

Package Execution

Automating package execution

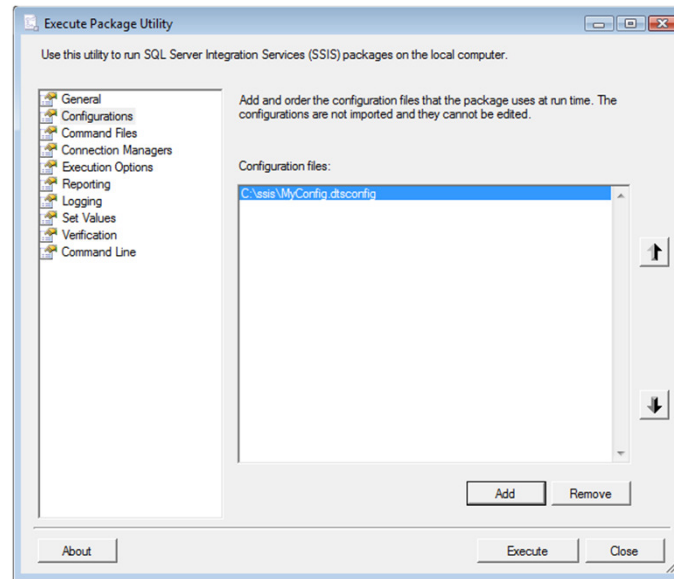


Overview

- Package Execution Utilities
- SQL Server Agent Jobs
- Package Storage vs. Execution Location

Package Execution Utilities

- DTEXecUI

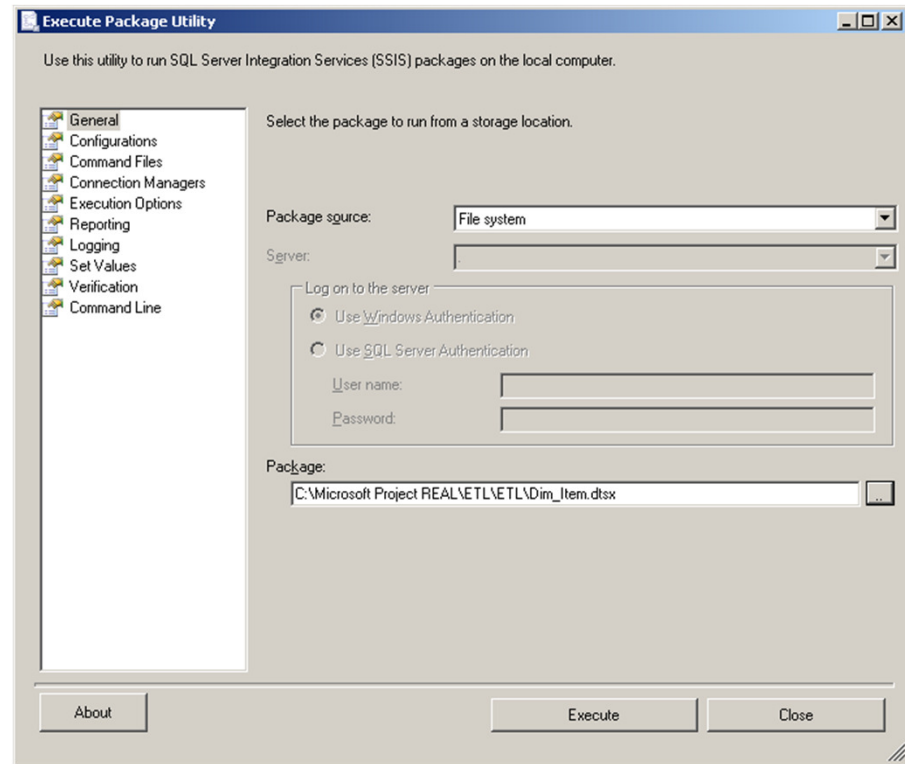


- DTEXec

```
/FILE "path\package.dtsx"  
/CONFIGFILE "C:\ssis\MyConfig.dtsconfig"  
/MAXCONCURRENT " -1 " /CHECKPOINTING OFF /REPORTING EW
```

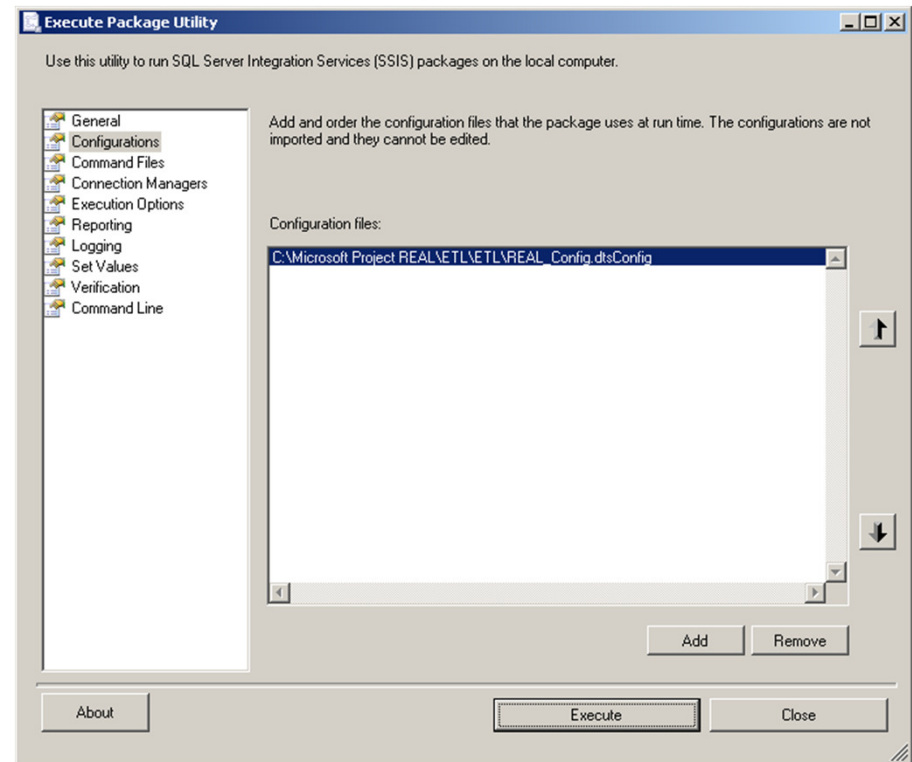
DTEXecUI – General Settings

- **Select package source**
 - File system
 - SQL Server
 - SSIS Package Store
- **Select package to execute**



