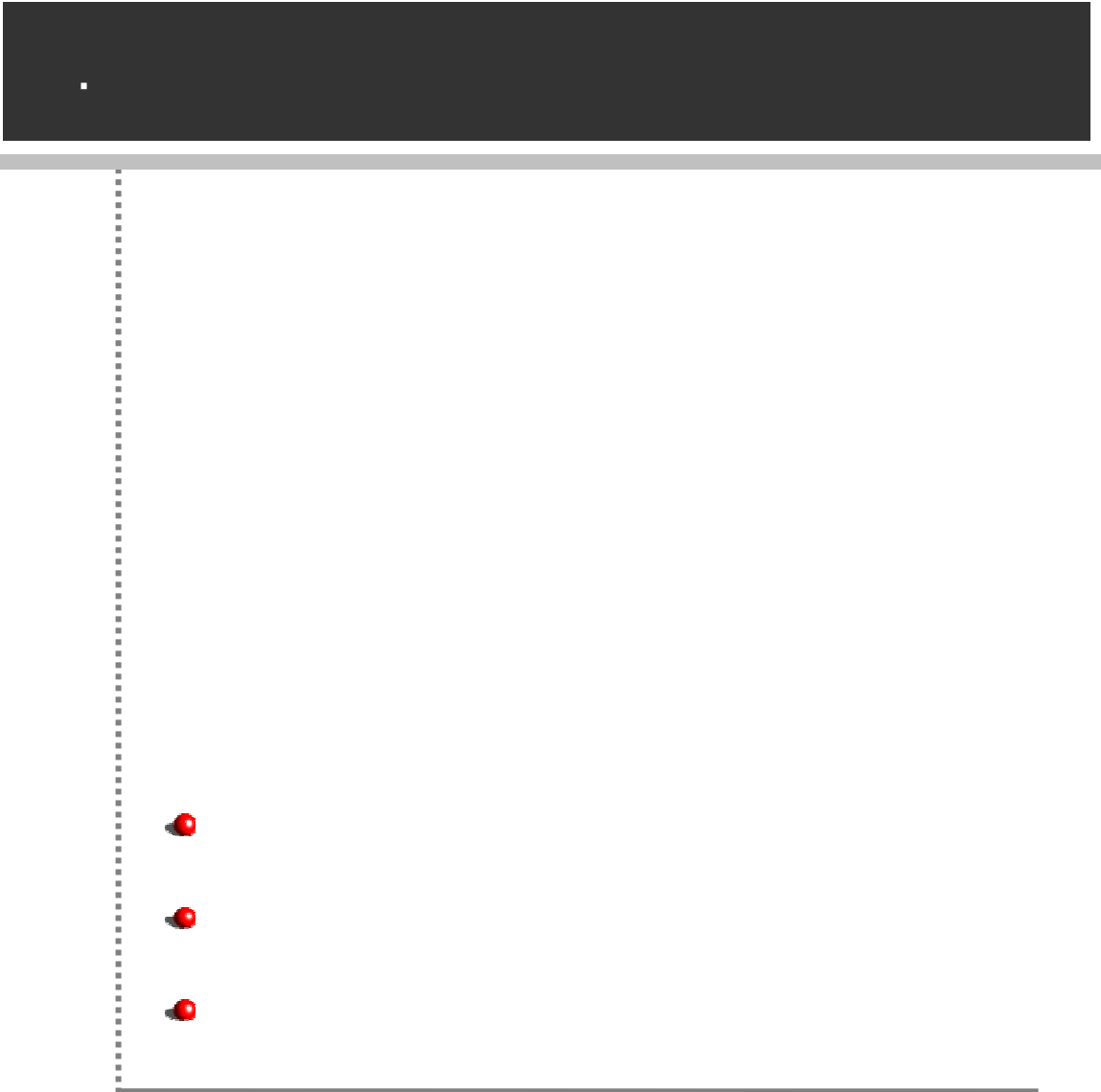
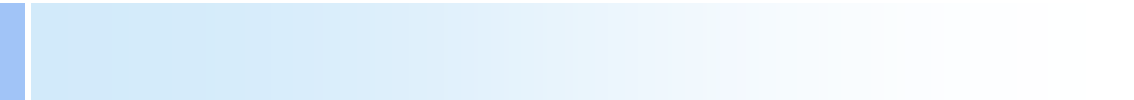
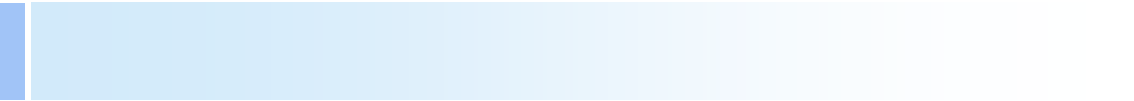


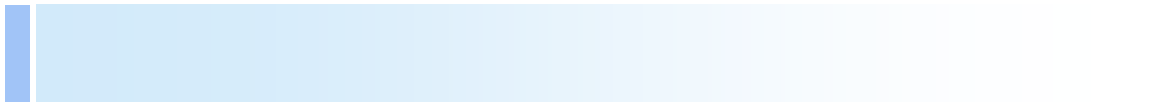
•	3
.....	4
.....	4
.....	5
•	7
.....	8
.....	8
.....	11
•	13
.....	14
.....	15
.....	24
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cachemngr.properties	44
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databind.properties	51
datasource.properties	53
db.properties	59
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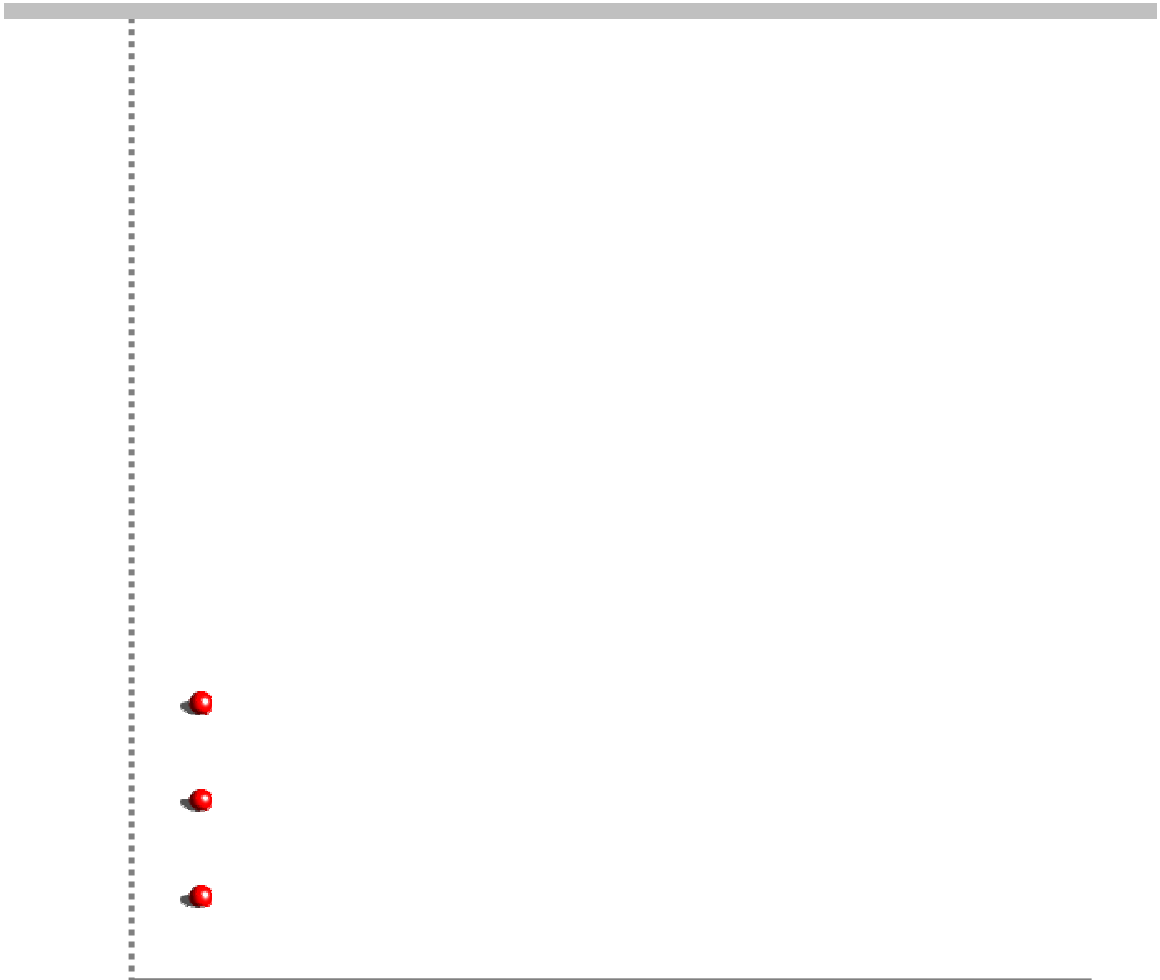
Shell Command

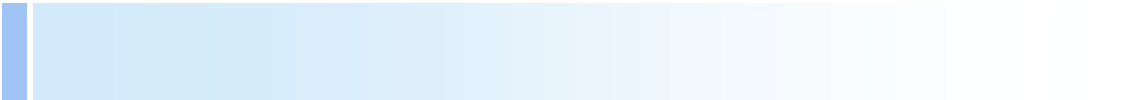
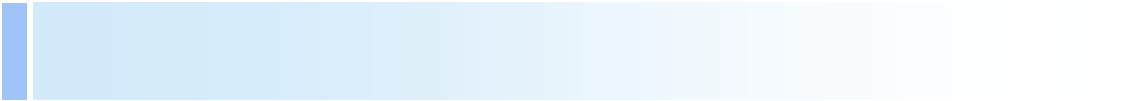
Shell Command



가

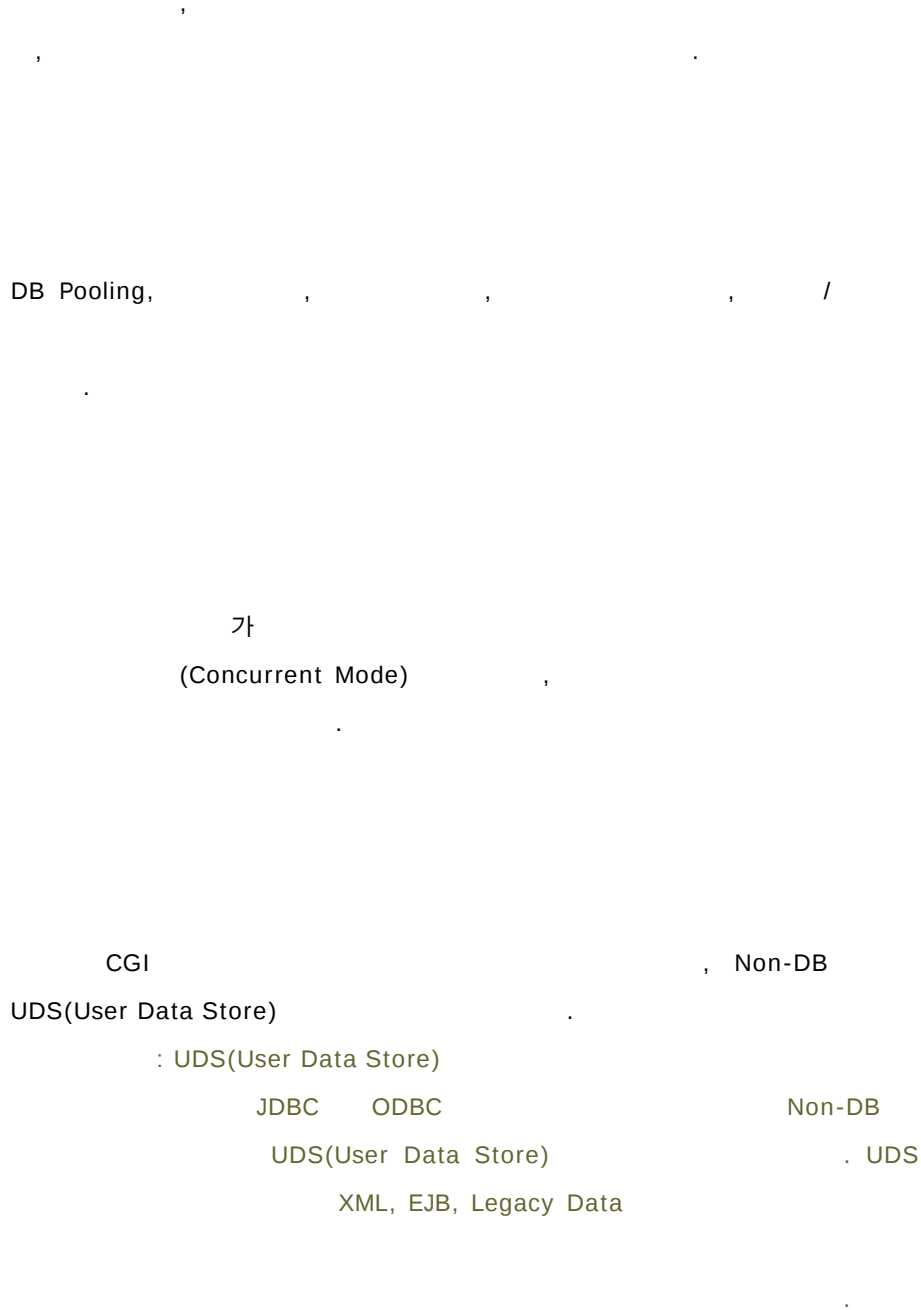
Manual	Description
Getting Started	
가	
가	
Getting Started	
가	
가	
가	
WAS 가	
API	API, UDS, USL, API API

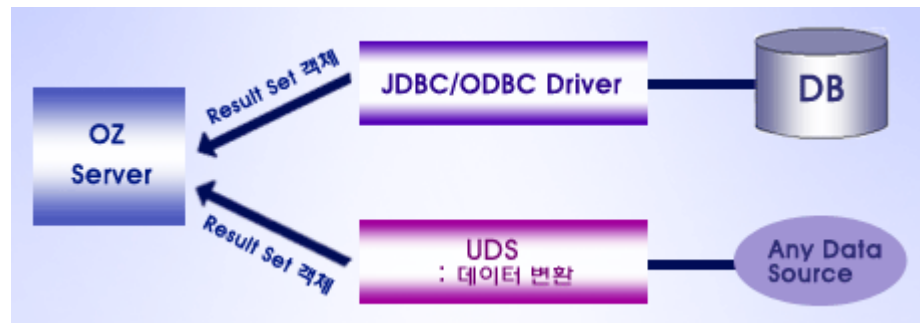




- JAVA/XML
- JDBC/ODBC 가
- JVM (Java Virtual Machine)
- WAS

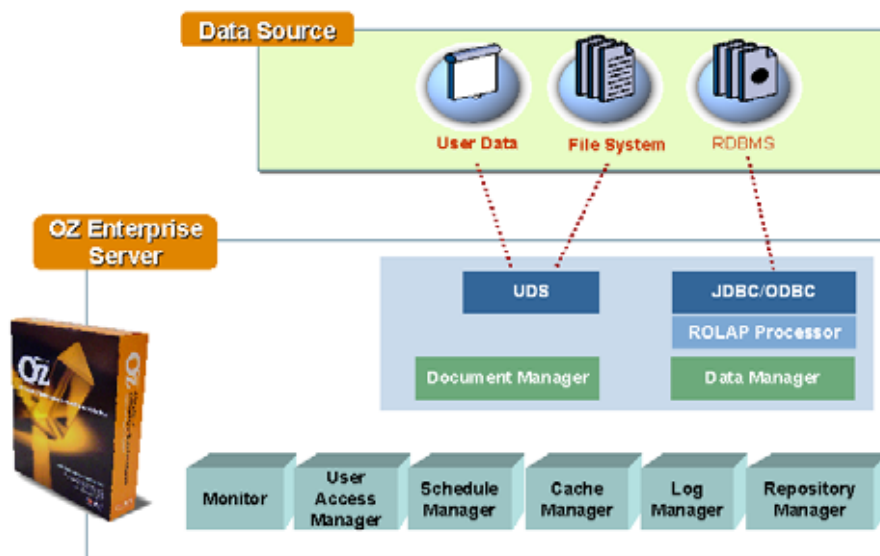
- one-point
-
-



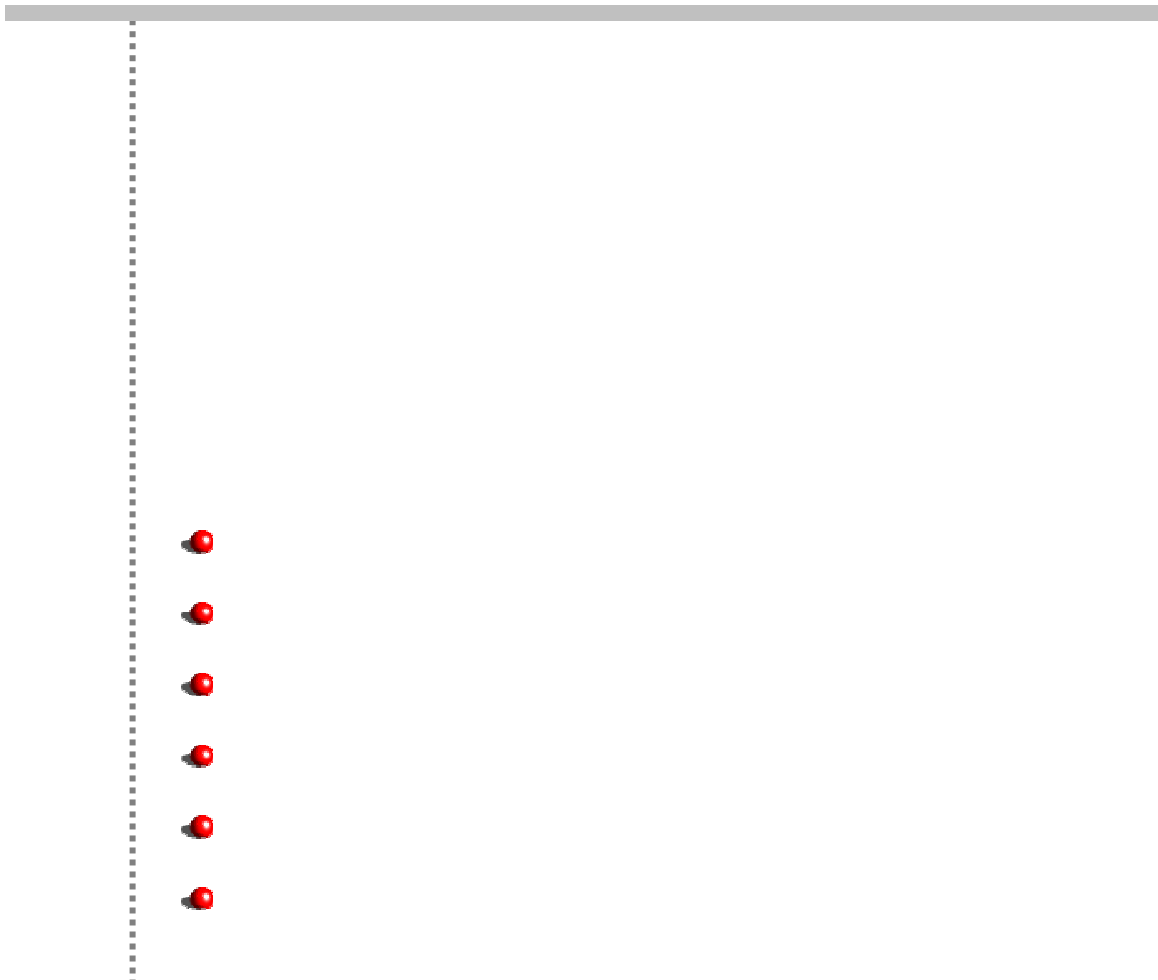


가

가



UDS	UDS Non-database Source
JDBC/ODBC	JDBC/ODBC
Document Manager	
Data Manager	
Monitor	
User Access Manager	/
Schedule Manager	가
Cache Manager	
Log Manager	Unix Syslog , NT Event
Repository Manager	



JRE(Java Runtime Environment) 1.3.X

(Windows NT/2000, Linux, HP-UX, Solaris, AIX, Unixware, Mainframe)

Web Server

Web Server

(Microsoft IIS(Internet Information Server), Apache, NCSE, CERN, Netscape Enterprise Server)

Web Application Server

(WebLogic, WebSphere, Oracle iAS(Internet Application Server), Fujitsu Interstage, NEC WebOTX J2EE WAS)

DBMS

Oracle, Informix, Sybase, MS-SQL Server, DB2 ODBC/JDBC

DBMS

() ozlicense.xml
 , License .
 , 가 .
 가 .

ozcntrl.bat / ozcntrl.sh

ozcntrl.bat/ozcntrl.sh JRE
 . Windows JVM
 , UNIX ozcntrl.sh JRE Path .
 :
 "MAX_MEMORY/MIN_MEMORY" JVM /
 , JAVA_OPTION
 . JAVA_OPTION .

