

# ETL & ELT with SSIS

Day 3 - Recap

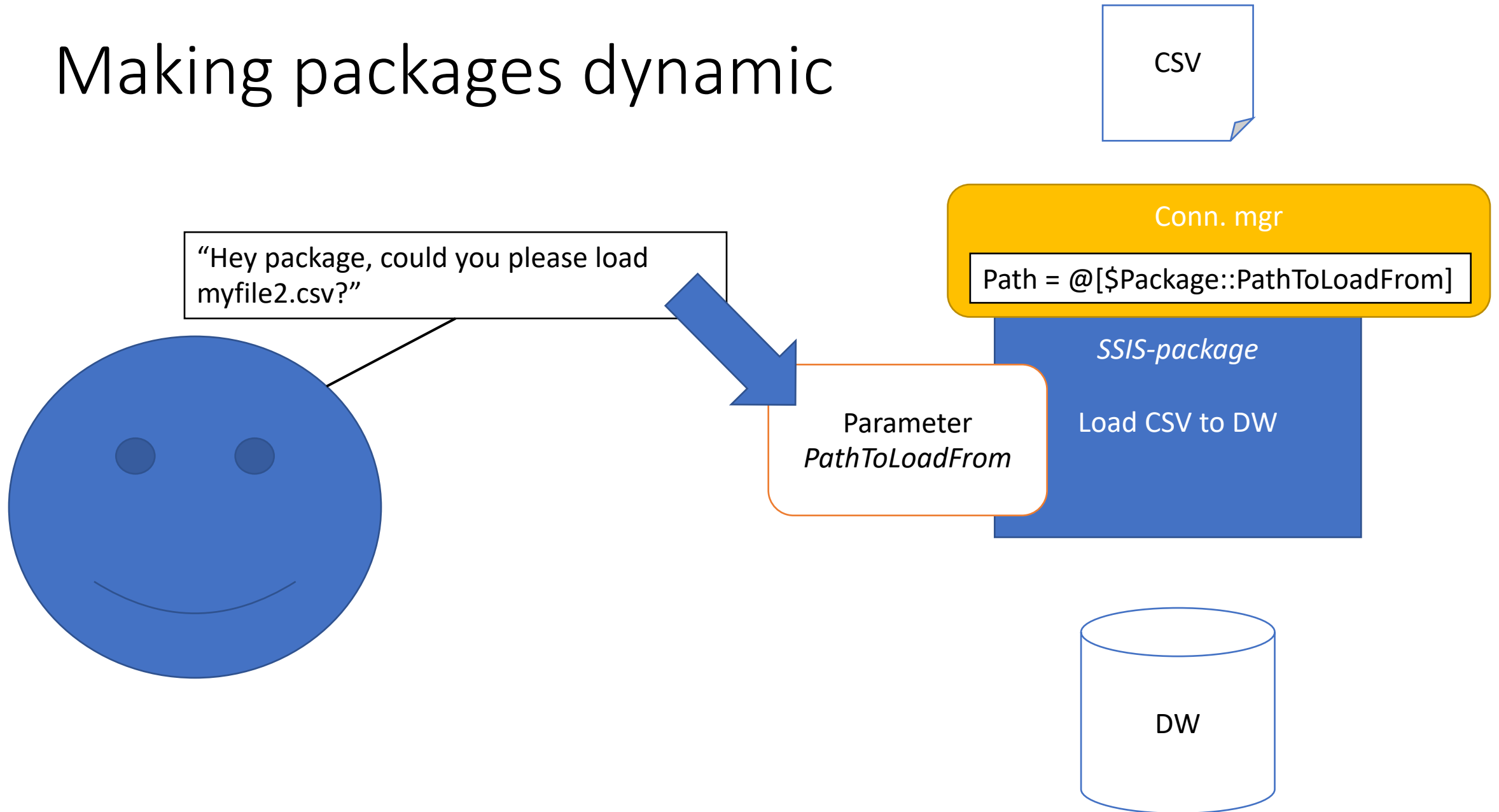
