Send and receive log management

Summary

Send and receive log management provides the functions of searching, inquiring the log which is generated during the system connection.

Description

Send and receive log management accompanies the functions of **registration, inquiry, list, deletion,** and **summary** of the send and receive log.

① Send and Receive Log Registration: Register the Send and Receive Log Information.
② Send and Receive Log Inquiry: Inquire detailed contents of Send and Receive Log Information.
③ Send and Receive Log List: Search and inquire the list of Send and Receive Log Information.
④ Send and Receive Log Deletion: Delete the Send and Receive Log Information. - Using the scheduling function of execution environment
⑤ Send and Receive Log Summary: Generate the summary by summing up the Send and Receive Log Information. - Using the scheduling function of execution environment

Package Dependency

Send and receive log management package has direct functional dependency only for common (cmm) package of element technology. However, in order to be executed without error during the component distribution, the distribution file is constituted with send and receive monitoring, calendar package in accordance with the dependency between packages.
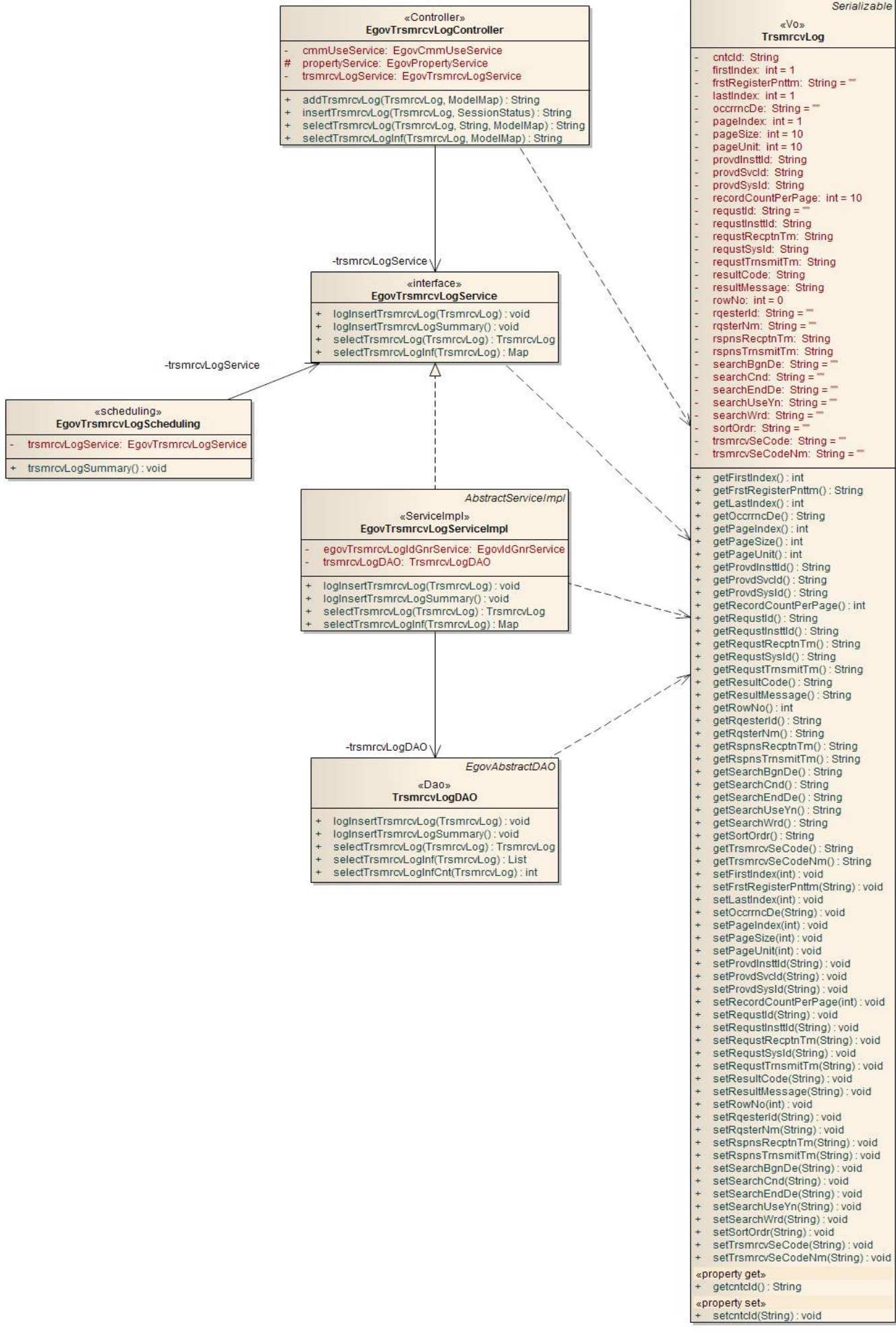
- Dependency between packages: System management Package Dependency

