# Der SSIS Catalog
## Vergesst Eure bisherigen Frameworks!

Alexander Karl

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# Speaker Info
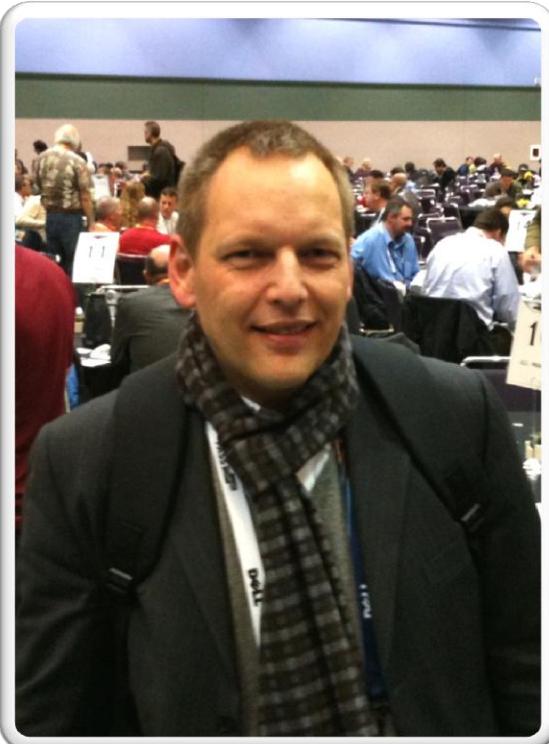


## Alexander Karl

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*IT Professional*

Database Administrator 2008
Server Administrator on Windows Server® 2008
Database Administrator on SQL Server® 2005

# Agenda

- Package vs. Project Deployment
- SSIS Catalog DB
- Project & Environment
- Logging Framework ( 2008 )
- Logging Levels + Logging-Result
- SSIS Catalog DB – Views & Stored Procs
- SSIS Catalog DB - Reports