■ ozcntrl.bat

```
@echo off
rem -----
rem
rem      OZ Contorl(OZA SHELL)
rem
rem
rem This script file written and tested under Windows 2000
rem
rem User should set following variables:
rem
rem JAVA_HOME      - Determines the version of Java used to start
rem                  OZ Server. This variable must point to the
```

```
rem          root directory of a JDK or JRE installation.
rem          for an up-to-date list of supported JVMs your platform.
rem  USER_CLASSPATH - Use this variable to append jar files or directories to
rem                  the OZLIB.
rem  MAX_MEMORY      - Maximum memory used by OZ Server. (The unit is mega-byte.)
rem  MIN_MEMORY      - Minimum memory used by OZ Server. (The unit is mega-byte.)
rem
rem  -----
rem
rem  -----
rem    Set user-defined variables
rem  -----

set  JAVA_HOME=...\JRE
set  MAX_MEMORY=256
set  MIN_MEMORY=128
set  JAVA_OPTION=

set  OZSERVER_HOME=.
set  USER_CLASSPATH=%OZSERVER_HOME%\uds\
set  OZLIBALL=%OZSERVER_HOME%\lib
set  OZJLIBALL=%OZSERVER_HOME%\UniversalDriver

rem  -----
rem    OZ Main Class
rem  -----
set  OZLIB=%OZLIBALL%\ozsfw50.jar;%OZSERVER_HOME%\conf\
set  OZLIB=%OZLIB%;%OZLIBALL%\ozusl.jar

rem  -----
rem    for Servlet
rem  -----
set  OZLIB=%OZLIB%;%OZLIBALL%\servlet.jar

rem  -----
rem    HTTPS/SSL Module
rem  -----
set  OZLIB=%OZLIB%;%OZLIBALL%\jcert.jar
set  OZLIB=%OZLIB%;%OZLIBALL%\jnet.jar
set  OZLIB=%OZLIB%;%OZLIBALL%\jsse.jar

rem  -----
rem    Library for Logging
rem  -----
```

```
set OZLIB=%OZLIB%;%OZLIBALL%\log4j.jar

rem -----
rem      Library for XML
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\xalan.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xercesImpl.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xml-apis.jar
set OZLIB=%OZLIB%;%OZLIBALL%\parser.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xerces.jar
set OZLIB=%OZLIB%;%OZLIBALL%\dom4j-1.6.1.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jaxen-1.1.6.jar
set OZLIB=%OZLIB%;%OZLIBALL%\crimson.jar
set OZLIB=%OZLIB%;%OZLIBALL%\stax-1.2.0.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jsr173_api.jar

rem -----
rem      Library for XML Store
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\dtdparser12.jar

rem -----
rem      Repository File Sysgtem DB
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\hsqldb.jar

rem -----
rem      USL Jar for USL
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\OZUSLServerSession.jar
set OZLIB=%OZLIB%;%OZLIBALL%\OZUSLServerDES128.jar

rem -----
rem      JDBC Driver for Oracle
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\classes12.zip

rem -----
rem      JDBC Driver for Mysql (3.0.14)
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\mysql5.1.5.jar

rem If your version of oracle is 7 and
rem its character set is DBCS,
```

```
rem then delete 'rem' of next line
rem set OZLIB=%OZLIB%;%OZLIBALL%\ijava.jar

rem -----
rem     JDBC Driver for Informix
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\ifxjdbc.jar

rem -----
rem     JDBC Driver for Syabase
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\jconn2.jar

rem -----
rem     JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%;%OZLIBALL%\jkjdbc2.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\msbase.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\msutil.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\mssqlserver.jar

rem -----
rem     JDBC Driver for IBM DB2
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\db2java.zip
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc_license_cisuz.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc_license_cu.jar

rem -----
rem     JDBC Driver for Uni-SQL
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\unisqljdbc10.jar

rem -----
rem     USER_CLASSPATH
rem -----
set OZLIB=%OZLIB%;%USER_CLASSPATH%

rem -----
rem     Webservice added
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\activation.jar
set OZLIB=%OZLIB%;%OZLIBALL%\mail.jar
```

```
set OZLIB=%OZLIB%;%OZLIBALL%\soap2_3_1.jar

rem -----
rem      NT Service Class
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\OZServiceBootstrap.jar

rem -----
rem      User Defined Log Class
rem -----
rem OZLIB=%OZLIB%;%OZLIBALL%\ozudl.jar

set JAVA_OPTION=

if not "%1" == "-start" goto notStart
set JAVA_OPTION= %JAVA_OPTION% -Xms%MIN_MEMORY%m -Xmx%MAX_MEMORY%m
:notStart

%JAVA_HOME%\bin\java %JAVA_OPTION% -cp %OZLIB%
oz.admin.shell.server.OZAShell %1 %2 %3 %4 %5 %6 %7 %8 %9
```

■ ozcntrl.sh

```
#!/bin/sh
#-----
#
#      OZ Contorl.
#
# This script file written and tested under HP-UX
#
# User should set following variables:
#
# JAVA_HOME      - Determines the version of Java used to start
#                  OZ Server. This variable must point to the
#                  root directory of a JDK or JRE installation.
#                  for an up-to-date list of supported JVMs your platform.
# USER_CLASSPATH - Use this variable to append jar files or directories to
#                  the OZLIB.
# MAX_MEMORY     - Maximum memory used by OZ Server. (The unit is mega-byte.)
# MIN_MEMORY     - Minimum memory used by OZ Server. (The unit is mega-byte.)
# JAVA_OPTIONS   - On some platforms, certain java command-line options are
#                  recomanded when running OZ Server.
#
#-----
```

```
# -----
#   Set user-defined variables
#   -----

JAVA_HOME=../../jre
USER_CLASSPATH=
MAX_MEMORY=256
MIN_MEMORY=128
JAVA_OPTION=-hotspot

OZSERVER_HOME=.
OZLIB=.:$OZSERVER_HOME/conf
OZLIB=$OZLIB:$OZSERVER_HOME/lib/ozsfw50.jar

# -----
#       for User Data Set classes
#   -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/ozus1.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/hsqldb.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/servlet.jar

# -----
#       for User Data Set classes
#   -----
OZLIB=$OZLIB:$OZSERVER_HOME/uds

# -----
#       Library for Logging
#   -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/log4j.jar

# -----
#       Library for XML
#   -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/xalan.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/xercesImpl.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/xml-apis.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/parser.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/xerces.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/dom4j-1.6.1.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/jaxen-1.1.6.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/crimson.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/stax-1.2.0.jar
```

```
OZLIB=$OZLIB:$OZSERVER_HOME/lib/jsr173_api.jar

# -----
#     USL Jar for USL
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/OZUSLServerSession.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/OZUSLServerDES128.jar

# -----
#     JDBC Driver for MSSQL
# -----
#OZLIB=$OZLIB:$OZSERVER_HOME/lib/jkjdbc.jar
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/msbase.jar
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/msutil.jar
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/mssqlserver.jar

# -----
#     JDBC Driver for Oracle
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/classes12.zip

# If your version of oracle is 7 and
# its character set is KOREAN(KSC5601),
# then delete '#' of next line
# OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/ijava.jar

# -----
#     JDBC Driver for Informix
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/ifxjdbc.jar

# -----
#     JDBC Driver for Syabse
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/jconn2.jar

# -----
#     JDBC Driver for IBM DB2
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/db2java.zip

# -----
#     JDBC Driver for Uni-SQL
# -----
```

```

OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/unisqljdbc10.jar

# -----
#      HTTPS/SSL Module
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/jcert.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/jnet.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/jsse.jar

# -----
#      User Defined Log Class
# -----
# OZLIB=%OZLIB%;%OZLIBALL%\ozudl.jar

# -----
#      Webservice added
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/activation.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/mail.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/soap2_3_1.jar

# -----
#      USER CLASSPAATH
# -----
if [ "$USER_CLASSPATH" != "" ]; then
    OZLIB=$OZLIB:$USER_CLASSPATH
fi

if [ "$1" != "-start" ]; then
    JAVA_OPTION=
else
    JAVA_OPTION="$JAVA_OPTION -ms$MIN_MEMORY"m
    JAVA_OPTION="$JAVA_OPTION -mx$MAX_MEMORY"m
fi

echo ""
echo $OZLIB
echo ""

$JAVA_HOME/bin/java $JAVA_OPTION -classpath $OZLIB
oz.admin.shell.server.OZAShell $1 $2 $3 $4 $5 $6 $7 $8 $9

```

ozcntrl

가

가

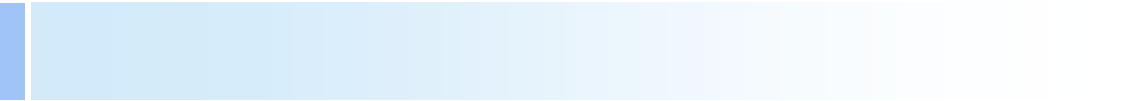
"

" .

ozcntrl.bat/ozcntrl.sh 가

. ozcntrl.bat/ozcntrl.sh "

Shell Command" .



가 JRE SUN JRE 1.3.1

bin	chk_version.bat	(.bat) (.sh)
	chk_version.sh	
	OZServerInstallService.bat	NT
	ozcntrl.bat	(.bat) (.sh)
	ozcntrl.sh	
	ozencrypted.bat	ID
	OZServiceSV.exe	
	ozstart.bat	(.bat) (.sh)
	ozstart.sh	
	ozstop.bat	(.bat) (.sh)
	ozstop.sh	
	server.ico	
	OZServerUninstallService.bat	NT
	user.cif	None ()
cache	가	

cache_dm		
conf	cachemngr.properties	
	databind.properties	
	datasource.properties	
	db.properties	DB
	dbconfig.xml	DBMS JDBC
	dbconfig.xsd	
	log.properties	
	monitor.properties	Monitor
	ozserver.properties	
	repository.properties	
	sap.properties	SAP
	spmgr.properties	
	srnmgr.properties	
	uslmngr.properties	(, PKI)
	ozudl.properties	
	xml.properties	XML
conf/ sample	db.properties.datasource	db.properties DBMS
	db.properties.db2	
	db.properties.informix	
	db.properties.mssql	
	db.properties.odbc	
	db.properties.oracle	
	db.properties.sybase	
	db.properties.unisql	
	db.properties.user	
	repository.properties.odbc	repository.properties DBMS
	repository.properties.oracle	
expand	OZMBAServer.dll	ASP
lib	crimson.jar	XML
	dtdparser120.jar	XML

	hsqldb.jar	Builtin
	jazzlib.jar	
	jcrt.jar	J2EE (HTTP/SSL) JRE 1.3.X
	jnet.jar	
	jsse.jar	
	js.jar	Java Script
	log4j.jar	
	NTEventLogAppender.dll	Windows NT DLL
	ozsfw50.jar	
	OZUSLServerDES128.jar	USL
	OZUSLServerSession.jar	
	servlet.jar	USL J2EE
	parser.jar	XML
	xerces.jar	
	dom4j-1.6.1.jar	
	jaxen-1.1.6.jar	
	xalan.jar	XML XPath
	xercesImpl.jar	
	xml-apis.jar	
	sjsxp.jar	HTTP XML
	jsr173_api.jar	
	UDSTestPackage.jar	UDS
	OZServiceBootstrap.jar	NT
	soap2_3_1.jar	SOAP
license	ozlicense.xml	
logs	monitor.log	Monitor
	server.log	
repository_files		
	db_file.data	Builtin
	db_file.properties	

	db_file.script	
	query.log	Builtin
scheduled_data		
UniversalDriver	classes12.jar	Oracle 8i, 9i JDBC Driver
	classes12.zip	
	db2java.jar	IBM DB2 JDBC Driver
	db2java.zip	
	db2jcc.jar	IBM DB2 JDBC Type 8 (DB2 8)
	db2jcc_license_cisuz.jar	
	db2jcc_license_cu.jar	
	ifxjdbc.jar	Infomix JDBC Driver
	ijava.jar	Oracle 7i JDBC Driver
	jconn2.jar	Sybase ASE JDBC Driver
	jkjdbc.jar	MSSQL 97 JDBC
	jt400.jar	IBM JT400 JDBC
	msbase.jar	MSSQL 2000 JDBC
	mssqlserver.jar	
	msutil.jar	
	sqljdbc.jar	MSSQL 2005 JDBC
	mysql5.1.5.jar	Mysql JDBC
	unisqljdbc10.jar	UniSQL JDBC
	unsqljdbc205.zip	

: JDBC

"UniversalDriver"

JDBC , RDB JDBC

RDB

JDBC

bin	chk_version.bat	(.bat) (.sh)
	chk_version.sh	
	ozcntrl.bat	(.bat) (.sh)
	ozcntrl.sh	
	ozencrypted.bat	ID
	user.cif	None ()
cache	가	
cache_dm		
conf	cachemngr.properties	
	databind.properties	
	datasource.properties	
	db.properties	DB
	dbconfig.xml	DBMS JDBC
	dbconfig.xsd	
	log.properties	
	monitor.properties	Monitor
	ozservice.properties	
	repository.properties	
	sap.properties	SAP
	spmgr.properties	
	srmngr.properties	
	ozudl.properties	
	uslmngr.properties	(, PKI)
	xml.properties	XML
conf/	db.properties.datasource	db.properties DBMS

sample	db.properties.db2	
	db.properties.informix	
	db.properties.mssql	
	db.properties.odbc	
	db.properties.oracle	
	db.properties.sybase	
	db.properties.unisql	
	db.properties.user	
	repository.properties.odbc	repository.properties DBMS
	repository.properties.oracle	
license	ozlicense.xml	
logs	monitor.log	Monitor
	server.log	
repository_files		
	db_file.data	Builtin
	db_file.properties	
	db_file.script	
	query.log	Builtin
SilverStream	servlet.java	SilverStream (WAS)
	servlet.xml	
UniversalDriver	classes12.jar	Oracle 8i, 9i JDBC Driver
	classes12.zip	
	db2java.jar	IBM DB2 JDBC Driver
	db2java.zip	
	db2jcc.jar	IBM DB2 JDBC Type 8 (DB2 8)
	db2jcc_license_cisuz.jar	
	db2jcc_license_cu.jar	
	ifxjdbc.jar	Infomix JDBC Driver
	ijava.jar	Oracle 7i JDBC Driver
	jconn2.jar	Sybase ASE JDBC Driver
	jkjdbc.jar	MSSQL 97 JDBC
	jt400.jar	IBM JT400 JDBC

	msbase.jar	MSSQL 2000 JDBC
	mssqlserver.jar	
	msutil.jar	
	sqljdbc.jar	MSSQL 2005 JDBC
	mysql5.1.5.jar	Mysql JDBC
	unisqljdbc10.jar	UniSQL JDBC
	unsqljdbc205.zip	
WEB-INF	web.xml	URL
WEB_INF/ classes	HelloWorld.class	
	ozserver.properties	
WEB_INF/ lib	crimson.jar	XML
	dtdparser120.jar	XML
	hsqldb.jar	Builtin
	jazzlib.jar	
	jcrt.jar	J2EE (HTTP/SSL) JRE 1.3.X
	jnet.jar	
	jsse.jar	
	js.jar	Java Script
	log4j.jar	
	NTEventLogAppender.dll	Windows NT DLL
	ozsfw50.jar	
	OZUSLServerDES128.jar	USL
	OZUSLServerSession.jar	
	servlet.jar	USL J2EE
	parser.jar	XML
	xerces.jar	
	dom4j-1.6.1.jar	
	jaxen-1.1.6.jar	
	xalan.jar	XML XPath

	xercesImpl.jar	
	xml-apis.jar	
	sjsxp.jar	HTTP XML
	jsr173_api.jar	
	soap2_3_1.jar	
	mail.jar	
	activation.jar	
	UDSTestPackage.jar	UDS

: JDBC

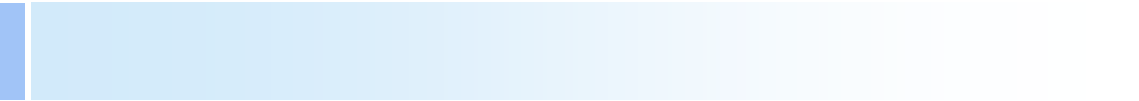
"UniversalDriver"

JDBC , RDB JDBC

. RDB

JDBC

.



		bin	
ozstart.bat	,	ozstop.bat	.
UNIX		bin	
ozstart.sh	,	ozstop.sh	.

ozstart.bat / ozstart.sh

ozstart.bat	ozstart.sh	UNIX
.	ozcntrl.bat ozcntrl.sh	.