# Subjects of day 2

- Dynamic packages
- The Not-So-Happy flow

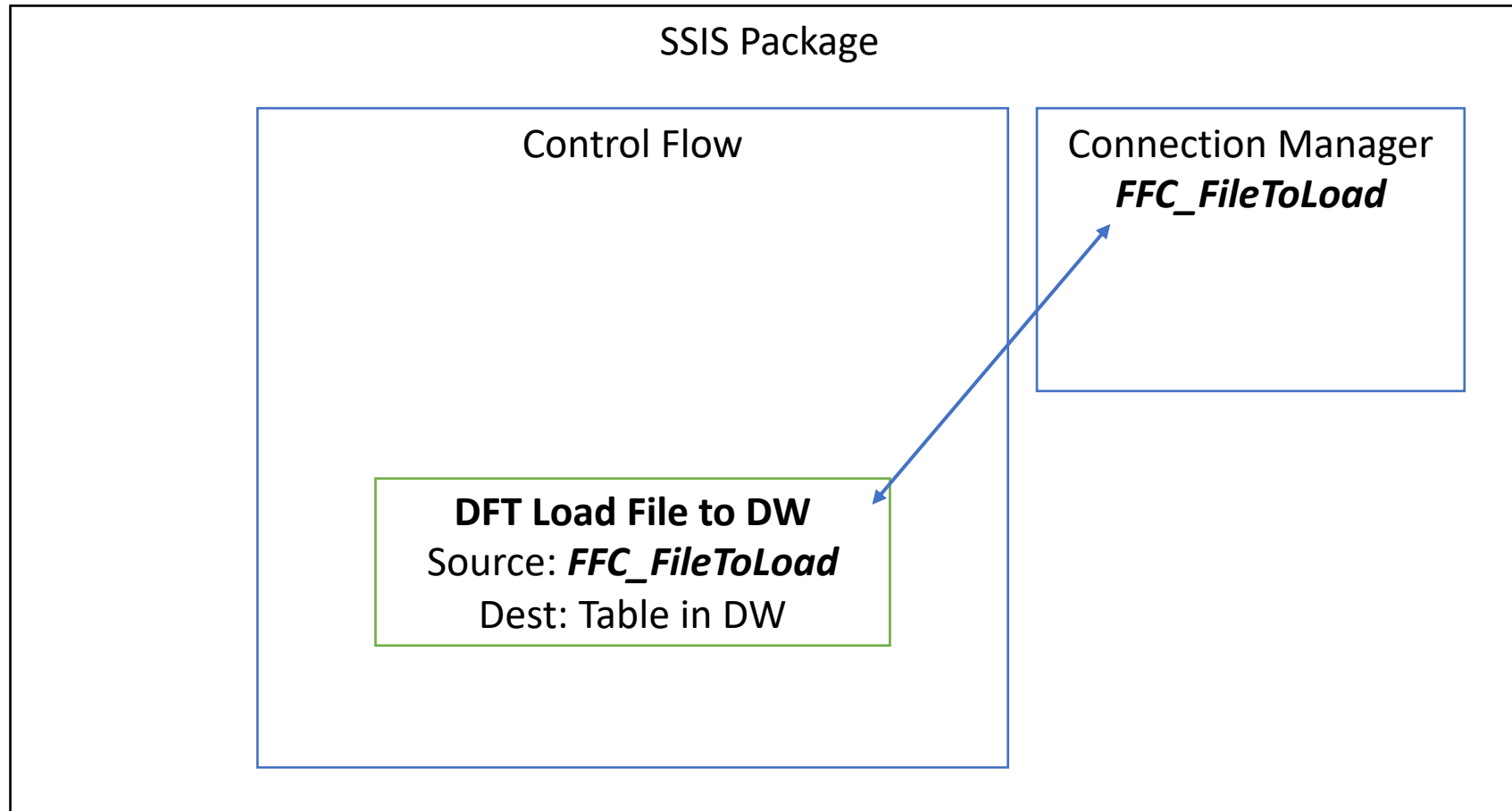