# Framework
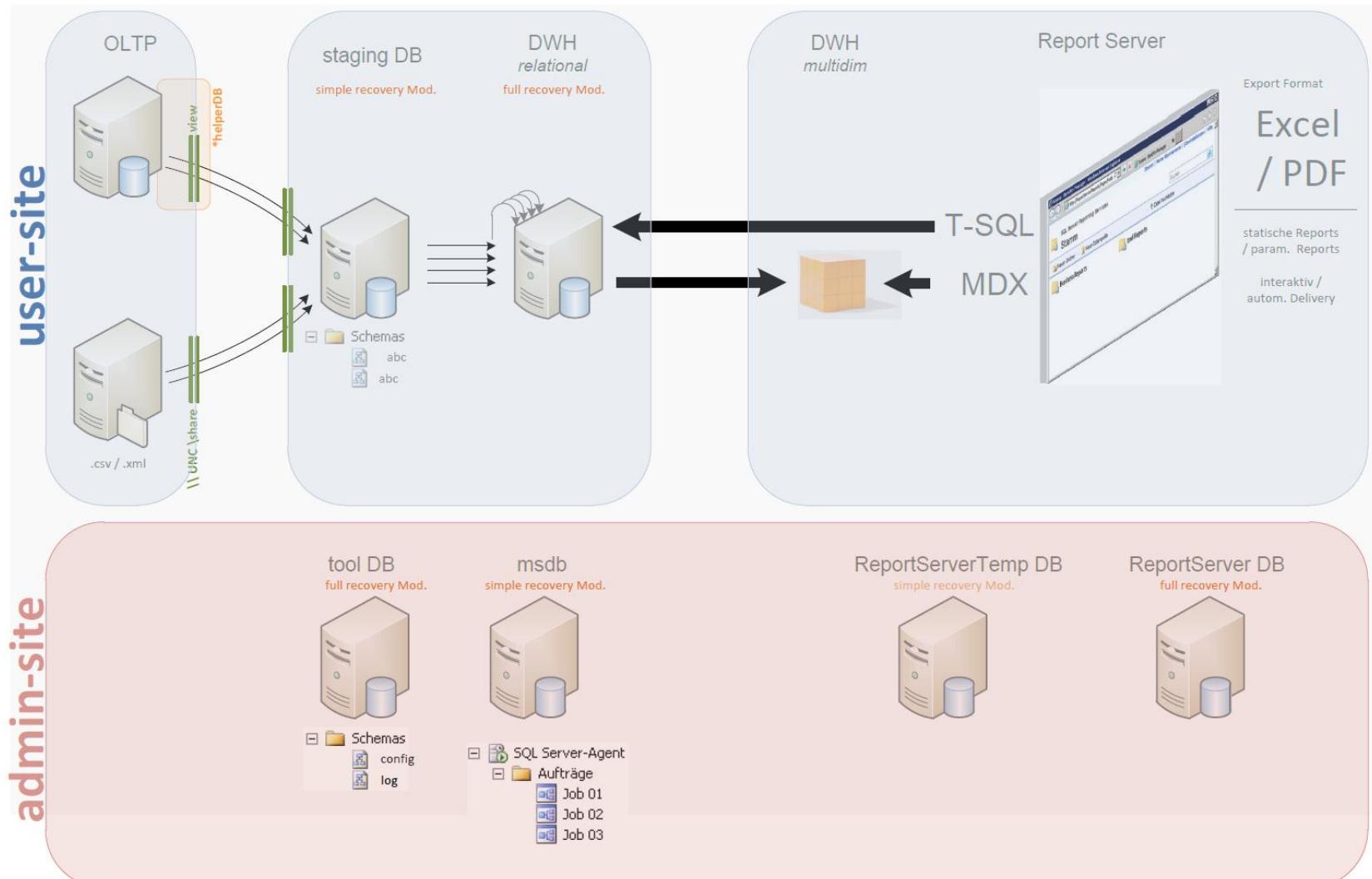
# Framework
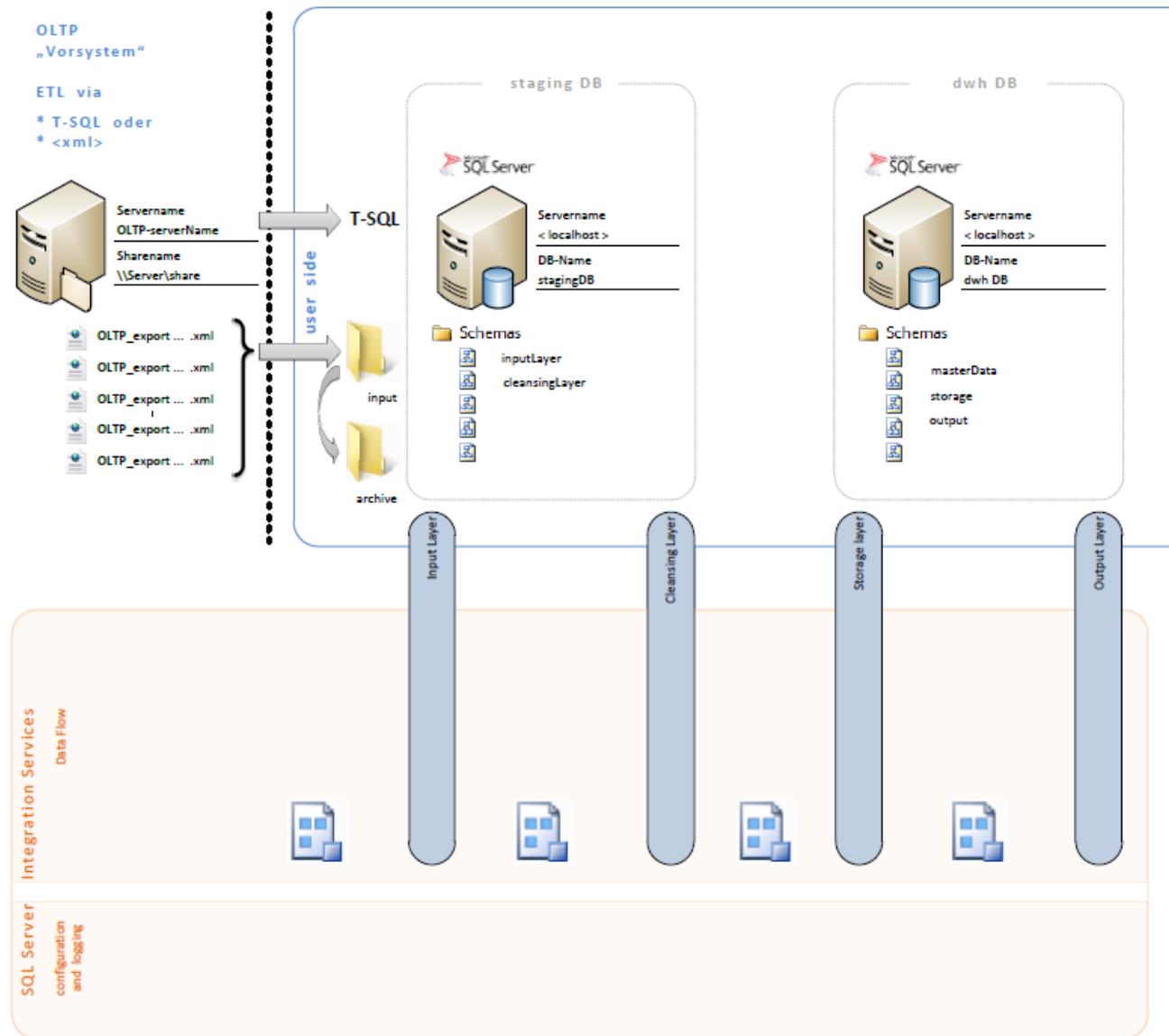
# Framework

staging DB

dwh DB

**tool DB**

**system DB**

admin side

SQL Server

Servername
< localhost >

DB-Name
toolDB

Schemas
Management
Logging

SQL Server

Servername
< localhost >

DB-Name
msdb

Schemas
dbo
sys

SQL Server Agent
Jobs

Job Activity Monitor

S          (Integration Services 10.50.
Running Packages
Stored Packages
File System
MSDB

SQL Ser
configuratio
and logging

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# Package vs. Project Deployment

