

# Appendices -Additional exercises

### Add05 Wait different files

- Related articles in Stambia.org
  - <a href="http://www.stambia.org/doc/80-development-hints-and-tips/how-to/19-how-to-iterate-a-process-on-a-list-of-files">http://www.stambia.org/doc/80-development-hints-and-tips/how-to/19-how-to-iterate-a-process-on-a-list-of-files</a>



#### Wait different files - 1/10

- Context
- Integrate in database a set of files stored in a folder.
- Each group of files has the same prefix (B00001 for example)
- You must integrate the group of files only if the group contains the 3 suffixes BIL, LIN and LOG

&

The target will be two tables in a new schema in Datamart

database

```
CREATE SCHEMA THREE FILES:
                                                     B00002.LOG
                                                      B00003.LIN
CREATE TABLE THREE FILES.BILLING (
                                        This group is not complete
BILLING ID INTEGER NOT NULL,
BILLING CREATION DATE NUMERIC (8),
                                        The files must not be treated
CUSTOMER ID INTEGER,
BILLING STATUS INTEGER,
BILLING LINES NUMBER SENT INTEGER,
BILLING LINES NUMBER LOG INTEGER,
CONSTRAINT PK BILLING PRIMARY KEY (BILLING ID));
CREATE TABLE THREE FILES.BILLING LINE
BILLING ID INTEGER NOT NULL,
BILLING LINE INTEGER NOT NULL,
PRODUCT_ID INTEGER,
BILLING QTY INTEGER,
CONSTRAINT PK_BILLING_LINE PRIMARY KEY (BILLING_ID, BILLING LINE));
```

Those groups are complete

The files must be treated

v 😝 Training

v & Files In

Components
Exos materials

> Countries

Excel Files

> MultiGenFiles
 > Multiple\_Files
 > Reference Files

StateCodeList Update files

> US Geocoder WS

> Wait\_Different\_Files

B00001.BIL

■ B00001.LIN

■ B00001.LOG

■ B00002.BIL
■ B00002.LIN

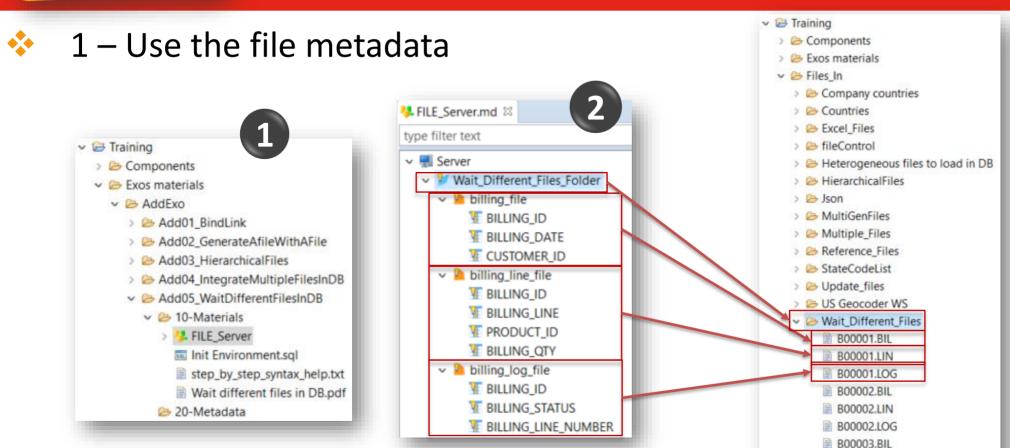
Company countries

HierarchicalFiles

Heterogeneous files to load in DB



#### Wait different files - 2/10



- 2 Reverse one of each file with different suffix and rename them with a generic name
  - billing\_file for fix\_file>.BIL
  - billing line file for fix file>.LIN
  - billing\_log\_file for fix\_file>.LOG