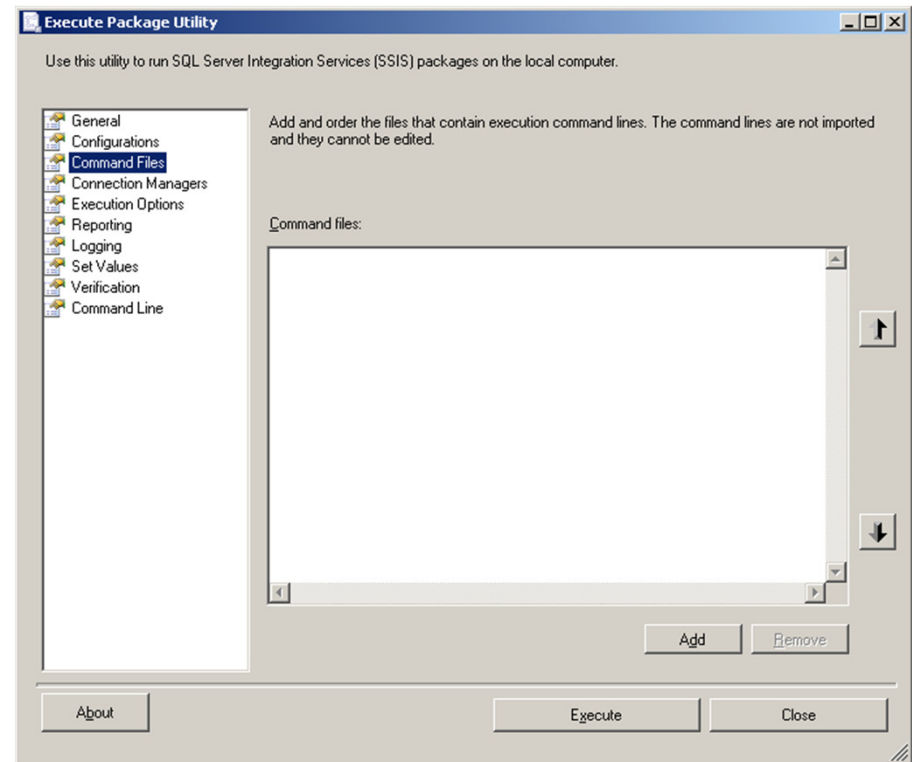
DTEXecUI - Configurations

- Edit configuration files in separate tool
- Add configuration files
- Arrange configuration files in sequence (last one wins in case of conflict)



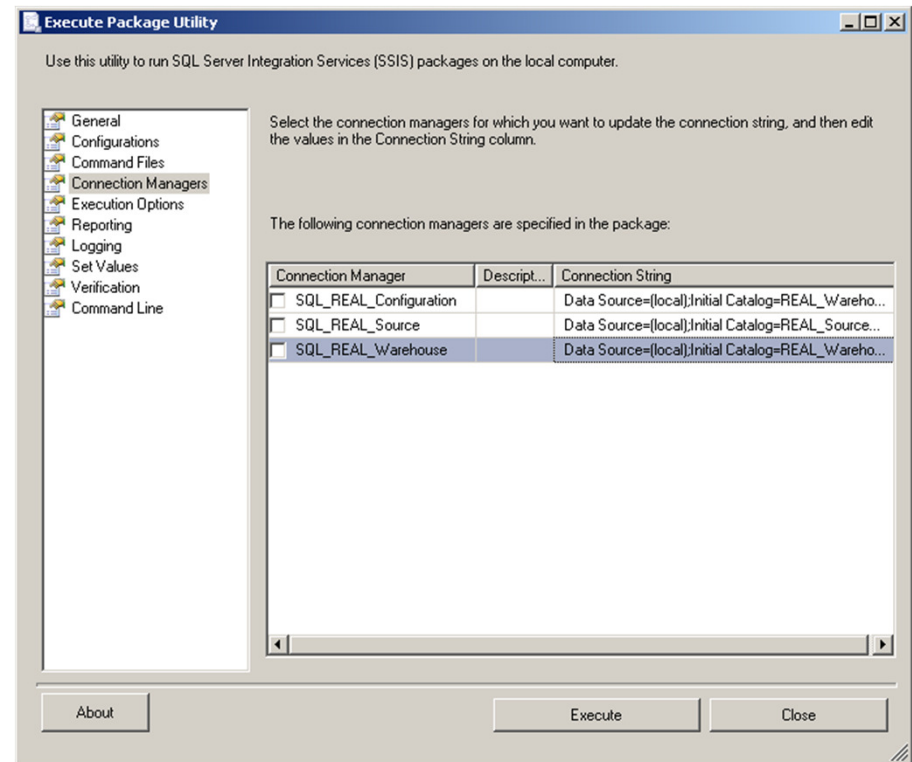
DTEXecUI – Command Files

- Store DTEXec switches in command file for reuse
- Add command files
- Arrange command files in sequence