**Package Deployment >> msdb**

**Project Deployment   >> SSIS Catalog**

Project

Project-level parameter

Project-level connection manager

*Deploy* → SSIS Catalog

Package

Package-level parameter

Package connection manager

Package

Package-level parameter

Package connection manager

*Deploy* → Package Deployment Model
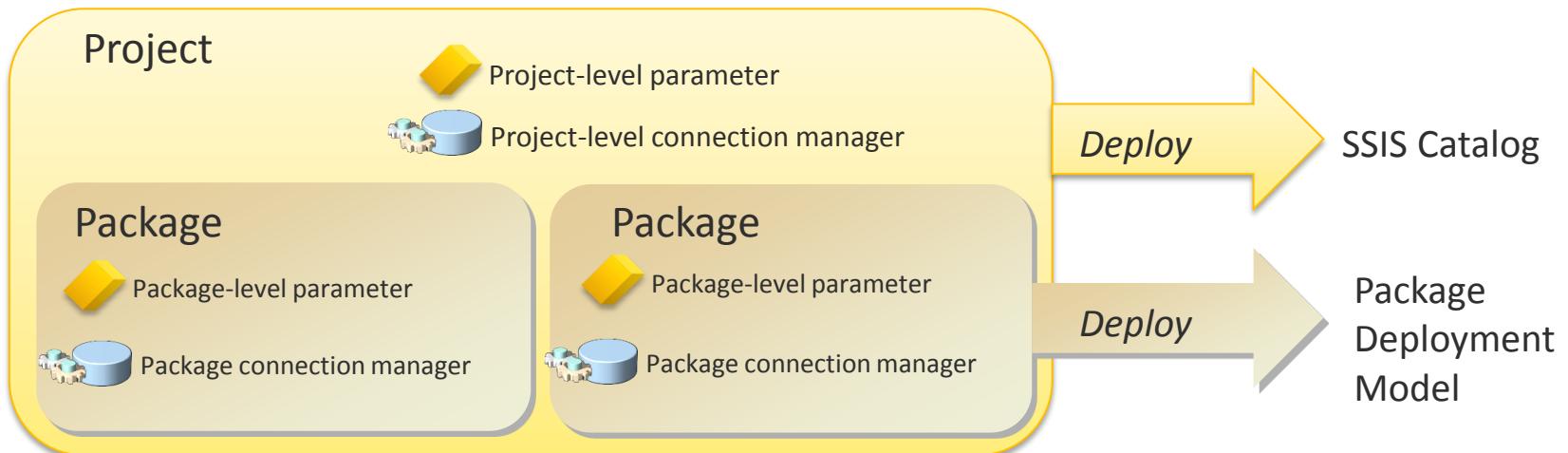
# Package vs. Project Deployment

|  | **Package** | **Project** |
| --- | --- | --- |
| Deployment erfolgt als | Package | Project |
| Compiled Datenformat | mehrere .dtsx Files | ein .ispac File |
| Gespeichert in | msdb oder Filesystem | SSIS Catalog |
| Dynamische Konfiguration | Package configurations | Mapping mit Environment-Variablen |
| Troubleshooting | Für jedes Paket zu konfigurieren | SSIS Catalog enthält mitgelieferte Reports |

# SSIS Catalog DB

- Erstellen des Catalogs mit Wizard

- Voraussetzungen
  - SQL-Server 2012
  - SQL CLR enabled

- ein Catalog pro Instance (SSISDB)

# SSIS Catalogs

- ## SSIS Catalog
  - ### Ordner
    - #### Projekt
      - ##### Paket
    - #### Umgebung