# Dynamic packages

Recap

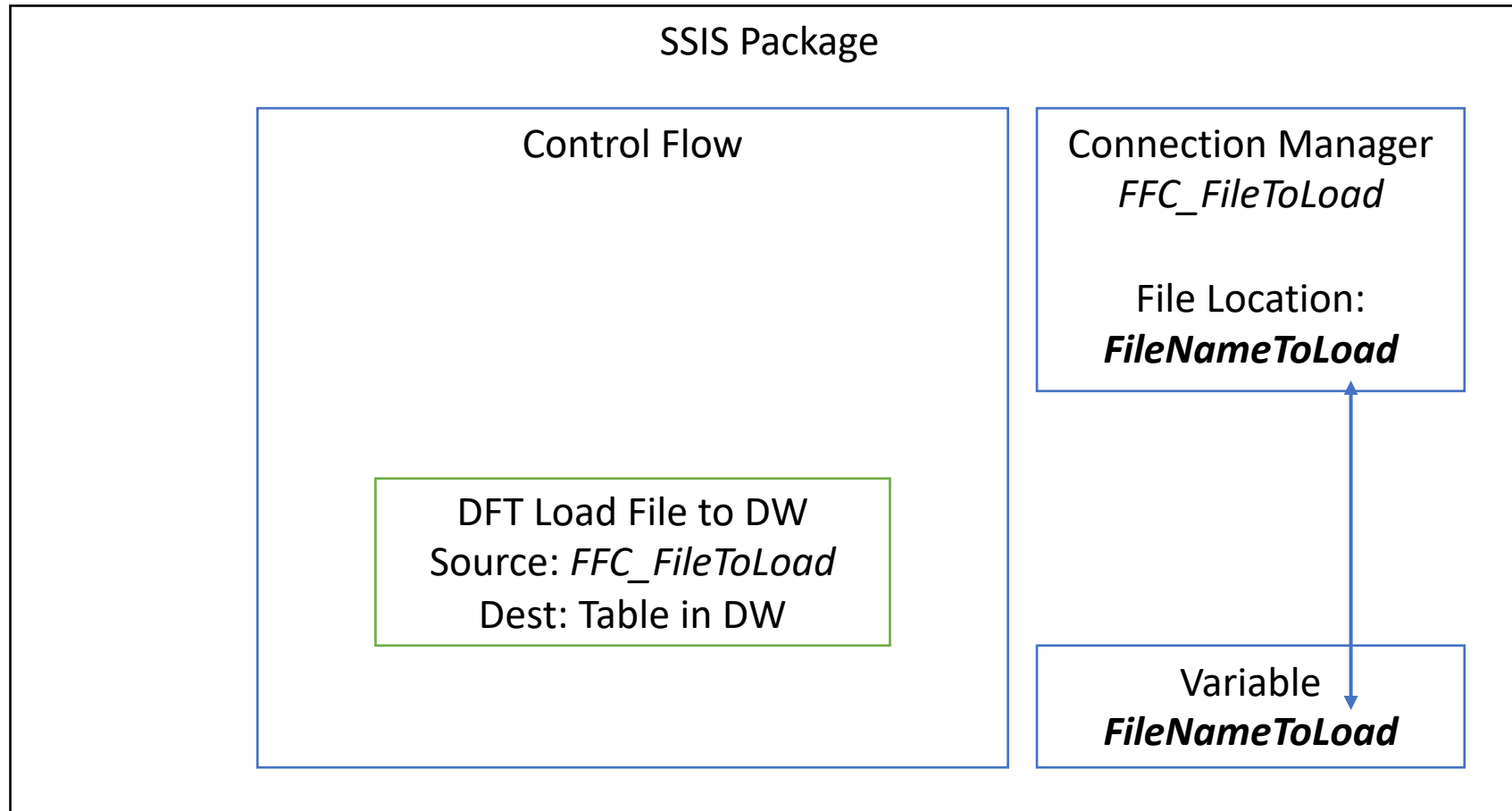