■ ozstart.bat

```
@echo off
rem -----
rem          OZ Server Start-up File
rem
rem This batch file written and tested under Windows 2000
rem check your path indicate <JAVA_HOME>\bin
rem -----

ozcntrl.bat -start %1
```

■ ozstart.sh

```
# -----
#          OZ Server Start-up File
#
# This batch file written and tested under UNIX(HP-UX) System
# check your path indicate <JAVA_HOME>/bin
# -----

./ozcntrl.sh -start
```

: 64

가

■ - JAVA

CLASSPATH가

```
NT {
    }\bin\OZServerInstallService.bat
{    }\bin\OZServerUninstallService.bat
```

■ OZServerInstallService.bat

```
@echo off

rem -----
rem OZServer Service Install Register Batch File
rem -----

rem -----
rem      JRE PATH
rem
rem      ex)      set      JRE_PATH=C:\Program      Files\ForcS\OZ
XStudio\jre1.4.2\bin\client\jvm.dll
rem -----
set JRE_PATH=

rem -----
rem      OZ Server Home
```

```
rem
rem      ex)      set      OZSCHEDULER_HOME_BIN=C:\Program      Files\Forcs\OZ
XStudio\OZServer 5.0\bin
rem -----

set OZSERVER_HOME=..
set OZSERVER_HOME_BIN=

rem JAVA option delemters are # or ;
set JAVA_OPTION=

set MAX_MEMORY=256
set MIN_MEMORY=128

if not "%OZSERVER_HOME%" == "" goto start
echo Unable to determine the value of OZSERVER_HOME.
goto eof

if not "%OZSERVER_HOME_BIN%" == "" goto start
echo Unable to determine the absolute path value of OZSERVER_HOME_BIN.
goto eof

if not "%JRE_PATH%" == "" goto start
echo Unable to determine the absolute path value of JRE_PATH
goto eof

:start

set USER_CLASSPATH=%OZSERVER_HOME%\uds\
set OZLIBALL=%OZSERVER_HOME%\lib
set OZJLIBALL=%OZSERVER_HOME%\UniversalDriver

rem -----
rem      OZ Main Class
rem -----
set OZLIB=%OZLIBALL%\ozsfw50.jar;%OZSERVER_HOME%\conf\
set OZLIB=%OZLIB%;%OZLIBALL%\ozus1.jar

rem -----
rem      OZ Service BootStrap
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\OZServiceBootstrap.jar

rem -----
```

```
rem      for Servlet
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\servlet.jar

rem -----
rem      HTTPS/SSL Module
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\jcert.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jnet.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jsse.jar

rem -----
rem      Library for Logging, ZIP
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\log4j.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jazzlib.jar

rem -----
rem      Library for XML
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\xalan.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xercesImpl.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xml-apis.jar
set OZLIB=%OZLIB%;%OZLIBALL%\parser.jar
set OZLIB=%OZLIB%;%OZLIBALL%\xerces.jar
set OZLIB=%OZLIB%;%OZLIBALL%\crimson.jar
set OZLIB=%OZLIB%;%OZLIBALL%\sjsxp.jar
set OZLIB=%OZLIB%;%OZLIBALL%\jsr173_api.jar

rem -----
rem      Library for JavaScript
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\js.jar

rem -----
rem      Library for XML Store
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\dtdparser12.jar

rem -----
rem      Repository File Sysgtem DB
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\hsqldb.jar
```

```
rem -----
rem      USL Jar for USL
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\OZUSLServerSession.jar
set OZLIB=%OZLIB%;%OZLIBALL%\OZUSLServerDES128.jar

rem -----
rem      JDBC Driver for Oracle
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\classes12.zip

rem -----
rem      JDBC Driver for Mysql (3.0.14)
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\mysql5.1.5.jar

rem If your version of oracle is 7 and
rem its character set is DBCS,
rem then delete 'rem' of next line
rem set OZLIB=%OZLIB%;%OZLIBALL%\ijava.jar

rem -----
rem      JDBC Driver for Informix
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\ifxjdbc.jar

rem -----
rem      JDBC Driver for Syabase
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\jconn2.jar

rem -----
rem      JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%;%OZLIBALL%\jkjdbc2.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\msbase.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\msutil.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\mssqlserver.jar

rem -----
rem      JDBC Driver for IBM DB2
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\db2java.zip
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc.jar
```

```

set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc_license_cisuz.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc_license_cu.jar

rem -----
rem      JDBC Driver for Uni-SQL
rem -----
set OZLIB=%OZLIB%;%OZJLIBALL%\unisqljdbc10.jar

rem -----
rem      USER_CLASSPATH
rem -----
set OZLIB=%OZLIB%;%USER_CLASSPATH%

rem -----
rem      Webservice added
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%\activation.jar
set OZLIB=%OZLIB%;%OZLIBALL%\mail.jar
set OZLIB=%OZLIB%;%OZLIBALL%\soap2_3_1.jar

rem -----
rem      NT
rem -----
rem %1 -      (A-Z      0-9      (,),
rem      (.)      )
rem-----

rem OZServiceSV.exe //DS//%1 --OptionName="OptionValue"
OZServiceSV.exe      //IS//%1      --DisplayName="OZServer"      --
Description="OZServer"      --StartPath="%OZSERVER_HOME_BIN%"      --
StopPath="%OZSERVER_HOME_BIN%"  --Classpath="%OZLIB%"  --Jvm="%JRE_PATH%"
--JavaOptions="%JAVA_OPTION%"      --JvmMs="%MIN_MEMORY%"      --
JvmMx="%MAX_MEMORY%"      --StartMode=jvm      --StopMode=jvm      --
StartClass=oz.server.OZServiceBootstrap --StartParams=OZServerStart --
StopClass=oz.server.OZServiceBootstrap  --StopParams=OZServerStop  --
LogPath="%OZSERVER_HOME_BIN%" --LogLevel=DEBUG

:eof

```

--Description	가	(1024 .)

--DisplayName	가	(: ServiceName) :	
--Startup	가		
		Manual	. ()
		Auto	.
--Jvm		가 "jvm.dll" :) --Jvm="C:\j2sdk1.4.2_12\jre\bin\client\jvm.dll"	
--JvmOptions	가	Jvm	(: -Xrs)
--Classpath			
--JvmMs	가	Initial Memory (: MB)	
--JvmMx	가	(: MB)	
--JvmSs	가	(: KB)	
--StartPath		: .) --StartPath="C:/OZServer 5.0/bin"	
--StartClass			
		oz.server.OZService Bootstrap	
--StartParams			
		OZServerStart	) --StartParams= OZServerStart
--StartMode			
		jvm	Jvm
--StopPath		: .) --StopPath="C:/OZServer 5.0/bin"	
--StopClass			

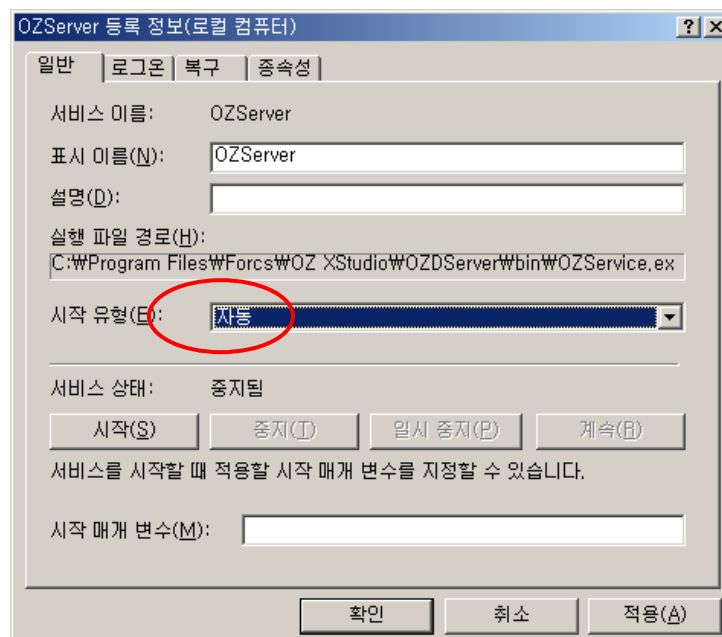
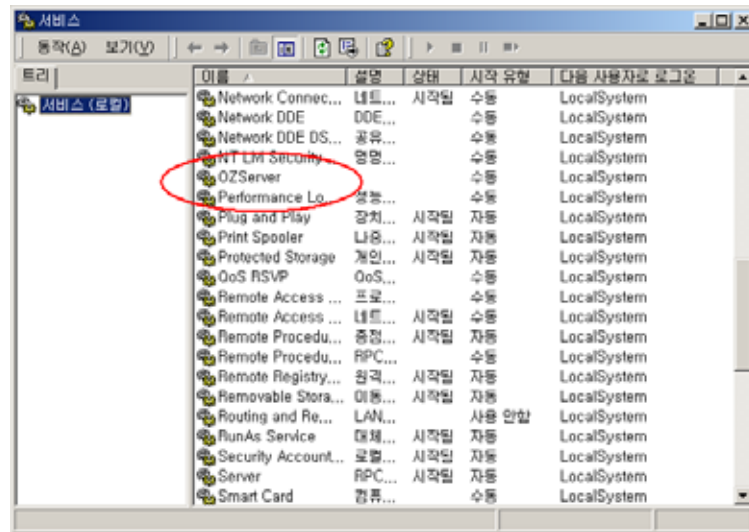
		OZServerStop	) --StopParams=OZServerStop
--StopParams			
		OZServerStop	) --StopParams=OZServerStop
--LogPath	가	: .) --LogPath="C:/OZServer 5.0/bin"	
--LogPrefix	가	(: OZService)) 가 "OZ" "OZ_yyyyMMdd.log"	
--LogLevel	가		
		ERROR	log level , log
		WARN	"ERROR" level log log
		INFO	"ERROR" level log log ()
		DEBUG	"ERROR", "INFO" level log log
--StdOutput	가	)--StdOutput="stdout.log"	
--StdError	가	)--StdOutput="stderr.log"	

- OZServerUninstallService.bat

```
@echo off
```

```
rem -----
```

```
rem
```

OZServer

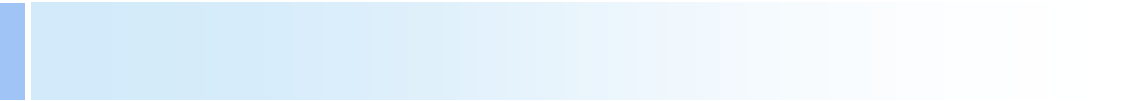
"

"

: NT

NT

ozstart.bat



가
WAS . WAS WAS
" – WAS "
.
WAS .

- 
-
- **cachemngr.properties**
 - **clientlist.xml**
 - **databind.properties**
 - **datasource.properties**
 - **db.properties**
 - **dbconfig.xml, dbconfig.xsd**
 - **log.properties**
 - **monitor.properties**
 - **ozserver.properties**
 - **ozservice.properties**
 - **repository.properties**
 - **sap.properties**
 - **spmngr.properties**
 - **srmngr.properties**
 - **uslmngr.properties**

cachemngr.properties

■ Daemon/Servlet

{OZ_HOME}\conf\cachemngr.propeties

가

cachemngr.properties

```
###
###   Configuraion of Cache Manager
###

CACHE_FILE_PATH = %OZ_HOME%/cache/
CACHE_DM_FILE_PATH = %OZ_HOME%/dm_cache/

repository.active=false
repository.memoryCacheValidTime=1200
repository.diskCacheValidTime=0
repository.freeMemoryPercentage=0

datamodule.report.active=false
datamodule.report.memoryCacheValidTime=1200
datamodule.report.diskCacheValidTime=0
datamodule.report.freeMemoryPercentage=0

datamodule.application.active=false
datamodule.application.memoryCacheValidTime=1200
datamodule.application.diskCacheValidTime=0
```

```
datamodule.application.freeMemoryPercentage=0
```

■ cachemngr.properties

CACHE_FILE_PATH	.
CACHE_DM_FILE_PATH	.
/ /.active	"true" , "false"
/ /.memoryCacheValidTime	.
/ /.freeMemoryPercentage	.
/ /.diskCacheValidTime	(:)

cachemngr.properties

- "/" /"

● Repository

■

```
repository.active = true
```

■

```
( 가 '/sales/car' )
repository.[/sales/car].active = true
```

■

```
( 'dept1.ozr' )
repository.[/sales/car].[dept1.ozr].active = true
```

● Data Module

가

ODI ,

, ODI '[]'

- | | |
|--|--------------------------------------|
| | datamodule.report.active = true |
| | datamodule.application.active = true |
- (가 '/sales/car')

	datamodule.report.[/sales/car].active = true
	datamodule.application.[/sales/car].active = true
- ('dept1.odi' 'SQL_1')

	datamodule.report.[/sales/car].[dept1.odi].active = true
	datamodule.application.[/sales/car].[dept1.odi].[SQL_1].[0].active = true
- ('Code', Fetch
 'DM_BATCH_FETCH', 'A001'
 'SQL_1')

	datamodule.report.[/sales/car].[dept1.odi].[DM_BATCH_FETCH].[Code=A001].active = true
	datamodule.application.[/sales/car].[dept1.odi].[SQL_1].[0].[DM_BATCH_FETCH].[Code=A001].active = true
- ('Code', Fetch
 'DM_CONCURRENT_FETCH', 'A001'
 'SQL_1')

	datamodule.report.[/sales/car].[dept1.odi].[DM_CONCURRENT_FETCH].[Code=A001].active = true
--	--

	<pre>datamodule.application.[/sales/car].[dept1.odi].[SQL_1].[0].[DM_CONCURRENT_FETCH].[Code=A001].active = true</pre>
--	--

clientlist.xml

■ Daemon/Servlet

{OZ_HOME}\conf\clientlist.xml

OZA, OZR

Mac Address, IP Address, HDD Serial

: JDK 1.4.1

clientlist.xml

가

: clientlist.xml

XML

conf

clientlist.xml

```
<ClientList use='true'>

<Client checkAll='true'> <!-- true , MAC, IP, HDD가 -->
  <MACAddress checkAll='false'>
    <Item>00-34-25-f1-61-45</Item>
    <Item>00-14-85-f1-68-22</Item>
  </MACAddress>
  <IPAddress checkAll='false'>
    <Item>127.0.0.1</Item>
    <Item>127.0.0.2</Item>
  </IPAddress>
```

```

<HDDSerial checkAll='false'>
  <Item>S07HJ1LL200778</Item>
</HDDSerial>
</Client>

<Client checkAll='true'>
  <MACAddress checkAll='false'>
    <Item>00-0f-ea-fy-9a-6a</Item>
  </MACAddress>
  <IPAddress checkAll='true'> <!-- true      , 2   IP가      -->.
    <Item>127.0.0.3</Item>
    <Item>127.0.0.4</Item>
  </IPAddress>
  <HDDSerial checkAll='false'>
    <Item>S0AFJ10Y7064418</Item>
    <Item>5JT3G3KT</Item>
  </HDDSerial>
</Client>

</ClientList>

```

■ clientlist.xml

ClientList	(MAC Address, IP Address, HDD Serial)		
	use	true	
		false	()
Client	MAC Address, IP Address, HDD Serial		
	checkAll	true	MAC Address, IP Address, HDD Serial 가
		false	MAC Address, IP Address, HDD Serial 가 ()
MACAddress	MAC Address가 MAC Address		
	checkAll	true	MAC Address가 MAC Address

		false	MAC Address가 Address ()	MAC
IPAddress	IP Address가 IP Address .			
	checkAll	true	IP Address가 Address	IP
		false	IP Address가 Address ()	IP
HDDSerial	HDD Serial HDD Serial .			
	checkAll	true	HDD Serial HDD Serial	
		false	HDD Serial Serial ()	HDD

- , "HDDSerial" "HddSerial"
- 가 .
- clientlist.xml

databind.properties

■ Daemon/Servlet

{OZ_HOME}\conf\databind.properties

databind.properties

```
# unit : byte, default : 4096 byte, min : 256 byte
ConcurrentFetchSize=4096

# unit : count, default : 0
ConcurrentFirstRow=0

# value : default/true/false
NumericDecimalDisplayZero=default
```

■ databind.properties

ConcurrentFetchSize	FetchType "Concurrent" Stream byte, 4096, 256

ConcurrentFirstRow	FetchType "Concurrent" 0 : 0
NumericDecimalDisplayZero	1 0 DB ODI 0 "default" "true" , "false" "default" - "Numeric" "Decimal" - "default"가 DB ODI

datasource.properties

■ Daemon/Servlet

{OZ_HOME}\conf\datasource.propeties

가 , HTTP , SOAP , XML

aliasname.optionname= value

: "datasource.properties"

OS

: ODI

가 가

■ datasource.properties

vendor	
filename	

designtimefilename	가
datasetnodename	XML XML
recordnodename	XML XML
startindex	ROW INDEX '0' ROW INDEX 0 가 가 0
checkerror	CSV "ERR" CSV "ERR" "ERR" CSV
characterset	
hasfieldtype	CSV CSV 가
fielddelimiter	CSV TAB, SPACE, SEMICOLON, COLON, COMMA 가
linedelimiter	CSV LINEFEED 가
nullmark	NULL

- HTTP

vendor	
url	가 HTTP

dopost	URL POST GET
urlencode	Server URL URL 'TRUE'
filenametolog	
designtimefilename	
datasetnodename	XML XML
recordnodename	XML XML 'RECORD'
startindex	ROW INDEX '0' ROW INDEX 0 가 0
checkerror	CSV CSV "ERR" "ERR" "ERR" CSV CSV
characteraset	
hasfieldtype	CSV CSV 가
fielddelimiter	CSV TAB, SPACE, SEMICOLON, COLON, COMMA 가

linedelimiter	CSV LINEFEED 가
nullmark	NULL
errorretrycount	HTTP 가

- SOAP

vendor	
wsdlurl	WSDL
endpoint	가
id	가 HTTP ID
password	가 HTTP

- XML

vendor	
xmlurl	XML
samplexmlurl	XML
schemapath	DTD/XSD

datasource.properties

■

```
# FILE      CSV
file_csv.VENDOR=FILE
```

```
file_csv.FILENAME=C:\Repository\csv\simple.csv
file_csv.DESIGNTIMEFILENAME=C:\Repository\csv\simple.csv
file_csv.CHECKERROR=ERROR_PREFIX
file_csv.CHARACTERSET=utf-8
file_csv.HASFIELDTYPE=true
file_csv.FIELDDELIMITER=COMMA
file_csv.LINEDELIMITER=LINEFEED
file_csv.NULLMARK=NULL
file_csv.STARTINDEX=1

# FILE          XML
File_xml.VENDOR=FILE
File_xml.FILENAME=C:\Repository\xml\simple.xml
File_xml.DESIGNTIMEFILENAME=C:\Repository\xml\simple.xml
File_xml.DATASETNODENAME=DATASET
File_xml.RECORDNODENAME=RECORD
File_xml.STARTINDEX=1
```

