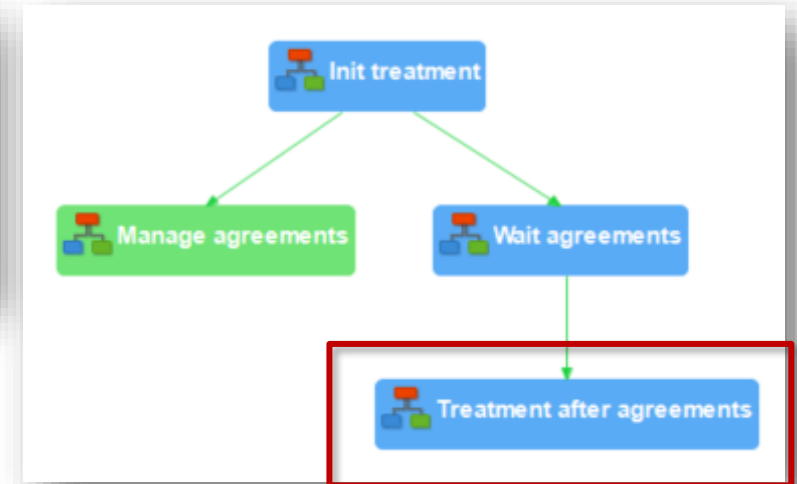


ADV09 Asynchronous actions

- ❖ Context : a treatment must be executed
 - only after, at least, two managers' agreements