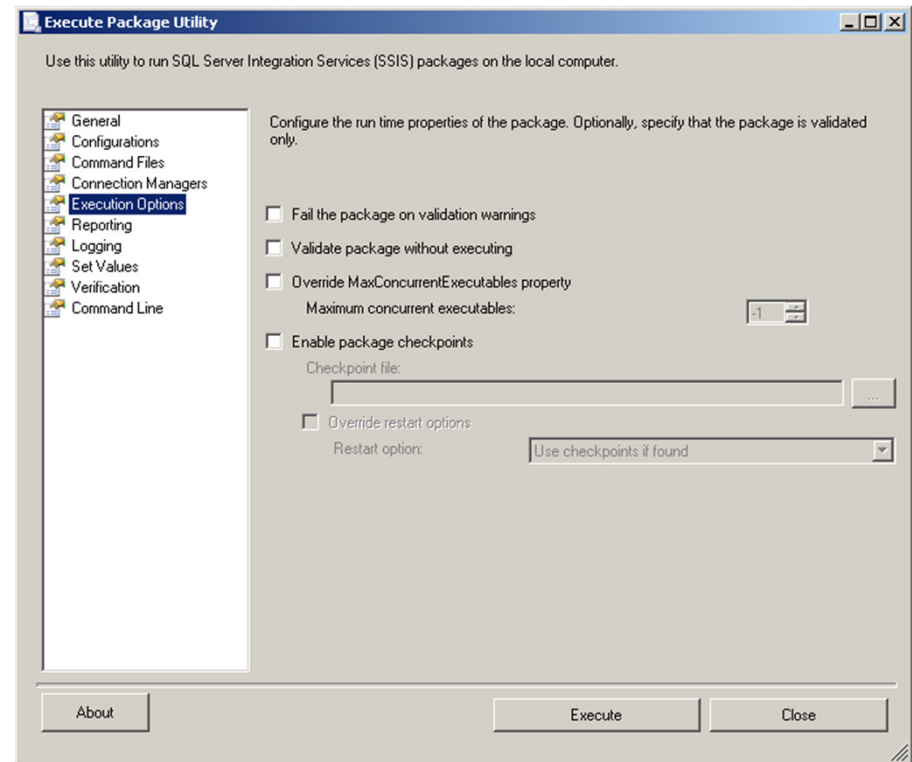
DTExecUI – Connection Managers

- **Override connection strings associated with connection managers in package**



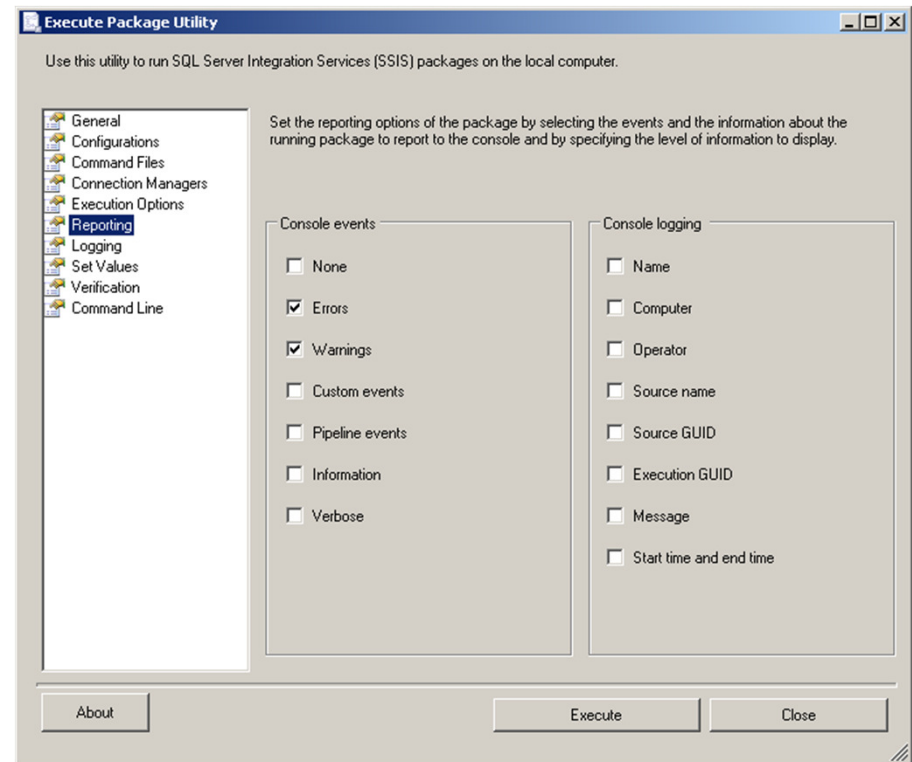
DTExecUI – Execution Options

- Fail on validation warnings
- Validate only
- Set MaxConcurrentExecutable property
 - Default -1
 - Two tasks plus number of CPUS run concurrently
- Configure checkpoints