# Making packages dynamic



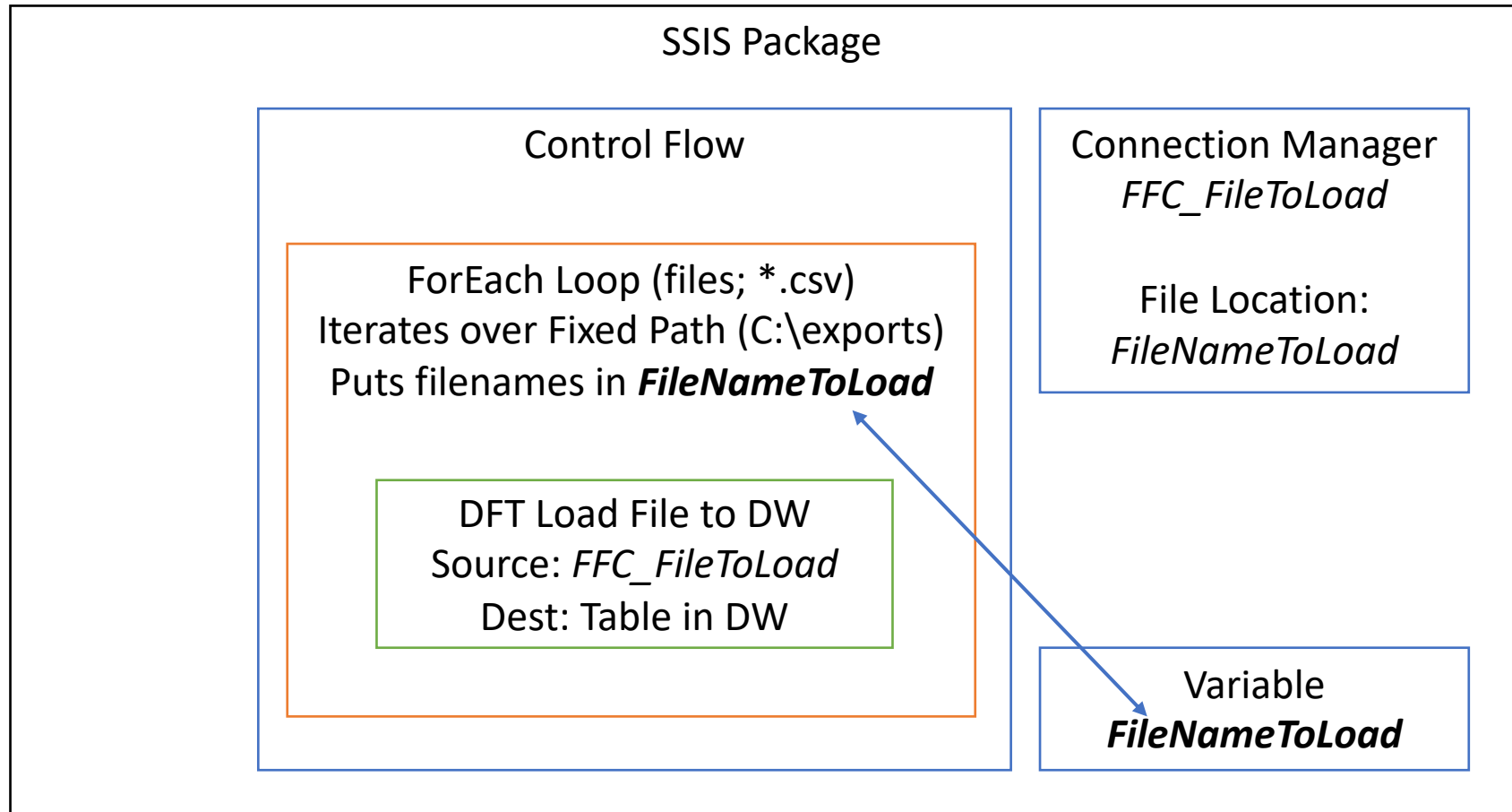
# 1. Static Load



