

# Read/Process an Attachment Flat File from a Process | Lab

Your Guide: Dave Matzdorf

# Introductions

- Take 5 Minutes
- Turn to a Person Near You
- Introduce Yourself
- Business Cards



# Agenda

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- Create the objects to support the import
- Locate the file in the database
- Locate the file in the document store
- Consume the file data
- Validate the file data
- Create financial transactions

# Configure CA PPM

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- Transaction Upload object
- Transaction Records Object
- Transaction Excel Uploader process



# Locate the File (Database)

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- Transaction Upload object
- Transaction Records Object
- Transaction Excel Uploader process

# Locate the File (Document Store)

- Use CA's FileUtil class
- Only need a file version ID
- Always returns a FileInputStream

```
<!-- GET THE FILE AS AN INPUT STREAM -->
<core:invokeStatic var="fileInputStream" className="com.niku.dms.util.FileUtil" method="retrieveFileInputStreamFromFileSystem">
  <core:arg type="long" value="{fileVersionID}"/>
</core:invokeStatic>
<core:if test="{fileInputStream == null}">
  <gel:log level="ERROR">Unable to access CA PPM file</gel:log>
</core:if>

<!-- CREATE A WORKBOOK USING THE INPUT STREAM -->
<core:invokeStatic var="workbook" className="org.apache.poi.ss.usermodel.WorkbookFactory" method="create">
  <core:arg type="java.io.InputStream" value="{fileInputStream}"/>
</core:invokeStatic>
<gel:log level="INFO">Excel workbook opened</gel:log>
```

# Locate the File (Document Store)

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- Use Apache POI libraries
- Create a workbook from the InputStream
- Find the last row of the spreadsheet
- Iterate through the rows
- Close InputStream and Workbook

# Validate

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- Required fields for transaction import
- Other types of validation rules
- Validate records that have not been processed
- Disposition each record



# Create transactions

- Are there transactions to xog?
- Use java methods to get the session ID
- Execute xogs one at a time
- Record results

```
<!-- ESTABLISH A XOG SESSION ID -->
<core:invokeStatic className="com.niku.union.security.UserSessionControllerFactory" method="getInstance" var="sessionController"/>
<core:invoke method="init" on="${sessionController}" var="securityID">
  <core:arg value="${xogUserName}"/>
</core:invoke>
<core:set value="${securityID.getSessionId()}" var="sessionID"/>
```

# Questions?



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