- ## legacy
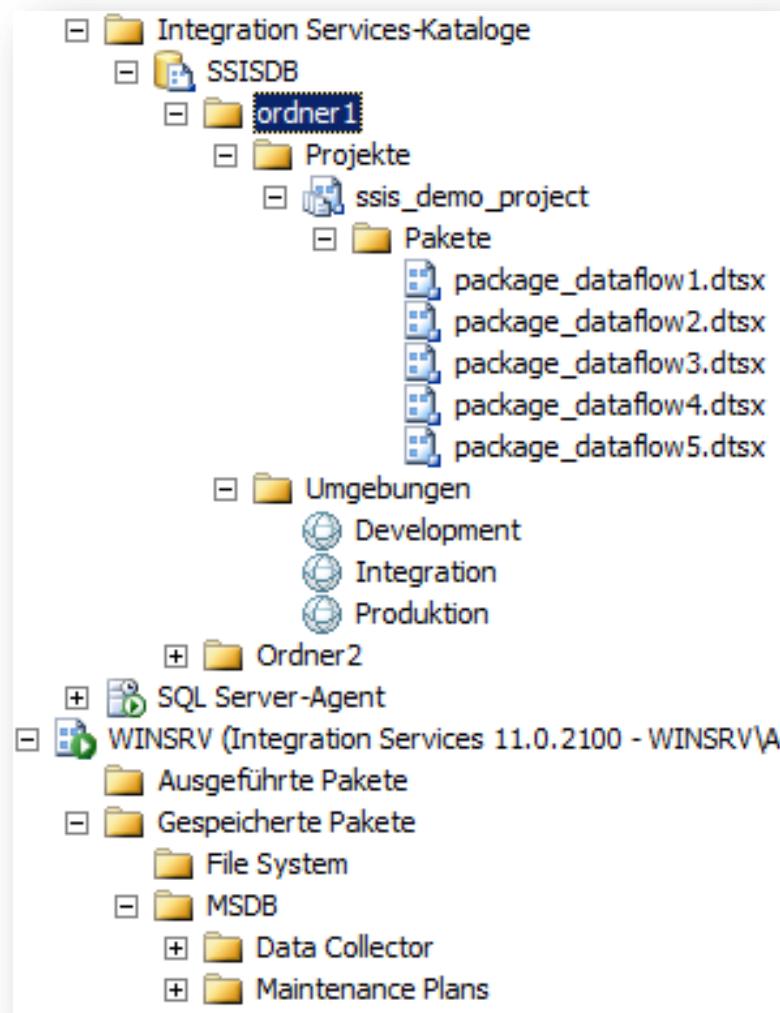
# Demo

# Variablen & Parameter

**bisher**

- Variablen

**neu**
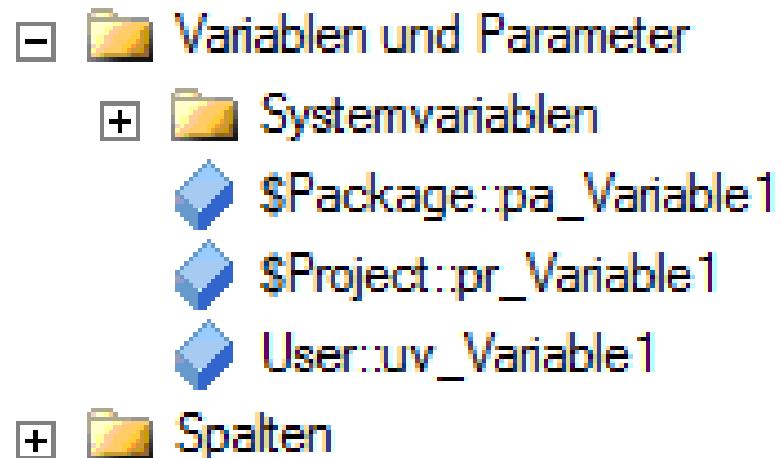
# Project & Environment
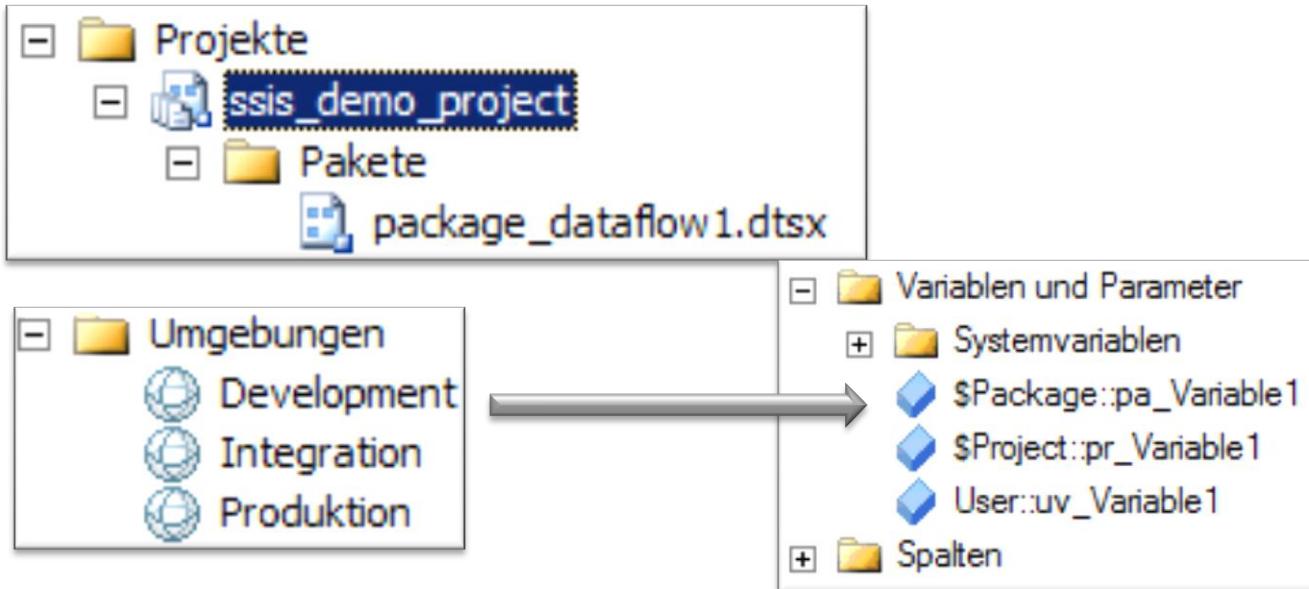
# Project & Environment
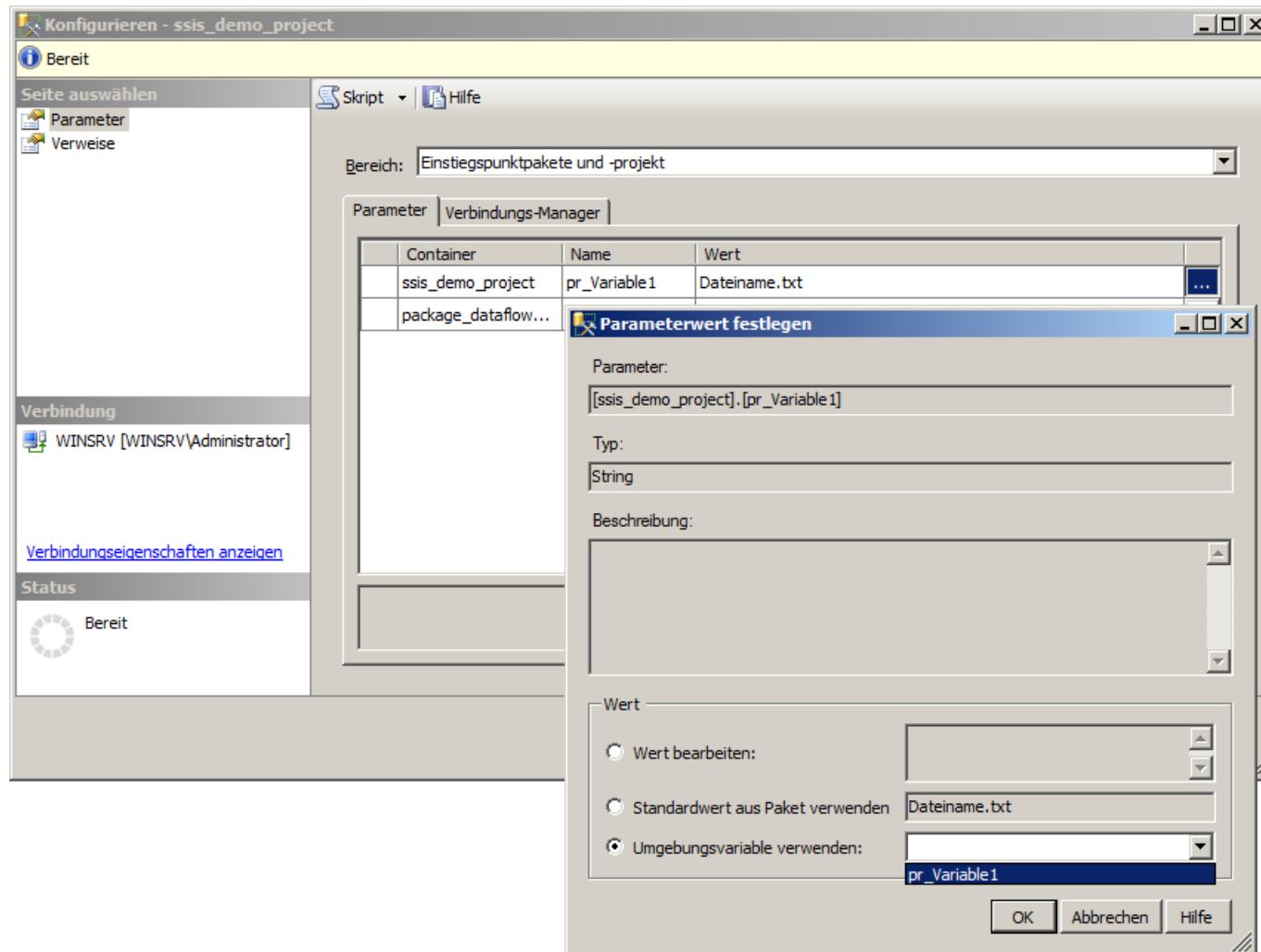
# Logging Frameworks ( 2008 )
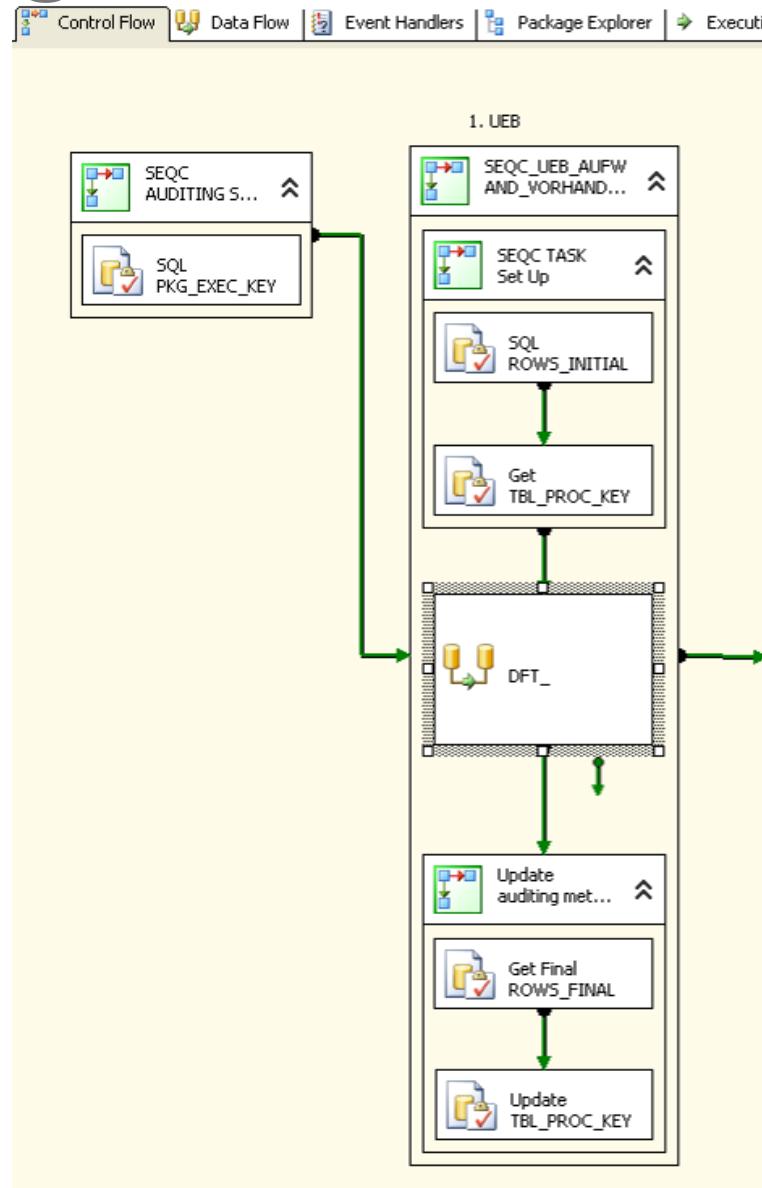