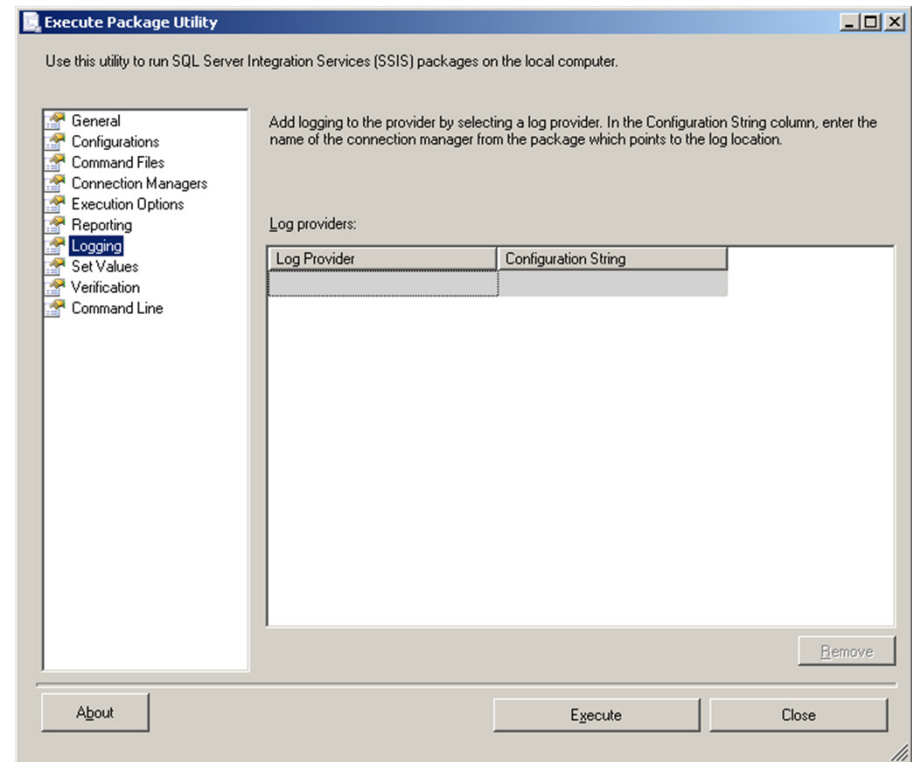
DTExecUI - Reporting

- Configure details to show in console during package execution
- Default = errors, warnings



DTExecUI - Logging

- **Configure additional logging options for package**
 - Select log provider type
 - Select connection manager already defined in package

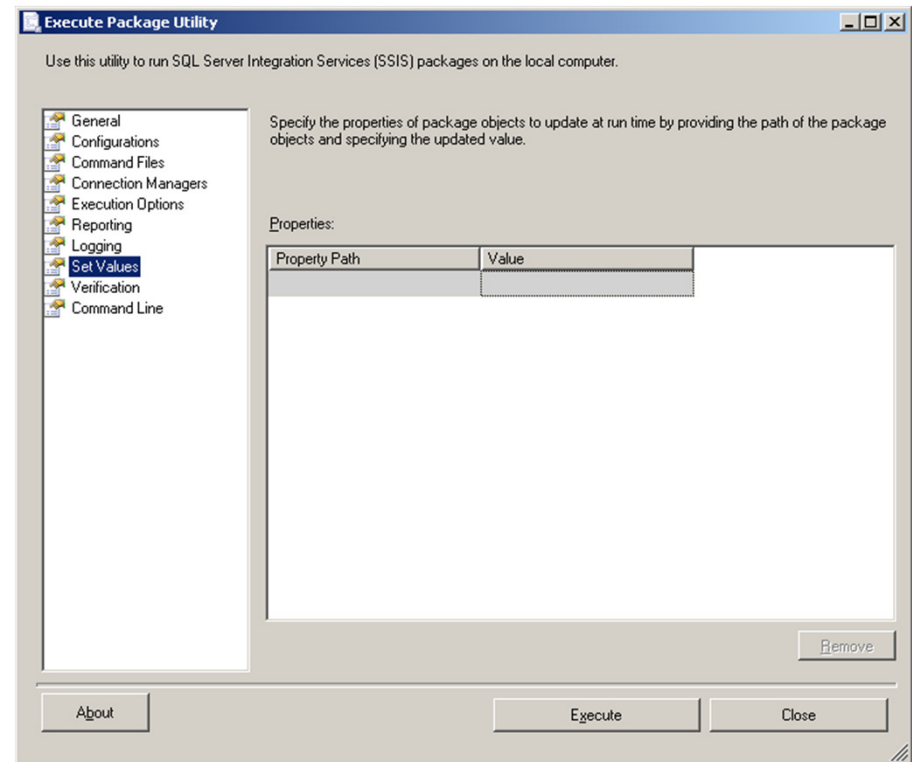


DTExecUI – Set Values

- **Set run-time overrides**

- Package properties
- Container properties
- Task properties
- Connection managers
- Event handlers
- Log providers
- Variable values

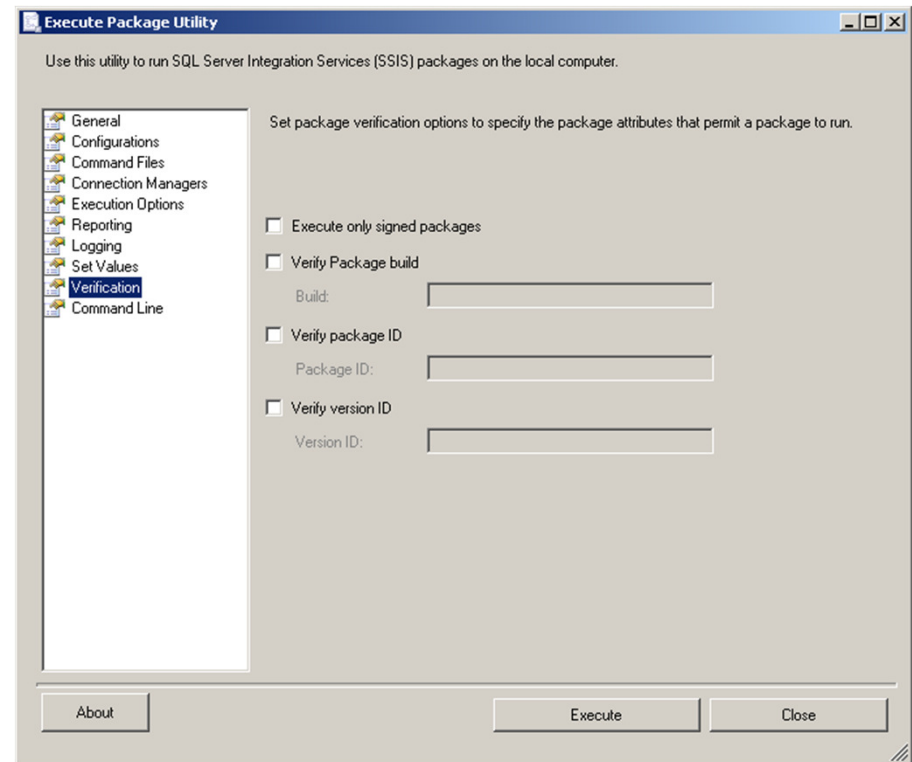
- **Example path:**
\Package.Variables[VariableName].Value