■ HTTP

```
# HTTP          CSV
http_csv.VENDOR=HTTP
http_csv.URL=http://localhost/Sample/csv/simple.csv
http_csv.DOPOST=false
http_csv.URLENCODE=false
http_csv.FILENAMETOLOG=OZHTTPCSV.LOG
http_csv.DESIGNTIMEFILENAME=C:\Repository\csv\simple.csv
http_csv.CHECKERROR=ERROR_PREFIX
http_csv.CHARACTERSET=utf-8
http_csv.HASFIELDTYPE=true
http_csv.FIELDDELIMITER=COMMA
http_csv.LINEDELIMITER=LINEFEED
http_csv.NULLMARK=NULL
http_csv.STARTINDEX=1

# HTTP          XML
http_xml.VENDOR=HTTP
http_xml.URL=http://localhost/Sample/xml/simple.xml
http_xml.DOPOST=false
http_xml.URLENCODE=false
http_xml.FILENAMETOLOG=OZHTTPXML.LOG
http_xml.DESIGNTIMEFILENAME=C:\Repository\xml\simple.xml
http_xml.DATASETNODENAME=DATASET
http_xml.RECORDNODENAME=RECORD
http_xml.STARTINDEX=1
```

■ SOAP

```
# SOAP
soap.VENDOR=SOAP
soap.WSDLURL=http://localhost/Sample/OZReport.asmx?wsdl
soap.ENDPOINT=http://localhost/Sample/OZReport.asmx
soap.ID=myid
soap.PASSWORD=mypassword
```

■ XML

```
# XML
xml.VENDOR=XML
xml.XMLURL=C:\Program Files\FORCS\OZ XStudio 5.0\Repository\Xml\sample.xml
xml.SAMPLEXMLURL=C:\Repository\Xml\sample.xml
xml.SCHEMAPATH=C:\Repository\Xml\sample.xsd
```

db.properties

■ Daemon/Servlet

{OZ_HOME}\conf\db.properties

가

DB Connection Pool

DB Connection Pool

aliasname.fieldname = value

■ aliasname

가

■ fieldname

■ db.properties

vendor	DBMS . (odbc, oracle, informix, sybase. ms-sql)
driver	JDBC .
url	JDBC URL .
props	JDBC Connection Property String . (User/Password)

dsn	ODBC
serverAddress	가
portNo	.
sid	Oracle SID
serverName	.
dbName	.
user	.
password	.
maxconns	가 가 DB Connection
initconns	DB Connection
timeout	Maxconns Connection (:)
sessionQuery	monitor log session id 가 "monitor.properties"
doConnectionCheck	ConnectionPool connection 가 가 connection
testQueryString	doConnectionCheck true

```

: db.properties user, password ozencrypted.bat
"

```

DBMS db.properties

■ Oracle

```

oracle_example.vendor=oracle
oracle_example.serverAddress=127.0.0.1
oracle_example.portNo=1521
oracle_example.sid=ORCL
oracle_example.user=oz
oracle_example.password=oz

```

```
oracle_example.maxconns=20
oracle_example.initconns=5
oracle_example.timeout=5
```

■ Informix

```
informix_example.vendor=informix
informix_example.serverAddress=127.0.0.1
informix_example.portNo=1526
informix_example.serverName=OZServer
informix_example.dbName=sysutils
informix_example.user=informix
informix_example.password=informix
informix_example.maxconns=20
informix_example.initconns=5
informix_example.timeout=5
```

■ MS-SQL

```
mssql_example.vendor=mssql
mssql_example.serverAddress=127.0.0.1
mssql_example.portNo=1433
mssql_example.dbName=newintra
mssql_example.user=sa
mssql_example.password=
mssql_example.maxconns=20
mssql_example.initconns=5
mssql_example.timeout=5
```

■ ODBC

```
odbc_example.vendor=odbc
odbc_example.dsn=odbc_example
odbc_example.user=
odbc_example.password=
odbc_example.maxconns=5
odbc_example.initconns=2
odbc_example.timeout=5
```

: NT

ODBC

DNS

ODBC

DNS

.

■ db2

```
db2_example.vendor=db2
db2_example.serverAddress=127.0.0.1
```

```
db2_example.portNo=1344
db2_example.dbName=db2
db2_example.user=db2admin
db2_example.maxconns=20
db2_example.initconns=5
db2_example.timeout=5
```

■ sybase

```
Sybase_example.vendor=sybase
Sybase_example.serverAddress=127.0.0.1
Sybase_example.dbName=master
Sybase_example.portNo=2343
Sybase_example.user=sa
Sybase_example.password=sybase
Sybase_example.maxconns=20
Sybase_example.initconns=5
Sybase_example.timeout=5
```

■ unisql

```
unisql_example.vendor=unisql
unisql_example.serverAddress=127.0.0.1
unisql_example.dbName=demodb
unisql_example.portNo=44300
unisql_example.user=
unisql_example.password=
unisql_example.maxconns=20
unisql_example.initconns=5
unisql_example.timeout=5
```

■ User Custom DBMS

```
user_example1.vendor=user
user_example1.driver=org.gjt.mm.mysql.driver
user_example1.url=jdbc:mysql://ip/test
user_example1.props=user=oz;password=oz
user_example1.user=oz
user_example1.maxconns=20
user_example1.initconns=5
user_example1.timeout=5
```

■ Data Source JNDI

```
ds_example.vendor=oracle
ds_example.serverAddress=127.0.0.1
```

```
ds_example.portNo=1521
ds_example.sid=forcs815
ds_example.user=scott
ds_example.password=tiger
ds_example.maxconns=5
ds_example.initconns=0
ds_example.timeout=5

#
# Set JDBC Driver using JNDI.
# com.forcs.jdbc.JNDIJDBCdriver is provided by FORCS
# in order to use DataSource.
#
ds_example.driver=com.forcs.jdbc.JNDIJDBCdriver

#
# URL Naming Rule
# forcs:<jndi_context_factory_name>:<user>:<password>:<jndi_source_name>
# forcs:<jndi_context_factory_name>:<jndi_source_name>
#

# DataSource of WebLogic
ds_example.url=forcs:weblogic.jndi.WLInitialContextFactory:<DataSource Name>

# DataSource of WebSphere
ds_example.url=forcs:com.ibm.websphere.naming.WsnInitialContextFactory:<DataSource Name>

# DataSource of Jeus
ds_example.url=forcs:jeus.jndi.JEUSContextFactory:<DataSource Name>

# DataSource of iPlanet
# Notice : DataSource Name include "jdbc/" in case of iPlanet
#         ex) jdbc/ecfcDS
ds_example.url=forcs:com.netscape.server.jndi.RootContextFactory:<DataSource Name>

# DataSource of JRUN
ds_example.url=forcs:jrun.naming.JRunContextFactory:<DataSource Name>
```

dbconfig.xml, dbconfig.xsd

{OZ_HOME}\conf\dbconfig.xml

{OZ_HOME}\conf\dbconfig.xsd

DBMS JDBC . 가

dbconfig.xml

DBMS JDBC .

```
<?xml version="1.0" encoding="UTF-8"?>
<DBCONNECTION_INFORMATION        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="dbconfig.xsd">
  <VENDOR NAME="ORACLE">
    <DISPLAYNAME>
      <LABEL LANG="en_us">ORACLE</LABEL>

    </DISPLAYNAME>
    <DRIVER>
      <DISPLAYNAME>
        <LABEL LANG="en_us">Driver</LABEL>
      </DISPLAYNAME>
      <JAVA>oracle.jdbc.driver.OracleDriver</JAVA>
      <NET>System.Data.OracleClient.OracleConnection</NET>
    </DRIVER>
    <URL>
      <DISPLAYNAME>
        <LABEL LANG="en_us">URL</LABEL>
      </DISPLAYNAME>
```

```
<JAVA>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(HOST={serverAddress}))(PROTOCOL=tcp)(PORT={portNo}))(CONNECT_DATA=(SID={sid}))</JAVA>
      <NET>Data Source={sid};User
ID={user};Password={password};</NET>
    </URL>
    <HANDLER>
      <JAVA>com.forcs.db.OZGeneralHandler</JAVA>
      <NET>com.forcs.db.OZOracleHandler</NET>
    </HANDLER>
    <PARAMETER_FLAG>
      <JAVA>?</JAVA>
      <NET>:</NET>
    </PARAMETER_FLAG>
    <ITEMS>
      <ITEM KEY="serverAddress">
        <LABEL LANG="en_us">Database server IP Address</LABEL>
        <LABEL LANG="ko_kr">IP</LABEL>
        <LABEL LANG="ja_jp">Database server IP Address</LABEL>
      </ITEM>
      <ITEM KEY="portNo">
        <LABEL LANG="en_us">Database server port number</LABEL>
        <LABEL LANG="ko_kr"></LABEL>
        <LABEL LANG="ja_jp">Database server port number</LABEL>
      </ITEM>
      <ITEM KEY="sid">
        <LABEL LANG="en_us">SID</LABEL>
        <LABEL LANG="ko_kr"></LABEL>
        <LABEL LANG="ja_jp">SID</LABEL>
      </ITEM>
    </ITEMS>
    <ADDITIONAL>
      <FIELDTYPES>
        <FIELDTYPE NAME="DATE">DATE</FIELDTYPE><!--
DATE,
-->
      </FIELDTYPES>
      <INFOS>
        <INFO KEY="DATE_EXPRESSION">TO_DATE( '@YYYY/MM/DD
@hh:mm:ss', 'YYYY/MM/DD hh24:mi:ss')</INFO>
        <INFO KEY="LIKE_QUERY">like</INFO>
        <INFO KEY="LIKE_DELEMETER">%</INFO>
      </INFOS>
    </ADDITIONAL>
  </VENDOR>
```

```

<VENDOR NAME="MS-SQL">
  <DISPLAYNAME>
    <LABEL LANG="en_us">MS-SQL</LABEL>
  </DISPLAYNAME>
  <DRIVER>
    <DISPLAYNAME>
      <LABEL LANG="en_us">Driver</LABEL>
    </DISPLAYNAME>
    <JAVA>com.microsoft.jdbc.sqlserver.SQLServerDriver</JAVA>
    <NET>System.Data.SqlClient.SqlConnection</NET>
  </DRIVER>
  <URL>
    <DISPLAYNAME>
      <LABEL LANG="en_us">URL</LABEL>
    </DISPLAYNAME>

    <JAVA>jdbc:microsoft:sqlserver://{serverAddress}:{portNo};DatabaseName={dbName}
  </JAVA>

    <NET>Network
    Library=DBMSSOCN;Data
Source={serverAddress},{portNo};Initial
Catalog={dbName};User
ID={user};Password={password};</NET>
  </URL>
  <HANDLER>
    <JAVA>com.forcs.db.OZMSSQLHandler</JAVA>
    <NET>com.forcs.db.OZmssqlHandler</NET>
  </HANDLER>
  <PARAMETER_FLAG>
    <NET>@</NET>
  </PARAMETER_FLAG>
  <ITEMS>
    <ITEM KEY="serverAddress">
      <LABEL LANG="en_us">Database server IP Address</LABEL>
      <LABEL LANG="ko_kr">IP </LABEL>
      <LABEL LANG="ja_jp">Database server IP Address</LABEL>
    </ITEM>
    <ITEM KEY="portNo">
      <LABEL LANG="en_us">Database server port number</LABEL>
      <LABEL LANG="ko_kr"></LABEL>
      <LABEL LANG="ja_jp">Database server port number</LABEL>
    </ITEM>
    <ITEM KEY="dbName">
      <LABEL LANG="en_us">Database name</LABEL>
      <LABEL LANG="ko_kr"></LABEL>
      <LABEL LANG="ja_jp">Database name</LABEL>
  </ITEMS>

```

```
</ITEM>
</ITEMS>
<ADDITIONAL>
    <FIELDTYPES>
        <FIELDTYPE NAME="DATE">DATETIME</FIELDTYPE>
    </FIELDTYPES>
    <INFOS>
        <INFO KEY="DATE_EXPRESSION">CAST( '@YYYY.@MM.@DD
@hh:@mm:@ss' AS DATETIME)</INFO>
    </INFOS>
</ADDITIONAL>
</VENDOR>
<VENDOR NAME="IBM-DB2">
    <DISPLAYNAME>
        <LABEL LANG="en_us">IBM-DB2</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <JAVA>COM.ibm.db2.jdbc.net.DB2Driver</JAVA>
        <NET>IBM.Data.DB2.DB2Connection</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>jdbc:db2://{serverAddress}:{portNo}/{dbName}</JAVA>
        <NET>Server={serverAddress}:{portNo};Database={dbName};User
ID={user};Password={password};</NET>
    </URL>
    <HANDLER>
        <!-- JAVA , OZGeneralHandler .. -->
        <NET>com.forcs.db.OZdb2Handler</NET>
    </HANDLER>
    <PARAMETER_FLAG>
        <NET>@</NET>
    </PARAMETER_FLAG>
</ITEMS>
<ITEM KEY="serverAddress">
    <LABEL LANG="en_us">Database server IP Address</LABEL>
    <LABEL LANG="ko_kr">IP </LABEL>
    <LABEL LANG="ja_jp">Database server IP Address</LABEL>
</ITEM>
```

```

        <ITEM KEY="portNo">
            <LABEL LANG="en_us">Database server port number</LABEL>
            <LABEL LANG="ko_kr">                                </LABEL>
            <LABEL LANG="ja_jp">Database server port number</LABEL>
        </ITEM>
        <ITEM KEY="dbName">
            <LABEL LANG="en_us">Database name</LABEL>
            <LABEL LANG="ko_kr">                                </LABEL>
            <LABEL LANG="ja_jp">Database name</LABEL>
        </ITEM>
    </ITEMS>
    <ADDITIONAL>
        <FIELDTYPES>
            <FIELDTYPE NAME="DATE">TIMESTAMP</FIELDTYPE>
        </FIELDTYPES>
        <INFOS>
            <INFO          KEY="DATE_EXPRESSION">TO_DATE( '@YYYY-MM-DD
@hh:@mm:@ss', 'YYYY-MM-DD HH24:MI:SS')</INFO>
        </INFOS>
    </ADDITIONAL>
</VENDOR>
<VENDOR NAME="ODBC">
    <DISPLAYNAME>
        <LABEL LANG="en_us">ODBC</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <JAVA>sun.jdbc.odbc.JdbcOdbcDriver</JAVA>
        <NET>System.Data.Odbc.OdbcConnection</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>jdbc:odbc:{dsn}</JAVA>
        <NET>Dsn={dsn};Uid={user};Pwd={password}</NET>
    </URL>
    <HANDLER>
        <NET>com.forcs.db.OZGeneralHandler</NET>
    </HANDLER>
    <PARAMETER_FLAG>
        <NET>@</NET>

```

```
</PARAMETER_FLAG>
<ITEMS>
  <ITEM KEY="dsn">
    <LABEL LANG="en_us">Data Source Name</LABEL>
    <LABEL LANG="ko_kr">                                </LABEL>
    <LABEL LANG="ja_jp">Data Source Name</LABEL>
  </ITEM>
</ITEMS>
</VENDOR>
<VENDOR NAME="INFORMIX">
  <DISPLAYNAME>
    <LABEL LANG="en_us">INFORMIX</LABEL>
  </DISPLAYNAME>
  <DRIVER>
    <DISPLAYNAME>
      <LABEL LANG="en_us">Driver</LABEL>
    </DISPLAYNAME>
    <JAVA>com.informix.jdbc.IfxDriver</JAVA>
    <NET>IBM.Data.Informix.IfxConnection</NET>
  </DRIVER>
  <URL>
    <DISPLAYNAME>
      <LABEL LANG="en_us">URL</LABEL>
    </DISPLAYNAME>
    <JAVA>jdbc:Informix-
sql:://{serverAddress}:{portNo}/{dbName}:informixserver={serverName}</JAVA>

    <NET>Host={serverAddress};Service={portNo};Server={serverName};Database={dbName
};User ID={user};Password={password};</NET>
  </URL>
  <HANDLER>
    <NET>com.forcs.db.OZInformixHandler</NET>
  </HANDLER>
  <ITEMS>
    <ITEM KEY="serverAddress">
      <LABEL LANG="en_us">Database server IP Address</LABEL>
      <LABEL LANG="ko_kr">                                IP    </LABEL>
      <LABEL LANG="ja_jp">Database server IP Address</LABEL>
    </ITEM>
    <ITEM KEY="portNo">
      <LABEL LANG="en_us">Database server port number</LABEL>
      <LABEL LANG="ko_kr">                                </LABEL>
      <LABEL LANG="ja_jp">Database server port number</LABEL>
    </ITEM>
```

```

        <ITEM KEY="serverName">
            <LABEL LANG="en_us">Database server name</LABEL>
            <LABEL LANG="ko_kr">                                </LABEL>
            <LABEL LANG="ja_jp">Database server name</LABEL>
        </ITEM>
        <ITEM KEY="dbName">
            <LABEL LANG="en_us">Database name</LABEL>
            <LABEL LANG="ko_kr">                                </LABEL>
            <LABEL LANG="ja_jp">Database name</LABEL>
        </ITEM>
    </ITEMS>
</VENDOR>
<VENDOR NAME="SYBASE">
    <DISPLAYNAME>
        <LABEL LANG="en_us">SYBASE</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <JAVA>com.sybase.jdbc2.jdbc.SybDriver</JAVA>
        <NET>Sybase.Data.AseClient.AseConnection</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>

        <JAVA>jdbc:sybase:{dsn}:{serverAddress}:{portNo}/{dbName}</JAVA>
        <NET>Network                                Library=DBMSSOCN;Data
Source={serverAddress},{portNo};Initial            Catalog={dbName};User
ID={user};Password={password};</NET>
    </URL>
    <HANDLER>
        <NET>com.forcs.db.OZSybaseHandler</NET>
    </HANDLER>
    <PARAMETER_FLAG>
        <NET>@</NET>
    </PARAMETER_FLAG>
</ITEMS>
    <ITEM KEY="dsn" DEFAULT="Tds">
        <LABEL LANG="en_us">Data source name</LABEL>
        <LABEL LANG="ko_kr">                                </LABEL>
        <LABEL LANG="ja_jp">Data source name</LABEL>