# Logging Frameworks ( 2008 )
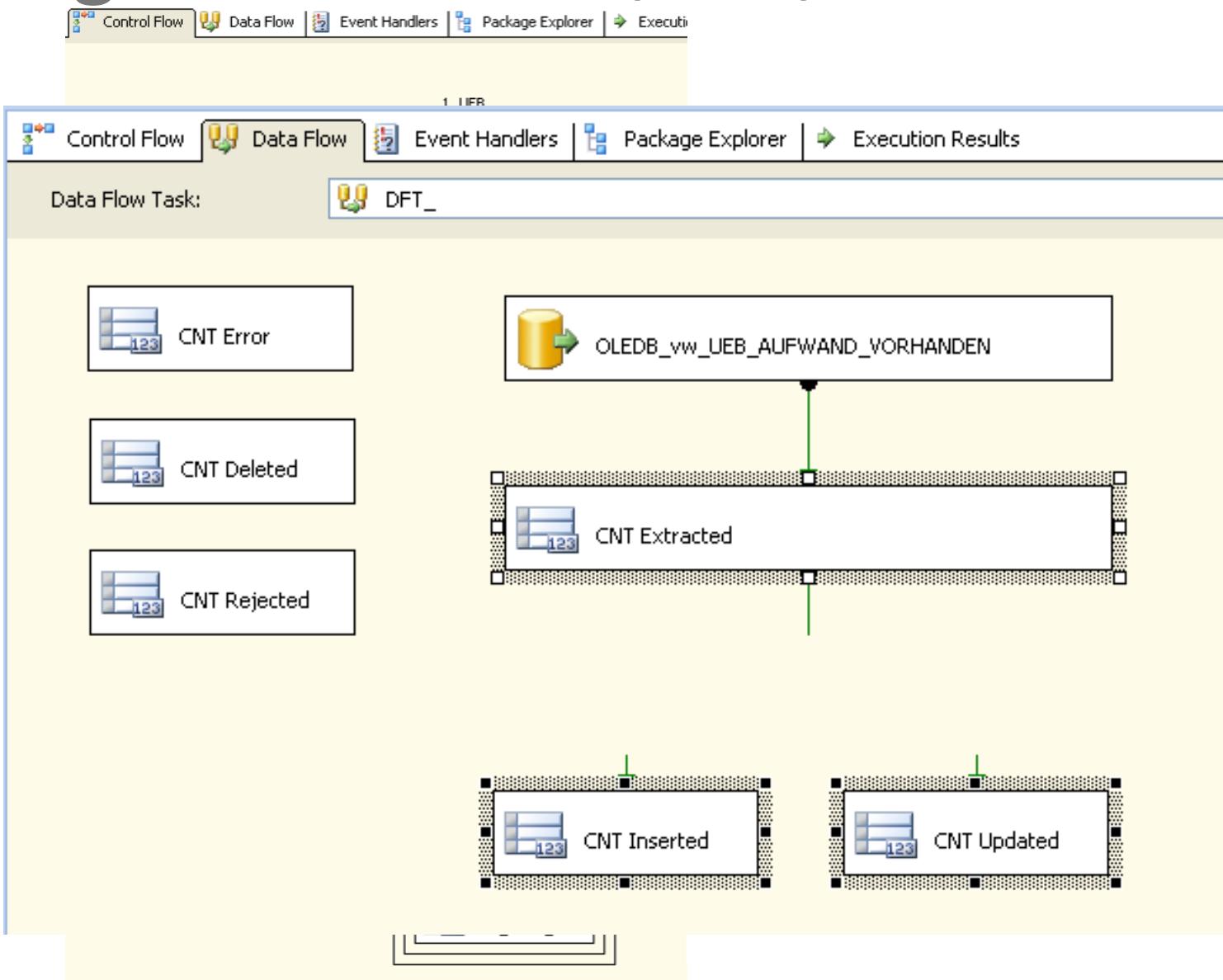
# Logging-Level (Server)
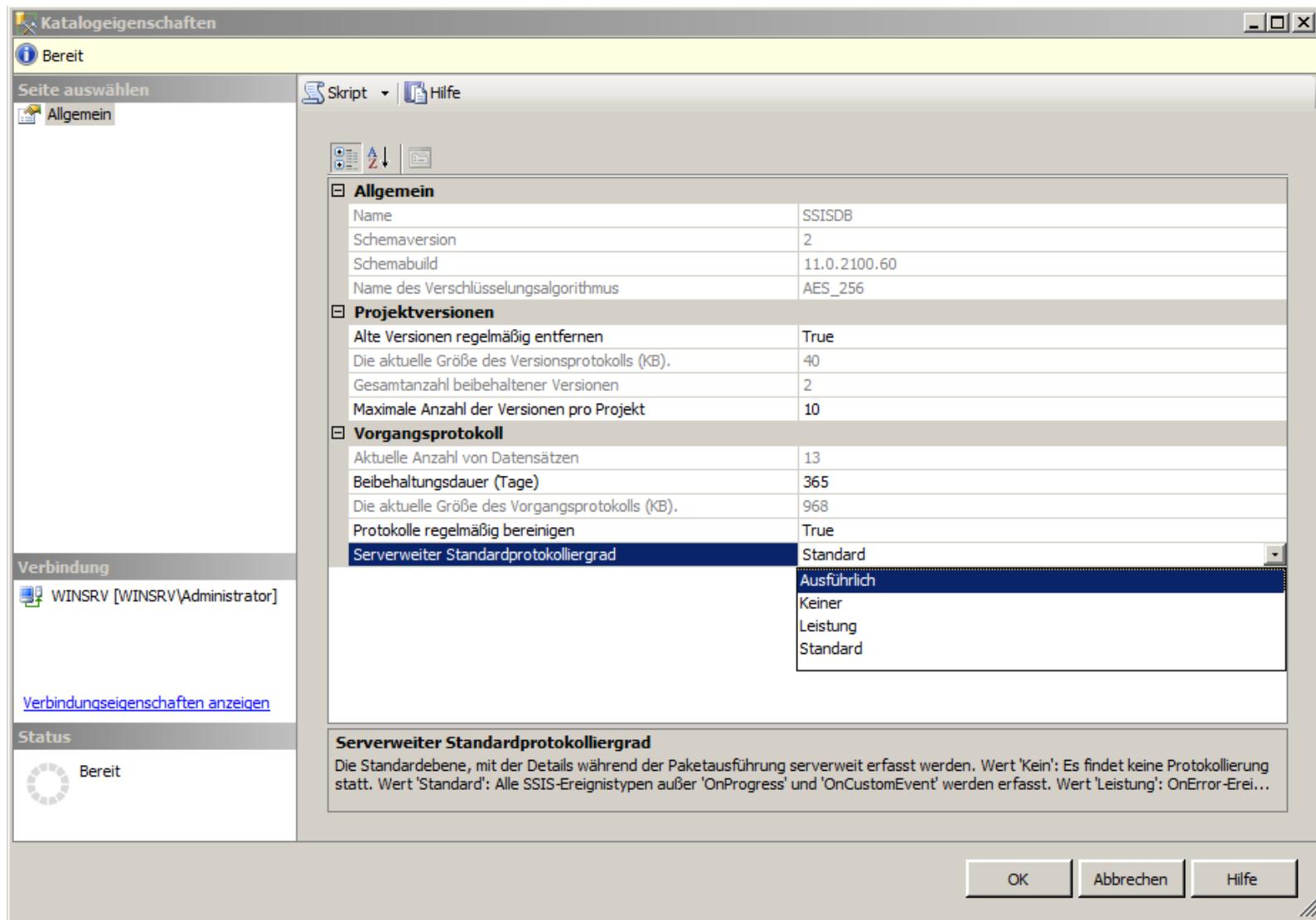
# Logging-Level (Package)
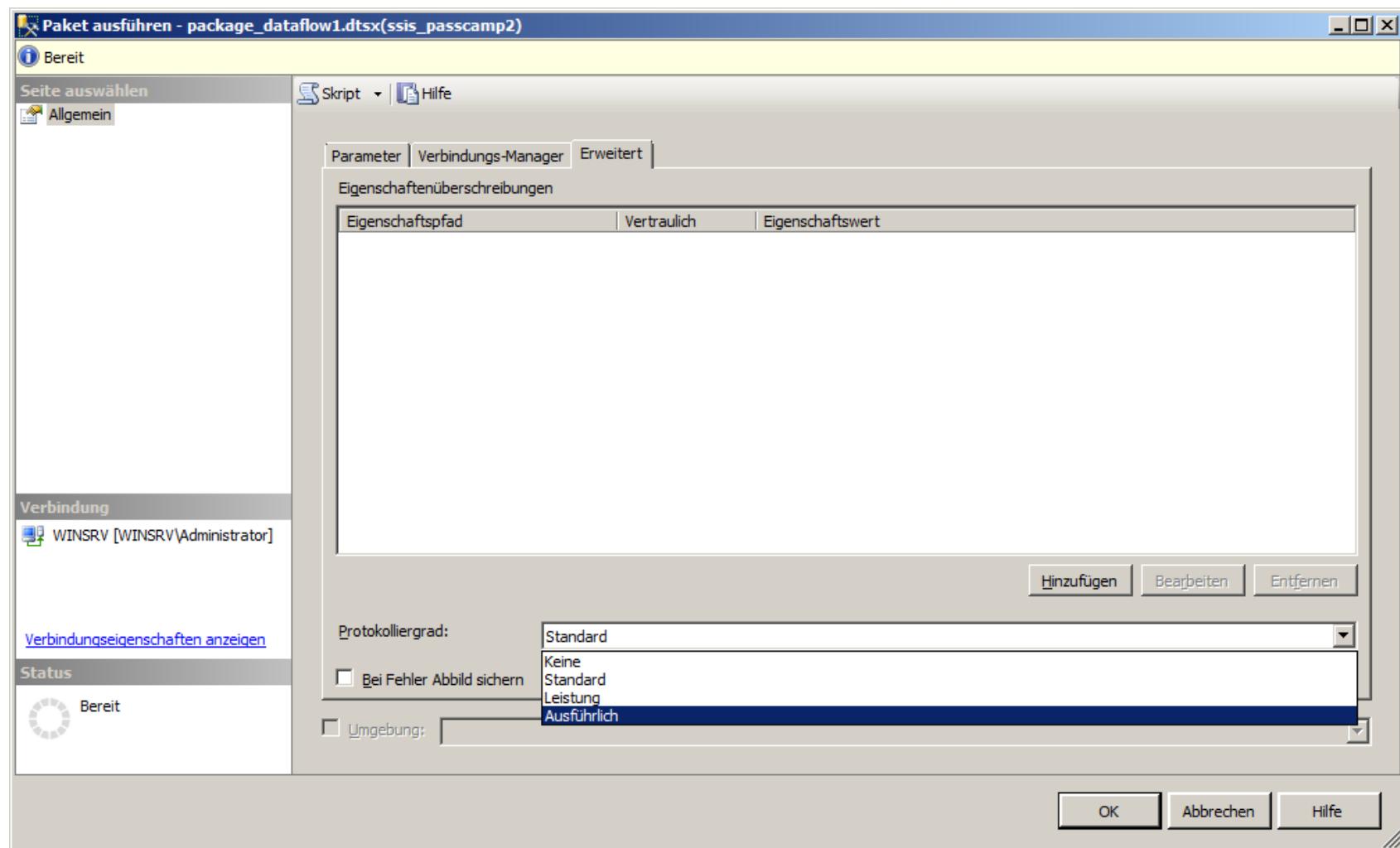
# Paket-Ausführung mit TSQL

```sql
 1  Declare @execution_id bigint
 2
 3  EXEC [SSISDB].[catalog].[create_execution]
 4                    @package_name=N'package_dataflow1.dtsx'
 5                  , @execution_id=@execution_id OUTPUT
 6                  , @folder_name=N'passcamp_demo2'
 7                  , @project_name=N'ssis_passcamp2'
 8                  , @use32bitruntime=False
 9                  , @reference_id=Null
10
11  Select @execution_id
12
13  DECLARE @var0 smallint = 3 -- VERBOSE / Ausführlich
14
15  EXEC [SSISDB].[catalog].[set_execution_parameter_value]
16                         @execution_id
17                       , @object_type=50
18                       , @parameter_name=N'LOGGING_LEVEL'
19                       , @parameter_value=@var0
20
21  EXEC [SSISDB].[catalog].[start_execution] @execution_id
22  GO
```

