

# Leverage Open Source ETL for Traditional Mainframe Batch Processing

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Thursday, March 15, 2012  
10244



# Agenda

- Introduction
- Background
- Application Architecture
- Implementation
- Experiences & Lessons Learned
- Conclusion
- Pentaho Demo / Q & A

# Introduction



**Robert Zwink**

VP Implementation Services

Robert is based in Columbus, Ohio where he leads Implementation Services for the JPMorgan Chase Chief Development Office. This team is focused on providing firmwide tactical implementation support for open source products and services by assisting in the success of customer adoption through all phases of the SDLC. His responsibilities also include supporting training initiatives, customer lab advocacy, and the development of technical communications.

Robert started at JPMC in 2004 and prior to joining the Chief Development Office he specialized in ensuring the performance and modernization efforts of mainframe systems.

In 2010 he was recognized as a JPMC Expert Engineer.

## Background

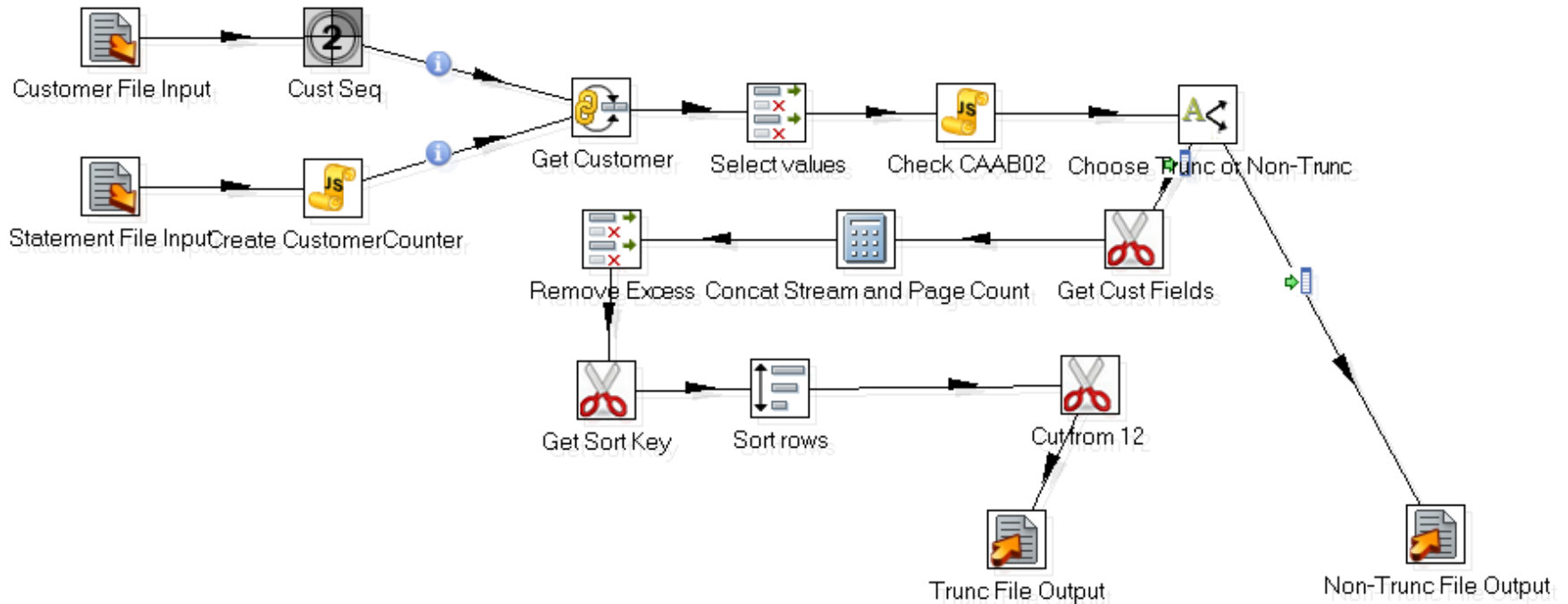
- *das Kind mit dem Bade ausschütten*
- Chargeback Model
- Open Source?
- Open Source Extract Transform Load

# Application Architecture

- Mainframe Batch Processing
  - Cobol
  - Data Access (DB2, IMS, VSAM, Flat File)
  - Versioning, Deployment, Scheduling and Monitoring

**BPXBATCH, BPXBATSL, JZOS**

# Implementation



# Experiences & Lessons Learned

- Billable CPU Reduction
- Enhancements needed for direct MVS data access
- Emerging Technology without Commercial Support

# Conclusion

- Assess criticality of batch
- Environment build jobs, backup jobs, and other maintenance tasks especially in development mainframe environments should be considered for this unique approach.
- As development continues with PDI, open source contributions by large mainframe shops will allow for a shared library of mainframe specific components. As these develop the case for PDI will also. Apache commons VFS.
- If a commercial support offering for PDI on the mainframe emerges, the case may also be stronger.



# Pentaho Demo

- Kettle 4.2 <http://kettle.pentaho.com/>