```

```
</ITEM>
<ITEM KEY="serverAddress">
    <LABEL LANG="en_us">Database server IP Address</LABEL>
    <LABEL LANG="ko_kr">IP </LABEL>
    <LABEL LANG="ja_jp">Database server IP Address</LABEL>
</ITEM>
<ITEM KEY="portNo">
    <LABEL LANG="en_us">Database server port number</LABEL>
    <LABEL LANG="ko_kr"></LABEL>
    <LABEL LANG="ja_jp">Database server port number</LABEL>
</ITEM>
<ITEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr"></LABEL>
    <LABEL LANG="ja_jp">Database name</LABEL>
</ITEM>
</ITEMS>
<ADDITIONAL>
    <FIELDTYPES>
        <FIELDTYPE NAME="DATE">DATETIME</FIELDTYPE>
    </FIELDTYPES>
    <INFOS>
        <INFO KEY="DATE_EXPRESSION">CONVERT(DATETIME,
'@YYYY.@MM.@DD @hh:@mm:@ss')</INFO>
    </INFOS>
</ADDITIONAL>
</VENDOR>
<VENDOR NAME="UNI-SQL">
    <DISPLAYNAME>
        <LABEL LANG="en_us">UNI-SQL</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <JAVA>unisql.jdbc.driver.UniSQLDriver</JAVA>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>jdbc:unisql:{serverAddress}:{portNo}:{dbName}:::</JAVA>
    </URL>
</HANDLER/>
```

```

        <ITEMS>
            <ITEM KEY="serverAddress">
                <LABEL LANG="en_us">Database server IP Address</LABEL>
                <LABEL LANG="ko_kr">IP </LABEL>
                <LABEL LANG="ja_jp">Database server IP Address</LABEL>
            </ITEM>
            <ITEM KEY="portNo">
                <LABEL LANG="en_us">Database server port number</LABEL>
                <LABEL LANG="ko_kr"></LABEL>
                <LABEL LANG="ja_jp">Database server port number</LABEL>
            </ITEM>
            <ITEM KEY="dbName">
                <LABEL LANG="en_us">Database name</LABEL>
                <LABEL LANG="ko_kr"></LABEL>
                <LABEL LANG="ja_jp">Database name</LABEL>
            </ITEM>
        </ITEMS>
    </VENDOR>
    <VENDOR NAME="User-Defined">
        <DISPLAYNAME>
            <LABEL LANG="en_us">User-Defined</LABEL>
        </DISPLAYNAME>
        <DRIVER>
            <DISPLAYNAME>
                <LABEL LANG="en_us">Driver</LABEL>
            </DISPLAYNAME>
            <JAVA>{driver}</JAVA>
        </DRIVER>
        <URL>
            <DISPLAYNAME>
                <LABEL LANG="en_us">URL</LABEL>
            </DISPLAYNAME>
            <JAVA>{url}</JAVA>
        </URL>
        <ITEMS>
            <ITEM KEY="driver">
                <LABEL LANG="en_us">Driver Class Name</LABEL>
                <LABEL LANG="ko_kr">JDBC </LABEL>
                <LABEL LANG="ja_jp">Driver Class Name</LABEL>
            </ITEM>
            <ITEM KEY="url">
                <LABEL LANG="en_us">Connection URL</LABEL>
                <LABEL LANG="ko_kr">JDBC URL</LABEL>
                <LABEL LANG="ja_jp">Connection URL</LABEL>
            </ITEM>
        </ITEMS>
    </VENDOR>

```

```

        </ITEM>
    </ITEMS>
</VENDOR>
</DBCNECTION_INFORMATION>

```

- OZ dbconfig.xml .
- VENDOR . (
 - VENDOR .)
- DB "user" "password" ITEM
 - . (ITEM
 - 가 .)
- <ITEM> KEY / .
- <ITEM> KEY .
 - , , (~, !, @, #, \$, %, ^, *, (), _, +, |, \,
=, -, { }, [], :, ;, ., /, ?)
- <ITEM> KEY .
 - "alias", "vendor", "key", "user", "password", "initconns", "maxconns",
"timeout", "initSqls", "closeSqls", "doAutoCommit", "doConnectionCheck",
"testQueryString", "sessionQuery", "_encrypted", "NAME",
"INCLUDE", "VENDOR", "USERNAME", "ENCYPW", "PASSWORD",
"USEALIAS", "POOLALIAS", "ALIASFILENAME", "AUTOCOMMIT",
"ENCODECHARSET", "DECODECHARSET", "TIMEFORMAT", "DATEFORMAT",
"TIMESTAMPFORMAT"
- RDB DB Vendor <ADDITIONAL> 가
 - DATE_EXPRESSION . (
 - DB Vendor가 가

Vendor	DATE type	DATE_EXPRESSION
ORACLE	DATE	TO_DATE('@YYYY/@MM/@DD @hh:@mm:@ss', 'YYYY/MM/DD hh24:mi:ss')
MSSQL	DATETIME	CAST('@YYYY.@MM.@DD @hh:@mm:@ss' AS DATETIME)
DB2	TIMESTAMP	TO_DATE('@YYYY-@MM-@DD @hh:@mm:@ss', 'YYYY-MM-DD HH24:MI:SS')
SYBASE	DATETIME	CONVERT(DATETIME, '@YYYY.@MM.@DD

		@hh:@mm:@ss')
	DATE	TO_DATE('@YYYY/@MM/@DD @hh:@mm:@ss', 'YYYY/MM/DD hh24:mi:ss')

dbconfig.xsd

dbconfig.xml xsd . dbconfig.xml

```
<?xml version="1.0" encoding="utf-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType name="t_LABEL">
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="LANG" type="xsd:string" />
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="t_DISPLAYNAME">
    <xsd:sequence>
      <xsd:element name="LABEL" type="t_LABEL" minOccurs="1"
maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="t_DRIVER">
    <xsd:sequence>
      <xsd:element name="DISPLAYNAME" type="t_DISPLAYNAME" />
      <xsd:element name="JAVA" type="xsd:string" minOccurs="0"
maxOccurs="1" />
      <xsd:element name="NET" type="xsd:string" minOccurs="0"
maxOccurs="1" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="t_HANDLER">
    <xsd:sequence>
      <xsd:element name="JAVA" type="xsd:string" minOccurs="0"
maxOccurs="1" />
      <xsd:element name="NET" type="xsd:string" minOccurs="0"
maxOccurs="1" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

```
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="t_PARAMETERFLAG">
        <xsd:sequence>
            <xsd:element name="JAVA" type="xsd:string" minOccurs="0"
maxOccurs="1" />
            <xsd:element name="NET" type="xsd:string" minOccurs="0"
maxOccurs="1" />
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="t_ITEM">
        <xsd:sequence>
            <xsd:element name="LABEL" type="t_LABEL" minOccurs="1"
maxOccurs="unbounded" />
        </xsd:sequence>
        <xsd:attribute name="KEY" type="xsd:string" use="required" />
        <xsd:attribute name="USE_PROPERTY" type="xsd:string" use="optional" />
        <xsd:attribute name="DEFAULT" type="xsd:string" use="optional"/>
    </xsd:complexType>

    <xsd:complexType name="t_ITEMS">
        <xsd:sequence>
            <xsd:element name="ITEM" type="t_ITEM" minOccurs="0"
maxOccurs="unbounded" />
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="t_FIELDTYPE">
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="NAME" type="xsd:string" />
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="t_FIELDTYPES">
        <xsd:sequence>
            <xsd:element name="FIELDTYPE" type="t_FIELDTYPE" minOccurs="0"
maxOccurs="unbounded" />
        </xsd:sequence>
    </xsd:complexType>
```

```

<xsd:complexType name="t_INFO">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="KEY" type="xsd:string" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="t_INFOS">
  <xsd:sequence>
    <xsd:element name="INFO" type="t_INFO" minOccurs="0"
maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="t_ADDITIONAL">
  <xsd:sequence>
    <xsd:element name="FIELDTYPES" type="t_FIELDTYPES"
minOccurs="0" maxOccurs="1" />
    <xsd:element name="INFOS" type="t_INFOS" minOccurs="0"
maxOccurs="1" />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="t_VENDOR">
  <xsd:sequence>
    <xsd:element name="DISPLAYNAME" type="t_DISPLAYNAME" />
    <xsd:element name="DRIVER" type="t_DRIVER"/>
    <xsd:element name="URL" type="t_DRIVER"/>
    <xsd:element name="HANDLER" type="t_HANDLER" minOccurs="0"
maxOccurs="1" />
    <xsd:element name="PARAMETER_FLAG" type="t_PARAMETERFLAG"
minOccurs="0" maxOccurs="1" />
    <xsd:element name="ITEMS" type="t_ITEMS" minOccurs="0"
maxOccurs="1" />
    <xsd:element name="ADDITIONAL" type="t_ADDITIONAL"
minOccurs="0" maxOccurs="1" />
  </xsd:sequence>
  <xsd:attribute name="NAME" type="xsd:string" use="required" />
</xsd:complexType>

<xsd:element name="VENDOR" type="t_VENDOR" />

```

```
<xsd:element name="DBCONNECTION_INFORMATION">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="VENDOR" minOccurs="0"
maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
</xsd:schema>
```

log.properties

■ Daemon/Servlet

{OZ_HOME}\conf\log.properties

```

log              'LOG4OZ'  'LOG4J'
CONSOLE(        ), FILE, NT Event, UNIX Syslog      'LOG4OZ'
"BUILTIN_LOGGING_CONSOLE", "BUILTIN_LOGGING_FILE"   가
'LOG4J'         "Set Prioritylog Level", "Appender CONSOLE", "Appender ROLLING_FILE",
"Appender NT Event", "Appender syslog"              가      HTTP

```

log.properties

```

#-----
# configuraion of OZ logging system (LOG4OZ)
#-----
#
#USE_BUILTIN_LOGGING_ENGINE=true
#BUILTIN_LOGGING_CONSOLE=true
#BUILTIN_LOGGING_CONSOLE.CharSet=
#BUILTIN_LOGGING_FILE=true
#BUILTIN_LOGGING_FILE.TYPE=RollingFile

# ----
#BUILTIN_LOGGING_FILE.TYPE=DailyRollingFile
#BUILTIN_LOGGING_FILE.DatePattern=yyyy-MM-dd
# -----
#BUILTIN_LOGGING_FILE.CharSet=

```

```
#BUILTIN_LOGGING_FILE.LOCATION=%OZ_HOME%/logs/server_oz.log
#BUILTIN_LOGGING_FILE.APPEND=true
#BUILTIN_LOGGING_FILE.MaxBackupIndex=5
#BUILTIN_LOGGING_FILE.MaxFileSize=1MB
#BUILTIN_LOGGING_FILE.ImmediateFlush=true

#-----
# configuraion of OZ logging system (LOG4J)
#-----
#
# Set Prioritylog level
#
# DEBUG, INFO, WARN, ERROR
Priority=DEBUG
#
# appender CONSOLE
# Console
#
CONSOLE.Type=Stdout
CONSOLE.Layout=%r [%t] %p %c{1} %x - %m%n
CONSOLE.Async=false
#
# appender ROLLING_FILE
# File
#
# MaxFileSize
#
가 가
#
#
# MaxBackupIndex
#
#
# Layout :
# Append :
# ImmediateFlush : 가
#
false
#
# CharSet :
#

ROLLING_FILE.Type=RollingFile
ROLLING_FILE.Layout=%d{ISO8601} [%t] %-5p %c{1} %x - %m%n
ROLLING_FILE.File=%OZ_HOME%/logs/server.log
# ----
# ROLLING_FILE.Type=DailyRollingFile //
# ROLLING_FILE.DatePattern=yyyy-MM-dd
# -----
```

```

ROLLING_FILE.Append=true
ROLLING_FILE.MaxBackupIndex=5
ROLLING_FILE.MaxFileSize=1MB
ROLLING_FILE.ImmediateFlush=true
#
# appender NT Event
# NT
#
#NT_EVENT.Type=NTEvent
#NT_EVENT.Layout=%r %p %c{1} - %m%n
#NT_EVENT.Threshold=ERROR
#
# appender syslog
# Unix syslog
#
#SYSLOG.Type=Syslog
#SYSLOG.Layout=[OZ] %r %p %c{1} - %m
#SYSLOG.Threshold=ERROR
#SYSLOG.SyslogHost=127.0.0.1
#SYSLOG.Facility=USER
#SYSLOG.FacilityPrinting=false

#-----
# configuraion of HTTPStore Logging
#-----
#HTTPSTORE_LOG_FILE=MANUAL (AUTO/MANUAL/NONE)
# HTTPSTORE_LOG_FILE.LOCATION=%OZ_HOME%/logs (Directory Name)

#-----
# Instance ( )
#-----
#MultiInstance=false
#WASName=
#WASVersion=

#-----
# configuraion of OZ Mail
#-----
#Mail.active=false
#Mail.fromSend=
#Mail.toSend=
#Mail.SMTPServer=
#Mail.SMTPServerPort=25
#Mail.SMTPUserID=

```

```
#Mail.SMTPUserPassword=
#Mail.SMTPUserID_encrypted=
#Mail.SMTPUserPassword_encrypted=
#Mail.SendRetryCount=1
#Mail.SendRetryPeriodTime=30
#Mail.PrefixSubjectMessage=
#Mail.FilterType=
#Mail.FilterServiceCode=
```

■ LOG4OZ

	LOG4OZ	
USE_BUILTIN_LOGGING_ENGINE	true	LOG4OZ
	false	LOG4OZ , LOG4J
BUILTIN_LOGGING_CONSOLE	Console	
	true	Console
	false	Console
BUILTIN_LOGGING_CONSOLE.CharSet	Console (IBM 'CP500')	
BUILTIN_LOGGING_FILE	'BUILTIN_LOGGING_FILE.LOCATION'	
BUILTIN_LOGGING_FILE.TYPE	Rolling	
	RollingFile	ex) server.log, server.log.1, server.log.2, ...
	DailyRollingFile	(DatePattern)
BUILTIN_LOGGING_FILE.CharSet	(IBM 'CP500')	
BUILTIN_LOGGING_FILE.DatePattern	"DatePattern"	
BUILTIN_LOGGING_FILE.LOCATION		

BUILTIN_LOGGING_FILE. APPEND	가	가
BUILTIN_LOGGING_FILE. MaxBackupIndex	Backup	가
BUILTIN_LOGGING_FILE. MaxFileSize		
BUILTIN_LOGGING_FILE. ImmediateFlush		

■ LOG4J

Set Prioritylog level	priority		
		ERROR	
		WARN	"ERROR"
		INFO	"ERROR"
		DEBUG	"ERROR", "INFO"
appender CONSOLE	CONSOLE.T ype	Appender , 'stdout'	
	CONSOLE.L ayout	"Log Layout"	
	CONSOLE.A sync		
		true	()
		false	
appender	ROLLING_F	Rolling File	

ROLLING_ FILE	ILE.Type	RollingFile	ex) server.log, server.log.1, server.log.2, ...
		DailyRollingFile	(DatePattern)
	ROLLING_F ILE.DatePat tern	"DatePattern"	
	ROLLING_F ILE.Layout	"Log Layout"	
	ROLLING_F ILE.File		
	ROLLING_F ILE.Append	가 가	
		true	가
		false	가
	ROLLING_F ILE.MaxBac kupIndex	Backup 가 가	
	ROLLING_F ILE.MaxFile size		
	ROLLING_F ILE.Immedi ateFlush		
apender NT Event	NT_Event.T ype	NT Event "NTEvent" : Windows NT Lib NTEventLog Appender.dll WINNT\SYSTEM32	
	NT_Event.L ayout	"Log Layout"	
	NT_Event.T hreshold		

apender syslog	SYSLOG.Type	Unix 'Syslog'		
	SYSLOG.Layout	"Log Layout"		
	SYSLOG.Threshold			
	SYSLOG.SyslogHost	Syslog	Unix	IP
	SYSLOG.Facility	Syslog 가 'KERN', 'USER', 'MAIL', 'DAEMON', 'AUTH', 'SYSLOG', 'LPR', 'NEWS', 'UUCP', 'CRON', 'AUTHPRIV', 'FTP', 'LOCAL1', 'LOCAL2', 'LOCAL3', 'LOCAL4', 'LOCAL5', 'LOCAL6', 'LOCAL7'		
	SYSLOG.FacilityPrinting	Facility 가		
		true	가	
		false	가	

- HTTP
- HTTP HTTP 가 가 ODI , ODI
- 가 HTTP
- ,

HTTPSTORE_LOG_FILE	HTTP	
	MANUAL	HTTP ()
	AUTO	HTTP
	NONE	HTTP

HTTPSTORE_LOG_FILE.LOCATION	가 '%OZ_HOME%/logs'
-----------------------------	--------------------

- HTTP
- HTTP
- HTTP
- "HTTP"
- 'HTTPSTORE_LOG_FILE=AUTO'
- HTTP
- 'OZ_HTTPSTATEMENT.LOG.#' '#'
- 1 가

■ DatePattern

Pattern	Rollover schedule	
yyyy-MM		6 12 server.log server.log.2005-06 server.log
yyyy-ww	()	가 , 1 12 server.log server.log.2005-01 server.log
yyyy-MM-dd	()	7 1 server.log server.log.2005-07-01 server.log
yyyy-MM-dd-HH		7 1 10 server.log server.log.2005-07-01-09 server.log

Log4j

Pattern

Pattern	
---------	--

yyyy-MM	가 1 ~59 .(log4j)
yyyy-ww	가 1 ~59 .(log4j) 12 1 가 (jdk : http://bugs.sun.com/bugdatabase/view_bug.do?bug_id =4808661) 2006.12.31 2006-53 or 2007-01 2006-01 .
	DatePattern 가 . DatePattern = yyyy-MM-dd 2005.01.17 2005.01.18 server.log.2005-01-17 , 2005.01.19 17 18 server.log.2005-01-18 . , DatePattern .

■ Log Layout

Character	
c	OZServer module Category Name . Category name %{2}) %c → oz.server.servlet %c{1} → servlet %c{2} → server.servlet

d	가 (ABSOLUTE, DATE, ISO8601) Log4j Log4j) [%d{dd MM yyyy HH:mm:ss,SSS}] [18 04 2001 18:39:29,777] main INFO ozserver - OZServer ...) [%d{ISO8601}] [2001-04-18 18:39:29,777]main INFO ozserver - OZServer ...
m	message OZServer) %d{ISO8601} [%t] %-5p %c{1} %x-%m → 2002-08-16 09:56:23,203[Handler 1] INFO MessageHandler
n	C "\n" New Line
p	(ERROR, WARN, INFO, DEBUG) %p -5 5) %d{ISO8601} [%t] %-5p %c{1} %x-%m → 2002-08-16 09:56:23,203[Handler 1] INFO MessageHandler
r	가 millisecond ex) [%r] → [2994] main INFO oz.server - OZServer...
t	Thread ex) [%t] → 59485 [Thread-2] INFO oz.server - Received a message
%	%

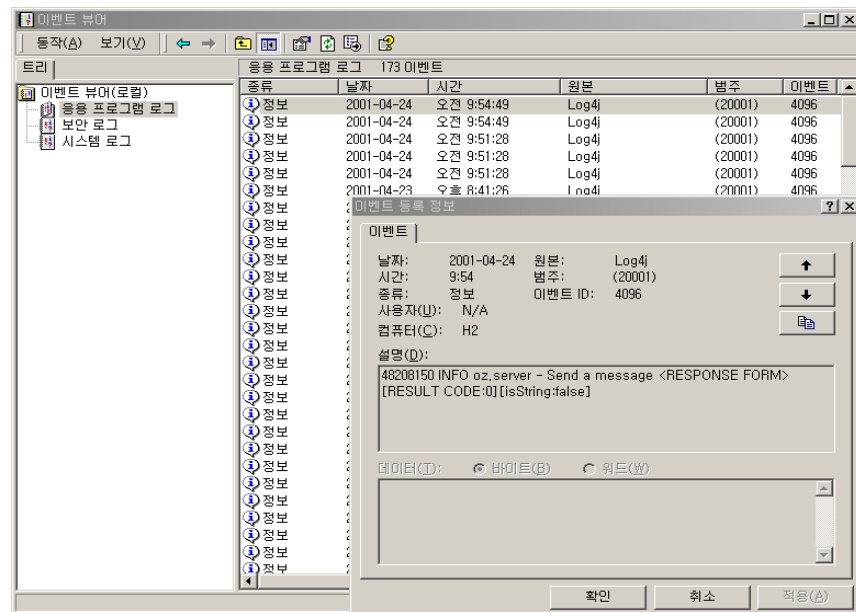
■ Log Date Format

Symbol			
G	Era designator	Text	AD

y	Year	Number	2001
M	Month	Text & Number	May & 05
d	Day	Number	05
h	Hour in am/pm (1~12)	Number	12
H	Hour in day (0~23)	Number	0
m	Minute	Number	30
s	Second	Number	55
S	Millisecond	Number	978
E	Day in week	Text	Tuesday
D	Day in year	Number	189
F	Day of week in month	Number	2 (2nd)
w	Week in year	Number	27
W	Week in month	Number	2
a	Am/pm marker	Text	PM
k	Hour in day (1~24)	Number	24
K	Hour in am/pm (0~11)	Number	0
z	Time zone	Text	Pacific Standard Time
'	Escape for text	Delimiter	
"	Single quote sign	Literal	'

"yyyy.MM.dd G 'at' hh:mm:ss z"	→ 2001.04.24 AD at 18:25:30 PDT
"EEE, MMM d, 'yy"	→ Wed, July 10, '96
"h:mm a"	→ 12:08 PM

- NT Event 가



■ Instance

MultInstance	Instance true , false ex) MultInstance=true
WASName	가 WAS ex) WASName=WebLogic
WASVersion	가 WAS ex) WASVersion=7.1

: Instance

, WAS WebLogic7.x, WebLogic8.x 가

■

active	가
	true

	false	()
fromSend		
toSend	: 가 (;) (,) . ex) admin@forcs.com;oz@forcs.com admin@forcs.com,oz@forcs.com	
SMTPServer	SMTP	
SMTPServerPort	SMTP	
SMTPUserID	SMTP ID : SMTP	
SMTPUserPassword	SMTP ID : SMTP	
SMTPUserID_encrypted	SMTP ID : SMTP ID ID ID	
SMTPUserPassword_encrypted	SMTP ID : SMTP	
SendRetryCount		
SendRetryPeriodTime	(:)	
PrefixSubjectMessage	: "[] + "	
FilterType	FilterServiceCode	

	positive	FilterServiceCode 가 ex) FilterServiceCode가 123 가 123 가 FilterServiceCode가 .
	negative	FilterServiceCode () ex) FilterServiceCode가 123 가123 가 FilterServiceCode가 , .
FilterServiceCode		: " monitor.properties" -

monitor.properties

- **Daemon/Servlet**
 {OZ_HOME}\conf\monitor.properties

monitor.properties

