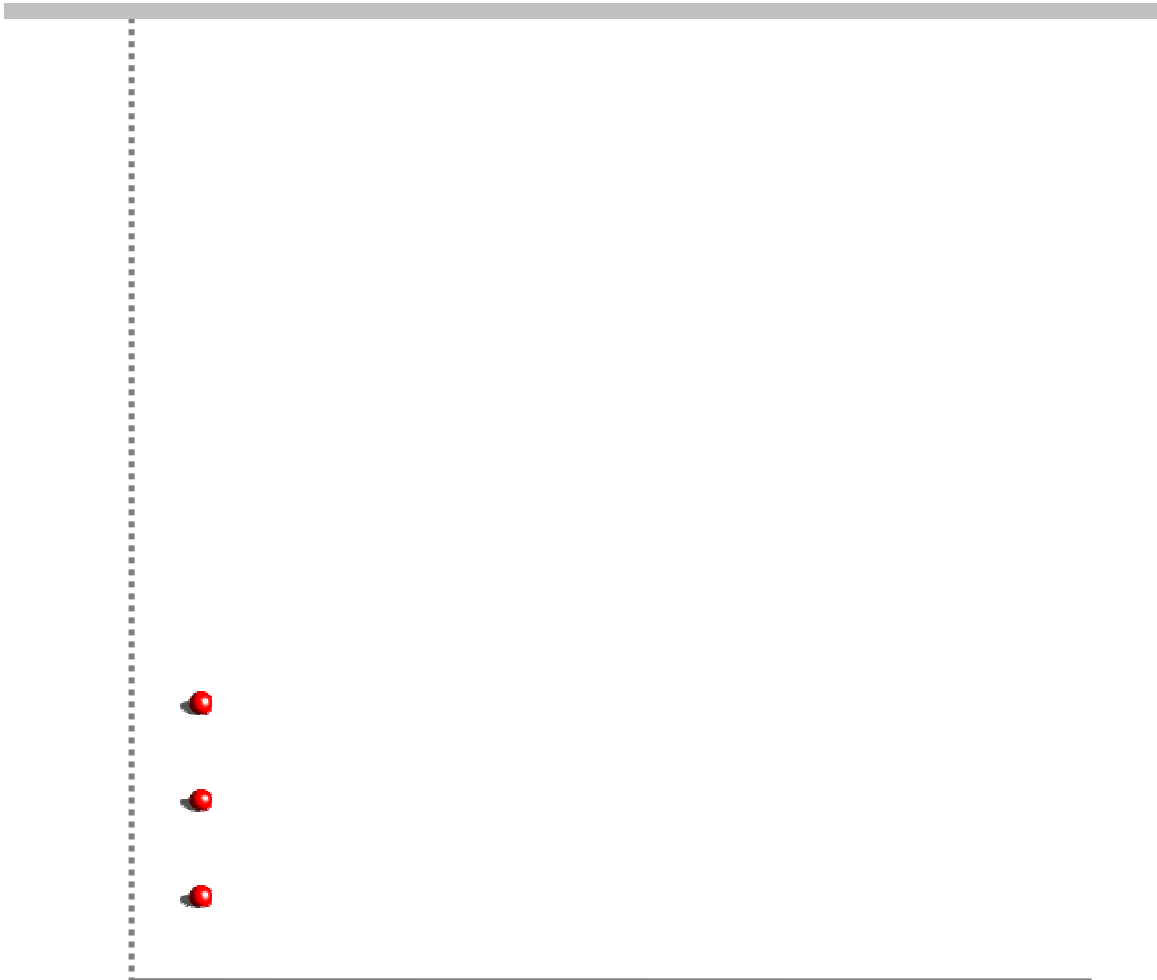
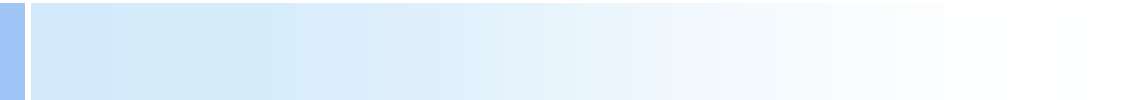
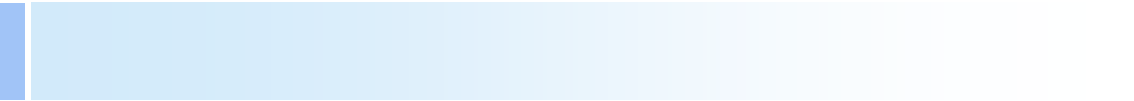


