

Element Technology – Process Monitoring

Summary

Process Monitoring is a function to perform periodic inspections on whether a specific process is under activation or not, and to notify administrators on any problems generated

Description

- **Process Monitoring** is intended to register the process monitoring status, and includes the following functions: registration, update, deletion, inquiry and list inquiry of the process monitoring.
- **Process Monitoring** supports both WINDOWS and UNIX environments, and Globals.OsType of the 'globals.properties' file is set either as **Globals.OsType = UNIX** or **Globals.OsType = WINDOWS**.

① Process Monitoring List Inquiry: Using the function to inquire the defined information in the order of the latest registration, and the search result is reflected on screen.

② Register Process Monitoring: It is to register the process monitoring info and to inquire the registration result.

③ Update Process Monitoring: It is to update the registered process monitoring info items.

④ Delete Process Monitoring: It is to delete the registered process monitoring info.

⑤ Inquire Process Monitoring: It is to inquire the registered process monitoring info.

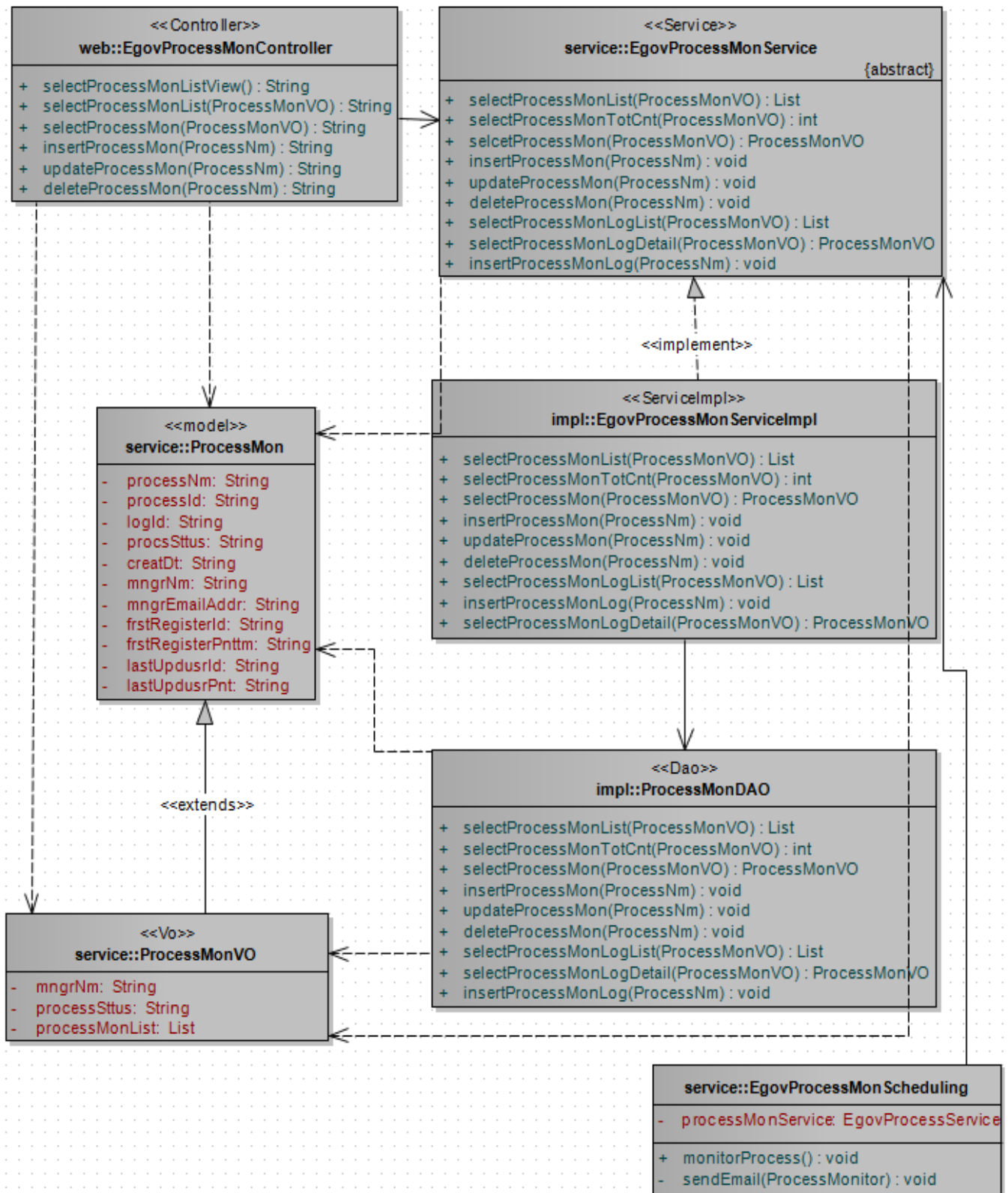
⑥ Inquire Process Monitoring Log List: Using the process monitoring log to inquire the defined information in the order of the latest registration, and the search result is reflected on screen.

