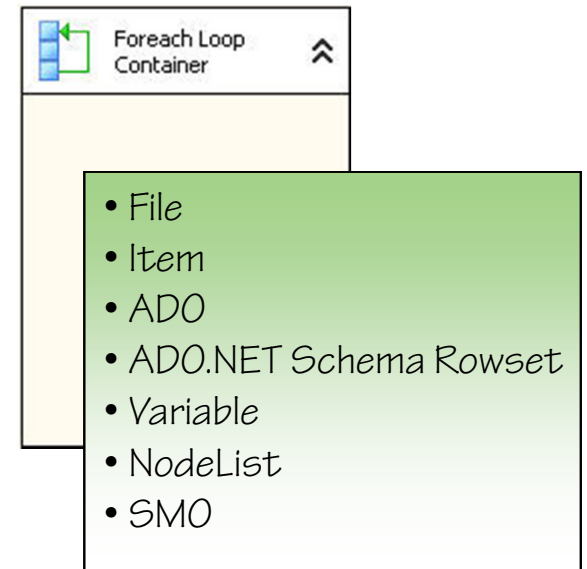
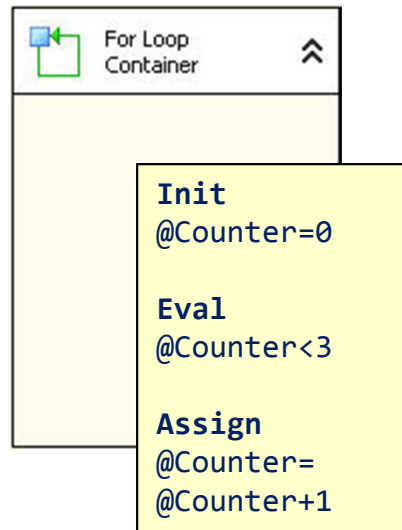
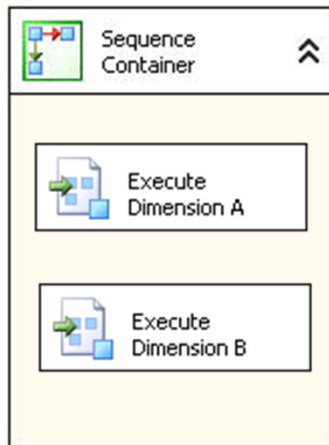


AND



OR

Containers



- Set properties once for multiple tasks
- Control subsequent flow
- Define scope for variables
- Combine tasks into a transaction
- Create event handler

Summary

- **Connection Managers**
 - Control flow task or container
 - Data flow source, destination, transformation
 - Log provider
- **Tasks**
 - Discrete units of work
- **Precedence Constraints**
 - Sequence tasks based on success, failure, completion, or expression
- **Containers**
 - Sequence, For Loop, For Each Loop

References

- **Integration Services Connections**
 - <http://msdn.microsoft.com/en-us/library/ms140203.aspx>
- **64 bit Considerations for Integration Services**
 - <http://msdn.microsoft.com/en-us/library/ms141766.aspx>
- **Control Flow Elements**
 - <http://msdn.microsoft.com/en-us/library/ms137681.aspx>