```
#-----
# configuraion of OZ Trasaction Monotior log
#-----
#
# OZ 5.0
#
#
#
# Whether log or not
#
MONITOR.Active=true
MONITOR.File=%OZ_HOME%/logs/monitor.log
MONITOR.MaxBackupIndex=5
MONITOR.MaxFileSize=1MB
MONITOR.ImmediateFlush=true
```

- **monitor.properties**

Active	
File	

MaxBackupIndex	Backup 가 . Backup 가
MaxFileSize	
ImmediateFlush	

■

CSV

MARK/THR_ID/TIME/F_MEM/T_MEM/S_CODE/S_STATUS/S_PARAMS/C_IP/DB_SS/E_TIME

MARK		start, end
THR_ID	ID	(int)
TIME		1970 1 1 0 Millisecond (long), (int)
F_MEM	가	: byte
T_MEM	JVM	: byte
S_CODE	" "	(int)
S_STATUS		: 9001 : 9002
S_PARAMS		
C_IP	IP	
DB_SS	DBMS ID	
E_TIME		1970 1 1 0 Millisecond (long), (int)

- sessionQuery

session ID 가 DB db.properties

<alias>.sessionQuery ID .

session ID가 sessionQuery .

```
alias.sessionQuery = "[DB Query]"
```

```
<infomix>
```

```
SELECT DBINFO("\sessionid\") FROM SysTables WHERE TabID = 1
```

```
<mssql>
```

```
select @@spid
```

```
<oracle>
```

```
SELECT sid FROM V$SESSION WHERE audsid = userenv('sessionid')
```

```
<sybase>
```

```
select @@spid
```

-

가

```
// Repository
```

```
CREATE USER = 100;
```

```
DELETE USER = 101;
```

```
CHECK USER PWD = 102;
```

```
UPDATE USER PWD = 103;
```

```
DISABLE USER LOGIN = 104;
```

```
ENABLE USER LOGIN = 105;
```

```
ISENABLE USER LOGIN = 106;
```

```
UPDATE USER DESCRIPTION = 107;
```

```
GET USER DESCRIPTION = 108;
```

```
GET GROUPID USER = 109;
```

```
GET USERID NAME = 110;
```

```
UPDATE GROUPID USER = 111;
```

```
GET USER LIST = 112;
```

```
CREATE GROUP = 113;
```

```
DELETE GROUP = 114;
```

```
UPDATE USER GROUPADMIN = 115;
```

```
IS USER GROUPADMIN = 116;
```

```
UPDATE UPPER GROUPID = 117;
```

```
GET USER LIST GROUP = 118;
```

```
GET GROUP LIST GROUP = 119;
```

```
CREATE ITEM = 120;
DELETE ITEM = 121;
GET ITEM = 122;
GET CATEGORYID ITEM = 123;
GET GROUPID ITEM = 124;
UPDATE CATEGORYID ITEM = 125;
UPDATE GROUPID ITEM = 126;
GET ITEM LIST = 127;
CREATE CATEGORY = 128;
DELETE CATEGORY = 129;
UPDATE UPPER CATEGORYID = 130;
GET ITEM LIST CATEGORY = 131;
GET CATEGORY LIST CATEGORY = 132;
UPDATE ITEM USER AUTH = 133;
UPDATE ITEM GROUP AUTH = 134;
GET USER AUTH ITEM = 135 ;
GET GROU AUTH ITEM = 136;
GET ITEM LIST AUTH USER = 137;
GET ITEM LIST AUTH GROUP = 138;
GET USER LIST AUTH ITEM = 139;
GET GROUP LIST AUTH ITEM = 140;
GET ITEMID = 141;
GET ITEM DATAINFO = 142;
UPDATE USERNAME =143;
UPDATE GROUPNAME = 144;
UPDATE ITEMNAME = 145;
GET ITEMPATH = 146;
GET DIRECTITEM = 147;
UPDATE CATEGORY USERAUTH = 148;
UPDATE CATEGORY GROUPAUTH =149;
GET USERAUTH CATEGORY = 150;
GET GROUPAUTH CATEGORY = 151;
GET CATEGORYLIST USERAUTH = 152;
GET CATEGORYLIST GROUPAUTH = 153;
GET USERLISTAUTH CATEGORY = 154;
GET GROUPLISTAUTH CATEGORY = 155;
UPDATE LOGINDEFAULT = 156;

UPDATE CATEGORYNAME = 157;
CREATE ITEMINDEX = 158;
DELETE ITEMINDEX = 159;
GET ITEMINDEX LIST = 160;
FINDE ITEM ITEMINDEX = 161;
```

```
UPDATE ITEM FILE = 162;
CHECK OUT ITEM = 163;
CHECK IN ITEM = 164;
ROLLBACK ITEM = 165;
UNDO CHECK OUT ITEM = 166;
GET ITEM BYVERSION = 167;
GET HISTORY LIST = 168;
CLEAR HISTORY = 169;
CHECK OUT USER = 170;

GET CATEGORYINFO = 171;
GET ITEMINFO = 172;
GET USERNAME BYID = 173;
HAS SPECIFIC ITEM = 174;

GET ITEMCOUNT IN CATEGORY = 175;
LOGIN TO SERVER = 176;
LOGIN TO SERVER FROM SCHEDULER = 177;
GET ODI LIST = 178;
GET CATEGORYID = 179;
GET ITEMID WITH PATH = 180;
UPDATE DIRECT ITEM FILE = 181;
GET USERINFO = 182;
UPDATE ITEM DESCRIPTION = 183;
GET GROUPINFO = 184;
CREATE CATEGORY WITH PATH = 185;
CREATE ITEM WITH NAME = 186;
GET DIRECT ITEMS = 187;
LOGIN USER = 188;
LOGOUT USER= 189;
ISLOGIN USER = 190;
GET ITEMLIST WITH PERMISSION USER = 191;
GET CATEGORYLIST WITH PERMISSION USER = 192;
GET ITEMLIST WITH PERMISSION GROUP = 193;
GET CATEGORYLIST WITH PERMISSION GROUP = 194;
GET CATEGORYLIST OVER VIEW IN ROOT = 195;
GET DIRECT ITEM COMPRESSED = 196;
GET ITEM LIST CATEGORY NAME = 197;
GET ITEMLIST WITH PERMISSION USER CNAME = 198;
GET ITEMLIST WITH PERMISSION GROUP CNAME = 199;

// Datamodule
GET DATAMODULE = 380;
GET DEFAULT PARAMETER = 381;
```

```
GET USDM = 382;
GET APPLICATION DM = 383;

// Connection Pool API
GET POOL INFO = 400;
GET POOL STATUS LIST = 401;
GET POOL INFO LIST = 402;
ADD POOL = 403 ;
REMOVE POOL = 404 ;
SAVE = 405 ;

// Log      API
GET CONFIG = 406 ;
CONFIGURE PROPERTY = 407 ;
CONFIGURE STRING = 408 ;
GET FILE APPENDER FILE = 409 ;
SET PRIORITY = 410 ;

// Server Info      API
GET VERSIONS = 411;
GARBAGE COLLECT = 412;
GET MEMORYINFO = 413;
GET HANDLER COUNT = 414;
GET MEMORY STATUS = 415;
GET CUMULATED COUNT = 416;
GET CUMULATED TIMER = 417;
GET DYNAMIC INFOMATION = 418;
DOWN MONITOR LOG = 419;

// Cache      API
GET CACHE CONFIG = 420;
SET CACHE CONFIG = 421;
LOGAGENT TEST = 422;
GET REALTIME LOG = 423;
GET REALTIME MONITOR LOG = 424;
DELETE CACHE DATA = 1100;

// STOP
SERVER STOP = 500;
SERVER RESTART = 501;

// Application DataModule
GET DATAMODULE APP = 520;
```

```
// Scheduler      API
    GET SCHEDULED RESULT LIST = 600 ;
    REMOVE SCHEDULED RESULT = 601 ;
    REMOVE SCHEDULED RESULT LIST = 602 ;
    SET USDM = 603;

// Repository      API
    GET REPOSITORY CONFIG = 700;
    SET REPOSITORY CONFIG = 701;
    RELOAD REPOSITORY = 702;

// DM Version 가
    GET DM VERSION = 800;

// USL 가
    GET USL = 900;
    USE USL = 901;
```

ozserver.properties

■ Daemon

{OZ_HOME}\conf\ozserver.properties

■ Servlet

{OZ_HOME}\WEB-INF\classes\ozserver.properties

가

ozserver.properties (Daemon Type Server)

```
#-----  
# Main configuration of ozserver/ozservlet  
#-----  
  
server.portnumber=  
path.oz.server.home=../  
  
path.license.file=%OZ_HOME%/license/ozlicense.xml  
path.xml.properties.file=%OZ_HOME%/conf/xml.properties  
path.log.properties.file=%OZ_HOME%/conf/log.properties  
path.securitypolicy.properties.file=%OZ_HOME%/conf/spmgr.properties  
path.connpool.properties.file=%OZ_HOME%/conf/db.properties  
path.cache.properties.file=%OZ_HOME%/conf/cachemngr.properties  
path.monitor.properties.file=%OZ_HOME%/conf/monitor.properties  
path.repository.properties.file=%OZ_HOME%/conf/repository.properties  
path.usl.properties.file=%OZ_HOME%/conf/uslmngr.properties  
path.schedule.properties.file=%OZ_HOME%/conf/srmngr.properties
```

```
path.sapclient.properties.file=%OZ_HOME%/conf/sap.properties
path.databind.properties.file=%OZ_HOME%/conf/databind.properties
path.ozservice.properties.file=%OZ_HOME%/conf/ozservice.properties
path.ozdbconfig.properties.file=%OZ_HOME%/conf/dbconfig.xml
path.ozudl.properties.file=%OZ_HOME%/conf/ozudl.properties
path.datasource.properties.file=%OZ_HOME%/conf/datasource.properties
```

ozserver.properties (Servlet Type Server)

```
#-----
# Main configuration of ozserver/ozservlet
#-----

path.oz.server.home=%OZ_RUNNING_PATH%

path.license.file=%OZ_HOME%/license/ozlicense.xml
path.xml.properties.file=%OZ_HOME%/conf/xml.properties
path.log.properties.file=%OZ_HOME%/conf/log.properties
path.securitypolicy.properties.file=%OZ_HOME%/conf/spmgr.properties
path.connpool.properties.file=%OZ_HOME%/conf/db.properties
path.cache.properties.file=%OZ_HOME%/conf/cachemngr.properties
path.monitor.properties.file=%OZ_HOME%/conf/monitor.properties
path.repository.properties.file=%OZ_HOME%/conf/repository.properties
path.usl.properties.file=%OZ_HOME%/conf/uslmngr.properties
path.schedule.properties.file=%OZ_HOME%/conf/srmngr.properties
path.sapclient.properties.file=%OZ_HOME%/conf/sap.properties
path.databind.properties.file=%OZ_HOME%/conf/databind.properties
path.ozservice.properties.file=%OZ_HOME%/conf/ozservice.properties
path.ozdbconfig.properties.file=%OZ_HOME%/conf/dbconfig.xml
path.ozudl.properties.file=%OZ_HOME%/conf/ozudl.properties
path.datasource.properties.file=%OZ_HOME%/conf/datasource.properties
```

- **%OZ_HOME%**
%OZ_HOME% 가
ozserver.properties path.oz.server.home 가
- **%OZ_RUNNING_PATH%**
%OZ_RUNNING_PATH%

가

"%OZ_RUNNING_PATH%"

가

bin

"%OZ_RUNNING_PATH%/.."

■ ozserver.properties

server.portnumber	가 TCP/IP . (:8003)
path.oz.server.home	. (가)
path.license.file	ozlicense.xml .
path.xml.properties.file	xml.properties .
path.log.properties.file	log.properties .
path.securitypolicy.properties.file	spmgr.properties .
path.connpool.properties.file	db.properties .
path.cache.properties.file	cachemngr.properties .
path.monitor.properties.file	monitor.properties .
path.repository.properties.file	repository.properties .
path.usl.properties.file	uslmngr.properties .
path.schedule.properties.file	srnmngr.properties .
path.sapclient.properties.file	sap.properties .
path.databind.properties.file	databind.properties .
path.clientinfo.properties.file	clientlist.xml .
path.ozservice.properties.file	ozservice.properties .
path.ozdbconfig.properties.file	dbconfig.xml .
path.ozudl.properties.file	ozudl.properties .
path.datasource.properties.file	datasource.properties .

ozservice.properties

■ Servlet

{OZ_HOME}\conf\ozservice.properties

- Post – SOAP DataModule
- Post – SOAP DataAction
- Get wsdI

ozservice.properties

```
#-----  
# Main configuration of ozservice  
#-----  
  
enable_ozserver=true  
enable_webservice=true
```

■ ozservice.properties

enable_ozserver	. (:true)

enable_webservice	. (:true) : .
--------------------------	----------------------

ozudl.properties

■ Servlet

{OZ_HOME}\conf\ozudl.propeties

: RDB
RDB
(UDS , Http)
.
가
.
: ozudl.properties "OZ_USER_DEFINED_LOG.Active"
>false"
.

ozservice.properties

```
#-----
# configuraion of OZ User Defined log
#-----

OZ_USER_DEFINED_LOG.Active=false
#OZ_USER_DEFINED_LOG.Class=

OZ_UDL_MONITOR.Active=false
#OZ_UDL_MONITOR.Class=
```

■ ozservice.properties

--	--

OZ_USER_DEFINED_LOG.Active	"true" , "false"
OZ_USER_DEFINED_LOG.Class	"OZ_USER_DEFINED_LOG.Active = true"
OZ_UDL_MONITOR.Active	"true" , "false"
OZ_UDL_MONITOR.Class	"OZ_UDL_MONITOR.Active = true"

repository.properties

■ Daemon/Servlet

{OZ_HOME}\conf\repository.properties

repository.properties

```
####
###   Repository Properties
###   Last Modified : Wed Oct 15 13:29:05 KST 2003
###
# RDB, BUILTIN, NONE
REPOSITORY_TYPE = RDB

# DB alias in /conf/db.properties to use repository
# note: ignored if REPOSITORY_TYPE is BUILTIN
REPOSITORY_DB_ALIAS = mssql_test