⑦ Process Monitoring Query: It is to inquire the registered process monitoring log information.

Related Sources

Type	Corresponding Sources	Remarks
Controller	egovframework.com.utl.sys.prm.web.EgovProcessMonController.java	Controller class for the process monitoring
Service	egovframework.com.utl.sys.prm.service.EgovProcessMonService.java	Service interface for the process monitoring
ServiceImpl	egovframework.com.utl.sys.prm.service.impl.EgovProcessMonServiceImpl.java	Service implementation class for the process monitoring
DAO	egovframework.com.utl.sys.prm.service.impl.ProcessMonDAO.java	Data processing class for the process monitoring
Model	egovframework.com.utl.sys.prm.service.ProcessMon.java	Model class for the process monitoring
Model	egovframework.com.utl.sys.prm.service.ProcessMonLog.java	Model class for the process monitoring log information
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonList.jsp	jsp page for the process monitoring list inquiry
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonRegist.jsp	jsp page for the process monitoring registration
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonUpdt.jsp	jsp page for the process monitoring update
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonDetail.jsp	jsp page for inquire the registered process monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonLogList.jsp	jsp page for inquire the process monitoring log list
JSP	/WEB-INF/jsp/egovframework/utl/sys/prm/EgovProcessMonLogDetail.jsp	jsp page for inquire the registered process monitoring log

Class Diagram



Related Tables

Table Name	Table Name(English)	Remarks
Process Monitoring	COMTNPROCESSMON	It is to define and manage the properties information used to manage process monitoring information.
Process Monitoring Log Information	COMTNPROCESSMONLOGINFO	It is to define and manage the properties information used to manage the process monitoring log information.

ID Generation

- In order to use the ID Generation Service, the **PROC_ID** item should be added to COMTECOPSEQ which is the Sequence storage table.
- In order to use the ID Generation Service, the **PROL_ID** item should be added to COMTECOPSEQ which is the Sequence storage table.

```
INSERT INTO COMTECOPSEQ VALUES('PROC_ID','0');  
INSERT INTO COMTECOPSEQ VALUES('PROL_ID','0');
```

Property File Setting

globals.properties

To designate system environment information, an additional property must be set in the 'globals.properties' file.

Refer to the [Element Technology Property & Command Shell Script](#) section for further details on the globals.properties.

Under the UNIX Environment

```
...  
Globals.OsType = UNIX  
...
```

Under the WINDOWS Environment

```
...  
Globals.OsType = WINDOWS  
...
```

Scheduler Registration

- The following should be registered to the **context- scheduling.xml** file so as to register a process monitoring scheduler.

```
<!--process monitoring - - >  
<bean id="processMntrng"  
      class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">  
  <property name="targetObject" ref="egovProcessMonScheduling" />  
  <property name="targetMethod" value="monitorProcess" />  
  <property name="concurrent" value="false" />  
</bean>  
  
<!--process monitoring trigger - - >  
<bean id="processMntrngTrigger"
```

```

class="org.springframework.scheduling.quartz.SimpleTriggerBean">
<property name="jobDetail" ref="processMntrng" />
<property name="startDelay" value="60000" />
<property name="repeatInterval" value="600000" />

```

</bean>

‘startDelay’ sets the time delayed in seconds after the server starts. (ms unit: currently, 1 min)

‘repeatInterval’ sets the intervals of execution in seconds. (ms unit: currently, 10 min)

<!--monitoring scheduler -->

```

<bean id="mnrngScheduler" class="org.springframework.scheduling.quartz.SchedulerFactoryBean">

```

```

<property name="triggers">

```

```

<list>

```

```

<ref bean="processMntrngTrigger" />

```

```

</list>

```

```

</property>

```

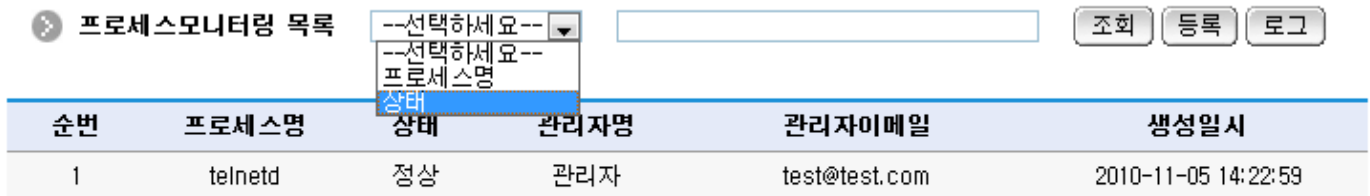
</bean>

Related Screens & Action Manuals

Process Monitoring List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/prm/selectProcessMonList.do	selectProcessMonList	“ProcessMonDAO.selectProcessMonList”
Inquire	/utl/sys/prm/selectProcessMonList.do	selectProcessMonList	“ProcessMonDAO.selectProcessMonListCnt”

There are 10 items inquired per page on a process monitoring list, with 10 pages in total. Search options are the status and the administrator name.