Related Source

Type	Name of Corresponded Source	Remarks
Controller	egovframework.com.sym.log.tlg.web.EgovTrsmrcvLogController.java	Controller class for send and receive log management
Service	egovframework.com.sym.log.tlg.service.EgovTrsmrcvLogService.java	Service interface for send and receive log management
ServiceImpl	egovframework.com.sym.log.tlg.service.impl.EgovTrsmrcvLogServiceImpl.java	Service implementation class for send and receive log management
Model	egovframework.com.sym.log.tlg.service.TrsmrcvLog.java	Class for send and receive log management
DAO	egovframework.com.sym.log.tlg.service.impl.TrsmrcvLogDAO.java	Data processing class for send and receive log management
Scheduler	egovframework.com.sym.log.tlg.service.EgovTrsmrcvLogScheduling.java	Scheduling class for send and receive log deletion, summary
JSP	/WEB-INF/jsp/egovframework/com/sym/log/tlg/EgovTrsmrcvLogList.jsp	jsp page for send

		and receive log list
JSP	/WEB-INF/jsp/egovframework/com/sym/log/tlg/EgovTrsmrcvLogInqire.jsp	jsp page for send and receive log inquiry
JSP	/WEB-INF/jsp/egovframework/com/sym/log/tlg/EgovTrsmrcvLogRegist.jsp	jsp page for send and receive log registration
QUERY XML	resources/egovframework/sqlmap/com/sym/log/tlg/EgovTrsmrcvLog_SQL_Mysql.xml	QUERY XML for send and receive log management MySQL
QUERY XML	resources/egovframework/sqlmap/com/sym/log/tlg/EgovTrsmrcvLog_SQL_Oracle.xml	QUERY XML for send and receive log management Oracle
QUERY XML	resources/egovframework/sqlmap/com/sym/log/tlg/EgovTrsmrcvLog_SQL_Tibero.xml	QUERY XML for send and receive log management Tibero
QUERY XML	resources/egovframework/sqlmap/com/sym/log/tlg/EgovTrsmrcvLog_SQL_Altibase.xml	QUERY XML for send and receive log management Altibase
Idgen XML	resources/egovframework/spring/context-idgen.xml	Send and receive log management Id generation Idgen XML

Class Diagram

class CDD_송/수신로그관리

«Controller»
EgovTrsmrcvLogController

- cmmUseService: EgovCmmUseService
- # propertyService: EgovPropertyService
- trsmrcvLogService: EgovTrsmrcvLogService

- + addTrsmrcvLog(TrsmrcvLog, ModelMap) : String
- + insertTrsmrcvLog(TrsmrcvLog, SessionStatus) : String
- + selectTrsmrcvLog(TrsmrcvLog, String, ModelMap) : String
- + selectTrsmrcvLogInf(TrsmrcvLog, ModelMap) : String

-trsmrcvLogService

«interface»
EgovTrsmrcvLogService

- + logInsertTrsmrcvLog(TrsmrcvLog) : void
- + logInsertTrsmrcvLogSummary() : void
- + selectTrsmrcvLog(TrsmrcvLog) : TrsmrcvLog
- + selectTrsmrcvLogInf(TrsmrcvLog) : Map

-trsmrcvLogService

«scheduling»
EgovTrsmrcvLogScheduling

- trsmrcvLogService: EgovTrsmrcvLogService

- + trsmrcvLogSummary() : void

AbstractServiceImpl

«ServiceImpl»
EgovTrsmrcvLogServiceImpl

- egovTrsmrcvLogIdGnrService: EgovIdGnrService
- trsmrcvLogDAO: TrsmrcvLogDAO

- + logInsertTrsmrcvLog(TrsmrcvLog) : void
- + logInsertTrsmrcvLogSummary() : void
- + selectTrsmrcvLog(TrsmrcvLog) : TrsmrcvLog
- + selectTrsmrcvLogInf(TrsmrcvLog) : Map

-trsmrcvLogDAO

EgovAbstractDAO

«Dao»
TrsmrcvLogDAO

- + logInsertTrsmrcvLog(TrsmrcvLog) : void
- + logInsertTrsmrcvLogSummary() : void
- + selectTrsmrcvLog(TrsmrcvLog) : TrsmrcvLog
- + selectTrsmrcvLogInf(TrsmrcvLog) : List
- + selectTrsmrcvLogInfCnt(TrsmrcvLog) : int