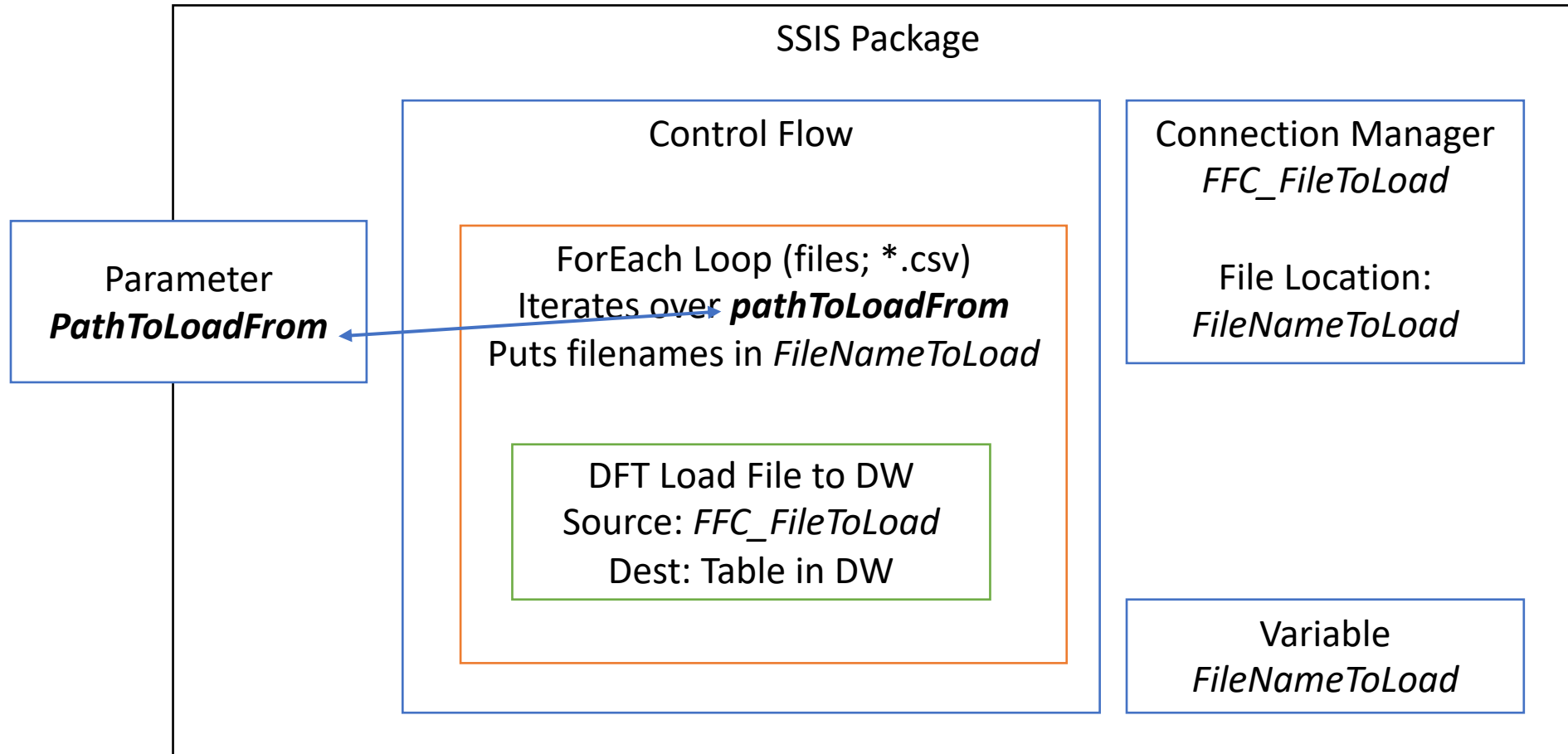
## 2. Using a Variable (still static though)