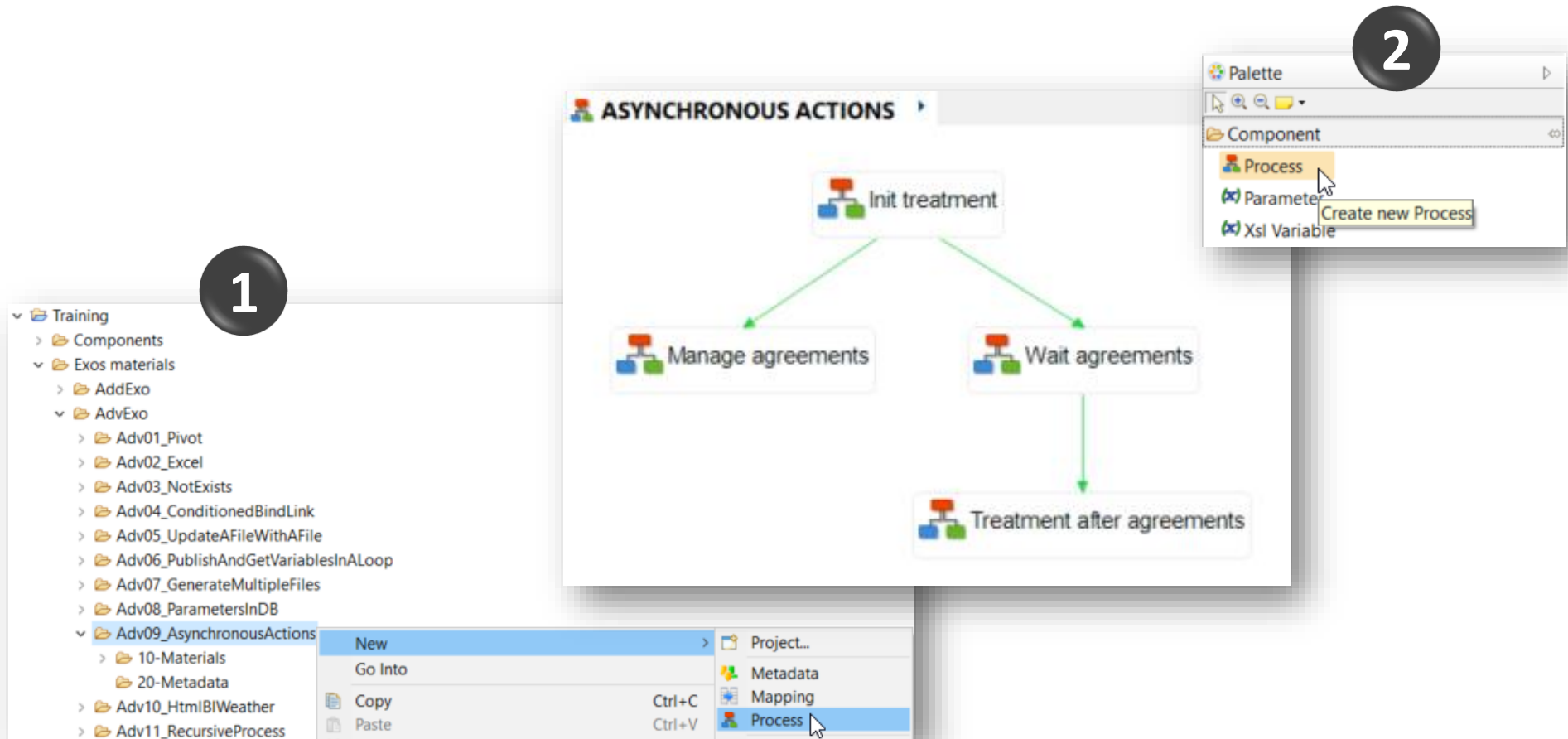


- Agreements and treatments are logged in the file

```

Signature_log.csv
Timestamp;Action;Person;SignatureKey
07/07/2020 11:34:05;Signature;Manager1;416a395bb1d3417f96d42bcec37d1377
07/07/2020 11:34:08;Signature;Manager3;fab35f487d9a423e93ee2eeb27448002
07/07/2020 11:34:08;Treatment;Stambia;
07/07/2020 11:34:19;Signature;Manager2;8895252ce27840259c403388923cdbbe
    
```

- ❖ 1 - Create a process from the project explorer
 - 2 - Create four sub-processes from the Palette in the process



- ❖ 3 - Create a scripting action and a write a file action in the “Init treatment” sub-process

3

ASYNCHRONOUS ACTIONS **Init treatment**

Scripting Publish p_agreement_number
SCRIPTING_LANGUAGE [python]

WriteTxtFile Header
Asynchronous_Action_Log_Folder

Expression Editor

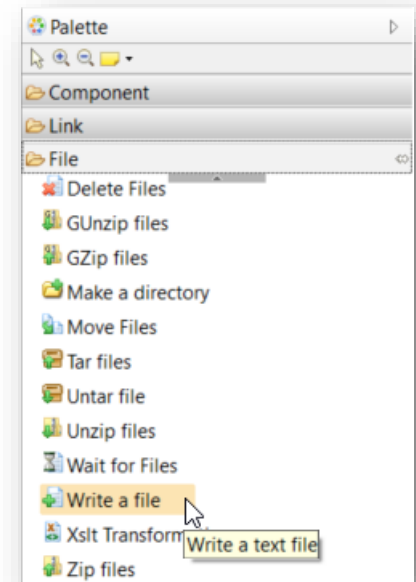
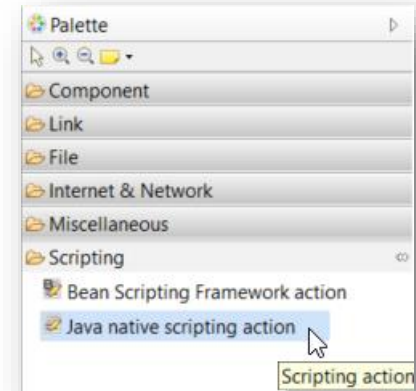
```
1 __ctx__.publishVariable("/p_agreement_number", "0")
```