DTEXecUI - Verification

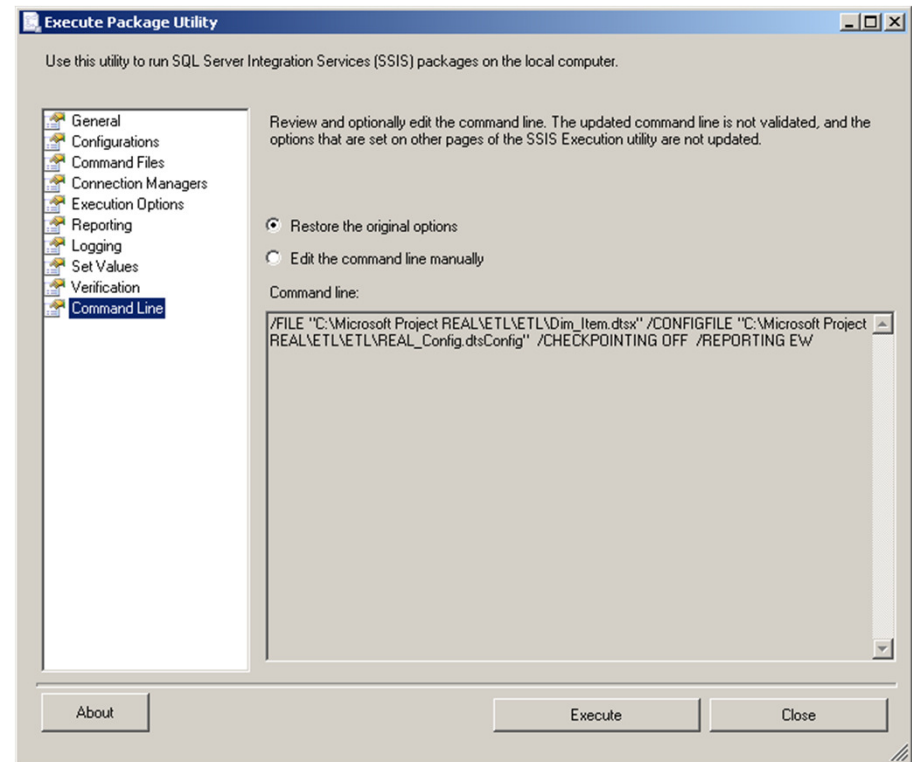
- **Control conditions of execution**

- Require digital signature
- Require specific build or version



DTExecUI – Command Line

- Copy command line switches for use with DTExec utility
- Manually modify command line before execution in DTExecUI



SQL Server Agent Jobs

Security context –
use proxy account
as alternative

Step name:
Execute 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

Server:

Log on to the server

☒ Use Windows Authentication

☐ Use SQL Server Authentication

User name:

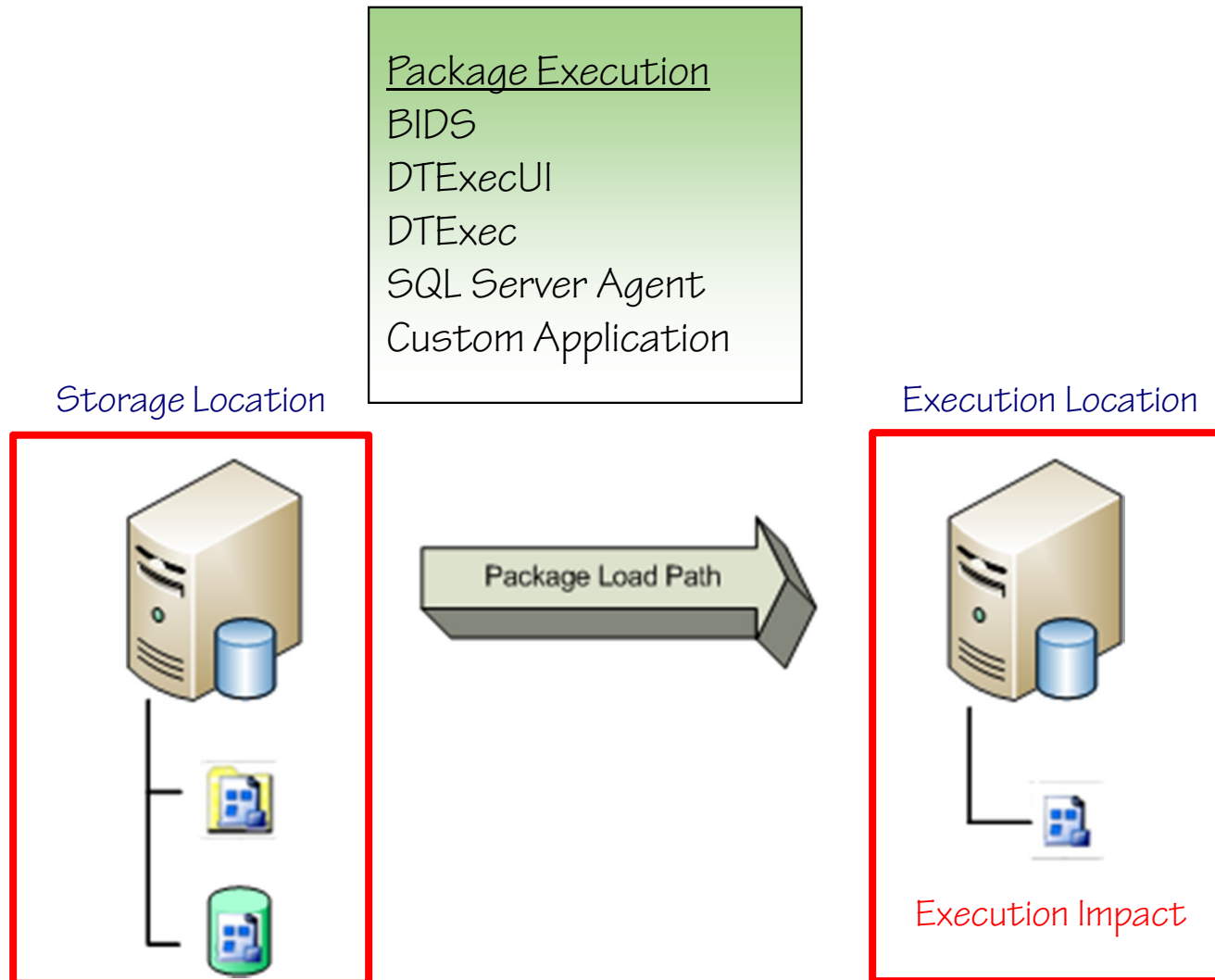
Password:

Package:
C:\ssis-basic-data\package.dtsx

Next Previous

Identical to DTEXECUI

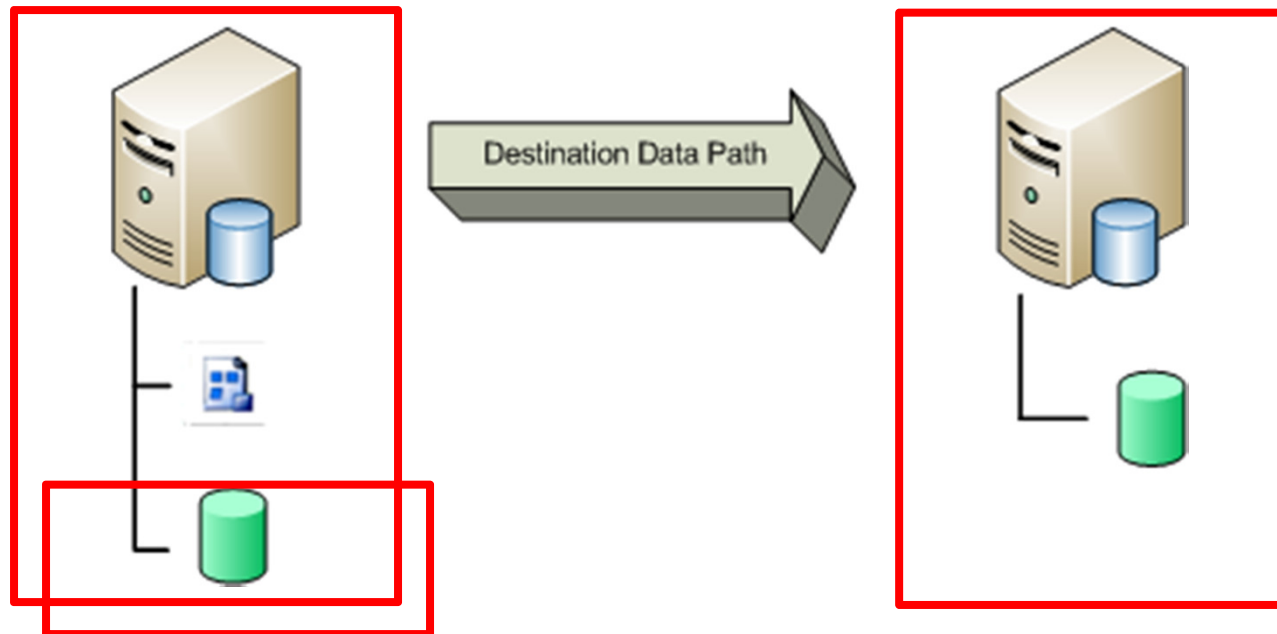
Package Storage & Execution Location



Execution on Source Server

Execution Location

Storage Location



Source Files/Data

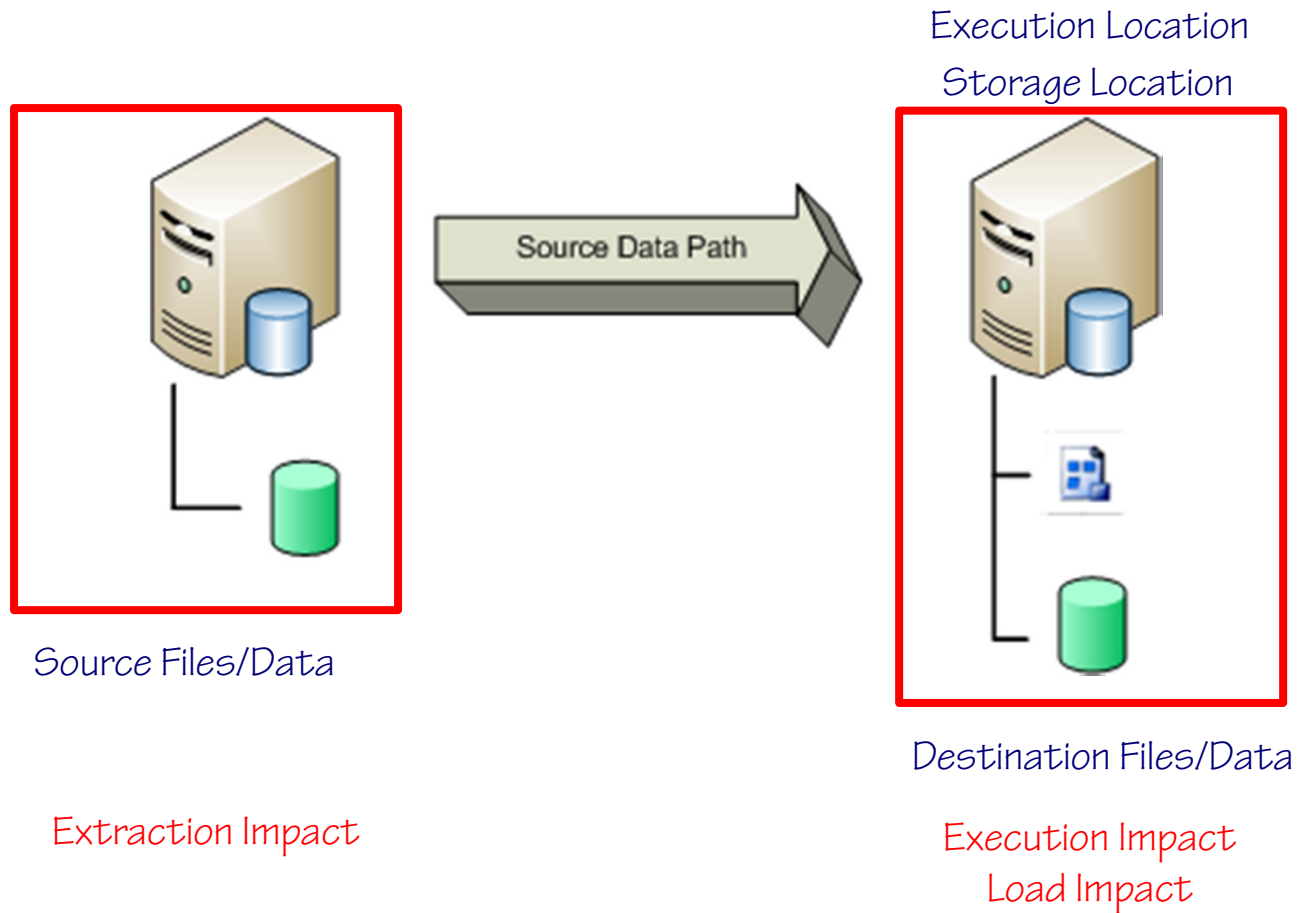
Execution Impact

Extraction Impact

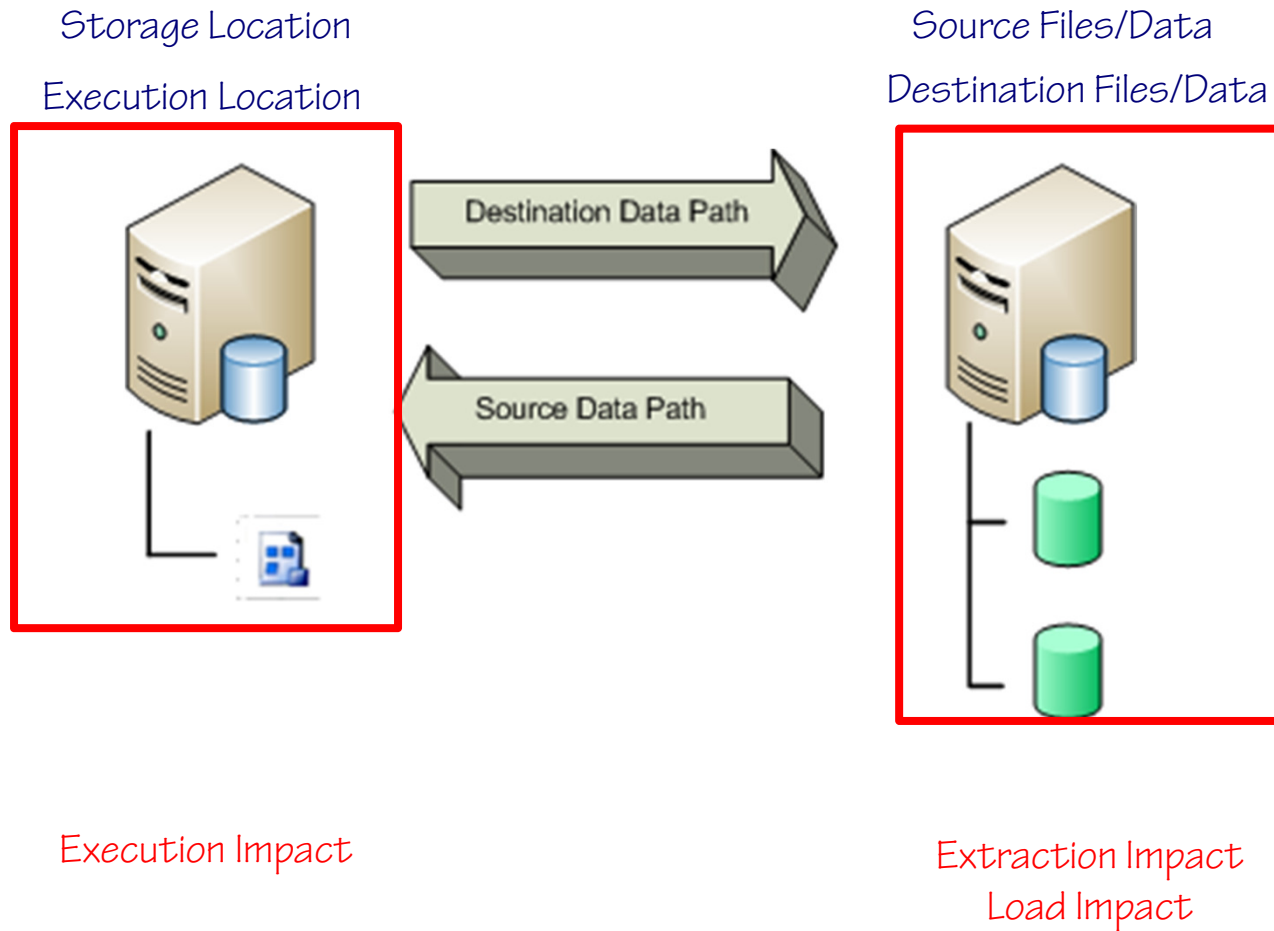
Destination Files/Data

Load Impact