Inquiry: It is to inquire the registered process monitoring list.

Registration: Using the Register button at the upper section to move to the **Process Monitoring Registration** screen in order to register a new process monitoring.

Log: Using the Log button at the upper section to move to the **Process Monitoring Log List** screen in order to check the process monitoring log.

Send E- mail: If the process monitoring **status is abnormal, an e- mail is sent** to the administrator.

Process Monitoring Registration

Action	URL	Controller method	QueryID
Register	/utl/sys/prm/addProcessMon.do	insertProcessMon	“ProcessMonDAO.insertProcessMon”

Insert the properties information of the process monitoring, and then register.

프로세스모니터링 등록

프로세스명 *	<input type="text"/>
관리자명 *	<input type="text"/>
관리자이메일 *	<input type="text"/>

Save: After inserting the process monitoring properties to register a new process monitoring, register it using the **Save button** at the upper section.

List: It is used to move to the process monitoring list inquiry screen.

Process Name: It refers to the process name of a server installed in a common component.

Process Monitoring Update

Action	URL	Controller method	QueryID
Update	/utl/sys/prm/updateProcessMon	updateProcessMon	"ProcessMonDAO.updateProcessMon"

It is to update the process monitoring properties information, and then save.

프로세스모니터링 수정

프로세스명 *	<input type="text" value="telnetd"/>
관리자명 *	<input type="text" value="관리자"/>
관리자이메일 *	<input type="text" value="test@test.com"/>

Save: After updating the registered process monitoring properties, update it using the **Save button** at the upper section.

List: It is used to move to the process monitoring list inquiry screen.

Detail Inquiry of the Process Monitoring

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/prm/getProcessMon.do	selectProcessMon	"ProcessMonDAO.selectProcessMon"
Delete	/utl/sys/prm/deleteProcessMon.do	deleteProcessMon	"ProcessMonDAO.deleteProcessMon"

It is to inquire the properties information of the process monitoring.

프로세스모니터링 상세조회

프로세스명 * telnetd
 상태 * 정상
 관리자명 * 관리자
 관리자이메일 * test@test.com

Update: After updating the registered process monitoring properties, move to the process monitoring update screen using the **Update button** at the upper section.

Delete: It is to delete the registered process monitoring information.

List: It is to move to the process monitoring list inquiry screen.

Process Monitoring Log List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/prm/selectProcessMonLogList.do	selectProcessMonLogList	"ProcessMonDAO.selectProcessMonLogList"
Inquire	/utl/sys/prm/selectProcessMonLogList.do	selectProcessMonLogList	"ProcessMonDAO.selectProcessMonLogListCnt"

There are 10 items inquired per page on a process monitoring log list, with 10 pages in total. Search options are the status, the administrator name and the monitoring time.

순번	로그ID	프로세스명 상태	명	상태	생성일시
1	PROL_000000000003218	java	java	오류	2010-10-06 15:16:22
2	PROL_000000000003217	V3SP.exe	V3SP.exe	오류	2010-10-06 15:16:18
3	PROL_000000000003216	java	java	정상	2010-10-06 15:17:01
4	PROL_000000000003215	V3SP.exe	V3SP.exe	정상	2010-10-06 15:17:00
5	PROL_000000000003214	java	java	오류	2010-10-06 15:12:23
6	PROL_000000000003213	V3SP.exe	V3SP.exe	오류	2010-10-06 15:12:18
7	PROL_000000000003212	java	java	정상	2010-10-06 15:10:56
8	PROL_000000000003211	V3SP.exe	V3SP.exe	정상	2010-10-06 15:10:56
9	PROL_000000000003210	java	java	정상	2010-10-06 15:09:16
10	PROL_000000000003209	java	java	오류	2010-10-06 15:06:18

Inquiry: It is to inquire the registered process monitoring log list.

Detail Inquiry of the Process Monitoring Log

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/prm/getProcessMonLog.do	selectProcessMonLog	"ProcessMonDAO.selectProcessMonLog"

It is to inquire the properties information of the process monitoring log

프로세스모니터링로그 상세조회

로그ID *	PROL_0000000000006959
프로세스ID *	PROC_0000000000000023
프로세스명 *	java
상태 *	정상
마지막 생성일시 *	2010-10-28 15:21:39

목록

List: It is to move to the process monitoring log list inquiry screen.