Expression Editor

```
1 Timestamp;Action;Person;SignatureKey
```

Action Code WriteTxtFile Header

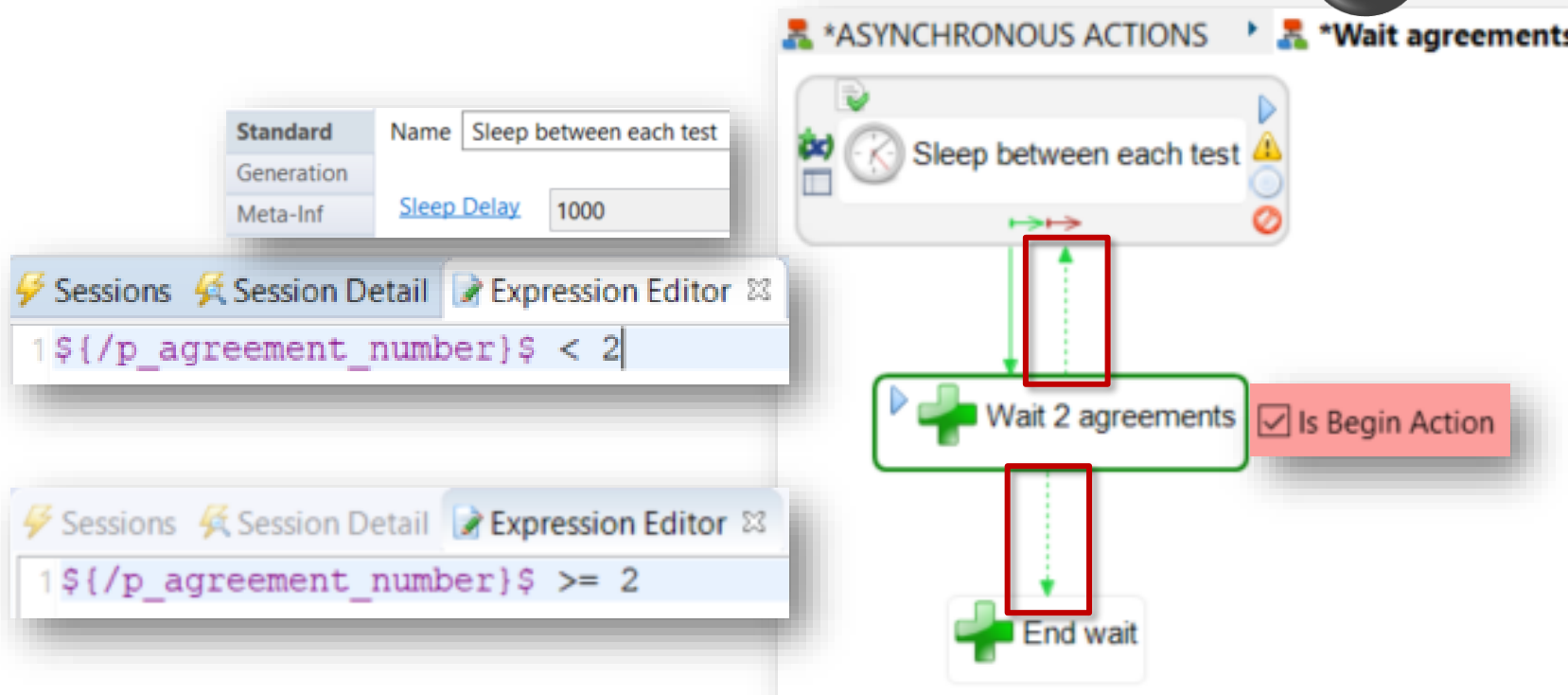
Standard	Name	WriteTxtFile Header	<input checked="" type="checkbox"/> Enable
Generation			
Meta-Inf	<input checked="" type="checkbox"/> Txt Write Append Line Separator		
Description	Txt Write Filename	%x{\$Asynchronous_Action_Log_Folder/tech:path()}x%/Signature_log.csv	
Advanced	Txt Write Append	false	
Core			