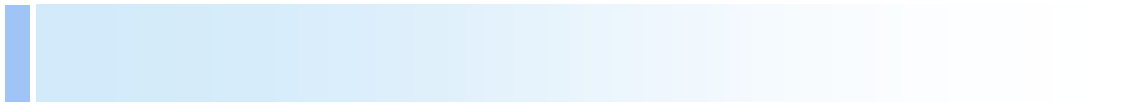
•	3
.....	4
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•	7
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.....	11
•	13
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clientlist.xml	47
databind.properties	51
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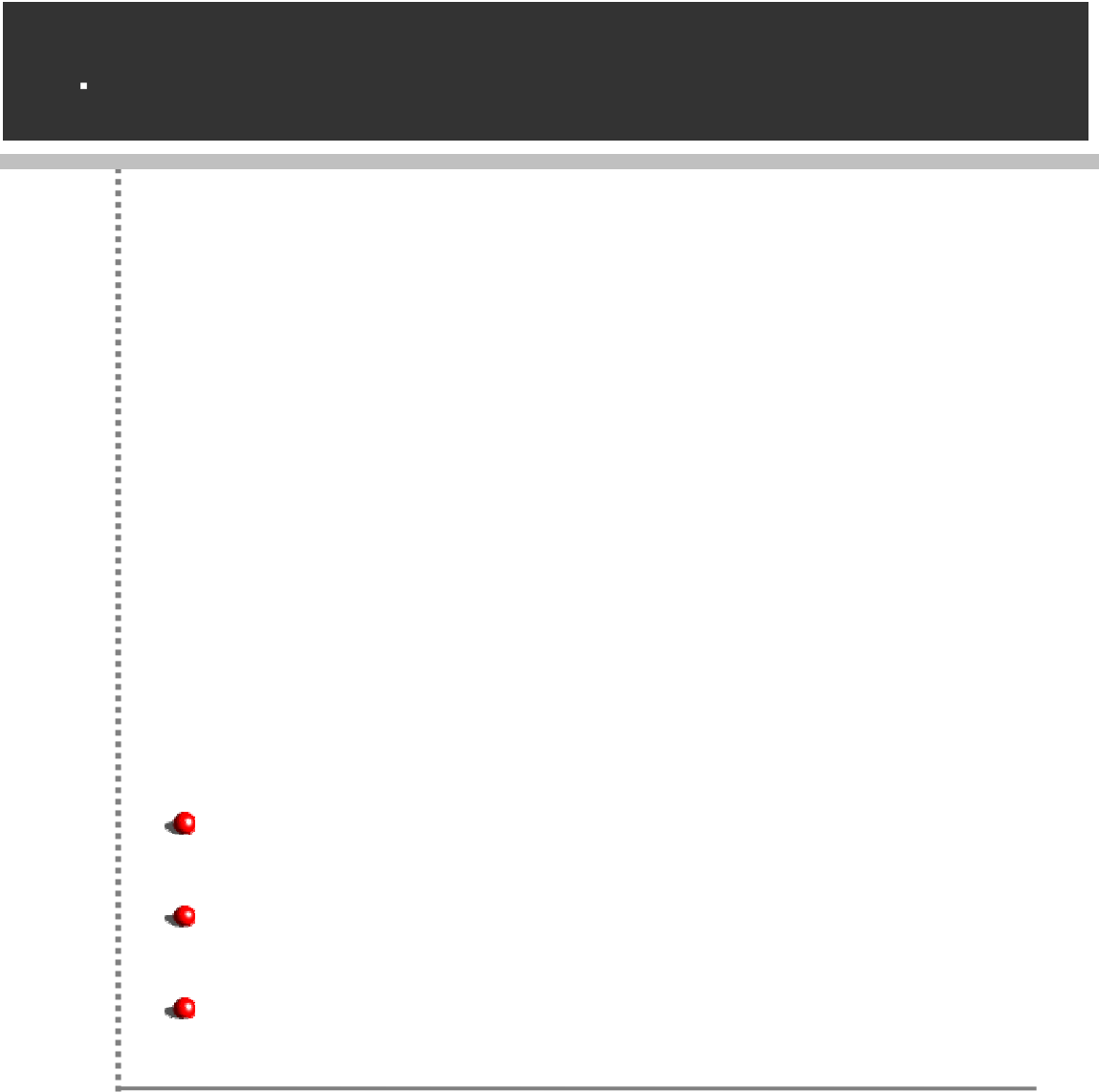
Shell Command