### 3. Looping over files (variable = dynamic)



## 4. Set the path to load from at runtime





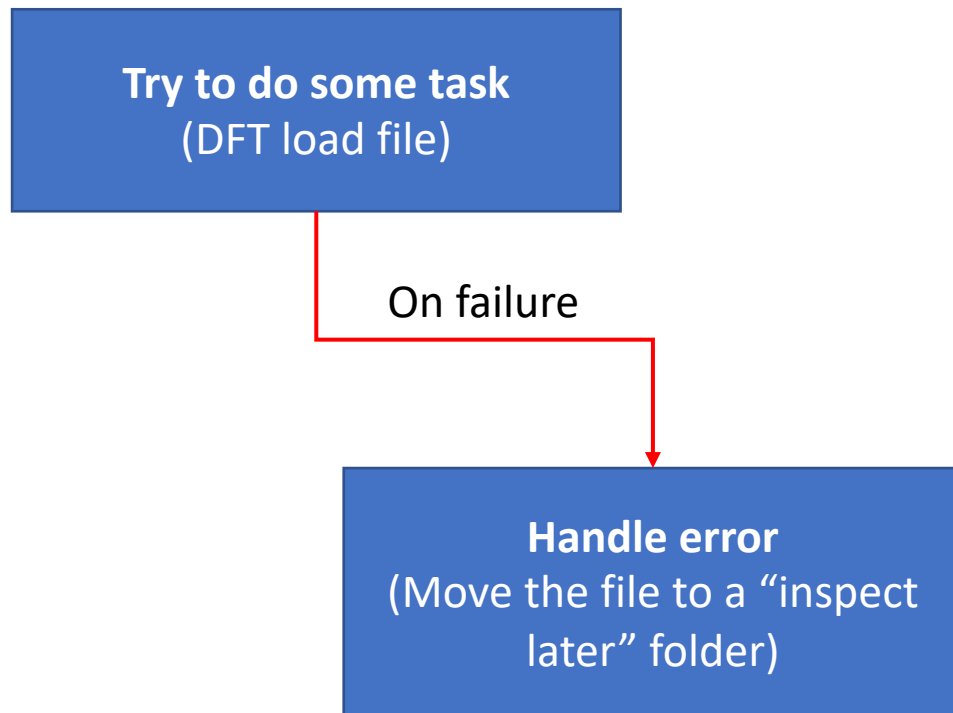
# The Not-So-Happy-flow

Recap

# When loading fails...

- 100 CSV (or XML, Excel, whatever..) files to load
- How to not break the process when one of them is corrupt?
  - Error handling!