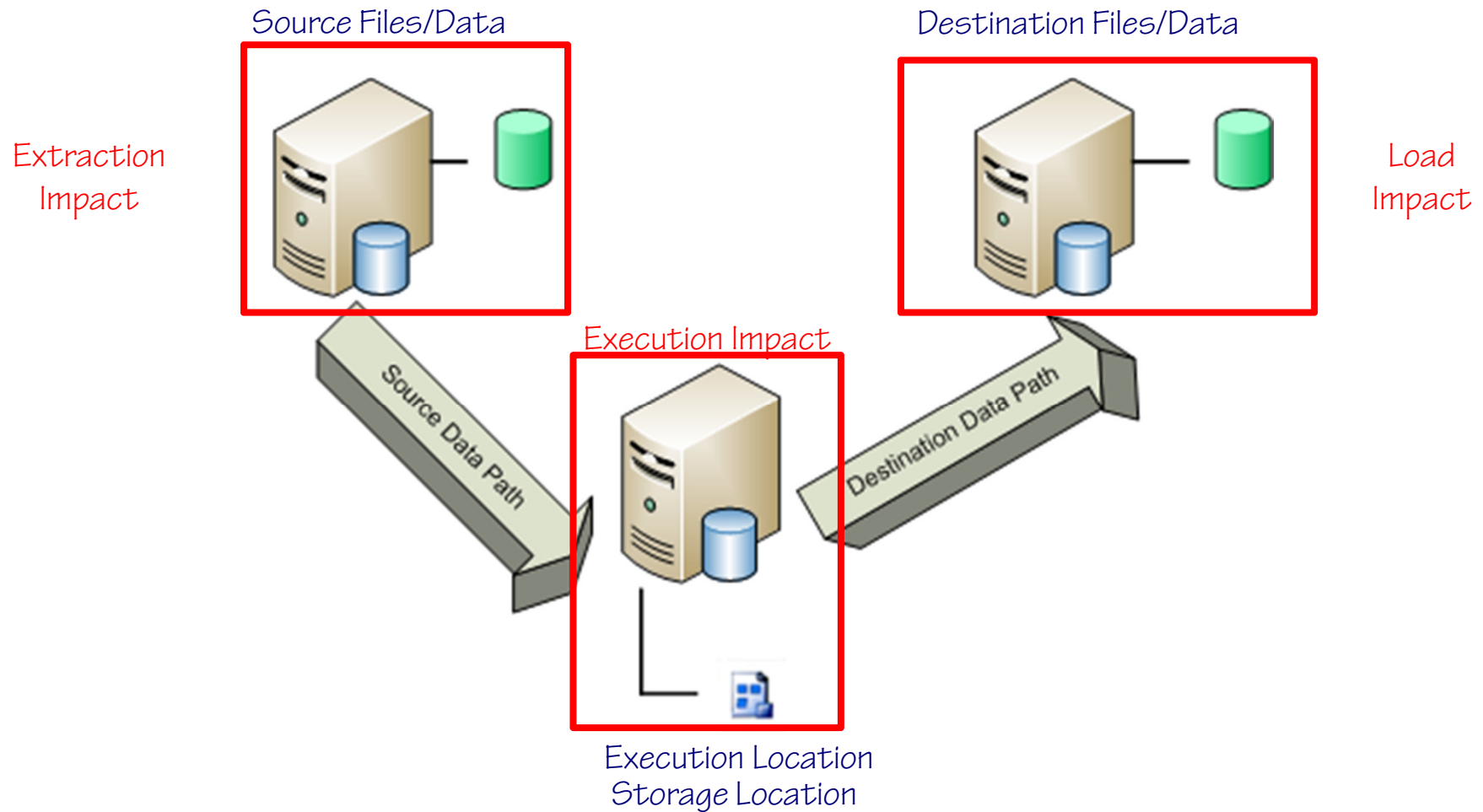
Execution on Destination Server



Execution on Secondary Server



Execution on Intermediary Server



Summary

- **Package Execution Utilities**
 - DTEXecUI, DTEXec
- **SQL Server Agent Jobs**
 - Scheduled execution, security context considerations
- **Package Storage vs. Execution Location**
 - Execution server, source data server, destination data server, network

References

- **Execute Package Utility (DTEXECUI)**
 - <http://msdn.microsoft.com/en-us/library/ms180378.aspx>
- **DTEXEC Utility**
 - <http://msdn.microsoft.com/en-us/library/ms162810.aspx>
- **Scheduling SSIS Package Execution in SQL Server Agent**
 - <http://msdn.microsoft.com/en-us/library/ms141701.aspx>
- **Creating SQL Server Agent Proxies**
 - <http://msdn.microsoft.com/en-us/library/ms189064.aspx>