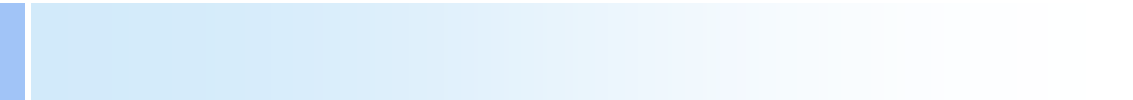
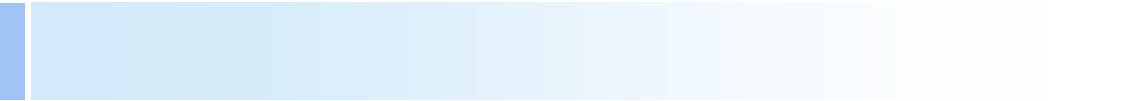
Shell Command



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

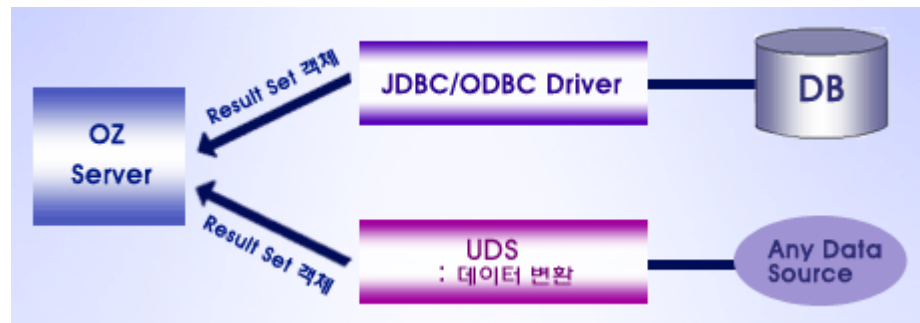
■

■

DB Pooling, , , , /

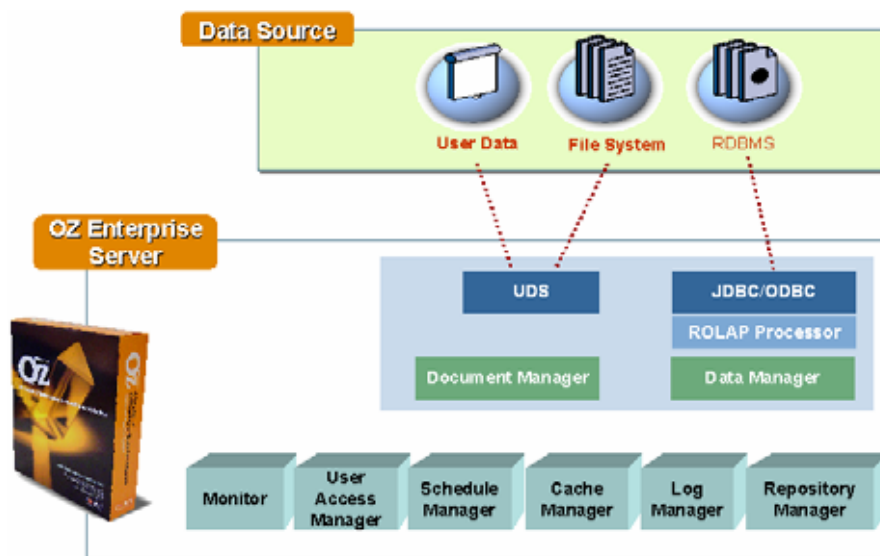
가
(Concurrent Mode) ,

CGI , Non-DB
UDS(User Data Store) .
: UDS(User Data Store)
JDBC ODBC Non-DB
UDS(User Data Store) . UDS
XML, EJB, Legacy Data