■ B00003.LIN



## stambia Wait different files - 3/10

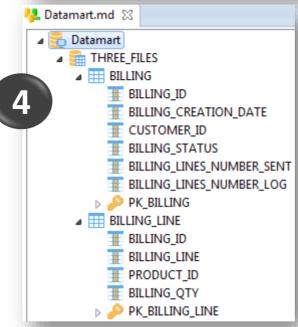
3 - Execute the SQL file (Init Environment.sql) **to** create the required schema and tables on a Datamart connection

4 - Reverse the schema and the table

```
> Add01 BindLink
                                                > Add02 GenerateAfileWithAFile
CREATE SCHEMA THREE FILES;
                                                    Add03 HierarchicalFiles
                                                Add04_IntegrateMultipleFilesInDB
CREATE TABLE THREE FILES.BILLING (
                                                Add05 WaitDifferentFilesInDB
BILLING ID INTEGER NOT NULL,
                                                  > 10-Materials
                                                    FILE Server
BILLING CREATION DATE NUMERIC(8),
                                                      Init Environment.sal
CUSTOMER ID INTEGER,
                                                      step by step syntax help.txt
BILLING STATUS INTEGER,
                                                      Wait different files in DB.pdf
BILLING LINES NUMBER SENT INTEGER,
                                                    20-Metadata
BILLING LINES NUMBER LOG INTEGER,
CONSTRAINT PK BILLING PRIMARY KEY (BILLING_ID));
CREATE TABLE THREE FILES.BILLING LINE (
BILLING ID INTEGER NOT NULL,
BILLING LINE INTEGER NOT NULL,
PRODUCT ID INTEGER,
BILLING QTY INTEGER,
CONSTRAINT PK BILLING LINE PRIMARY KEY (BILLING ID, BILLING LINE));
```

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Components Fyos materials V AddExo





#### Wait different files - 4/10

Palette

Palette

Palette

Palette

Wait for one or more files

XSIt Transforma

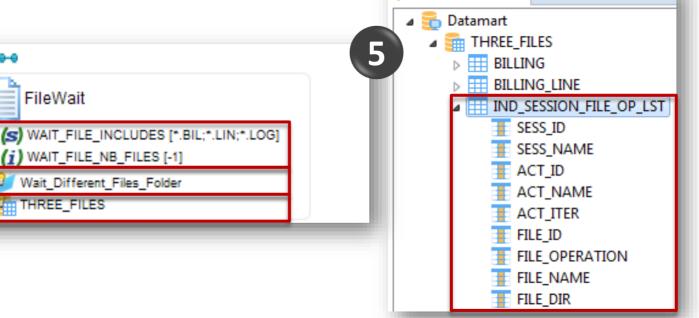
- 5 Create a process and a "FileWait" action
  - Drag & Drop on it the folder metadata
  - Drag & Drop the "THREE\_FILES" schema to allow Stambia to insert all the files in a temporary table named "IND\_SESSION\_FILE\_OP\_LST"

This table will be created at the first execution of the FileWait action

Complete the other required properties (WAIT\_FILE\_INCLUDES and WAIT\_FILE\_NB\_FILES)

Execute the process a first time to allow Stambia to create the temporary table

and be able to reverse it



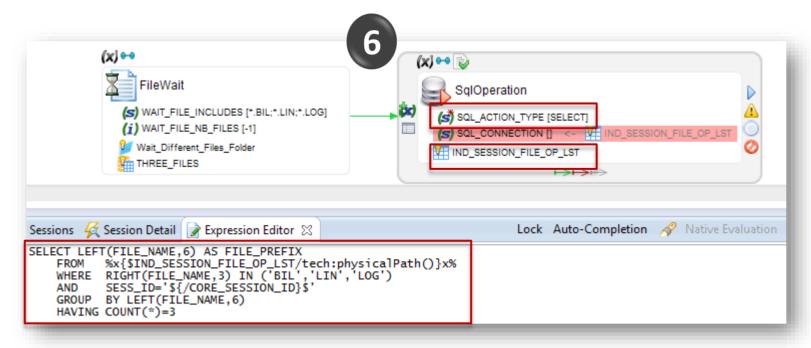
🛂 Datamart.md 💢



#### Wait different files - 5/10

Sql To Paramet | Run an Sql Statement | Descripting | Run an Sql Statement | Description | Descript