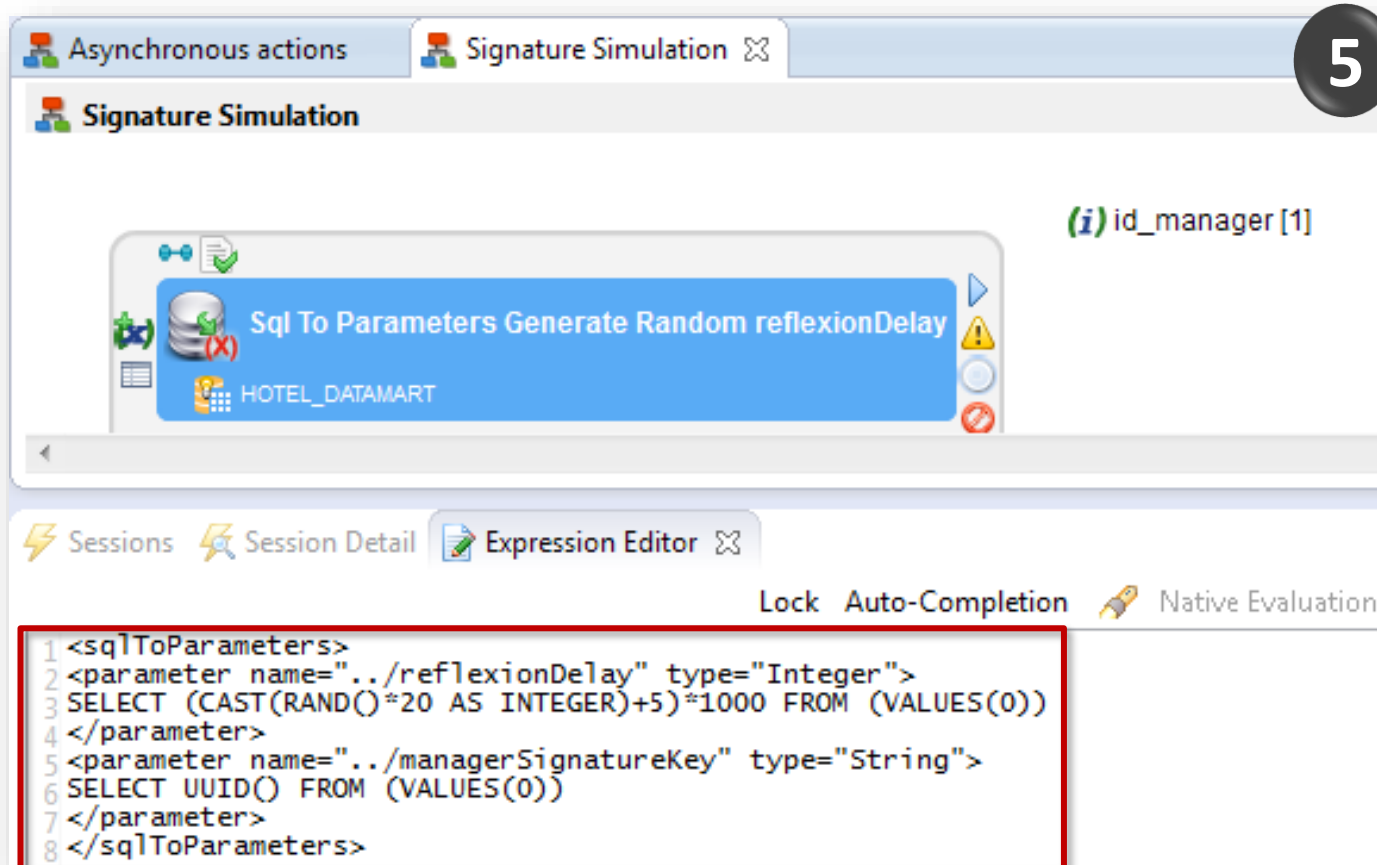
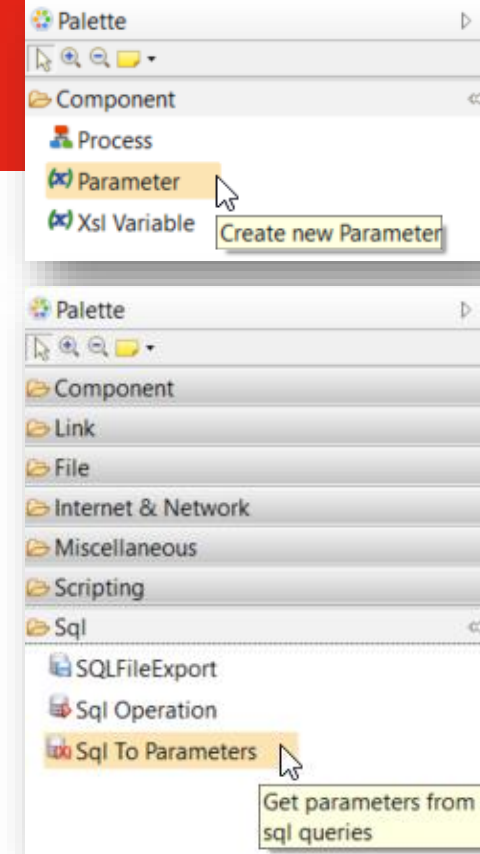
❖ 4 - Add a sleep action and two empty actions in the “Wait agreements” sub-process

- Add two opposite execution conditions
- Don't change default value on sleep action

4



- ❖ 5 - Create a new process with a parameter and a “Sql To Parameters” action
 - Drag & drop a HSQL database schema on the “Sql To Parameters” action
 - The “Sql To Parameters” action publish 2 parameters
 - reflexionDelay & managerSignatureKey



❖ 6 - Add a sleep, a scripting and a WriteTxtFile actions

6

Signature Simulation

Action Code Reflexion Delay MNG

Standard	Name	Reflexion Delay MNG
Generation		
Meta-Inf	<u>Sleep Delay</u>	S{../reflexionDelay}\$

Action Code WriteTxtFile Sign MNG

Standard	Name	WriteTxtFile Sign MNG
Generation		
Meta-Inf	<input checked="" type="checkbox"/> <u>Txt Write Append Line Separator</u>	
Description	Txt Write Filename	%x(\$Asynchronous_Action_Log_Folder/tech:path())x%/Signature_log.csv
Advanced	<u>Txt Write Append</u>	after
Core		