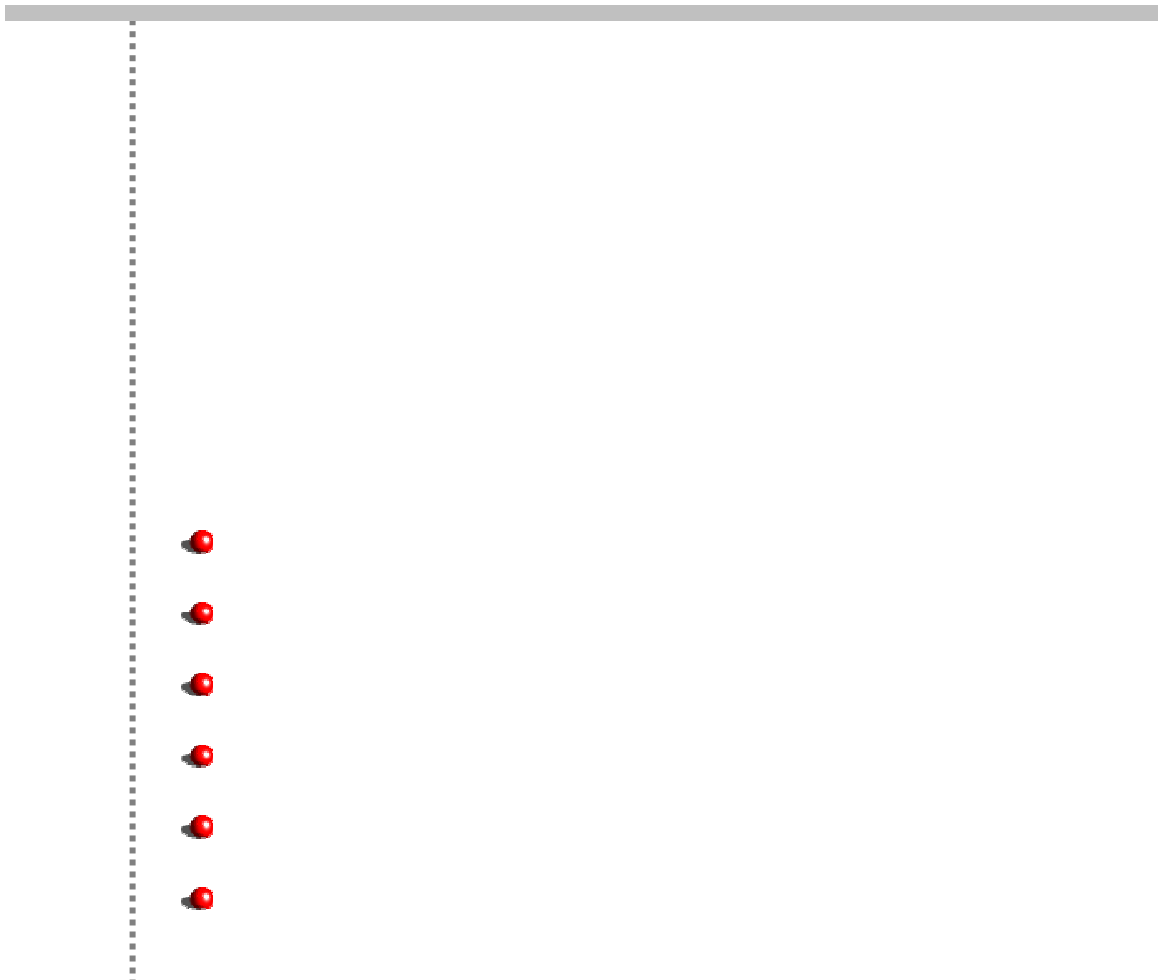


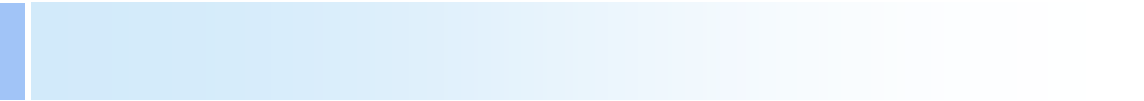
가

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) 1.1.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

- JRE : JRE
JRE 1.1.X JDBC 1.0 BLOB, CLOB Type , XML-DTD Store
JRE 1.2 JDBC . JDBC 1.0
, 가 JDBC 1.0 .
- JRE 1.2. ~ JRE 1.3.X
, 1.1.X JDBC .
JDBC 2.0 , 가 JDBC 2.0 .
- JRE 1.4
JRE 1.4 API(URL Type, Update Methods) . JRE 1.4

JDBC
가 JDBC 3.0 , 가 JDBC 2.0
.