- 6 Add a "SqlOperation" action
  - Drag & drop the "IND\_SESSION\_FILE\_OP\_LST" table in the action
  - Define the "SQL\_ACTION\_TYPE" to "SELECT"
  - Link the "FileWait" action with the "SqlOperation" action
  - Define the Expression Editor of the "SqlOperation" action



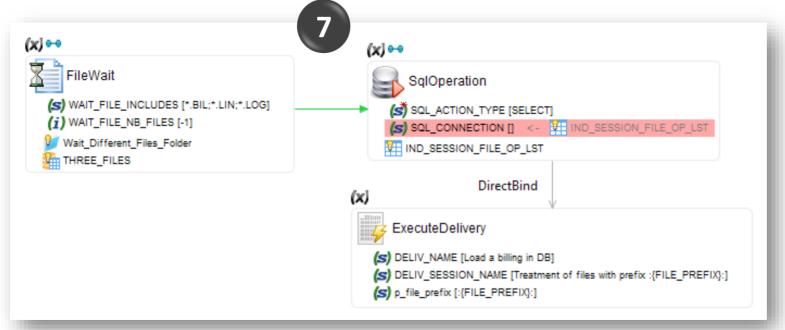
**Note**: All the alias (here FILE\_PREFIX) of the SELECT clause of a "SqlOperation" action will be availables as bind variables (with the syntax :{FILE\_PREFIX}:)



#### Wait different files - 6/10

- Palette

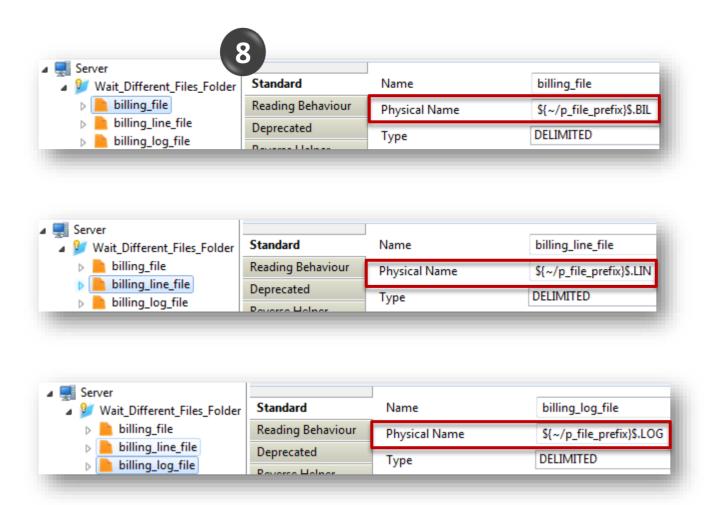
  Pa
- 7 Add an "ExecuteDelivery" action in the process
  - Create a Bind link between the "SqlOperation" and this action
  - Complete the "DELIV\_NAME" parameter with the name of a sub delivery (process/mapping, the name of a mapping developed after in this case) used to integrate each group of 3 files in the tables
  - Complete the "DELIV\_SESSION\_NAME" parameter
  - Create a parameter named "p\_file\_prefix" with the value of the bind variable ":{FILE\_PREFIX}:"