# Demo

# Result

# SSIS Catalog DB

# SSIS Catalog DB

# SSIS Catalog Reports

# SSIS Catalog Reports



Microsoft SQL Server

## Alle Ausführungen

am WINSRV um :

Dieser Bericht stellt Informationen zu den Ausführungsvorgängen des Integration Services-Pakets bereit, die für die verbundene SQL Server-Instanz ausgeführt wurden.

🔻 Filter:     Startzeitbereich: 16.10.2012 - 22.10.2012;  Status: Alle;  (4 weitere)

Ausführungsinformationen

| 0 | 0 | 0 | 0 |
|---|---|---|---|
| Fehler | Wird ausgeführt | Erfolgreich | Weitere |

| ID ⇕ | Status ⇕ | Bericht | Ordnername ⇕ | Projektname ⇕ | Paketname ⇕ | Startzeit ⇕ | Beendigungszeit ⇕ | Dauer (s) ⇕ |
|---|---|---|---|---|---|---|---|---|

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# SSIS Catalog Reports

# SSIS Catalog Reports

# SSIS Catalog Reports



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## Alle Vorgänge

am WINSRV um :

Dieser Bericht stellt eine Übersicht der ausgeführten Integration Services-Vorgänge bereit.

Filter: Startzeitbereich: 16.10.2012 - 22.10.2012; Status: Alle; Vorgangstyp: Alle;

Vorgänge gesamt: 0

| Status | ID | Vorgangstyp | Objektname | Dauer (s) | Startzeit | Beendigungszeit | Aufrufer |
|---|---|---|---|---|---|---|---|

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# SSIS Catalog Reports

# Deployment von .ispac

**Deploying the project from the command line**:  The next step is to prepare the command line executable of the deployment file (ispac). The ispac deployment file can be evoked from the command line using **IsDeploymentWizard.exe** with the following switches.

**( %ProgramFiles%\Microsoft SQL Server\110\DTS\Binn )**

```
/Silent[+|-]            Default value:'-' (short form /S)
/SourceType:{File|Server}   Default value:'File' (short form /ST)
/SourcePath:<string>        (short form /SP)
/SourceServer:<string>      (short form /SS)
/ProjectPassword:<string>   (short form /PP)
/DestinationServer:<string> (short form /DS)
/DestinationPath:<string>   (short form /DP)
/SkipSource[+|-]            Default value:'-'
@<file>                     Read response file for more options

                                                    OK
```
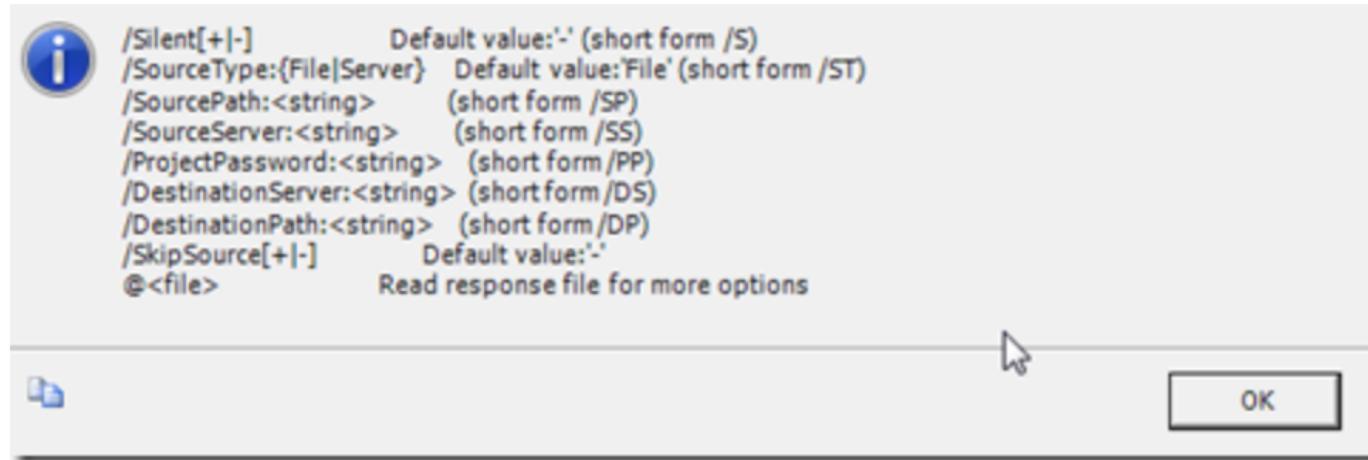
Ex: IsDeploymentWizard /S /SP:"C:\SSIS.ispac" /DS:"<myServerName>\<Instancename>"

/DP:"/SSISDB/SSIS"

# FRAGEN ?

# Vielen Dank !