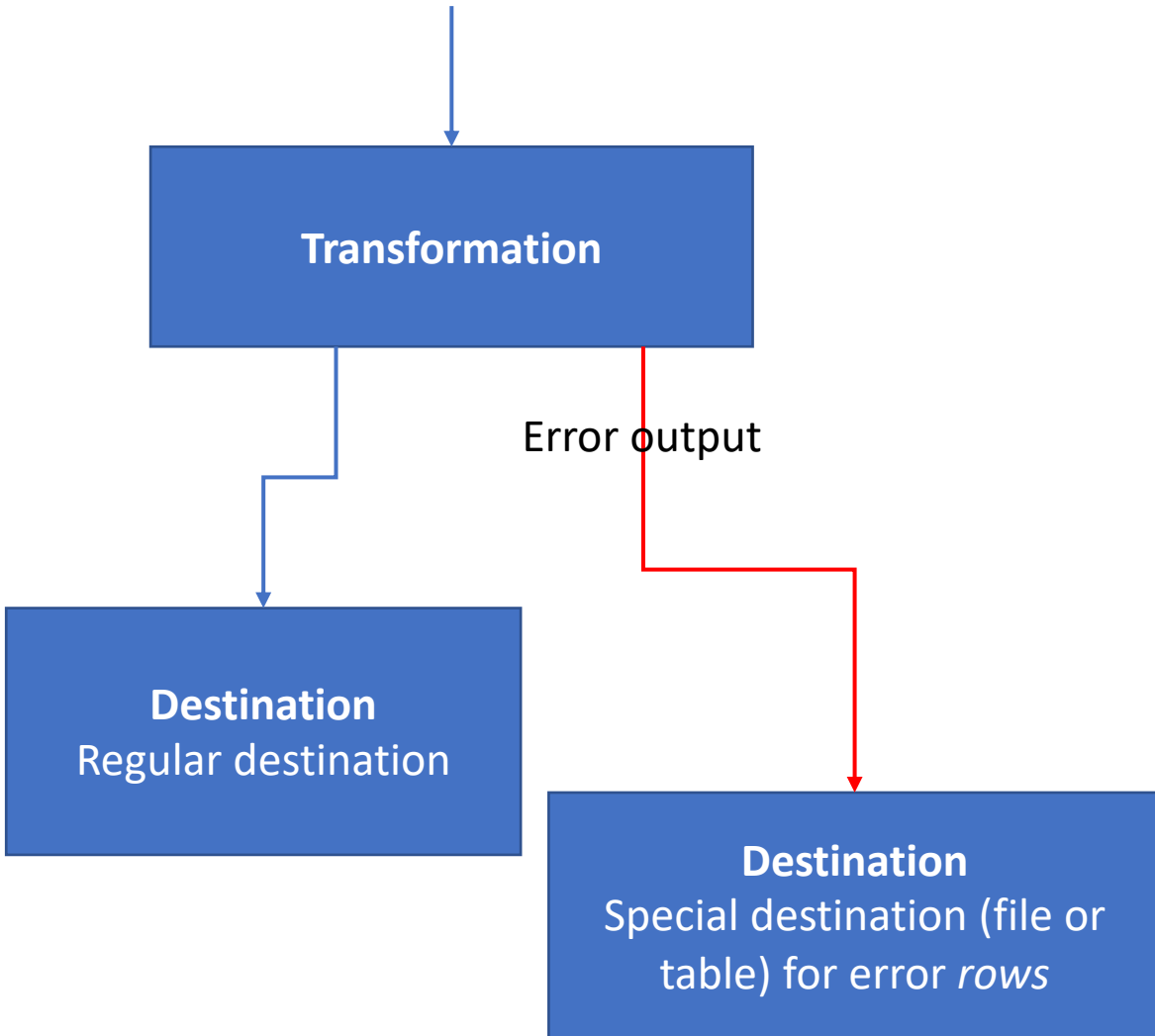
# Error handling – Control Flow



When an error occurs:

- Package “fails gracefully”
- Error is handled
  - Files with errors are collected for later inspection
- Package will continue running for non-erroneous files
- Error messages are logged
- Execution from the package is reported as “failed” (not “succeeded”)

