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# SignalByMailReply

## Description

This timer checks mail boxes for e-mails and forwards instances if there are any e-mails which have to be replied to generate further instances. The timer has to be used in combination with a [VariableDecisionHandler](#) at a node if a decision has to be made after receiving a signal. The sender will be assigned as an actor to all tasks of the current node if the signal has been transmitted successfully. All incoming e-mails will be attached to a corresponding activity as a notice if they can be related to this activity. [RegExp](#) will be used to select a number of successful e-mails as part of a variable (with the name given *Nodename-answer\_successful*). The corresponding process instance has to be referred to as

```
----- (${processInstanceId}) -----
```

in the text of the e-mail.

The answer can either be written in the first line or optionally in the following form

```
----- [Antwort: ] -----
```

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## Web service name

ProcessInstanceManager

## Web service method

signalByMailReply

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## Parameter

email,password,port,host,limit,moveFolder,pildRegExp,pDName,NodeNameRegExp,firstline,box,decisionRegExp,signalSuccessMail,processVariable,transitions

new version:

username,password,port,host,moveFolder,pDName,NodeNameRegExp,signalSuccessMail,processVariable,transitions,decisionRegExp

## 1. e-mail

This entails the complete e-mail address which will be used for generating further e-mails.

## 2. password

This will show the password to access the desired e-mail account.

## 3. Port

This provides information on the port corresponding to the e-mail address and the host.

Frequently used ports:

110 *Pop*

995 *Pop including encryption*

143 *IMAP*

993 *IMAP with encryption*

## 4. Host

Host, e.g., pop3.gmail.com or imap.gmail.com (very often this will entail either pop or pop3 or imap. Smtplib is by far less common!). An IMAP mail box will be necessary if moving all e-mails to other folders. The decision on what kind of protocol to use is depending on the mail box employed. If both common protocols are supported by the web service, then IMAP should be selected as the preferred protocol.

## 5. moveFolder

This will not be a mandatory field if activated: This is the name of the folder to which successfully processed e-mails for signalling should be moved.

## 6. pDName

Name belonging to the process definition.

## 7. nodeNameRegExp

nodeNameRegExp is a regular expression which provides clues on how to find the name of a node. The textual content of e-mails as well as corresponding subject headings will be scanned for this expression.

e.g., `\+\+(.+)\+\+` The searched for element would be the nodeName included in brackets. For

example:

```
++Wait++
```

For further elaboration on this topic, please refer to the entry `pildRegExp`.

## 8. `signalSuccessMail`

If the value is "true" then an e-mail will also be sent to the sender as a reply confirming the successful receipt of a signal. The reply can be configured within the process by using variables. Please refer to the section provided [below](#) for further information on this topic.

## 9. `processVariable`

The value of a process variable will be set to the selected transition which then enables the [VariableDecisionHandler](#) in the XOR-Gateway to make a decision.

## 10. `leavingTransitions`

How will the pathway of the process be found if after the current activity several other activities might follow? Transitions will be included in the timer as parameters by mapping which exact terms are meant to be detected by this transition. At least one transition has to work properly which in turn means that at least one of the correct terms has to be included in the text of an e-mail. For example: Approval:ok-O.K.-okay-yes-y-to-approve-approval-accepting-accept-adopting-all-right-alright-agreed-agreeing;rejected-rejecting:-not-okay-not-ok-not-O.K.-no-never-unacceptable

The transitions according to this node are: approval and rejection To signal an approval a response to the e-mail might entail ok, okay, O.K. etc. Alternatively, to signal a rejection words would be used like "not okay", no, never etc.

## 11. `reasonRegExp`

The decision in the e-mail which has signaled the process is supposed to be saved to be beneficial for the further course of the process. At this point it can be determined what terms should be used in searching the text of the e-mail. If the decision is meant to provide a result extending over several rows the RegExp has to use the ending '?s', for example `(.*?)Replies:?s`

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## Variables

The replies to invalid messages can be setup either by using a variable or the file `loom.properties`:  
*no-tim-user-found-for-signal-by-mail-reply*  
*user-not-actor-for-signal-by-mail-reply*  
*found-no-transition-for-signal-by-mail-reply*

*found-no-node-for-signal-by-mail-reply*

*signal-done-for-signal-by-mail-reply*

*found-no-processinstance-for-signal-by-mail-reply* Only the configuration using `loom.properties` would be possible in this case.

The correct answer has to be configured in the following way:

*signal-successful-signal-by-mail-reply*

The name of the folder which has to be accessed can also be configured by using `loom.properties` via *inbox-name-signal-by-mail-reply*.