Serializable

«Vo»
TrsmrcvLog

- cntcId: String
- firstIndex: int = 1
- frstRegisterPnttm: String = ""
- lastIndex: int = 1
- occrrncDe: String = ""
- pageIndex: int = 1
- pageSize: int = 10
- pageUnit: int = 10
- provdInsttId: String
- provdSvcId: String
- provdSysId: String
- recordCountPerPage: int = 10
- requstId: String = ""
- requstInsttId: String
- requstRecptnTm: String
- requstSysId: String
- requstTrnsmitTm: String
- resultCode: String
- resultMessage: String
- rowNo: int = 0
- rqesterId: String = ""
- rqsterNm: String = ""
- rspnsRecptnTm: String
- rspnsTrnsmitTm: String
- searchBgnDe: String = ""
- searchCnd: String = ""
- searchEndDe: String = ""
- searchUseYn: String = ""
- searchWrd: String = ""
- sortOrdr: String = ""
- trsmrcvSeCode: String = ""
- trsmrcvSeCodeNm: String = ""

- + getFirstIndex() : int
- + getFrstRegisterPnttm() : String
- + getLastIndex() : int
- + getOccrrncDe() : String
- + getPageIndex() : int
- + getPageSize() : int
- + getPageUnit() : int
- + getProvdInsttId() : String
- + getProvdSvcId() : String
- + getProvdSysId() : String
- + getRecordCountPerPage() : int
- + getRequstId() : String
- + getRequstInsttId() : String
- + getRequstRecptnTm() : String
- + getRequstSysId() : String
- + getRequstTrnsmitTm() : String
- + getResultCode() : String
- + getResultMessage() : String
- + getRowNo() : int
- + getRqesterId() : String
- + getRqsterNm() : String
- + getRspnsRecptnTm() : String
- + getRspnsTrnsmitTm() : String
- + getSearchBgnDe() : String
- + getSearchCnd() : String
- + getSearchEndDe() : String
- + getSearchUseYn() : String
- + getSearchWrd() : String
- + getSortOrdr() : String
- + getTrsmrcvSeCode() : String
- + getTrsmrcvSeCodeNm() : String
- + setFirstIndex(int) : void
- + setFrstRegisterPnttm(String) : void
- + setLastIndex(int) : void
- + setOccrrncDe(String) : void
- + setPageIndex(int) : void
- + setPageSize(int) : void
- + setPageUnit(int) : void
- + setProvdInsttId(String) : void
- + setProvdSvcId(String) : void
- + setProvdSysId(String) : void
- + setRecordCountPerPage(int) : void
- + setRequstId(String) : void
- + setRequstInsttId(String) : void
- + setRequstRecptnTm(String) : void
- + setRequstSysId(String) : void
- + setRequstTrnsmitTm(String) : void
- + setResultCode(String) : void
- + setResultMessage(String) : void
- + setRowNo(int) : void
- + setRqesterId(String) : void
- + setRqsterNm(String) : void
- + setRspnsRecptnTm(String) : void
- + setRspnsTrnsmitTm(String) : void
- + setSearchBgnDe(String) : void
- + setSearchCnd(String) : void
- + setSearchEndDe(String) : void
- + setSearchUseYn(String) : void
- + setSearchWrd(String) : void
- + setSortOrdr(String) : void
- + setTrsmrcvSeCode(String) : void
- + setTrsmrcvSeCodeNm(String) : void

«property get»
- + getcntcId() : String

«property set»
- + setcntcId(String) : void

ID Generation

ID Generation related DDL & DML

- In order to utilize ID Generation Service, **TRSMRCVLOG_ID** item is added to COMTECOPSEQ which is the Sequence storage table.

```
CREATE TABLE COMTECOPSEQ ( table_name varchar(16) NOT NULL,
                  next_id DECIMAL(30) NOT NULL,
                  PRIMARY KEY (table_name));

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

ID Generation Environment Setup (context-idgen.xml)

```xml
<bean name="egovTrsmrcvLogIdGnrService"
  class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"
  destroy-method="destroy">
  <property name="dataSource" ref="dataSource" />
  <property name="strategy"    ref="trsmrcvLogStrategy" />
  <property name="blockSize"   value="1"/>
  <property name="table"       value="COMTECOPSEQ"/>
  <property name="tableName"   value="TRSMRCVLOG_ID"/>
</bean>

<bean name="trsmrcvLogStrategy"
  class="egovframework.rte.fdl.idgnr.impl.strategy.EgovIdGnrStrategyImpl">
  <property name="prefix" value="TRSMRCV_" />
  <property name="cipers" value="12" />
  <property name="fillChar" value="0" />
</bean>
```

Related Table

Name of table	Name of table (English)	Remarks
Send and Receive Log	COMTNTRSMRCVLOG	Manage the Send and Receive Log information.
Send and Receive Log Summary	COMTSTRSMRCVLOGSUMMARY	Manage the Send and Receive Log Summary information.

Scheduling

context-scheduling-sym-log-tlg.xml
(src/main/resources/egovframework/spring/com/context-scheduling-sym-log-tlg.xml)