Expression Editor

```

1 %x (md:formatDate ("dd/MM/yyyy HH:mm:ss"))x%;Signature;Manager
2

```

Expression Editor

```

1 ag_number = __ctx__.getVariableValue("/p_agreement_number")
2 __ctx__.publishVariable("/p_agreement_number",str(int(ag_number)+1))

```

Palette

- Component
- Link
- File
- Internet & Network
- Miscellaneous
 - Empty action
 - Execute a delivery
 - Operating System Command
 - Sleep**
 - Variable Manager

Palette

- Component
- Link
- File
- Internet & Network
- Miscellaneous
- Scripting**
 - Bean Scripting Framework action
 - Java native scripting action**

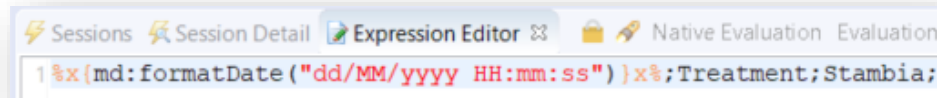
Palette

- Component
- Link
- File
 - GZip files
 - GZip files
 - Make a directory
 - Move Files
 - Tar files
 - Untar file
 - Unzip files
 - Wait for Files
 - Write a file**
 - Xslt Transform
 - Zip files

- ❖ 8 – Complete the sub-process named “Manage agreements” in the main process
- Drag & drop a empty action
- Drag & drop three times the “Signature Simulation” process in the sub-process
- define the id_manager parameter value (1, 2, 3)

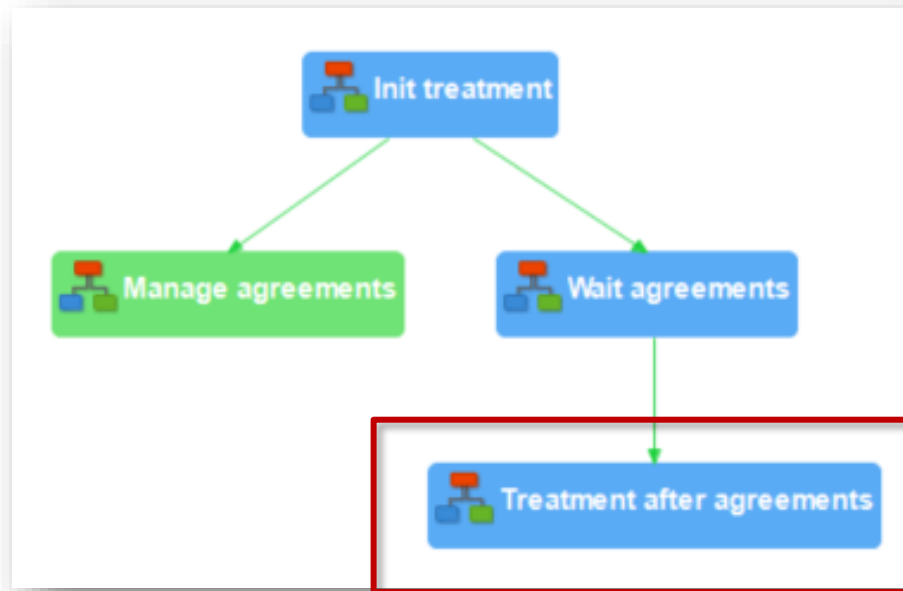


- ❖ 8 - Add a WriteTxtFile action in the “Treatment after agreements” sub-process

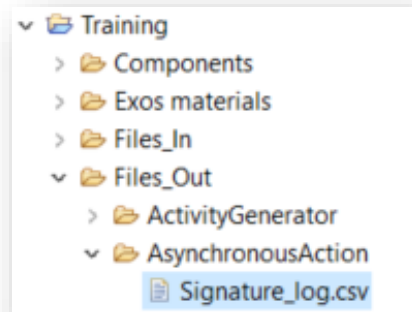


❖ Result

- The treatment at the right of the process begin before the end of the last of the three treatment (at the left in this case)



- The file result :



Signature_log.csv

Timestamp	Action	Person	SignatureKey
07/07/2020 11:34:05	Signature	Manager1	416a395bb1d3417f96d42bcec37d1377
07/07/2020 11:34:08	Signature	Manager3	fab35f487d9a423e93ee2eeb27448002
07/07/2020 11:34:08	Treatment	Stambia	
07/07/2020 11:34:19	Signature	Manager2	8895252ce27840259c403388923cdbbe