REPOSITORY_FILE_PATH = %OZ_HOME%/repository_files/
REPOSITORY_QUERY_MAXBACKUPINDEX = 5
REPOSITORY_QUERY_MAXFILESIZE = 1MB
REPOSITORY_QUERY_IMMEDIATEFLUSH = true

#BackUp History for None Type
#REPOSITORY_NONE_BACKUP=false
#REPOSITORY_NONE_BACKUP_PATH=%OZ_HOME%/repository_files_bak/
#REPOSITORY_NONE_BACKUP_ITEM_COUNT=10
#REPOSITORY_NONE_BACKUP_ITEM_VALIDDDAYS=0

#Item file save number per a directory
```

```
#Default value is 500
#The value must be lager than 0
REPOSITORY_ITEM_NUMBER_PER_DIRECTORY = 500

#History item's valid days ( The history item over the value of day is deleted, when
check in the item )
#Default value is 30
#The 0 value is disable.
REPOSITORY_HISTORY_ITEM_VALID_DAYS = 10

#Temp Directory
REPOSITORY_TEMP_DIRECTORY=%OZ_HOME%/temp

#Get Repository Items (Get Method)
#REPOSITORY_ACCESS_BY_HTTP_GET=false
#REPOSITORY_HTTP_GET_CHECK_SESSION=false
```

■ repository.properties

TYPE	.
	RDB 가 DB
	BULTIN DB (Hypersonic SQL DB)
	NONE
FILE_PATH	.
REPOSITORY_NONE_BACK UP	None
REPOSITORY_NONE_BACK UP_PATH	None
REPOSITORY_NONE_BACK UP_ITEM_COUNT	None
REPOSITORY_NONE_BACK UP_ITEM_VALIDDAYS	None
ITEM_NUMBER_PER_DIRECTOR Y	.
HISTORY_ITEM_VALID_D AYS	.
QUERY_MAXBACKUPINDEX	BULTIN DB

QUERY_MAXFILESIZE	BUILTIN DB
QUERY_IMMEDIATEFLUSH	BUILTIN DB
DB_ALIAS	db.properties Alias가 DB Repository
REPOSITORY_TEMP_DIRECTORY	(* .czo, *.obj_stream.zip)
REPOSITORY_ACCESS_BY_HTTP_GET	Get 가
REPOSITORY_HTTP_GET_CHECK_SESSION	Get 가 : true HTTP 가

REPOSITORY_TYPE 'NONE'

- 가 , 'admin' 'guest'
- Check-In Check-Out , Roll-back
- OS가 Windows

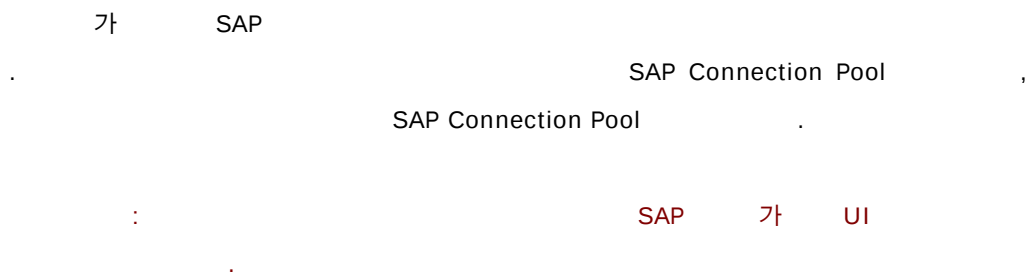
REPOSITORY_TYPE 'RDB'

- db.properties 'vender=User' RDB User
- RDB가 MS-SQL , MS-SQL ()

sap.properties

■ Daemon/Servlet

{OZ_HOME}\conf\sap.properties



sap.properties

```
###
###   Configuraion of SAP Connection Manager
###

### TYPE1
#<alias>.client=
#<alias>.user=
#<alias>.password=
#<alias>.language=
#<alias>.host=
#<alias>.sysno=

### TYPE2
#<alias>.client=
#<alias>.user=
```

```
#<alias>.password=
#<alias>.language=
#<alias>.host=
#<alias>.r3name=
#<alias>.group=

### TYPE3
#<alias>.client=
#<alias>.user=
#<alias>.password=
#<alias>.language=
#<alias>.host=
#<alias>.sysno=
#<alias>.gwhost=
#<alias>.gwserv=

### TYPE4
#<alias>.gwhost=
#<alias>.gwserv=
#<alias>.tpname=

### TYPE5
#<alias>.gwhost
#<alias>.gwserv
#<alias>.tpname
#<alias>.tphost
```

■ sap.properties

<alias>	SAP .
<alias>.client	SAP .
<alias>.user	SAP .
<alias>.password	SAP .
<alias>.language	SAP .
<alias>.host	SAP .
<alias>.sysno	SAP .
<alias>.r3name	SAP .
<alias>.group	.
<alias>.gwhost	SAP .

<alias>.gwserv	SAP
<alias>.tpname	JCO ID
<alias>.tphost	

```

:
: sap.properties user, password ozencrypted.bat
:
가 "
```

spmgr.properties

■ Daemon/Servlet

{OZ_HOME}\conf\spmgr.propeties

spmgr.properties

```
# Secure Level [ high / middle / low ]
# default : low
client_message_secure_level = low

user.multilogin= true
#user.sessionTimeout = 10
allow_service_qd=false
enable_service_repository=false
allow_service_em=false
allow_service_rm=false
allow_service_rv=false
allow_service_av=false
allow_service_api=false
allow_service_sh=false
allow_service_ps=false
```

■ spmgr.properties

multilogin	

sessionTimeout	: (user.multilogin 'false') 가 .	
client_message_security_level	: 가 .	
	high	'
	middle	Exception Name
	low	'
allow_service_qd	ODI 가 : 가	
enable_service_repository		
allow_service_em	Enterprise Manager	가 .
allow_service_rm	Repository Manager	가 .
allow_service_rv	OZR	가 .
allow_service_av	OZA	가 .
allow_service_api	API	가 .
allow_service_sh	Scheduler	가 .
allow_service_ps	Push Server	가 .

: enable_service_repository

- enable_service_repository=true

		가	가
allow_service_qd	true	O	O
	false	O	X

allow_service_rv	true	O	O
	false	O	X
allow_service_av	true	O	O
	false	O	X

allow_service_qd, allow_service_rv, allow_service_av false
, enable_service_repository true
가 .

- enable_service_repository=false

		가	가
allow_service_qd	true	X	X
	false	X	X
allow_service_rv	true	X	X
	false	X	X
allow_service_av	true	X	X
	false	X	X

enable_service_repository false , allow_service_qd,
allow_service_rv, allow_service_av true 가
.

srmngr.properties

■ Daemon/Servlet

{OZ_HOME}\conf\srmngr.properties

SDM

SDM

.

srmngr.properties

```
# default : false
use_scheduled_data=true

# The path that scheduled data modules are stored.
# default : %OZ_HOME%/scheduled_data
datamodule_path=%OZ_HOME%/scheduled_data
```

■ srmngr.properties

	SDM SDM
	.
use_scheduled_data	"true" "datamodule_path"
	SDM
	SDM "Fetch Type"
	"BATCH" , "Fecth Type"
	"CONCURRENT"
	.
datamodule_path	SDM
	.

uslmngr.properties

- **Daemon/Servlet**
{OZ_HOME}\conf\uslmngr.properties

User Security Logic

.

uslmngr.properties

```
# oz3.0 USL configuration

#
# set whether use user security logic or not globally
#
UseUserSecurityLogicVer30 = true

OZDefault_SERVER=oz.usl.OZUSLServerSample
OZDefault_CLIENT=oz.usl.OZUSLClientSample
```

- **uslmngr.properties**

UseUserSecurityLogicVer30	User Security Logic .
OZDefault_SERVER	USL .
OZDefault_CLIENT	USL .

: User Security Logic

.

xml.properties

■ Daemon/Servlet

{OZ_HOME}\conf\xml.properties

xml

.

xml.properties

```
-----
# Configuration of XML parser used by OZ Server
#-----

#SYSTEM_DEFAULT Setting
sax.parser=SUN
dom.parser=SUN

xpath.parser=XERCES
#xpath.parser=DOM4J

#####
#
# parser List
# - followings are able to used in SAX and DOM
# -----
#
# SUN          : parser.jar
# CRIMSON      : crimson.jar
# XERCES       : xerces.jar
# SYSTEM_DEFAULT : javax.xml.parsers.DocumentBuilderFactory
.
```

■ xml.properties

sax.parser	SUN, CRIMSON, XERCES, SYSTEM_DEFAULT
dom.parser	XML SUN, CRIMSON, XERCES, SYSTEM_DEFAULT
xpath.parser	XPath (: XERCES) XERCES, DOM4J DOM4J

- jar
SUN 가 SUN
가 WAS CRIMSON , SUN
가 CRIMSON
IBM JVM XERCES
XML XML , Entity가 , SUN
Entity 가 dom.parser
CRIMSON XERCES
• SYSTEM_DEFAULT JDK javax.xml.parsers.
DocumentBuilderFactory

Shell Command

Unix Command Line

■ Windows

Windows <OZSERVER_HOME>\bin\ozcntrl.bat

■ Unix

Unix <OZSERVER_HOME>/bin/ozcntrl.sh

■

ozcntrl [-command] [-arg_name:arg_value...] [-option...]

■

- Command

ozcntrl -version -ip:127.0.0.1 -port:8001 -id:admin -pwd:admin

-

ozcntrl -testsdm
ozcntrl

ozcntrl

-

ozcntrl -regsrv
ozcntrl -regsrv ozashell.properties
(url or ip/port, id, password) 가
, 가 command Line -ip, -port
가

(Command)

ozcntrl -help

Arguments

■ 가 Source

가 Source

- Source A
ozcntrl -regsrv (ozashell.properties.
ID/Password)
- Source B
Command argument
- Source C
Interactive User Input

■ 가 Type

Source

가 Type

- Type 1
Source B → Source A → Source C
Server Address 가 .
- Type 2
Source B → Source C
Server Address 가 .
) . User Input Parameter
- Type 3
Source B 가 .
) -xml

■

url	HTTP-Server (Servlet) URL	-url:http://127.0.0.1:8080/oz/server	1
ip	TCP-Server (Daemon) Address	-ip:127.0.0.1	1
port	TCP-Server (Daemon) Port	-port:8003	1
id	ID	-id:admin	1
pwd	Password	-pwd:admin	1
fn	File Name	-fn:d:/test.xml	2
rn	Report Name	-rn:/susb/report1	2
gn	report Group Name	-gn:/susb	2
pm	ParaMeters	-pm:arg1=ttt;arg2=123 -pm:default (default parameter)	2
usl	USL (repository.dn)	-rpt.dn.- url:http://127.0.0.1:8080/oz/server-usl	

Commands



Command 가 .

[] Type 1 .

{ } Type 2 .

() Type 3 .



➤ -help

: ozcntrl -help

➤ -regsrv

: ozcntrl -regsrv

➤ -start

```

: ozcntrl -start {configuration_file_name}
configuration_file_name
    ozserver.properties
)
ozcntrl -start
ozcntrl -start d:/server2.properties
    
```

➤ -stop

```

(
)
: ozcntrl -stop [SERVER-LOCATION]
SERVER-LOCATION
-ip : ip_address -port:port_number
)
ozcntrl -stop
ozcntrl -stop -ip:127.0.0.1 -port:8003
    
```

➤ -version

```

가
가
: ozcntrl -version[SERVER-INFO]
)
ozcntrl -version
ozcntrl -version -url:http://127.0.0.1:8080/oz/server
ozcntrl -version -ip:127.0.0.1 -port:8080 -id:admin
-pwd:admin
    
```

➤ -local.version

```

-version
ozcntrl ozsfw50.jar
    
```

```

        : ozcntrl -local.version
    )
    ozcntrl -local.version

➤ -testsdm
SDM
    : ozcntrl -testsdm {-fn:sdm_file_name} (-xml)
-fn :      sdm
xml :      XML
    ./sdmtest.xml
)
    ozcntrl -testsdm
    ozcntrl -testsdm -fn:/temp/report1.sdm -xml

```

■ Repository Manager

```

➤ -repository.getcfg
Repository Manager
    : ozcntrl -repository.getcfg [SERVER-LOCATION]
)
    ozcntrl -rpt.getcfg
    ozcntrl -rpt.getcfg -url:http://127.0.0.1:8080/oz/server

➤ -repository.dn
Repository
    : ozcntrl -repository.dn [SERVER-INFO]
)
    ozcntrl -rpt.dn
    ozcntrl -rpt.dn -url:http://127.0.0.1:8080/oz/server
        : USL
            USL Server.class      USL Client.class가 Classpath
) ozcntrl -rpt.dn -url:http://127.0.0.1:8080/oz/server-usl

```

■ Cache Manager

```

➤ -cache.getcfg

```

```

: ozcntl -cache.getcfg [SERVER-INFO]
)
ozcntl -cache.getcfg
ozcntl -cache.getcfg -url:http://127.0.0.1:8080/oz/server

```

■ Connection Pool

➤ -cp.status

```

: ozcntrl -cp.status [SERVER-INFO]
)
ozcntrl -cp.status
ozcntrl -cp.status -ip:127.0.0.1 -port:8003
ozcntrl -cp.status -url:http://127.0.0.1:8080/oz/server

```

■ Log Manager

➤ -log.getcfg

```

: ozcntrl -log.getcfg [SERVER-INFO]
)
ozcntrl -log.getcfg
ozcntrl -log.getcfg -ip:127.0.0.1 -port:8003
ozcntrl -log.getcfg -url:http://127.0.0.1:8080/oz/server

```

➤ -log.dn

```

: ozcntrl -log.dn [SERVER-INFO] {-fn:filename}
filename :
)
ozcntrl -log.dn
ozcntrl -log.dn -lp:INFO
ozcntrl -log.dn -url:http://127.0.0.1:8080/oz/server

```

■ Monitor

➤ -mntr.dn

```
        : ozcntrl -mntr.dn [SERVER-INFO] {-fn:filename}
filename :
    )
    ozcntrl -mntr.dn
    ozcntrl -mntr.dn -fn:d:/monitor.log
    ozcntrl -mntr.dn -url:http://127.0.0.1:8080/oz/server
```

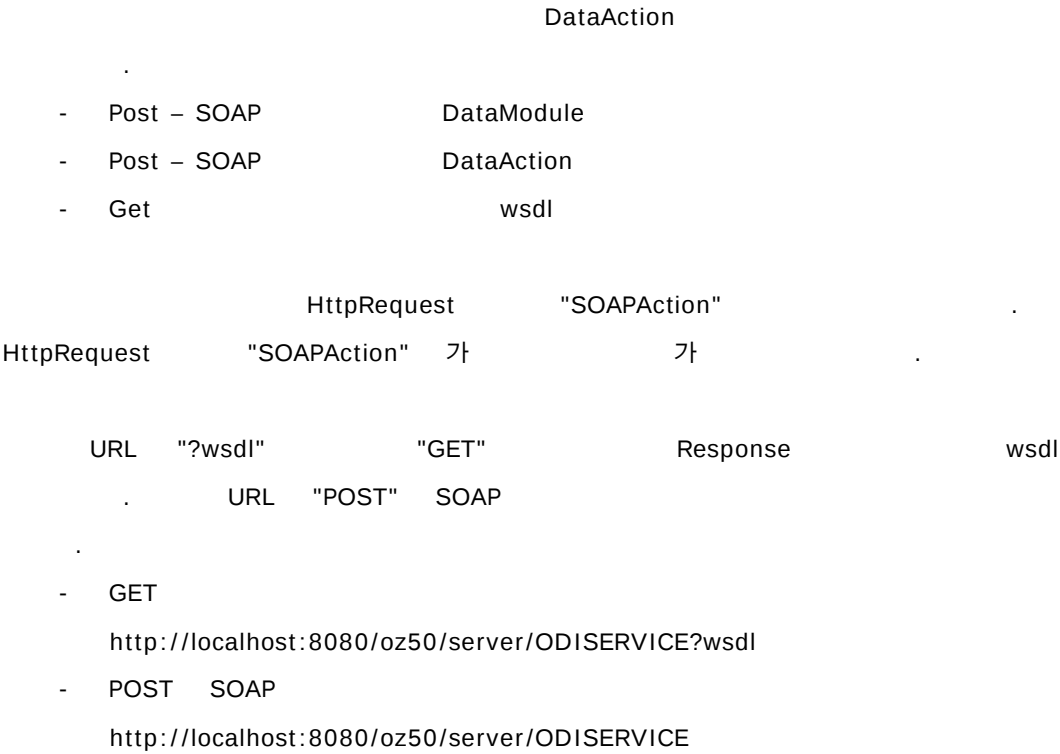
■ Builtin DB

```
➤ -builtin.repair
query.log          db_file.script
        : ozcntrl -builtin.repair [SERVER-INFO]
        )
        ozcntrl -builtin.repair
        ozcntrl -builtin.repair -ip:127.0.0.1 -port:8003
        ozcntrl -builtin.repair -url:http://127.0.0.1:8080/oz/server
```

■ DataBind

```
➤ -databind.getcfg
DataBind Manager
        "ConcurrentFetchSize" "ConcurrentFirstRow"
        .
        : ozcntrl -databind.getcfg [SERVER-INFO]
filename :
    )
    ozcntrl -databind.getcfg
    ozcntrl -databind.getcfg -ip:127.0.0.1 -port:8003
    ozcntrl -databind.getcfg -url:http://127.0.0.1:8080/oz/server
```





■

ozservice.properties "enable_webservice"

"true"

```
#-----
# Main configuration of ozservice
#-----

enable_ozserver=true
enable_webservice=true
#
```

■

(soap2_3_1.jar, mail.jar, activation.jar)

(ozsfw50.jar)

■

license

: 가

"TRUE"

