Element Technology – Network Service Monitoring

Summary

Network Service Monitoring is a function to periodically monitor the network service status.

The network service to be monitored must be registered in a system as a network service target list.

Description

- **Network Service Monitoring** is intended to register the network service monitoring, and includes the following functions: registration, update, deletion, inquiry and list inquiry of the network service monitoring.

① Network Service 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 Network Service Monitoring: It is to register the network service monitoring info and to inquire the registration result.
③ Update Network Service Monitoring: It is to update the registered network service monitoring info items.
④ Delete Network Service Monitoring: It is to delete the registered network service monitoring info.
⑤ Inquire Network Service Monitoring: It is to inquire the registered network service monitoring info.
⑥ Inquire Network Service Monitoring Log List: Using the network service monitoring log to inquire the defined information in the order of the latest registration, and the search result is reflected on screen.
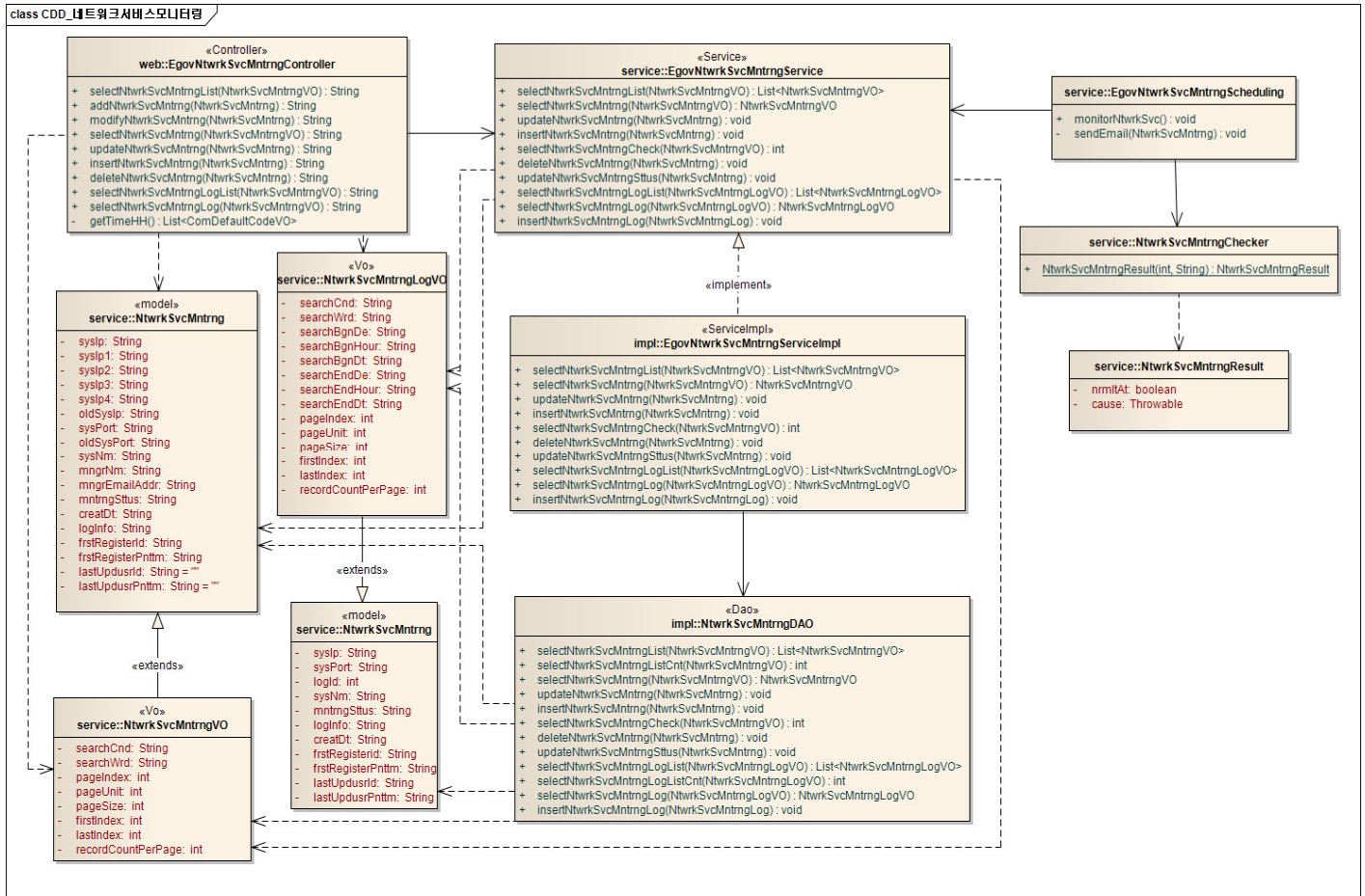⑦ Network Service Monitoring Query: It is to inquire the registered network service monitoring log information

Related Sources

Type	Corresponding Sources	Remarks
Controller	egovframework.com.utl.sys.nsm.web.EgovNtwrkSvcMntrngController.java	Controller class for the network service monitoring
Service	egovframework.com.utl.sys.nsm.service.EgovNtwrkSvcMntrngService.java	Service interface for the network service monitoring
ServiceImpl	egovframework.com.utl.sys.nsm.service.impl.EgovNtwrkSvcMntrngServiceImpl.java	Service implementation class for the network service monitoring
DAO	egovframework.com.utl.sys.nsm.service.impl.NtwrkSvcMntrngDAO.java	Data processing class for the network service monitoring
Model	egovframework.com.utl.sys.nsm.service.NtwrkSvcMntrng.java	Model class for the network service monitoring
Model	egovframework.com.utl.sys.nsm.service.NtwrkSvcMntrngLog.java	Model class for the network service monitoring log information
VO	egovframework.com.utl.sys.nsm.service.NtwrkSvcMntrngVO.java	VO class for the network service monitoring
VO	egovframework.com.utl.sys.nsm.service.NtwrkSvcMntrngLogVO.java	VO class for the network service monitoring log info
JSP	/WEB-INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngList.jsp	jsp page for the network service monitoring list inquiry
JSP	/WEB-INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngRegist.jsp	jsp page for the network service monitoring registration
JSP	/WEB-INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngUpdt.jsp	jsp page for the network service monitoring update
JSP	/WEB-	jsp page for inquire the

	INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngDetail.jsp	registered network service monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngLogList.jsp	jsp page for inquire the network service monitoring log list
JSP	/WEB-INF/jsp/egovframework/utl/sys/nsm/EgovNtwrkSvcMntrngLogDetail.jsp	jsp page for inquire the registered network service monitoring log
XML	/egovframework/sqlmap/com/utl/sys/nsm/EgovNtwrkSvcMntrng_SQL_*.xml	Network service monitoring QUERY XML

Class Diagram

Related Tables

Table Name	Table Name(English)	Remarks
Network Service Monitoring	COMTNNTWRKSVCMNTRNG	It is to define and manage the properties information used to manage network service monitoring information.
Network Service Monitoring Log Information	COMTNNTWRKSVCMNTRNGLOGINFO	It is to define and manage the properties information used to manage the network service monitoring log information.

ID Generation

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

```
INSERT INTO COMTECOPSEQ VALUES('NTWRKSVC_LOGID','0');
```

Scheduler Registration

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

```
<!—network service monitoring - - >
    <bean id="ntwrkSvcMntrng"
            class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
            <property name="targetObject" ref="egovNtwrkSvcMntrngScheduling" />
            <property name="targetMethod" value="monitorNtwrkSvc" />
            <property name="concurrent" value="false" />
    </bean>

    <!—network service monitoring trigger - - >
    <bean id="ntwrkSvcMntrngTrigger"
            class="org.springframework.scheduling.quartz.SimpleTriggerBean">
            <property name="jobDetail" ref="ntwrkSvcMntrng" />
            <!—It is executed 1 minute after it starts. (milisecond) - - >
            <property name="startDelay" value="60000" />
            <!—It is executed for every 10 minutes. (milisecond) - - >
            <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="mntrngScheduler" class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
            <property name="triggers">
                    <list>
                            <ref bean="ntwrkSvcMntrngTrigger" />
                    </list>
            </property>
    </bean>
```

Related Screens & Action Manuals

Network Service Monitoring List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/nsm/selectNtwrkSvcMntrngList.do	selectNtwrkSvcMntrngList	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrngList"
Inquire	/utl/sys/nsm/selectNtwrkSvcMntrngList.do	selectNtwrkSvcMntrngList	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrngListCnt"

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

Inquiry: It is to inquire the registered network service monitoring list.
Registration: Using the Register button at the upper section to move to the **Network Service Monitoring Registration** screen in order to register a new network service monitoring.
System Name Click: It is to move to the **Detail Inquiry of the Network Service Monitoring Target** screen.

Network Service Monitoring Registration

Action	URL	Controller method	QueryID
Register	/utl/sys/nsm/addNtwrkSvcMntrng.do	insertNtwrkSvcMntrng	"NtwrkSvcMntrngDAO.insertNtwrkSvcMntrng"

Insert the properties information of the network service monitoring, and then register.

Save: After inserting the network service monitoring properties to register a new network service monitoring, register it using the **Save button** at the upper section.
List: It is used to move to the network service monitoring list inquiry screen.

Network Service Monitoring Update

Action	URL	Controller method	QueryID
Update	/utl/sys/nsm/modifyNtwrkSvcMntrng.do	updateNtwrkSvcMntrng	"NtwrkSvcMntrngDAO.updateNtwrkSvcMntrng"

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

Save: After updating the registered network service monitoring properties, update it using the **Save button** at the upper section.
List: It is used to move to the network service monitoring list inquiry screen.

Detail Inquiry of the Network Service Monitoring

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/nsm/selectNtwrkSvcMntrng.do	selectNtwrkSvcMntrng	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrng"
Delete	/utl/sys/nsm/deleteNtwrkSvcMntrng.do	deleteNtwrkSvcMntrng	"NtwrkSvcMntrngDAO.deleteNtwrkSvcMntrng"

It is to inquire the properties information of the network service monitoring.

Update: After updating the registered network service monitoring properties, move to the network service monitoring update screen using the **Update button** at the upper section.
Delete: It is to delete the registered network service monitoring information.
List: It is to move to the network service monitoring list inquiry screen.

Network Service Monitoring Log List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/nsm/selectNtwrkSvcMntrngLogList.do	selectNtwrkSvcMntrngLogList	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrngLogList"

Inquire	/utl/sys/nsm/selectNtwrkSvcMntrngLogList.do	selectNtwrkSvcMntrngLogList	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrngLogListCnt"

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

Inquiry: It is to inquire the registered network service monitoring log list.
System Name Click: It is to move to the *Detail Inquiry of the Network Service Monitoring Log* screen.

Detail Inquiry of the Network Service Monitoring Log

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/nsm/selectNtwrkSvcMntrngLog.do	selectNtwrkSvcMntrngLog	"NtwrkSvcMntrngDAO.selectNtwrkSvcMntrngLog"

It is to inquire the properties of the network service monitoring log.

네트워크서비스모니터링로그 상세보기

로그ID *	00000000000000000261
시스템IP *	192.168.100.56
시스템포트 *	23
시스템명 *	대외연계시스템 #2
모니터링상태 *	비정상
로그정보	Connection timed out: connect
생성일시 *	2010-09-30 15:46:20

[목록]

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