### Attention!

Depending on the exact stage of the procedure the following variables can be implemented:

*emailFrom*, This indicates the sender

*userNameLast*, This entry shows the surname of the T!M user

*userNameFirst*, This variable represents the given name of the current T!M user

*nodeName*, The name of the node which should be signalled is provided here

*nodeEndDate*, This displays the date when this node was terminated. This variable is meant to be used only after termination of a node when trying to signal

*nodeEndTime*, This indicates the point in time when this node was terminated. This variable is intended to be used only after termination of a node when trying to signal

*lastUserNameLast*, This shows the surname of the user who terminated this node. This is supposed to be used only when trying to signal after termination of a node

*lastUserNameFirst*, This displays the given name of the user who terminated the node. Only after termination of a node is this meant to be used for signalling

After sending the signal the following variables are available: *nodename-lastActor nodename-signalDateTime* (Format: "yyyy-MM-dd HH:mm:ss")

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## Procedure

In a first step the mailbox specified in the timer will be opened to receive incoming e-mails. As a default setting the folder *Inbox* will be retrieved. This setting can be changed by configuring `loom.properties` with the parameter *inbox-name-signal-by-mail-reply*.

In the second step the first five e-mails to be found will be processed. This number of e-mails can be adapted by configuring `loom.properties` with the parameter *inbox-name-signal-by-mail-reply*. In each e-mail a search will be conducted to find a text according to the form of `---(1234)---` at first in the textual content and then in the subject heading. This text represents the identification (ID) of the T!M process instance.

The message will be ignored if neither an ID nor a corresponding process instance can be found within T!M.

In the next step a T!M user will be sought while sending an e-mail. The sender will receive an e-mail if no user can be found.

In the following stage the name of an activity will be searched for in the content as well as in the subject heading of the e-mail by using `NodeNameRegExp`. In case a name is found an examination will

be conducted to check if this process instance is pertaining to the delivered [process definition](#). If this is not the case then this e-mail is not supposed to be assigned to this timer. This e-mail would then be also ignored and no e-mail would be sent as a reply.

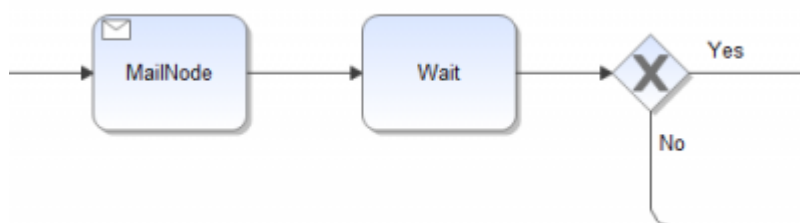
If this timer is the proper one pertaining to this particular e-mail an examination will be started to ensure that the process is also focused on the correct activity. If this is the case the e-mail will be attached to an activity as a notice. In addition, the sender will receive a corresponding message. Now the TIM user who sent the e-mail will be examined to ensure if he is responsible for one of the tasks related to the current activity. This user will then in turn be informed if this is not the case. At this later stage it will be checked if there are several follow-up activities. If there is only one existindg then the user will be assigned the status of an Actor who is responsible for all tasks. Ist es nur eine vorhanden, wird der User als Actor auf den Aufgaben der Aktivität gesetzt. Gibt es mehrere Möglichkeiten den Prozess fortzusetzen wird geprüft ob die Mail eine [Entscheidung](#) dazu enthält. Dann wird auch in diesem Fall der User Actor auf den Task. Jetzt werden Prozessvariablen gesetzt und der Prozess weiter geschickt. Wenn [gewünscht](#) wird auch dann eine Antwort verschickt. Alle Mails die beantwortet wurden, werden, wenn er vorhanden ist, in den Ordner errorMessages verschoben. Die Mail die den Prozess weitergeschickt hat wird in den [konfigurierten](#) Ordner verschoben.

## Beispiele



Parameter:

```
johnm1477@gmail.com,123456,993,imap.gmail.com,,SignalByMailReply mk4,\-+\\{(Wait.*)\\}\-+,true,decision,no:abgelehnt-nein-nok;jo:genehmigt-ok-ja,(.*?)schrieb?s
```



Beispielprozess:

Einfaches Beispiel für den Mailtext:

Hallo,  
für Entscheidung "Nein" antworten Sie bitte mit "abgelehnt", "nein", oder

"nok".

Für Entscheidung "Ja" antworten Sie bitte mit "genehmigt", "ja", oder "ok".

Viele Grüße  
Ihr TIM-System

-----({processInstanceId})-----{Wait4}-----

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## Abhängigkeiten

T!M Version : in dieser Konfiguration ab [Version 3.6.2](#)

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