```
...
USE-WEBSERVICE="TRUE"
...
```

■

■

가

■ OZServlet

- preProcess

Prototype	public void preProcess(javax.servlet.http.HttpServletRequest request, OZAttribute[] attr) throws OZWebServiceException		
Definition	oz.server.OZServlet SOAP Header Exception	preProcess 가 SOAP Fault	Overwrite . preProcess 가
Argument	<i>request</i>		

	<i>Attr</i>	SOAP	Header
		OZAttribute	
Exception	<i>OZWebServiceException</i>		

■ OZAttribute

-	getName
Prototype	public String getName()
Definition	OZAttribute 가 .
-	getValue
Prototype	public String getValue()
Definition	OZAttribute 가 .

■ ODIService

-	requestDAC2
Prototype	requestDAC2(data)
Definition	DataAction : 가 . " < FAULT > "
Argument	<i>data</i> DataAction

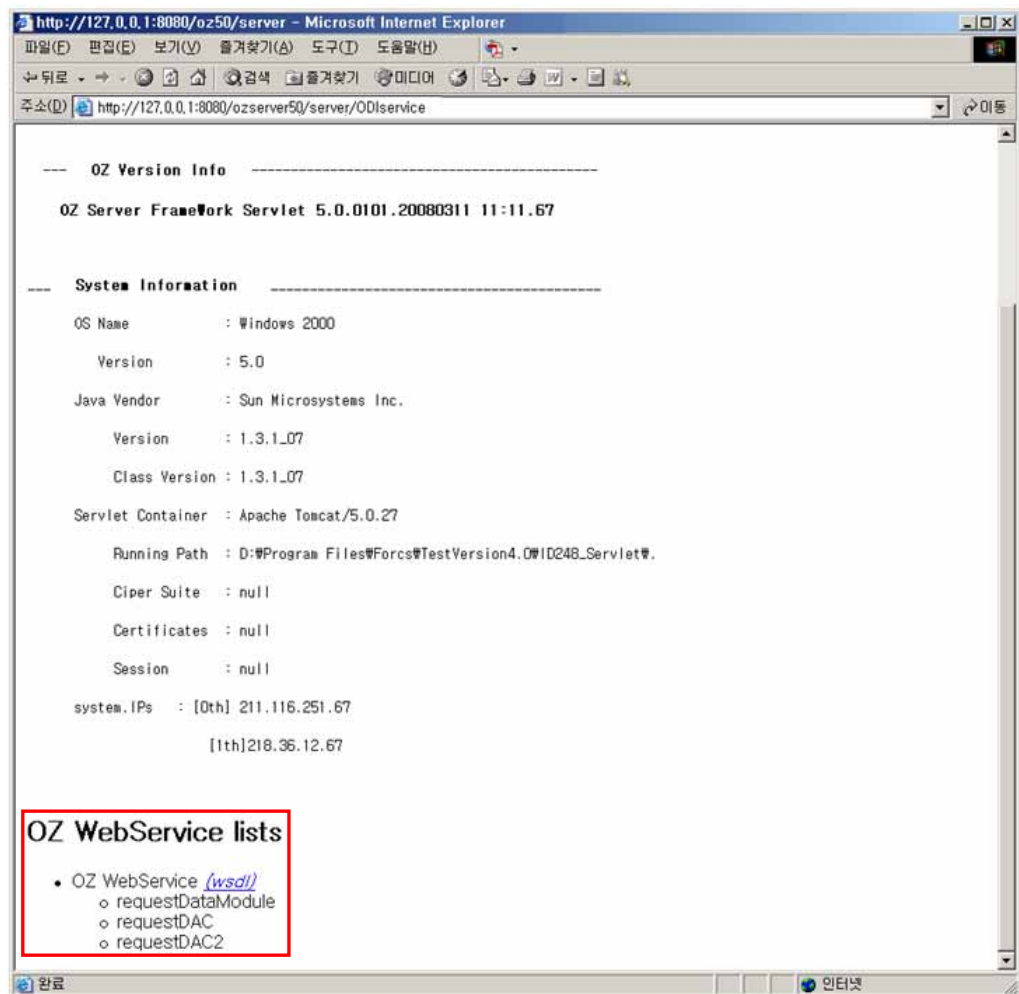
가 ODI DataAction .

➤ "ozservice.properties" .

```
#-----  
# Main configuration of ozservice  
#-----  
  
enable_ozserver=true  
enable_webservice=true
```

➤ "USE-WEBSERVICE" "TRUE"
가 license .

➤ WAS ODIService URL
ODIService가 . (URL
"http://127.0.0.1:8080/ozserver50/server" , ODIService URL "
http://127.0.0.1:8080/ozserver50/server/ODIService" .)



: 가 ODIService
Operation .

➤ "OZAxisDataAction2Client.java"

package sample;

```
import java.io.ByteArrayOutputStream;
import java.io.FileInputStream;

import javax.xml.rpc.ServiceException;
import javax.xml.rpc.Stub;

import sun.misc.BASE64Encoder;

import com.forcs.ws.ODIService;
import com.forcs.ws.ODIServiceServiceLocator;
import com.forcs.ws.meta.Const_DAC;
import com.forcs.ws.meta.Const_FIELD;
import com.forcs.ws.meta.DataActionInfo;
import com.forcs.ws.meta.OZData;
import com.forcs.ws.meta.OZDataSet;
import com.forcs.ws.meta.Param;
import com.forcs.ws.meta.Record;

public class OZAxisDataAction2Client {

    public static final String _END_POINT_ADDRESS =
"http://127.0.0.1:8080/oz50/server/ODIService";
    public static void main(String[] args) {
        System.out.println("Endpoint address = " + _END_POINT_ADDRESS);
        try {
            ODIService stub = (ODIService)createProxy();

            OZData data = new OZData();
            data.setODINAME("DACTest.odi");
            data.setCATEGORY("/REQ/258/");

            DataActionInfo[] info = new DataActionInfo[1];
            info[0] = new DataActionInfo();
            info[0].setSETNAME("DataSet");
            info[0].setType(Const_DAC.Insert);

            Param[] sources = new Param[7];
            sources[0] = new Param();
            sources[0].setName("name");
            sources[0].setType(Const_FIELD.VARCHAR);
            sources[0].setValue("Sample1");

            sources[1] = new Param();
```

```
sources[1].setName("address");
sources[1].setType(Const_FIELD.VARCHAR);
sources[1].setValue("Sample1");

sources[2] = new Param();
sources[2].setName("birthday");
sources[2].setType(Const_FIELD.DATE);
sources[2].setValue("1980-09-02");

sources[3] = new Param();
sources[3].setName("job");
sources[3].setType(Const_FIELD.VARCHAR);
sources[3].setValue("Sample1");

sources[4] = new Param();
sources[4].setName("age");
sources[4].setType(Const_FIELD.INTEGER);
sources[4].setValue("1001");

sources[5] = new Param();
sources[5].setName("picture");
sources[5].setType(Const_FIELD.BINARY);

FileInputStream fis = new FileInputStream("me.jpg");
ByteArrayOutputStream baos = new
ByteArrayOutputStream();
byte[] buffer = new byte[2048];
int len =0;
while((len=fis.read(buffer)) != -1) {
    baos.write(buffer, 0 , len);
}
BASE64Encoder encoder = new BASE64Encoder();

sources[5].setValue(encoder.encode(baos.toByteArray()));
fis.close();
baos.close();

sources[6] = new Param();
sources[6].setName("picture_path");
sources[6].setType(Const_FIELD.VARCHAR);
sources[6].setValue("Image1.jpg");

info[0].setSOURCE(sources);
```

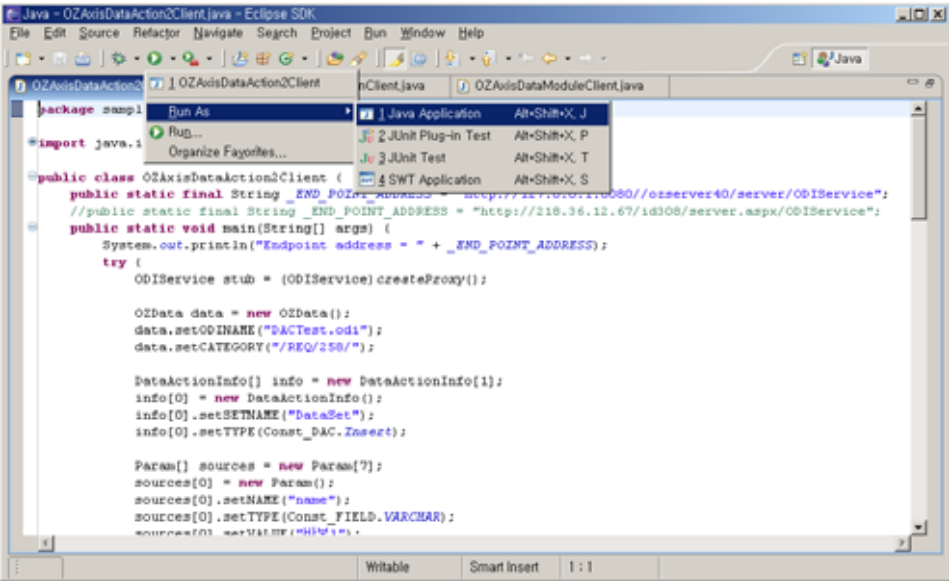
```
        data.setOZDATAACTIONS(info);

        //DataAction

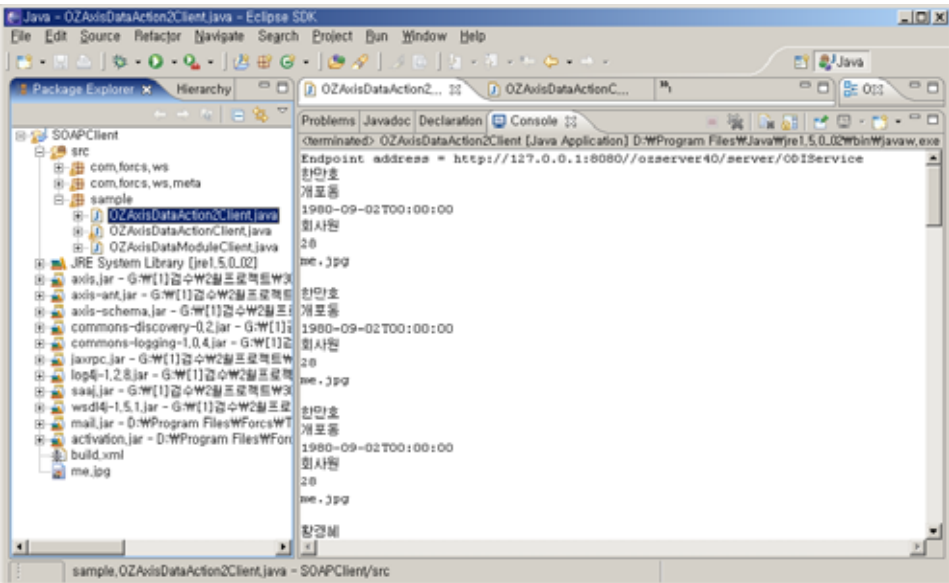
        OZData result = (OZData)stub.requestDAC2(data);
        OZDataSet[] datas = result.getOZDATARESULT();
        for(int i=0 ; i < datas.length ; i++) {
            Record[] record = datas[i].getRECORDS();
            for(int j=0 ; j < record.length ; j++) {
                String[] cols = record[j].getCOLS();
                for(int k=0 ; k < cols.length ; k++) {
                    if(cols[k].length() >100) {
                        continue;
                    }
                    System.out.println(cols[k]);
                }
                System.out.println();
            }
        }
    } catch (Exception ex) {
        ex.printStackTrace();
    }
}

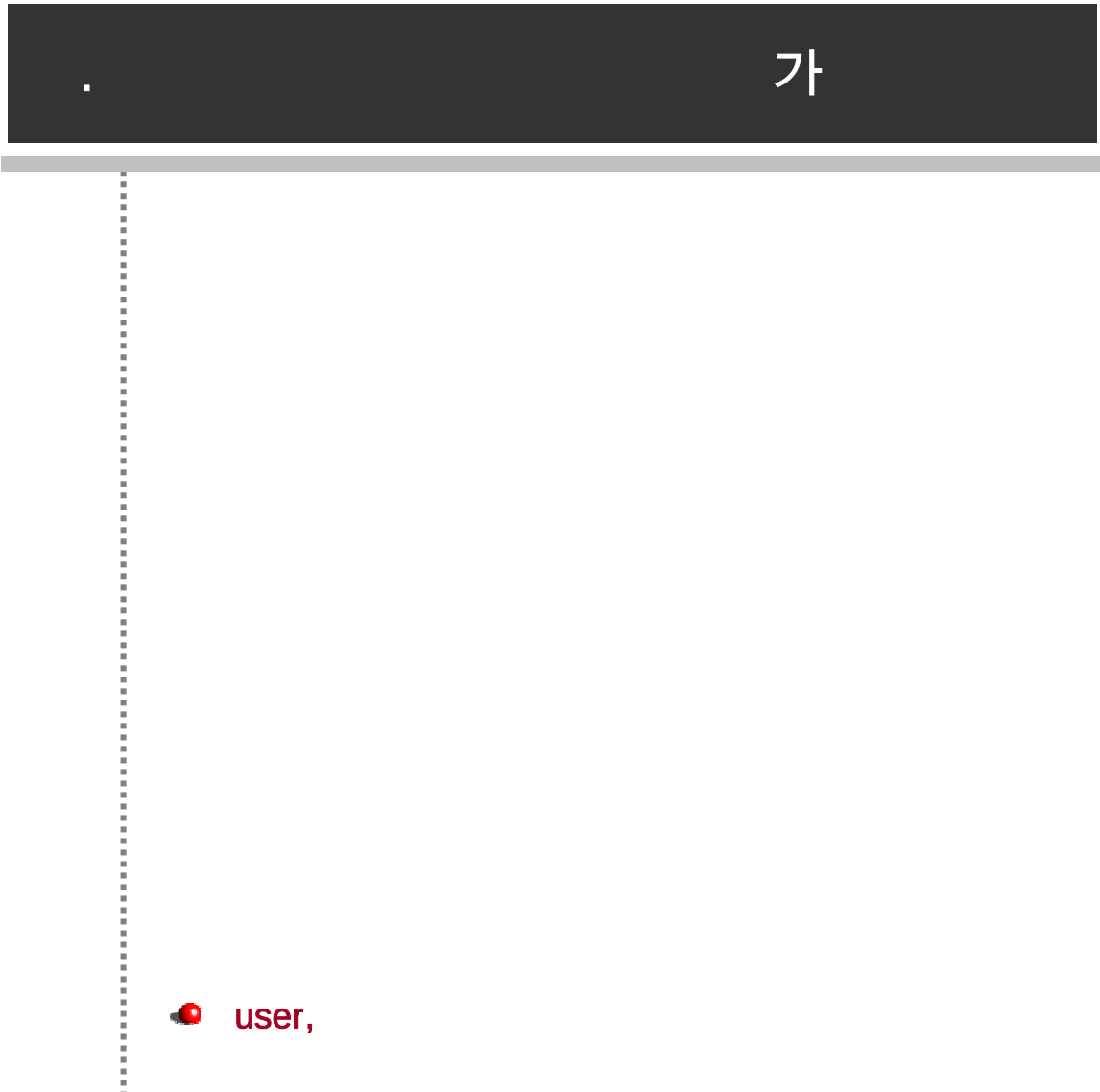
private static Stub createProxy() throws ServiceException{
    ODIServiceServiceLocator impl = new ODIServiceServiceLocator();
    impl.setODIServiceEndpointAddress(_END_POINT_ADDRESS);
    return (Stub)impl.getODIService();
}
}
```

➤ OZAxisDataAction2Client.java Eclipse



➤ DataAction





user,

```

                                SAP                user
                                ozencrypted.bat
bin                                "ozencrypted.bat"

```

■

```
ozencrypted.bat <db_alias_name> <name> <value> [<file_path>]
```

```

) DB                ozcar  DB  user가 admin
  ozencrypted.bat ozcar user admin

```

■ **SAP**

```
ozencrypted.bat <sap_alias_name> <property_name> <property_value>
```

```

) SAP                sap1    user가 user1
  ozencrypted.bat sap1 user user1

```

ozencrypted.bat

```
ozencrypted.bat      JRE                user
```

```

@echo off
rem -----
rem
rem          OZ ENCRPTION (OZA SHELL)
rem
rem This script file written and tested under Windows 2000
rem
rem User should set following variables:
rem
rem JAVA_HOME      - Determines the version of Java used to start
rem                  OZ Server. This variable must point to the
rem                  root directory of a JDK or JRE installation.

```

```

rem          for an up-to-date list of supported JVMs your platform.
rem USER_CLASSPATH - Use this variable to append jar files or directories to
rem                  the OZLIB.
rem MAX_MEMORY     - Maximum memory used by OZ Server. (The unit is mega-byte.)
rem MIN_MEMORY     - Minimum memory used by OZ Server. (The unit is mega-byte.)
rem
rem -----
rem -----
rem   Set user-defined variables
rem -----

set JAVA_HOME=..\..\JRE
set MAX_MEMORY=256M
set MIN_MEMORY=128M
set JAVA_OPTION=-Xms%MIN_MEMORY% -Xmx%MAX_MEMORY%

set OZSERVER_HOME=..
set USER_CLASSPATH=%OZSERVER_HOME%\uds\
set OZLIBALL=%OZSERVER_HOME%\lib
set OZLIB=%OZLIBALL%\ozsfw50.jar;%OZSERVER_HOME%\conf\

set JAVA_OPTION=

%JAVA_HOME%\bin\java %JAVA_OPTION% -cp %OZLIB% oz.framework.db.Auth %1 %2 %3

```

■

-

db.properties user, password .

- db.properties user (DB
ozcar DB user가 admin)

```

C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozencrypt.bat ozcar user admin
encrypt property 'ozcar.user' has value 'admin'
-> encrypted value :
ozcar.user_encrypted=GdKcQdRdFbGgGaKaMaPaLa

```

- db.properties password (DB
ozcar DB password가 admin)

```
C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozen
rypted.bat ozcar password admin
encrypt property 'ozcar.password' has value 'admin'
-> encrypted value :
ozcar.password_encrypted=GdKcQdRdFbGgGaKaMaPaLa
```

- db.properties user (DB ozcar
DB user가 admin)

```
C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozen
rypted.bat ozcar user admin C:\Program Files\FORCS\OZ XStud
io 5.0\OZ Server 5.0\conf\db.properties
encrypt property 'ozcar.user' has value 'admin'
-> encrypted value :
ozcar.user_encrypted=GdKcQdRdFbGgGaKaMaPaLa
```

- db.properties password (DB
ozcar DB password가 admin)

```
C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozen
rypted.bat ozcar password admin C:\Program Files\FORCS\OZ X
Studio 5.0\OZ Server 5.0\conf\db.properties
encrypt property 'ozcar.password' has value 'admin'
-> encrypted value :
ozcar.password_encrypted=GdKcQdRdFbGgGaKaMaPaLa
```

- SAP

sap.properties user, password .

- user (SAP sap1 user가 user1)

```
C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozen
rypted.bat sap1 user user1
encrypt property 'sap1.user' has value 'user1'
-> encrypted value :
sap1.user_encrypted=ScPdRcRgFgHbEbJaJbHf
```

- password (SAP sap1 password가 user1)

```
C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server 5.0\bin>ozen
rypted.bat sap1 password user1
encrypt property 'sap1.password' has value 'user1'
-> encrypted value :
sap1.password_encrypted=ScPdRcRgFgHbEbJaJbHf
```