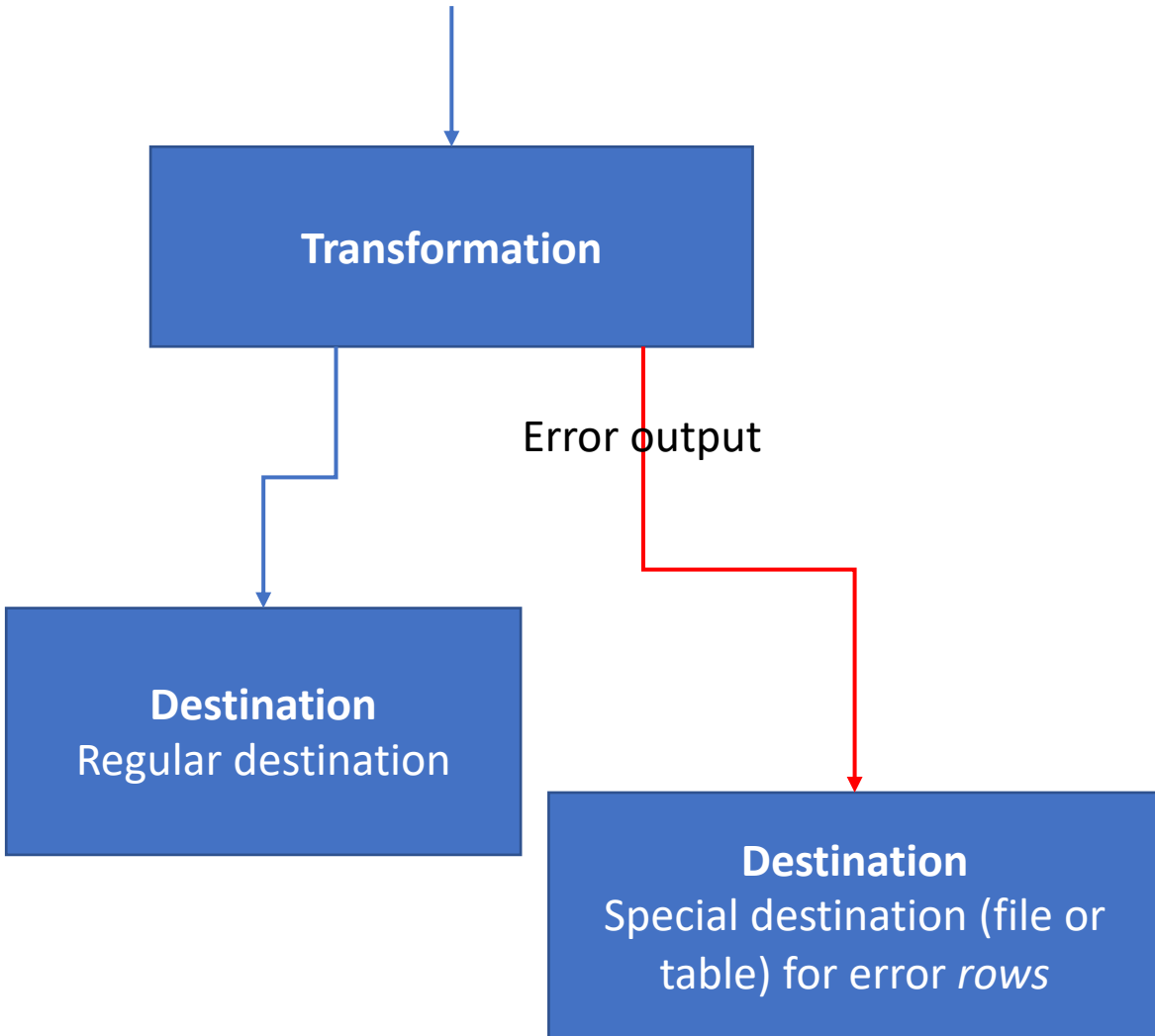
# Error handling – Data Flow



When an error occurs:

- Rows with errors are redirected to another destination
- All “good” rows arrive at the regular destination
- Package will continue running
- Error messages are logged
- Execution from the package can be reported as “succeeded” (for example, with a Flat File Source) or “failed” (for example, using the Lookup transformation)

# Handling other situations– Data Flow



When something is not an *error* (but just a regular exception to the general rule)

- Split rows based on how you should handle them
- Lookup component (no-match)
- Conditional Split