```xml
<!-- Send and Receive Log Summary -->
<bean id="trsmrcvLogging"
  class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
  <property name="targetObject" ref="egovLogManageScheduling" />
  <property name="targetMethod" value="trsmrcvLogSummary" />
  <property name="concurrent" value="false" />
</bean>

<!-- Send and Receive Log Summary Trigger-->
<bean id="trsmrcvLogTrigger"
  class="org.springframework.scheduling.quartz.SimpleTriggerBean">
  <property name="jobDetail" ref="trsmrcvLogging" />
  <!-- Execute after 1 minute of the starting. (milisecond) -->
  <property name="startDelay" value="60000" />
```

```xml
    <!-- Execute every 1 hour. (milisecond) -->
    <property name="repeatInterval" value="3600000" />
  </bean>

  <!-- Scheduler registration -->
  <bean id="logSummaryScheduler"
class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
    <property name="triggers">
      <list>
        <ref bean="sysLogTrigger" />
        <ref bean="webLogTrigger" />
        <ref bean="trsmrcvLogTrigger" />
        <ref bean="userLogTrigger" />
      </list>
    </property>
  </bean>
```

Set up the [Scheduling](#) to implement Send and Receive Log deletion, summary functions.

- Create EgovTrsmrcvLogScheduling class to implement Send and Receive Log deletion, summary functions.

```java
@Service("egovTrsmrcvLogScheduling")
public class EgovTrsmrcvLogScheduling {

        @Resource(name="EgovTrsmrcvLogService")
        private EgovTrsmrcvLogService trsmrcvLogService;

        /**
         * Summarize Send and Receive Log information.
         * Summarize and input the log of previous day, and delete the log of 1 week ago.
         *
         * @param
         * @return
         * @throws Exception
         */
        public void trsmrcvLogSummary() throws Exception {
                trsmrcvLogService.logInsertTrsmrcvLogSummary();
        }

}
```

Related Functions

Send and receive log management is divided into the **send and receive log list inquiry, send and receive log detailed inquiry,** and **send and receive log registration** functions.

Send and Receive Log List Inquiry

Business Rule

Send and receive log list is inquired with the unit of 10 cases per page, and paging is realized with the unit of 10 pages. Search condition is performed for the generation date and send and receive division.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
List inquiry	/sym/log/tlg/SelectTrsmrcvLogList.do	selectTrsmrcvLogInf	"TrsmrcvLogDAO.selectTrsmrcvLogInf",
			"TrsmrcvLogDAO.selectTrsmrcvLogInfCnt"

In order to perform send and receive log detailed inquiry function, click the **Detail View** button.

In order to perform send and receive log registration function, click the **Send and Receive Test** button.

Send and Receive Log Detailed Inquiry

Business Rule

Send and Receive Log Detailed Inquiry is comprised of pop-up windows, and when the **Close** button is clicked, the window is closed.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Detailed Inquiry	/sym/log/tlg/InqireTrsmrcvLog.do	selectTrsmrcvLog	"TrsmrcvLogDAO.selectTrsmrcvLog"

Send and Receive Log Registration

Business Rule

For send and receive log registration, test data are registered by differing send and receive division values with the fixed test value.

Related Codes

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Registration	/sym/log/tlg/InsertTrsmrcvLog.do	insertTrsmrcvLog	"TrsmrcvLogDAO.logInsertTrsmrcvLog"

Send and receive log registration is the function for test, and when applying to actual project, the registration function shall be made to suit to the connection standard of corresponding project.

When the **Transmission Request** button is clicked, **Send and Receive Division**: Perform the test for "Transmission Request".

When the **Transmission Completion** button is clicked, **Send and Receive Division**: Performs the test for "Transmission Completion".

When the **Transmission Failure** button is clicked, **Send and Receive Division**: Performs the test for "Transmission Failure".

When the **Receive Request** button is clicked, **Send and Receive Division**: Performs the test for "Receive Request".

When the **Receive Completion** button is clicked, **Send and Receive Division**: Performs the test for "Receive Completion".

When the **Receive Failure** button is clicked, **Send and Receive Division**: Performs the test for "Receive Failure".

When the **List** button is clicked, it is moved to Send and Receive Log List Inquiry page.

References

- Refer to execution environment: Scheduling
- Refer to execution environment: ID Generation