#### Wait different files - 7/10

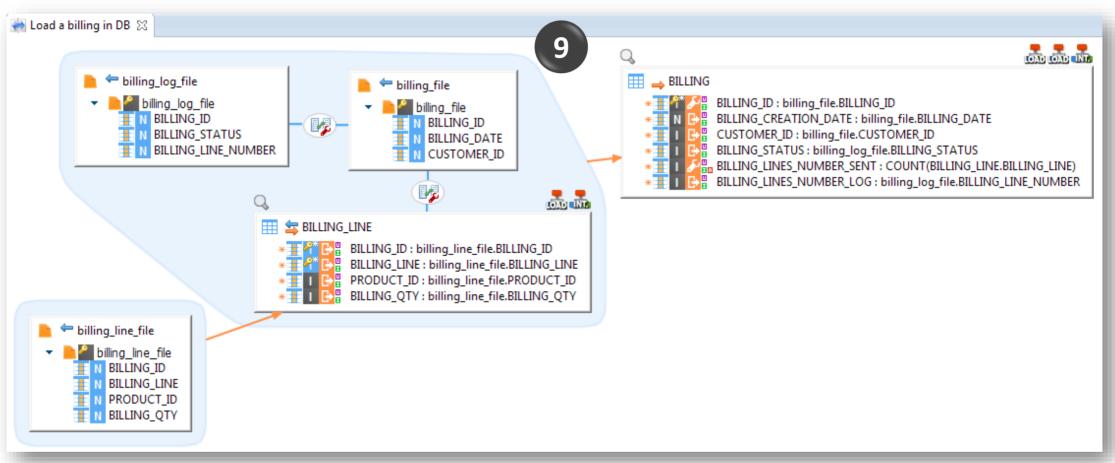
8 - Modify each physical name of the 3 Metadata files with the value of the "p\_file\_prefix" parameter





#### Wait different files - 8/10

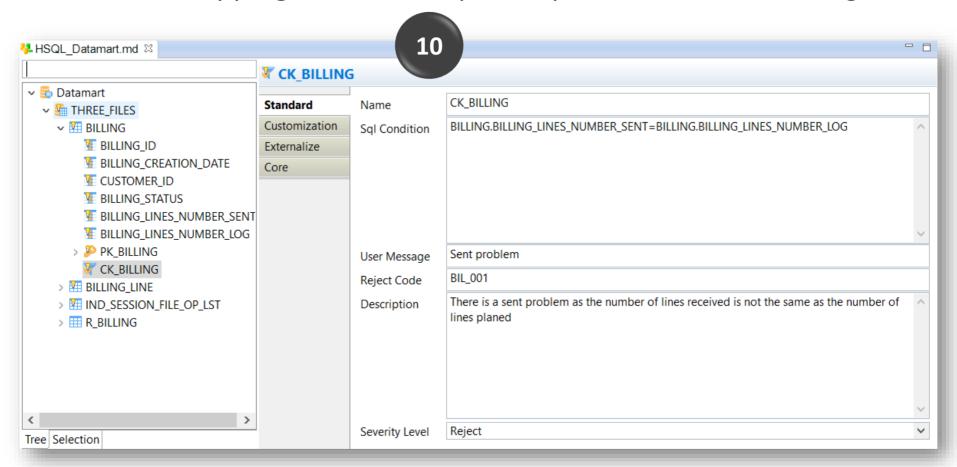
- 9 Create the mapping to integrate the 3 files in the 2 tables
  - Note: As BILLING\_ID is used in a join and in a map, set it in staging not to have 2 columns references in the temporary tables
  - Set Aggregate on BILLING\_LINES\_NUMBER\_SET column





#### Wait different files - 9/10

- 10 Add a condition on the "BILLING" table
  - Enable the rejects
  - Unset the "Delete Rejects on Checked Table" on the reject template
  - Publish the mapping to allow the parent process to find it during execution





#### Wait different files - 10/10

🗲 Sessions 🟻 🚜 Session Detail 🍃 Expression Editor

4 2015/11/12 19:37:45.394 Wait Different Files Treatment

2015/11/12 19:37:47. Treatment of files with prefix B00002

Name:

Start Time

▼ Count: 50 V My



 Only 2 groups of files are treated, the 3<sup>rd</sup> one is not complete (no .LOG file)