ozcntrl.bat / ozcntrl.sh

- **ozcntrl.bat**

FORCS Co., LTD


```

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%\ozsfw40.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%\parser.jar
set OZLIB=%OZLIB%; %OZLIBALL%\xerces.jar
set OZLIB=%OZLIB%; %OZLIBALL%\crimson.jar

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

rem -----
rem      Repository File System 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%; %OZLIBALL%\classes12.zip

rem -----
rem      JDBC Driver for Mysql (3.0.14)
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\mysql.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%; %OZLIBALL%\ifxjdbc.jar
```

```
rem -----
rem   JDBC Driver for Sybase
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\jconn2.jar

rem -----
rem   JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%; %OZLIBALL%\jdbc2.jar
set OZLIB=%OZLIB%; %OZLIBALL%\msbase.jar
set OZLIB=%OZLIB%; %OZLIBALL%\msutil.jar
set OZLIB=%OZLIB%; %OZLIBALL%\mssqlserver.jar

rem -----
rem   JDBC Driver for IBM DB2
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\db2java.zip
set OZLIB=%OZLIB%; %OZLIBALL%\db2jcc.jar
set OZLIB=%OZLIB%; %OZLIBALL%\db2jcc_i_cense_cisuz.jar
set OZLIB=%OZLIB%; %OZLIBALL%\db2jcc_i_cense_cu.jar

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

rem -----
rem   JDBC Driver for SAP
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\sapjco.jar

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

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%
```

```

#!/bin/sh
#-----
#
#           OZ Control .
#
# 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
#                  recommended when running OZ Server.
#
#-----
# -----
#   Set user-defined variables
# -----
#
JAVA_HOME=../jre
USER_CLASSPATH=
MAX_MEMORY=256
MIN_MEMORY=128
JAVA_OPTIONS=-hotspot

OZSERVER_HOME=..
OZLIB=. : $OZSERVER_HOME/conf
OZLIB=$OZLIB: $OZSERVER_HOME/lib/ozsfw40.jar

# -----
#           for User Data Set classes
# -----
OZLIB=$OZLIB: $OZSERVER_HOME/lib/ozusl.jar
OZLIB=$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: $OZSERVER_HOME/lib/jaxp.jar
OZLIB=$OZLIB: $OZSERVER_HOME/lib/parser.jar
OZLIB=$OZLIB: $OZSERVER_HOME/lib/crimson.jar
OZLIB=$OZLIB: $OZSERVER_HOME/lib/xerces.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: $OZSERVER_HOME/lib/jjdbc.jar
OZLIB=$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/ij.jar
```

```
# -----
#   JDBC Driver for Informix
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/Universal Driver/ixjdbc.jar

# -----
#   JDBC Driver for Sybase
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/Universal Driver/jconn2.jar

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

# -----
#   JDBC Driver for Uni -SQL
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/Universal Driver/unisqljdbc10.jar

# -----
#   JDBC Driver for SAP
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/Universal Driver/sapjco.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 CLASSPATH
# -----
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.OZShell $1 $2 $3 $4 $5 $6 $7 $8 $9

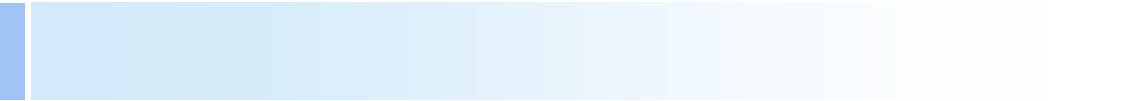
```

```

ozcntrl                                가
    가                                "
    "                                .

ozcntrl.bat/ozcntrl.sh                가
    . ozcncrl.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	
	Profile.exe	
	server.ico	
	OZServerUninstallService.bat	NT
	user.cif	None ()

cache	가	
cache_dm		
conf	cachemngr.properties	
	clientlist.xml	(MAC Address, IP Address, HDD Serial)
	databind.properties	
	db.properties	DB
	dbconfig.xml	DBMS JDBC
	dbconfig.xsd	
	log.properties	
	monitor.properties	Monitor
	ozserver.properties	
	repository.properties	
	sap.properties	SAP
	spmgr.properties	
	srmngr.properties	
	uslmngr.properties	(, PKI)
	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
	ozsfw40.jar	
	OZUSLServerDES128.jar	USL
	OZUSLServerSession.jar	
	servlet.jar	USL J2EE
	parser.jar	XML
	xerces.jar	
	xalan.jar	XML XPath
	xercesImpl.jar	
	xml-apis.jar	
	sjsxp.jar	HTTP XML
	jsr173_api.jar	
	UDSTestPackage.jar	UDS
	OZServiceBootstrap.jar	NT
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	
	mysql.jar	Mysql JDBC
	sapjco.jar	SAP
	sapjcorfc.dll	
	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		
	clientlist.xml	(MAC Address, IP Address, HDD Serial)	
	databind.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		
	uslmngr.properties	(, PKI)	
	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	
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	
	mysql.jar	Mysql JDBC

	sapjco.jar	SAP
	sapjcorfc.dll	
	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
	ozsfw40.jar	
	OZUSLServerDES128.jar	USL
	OZUSLServerSession.jar	
	servlet.jar	USL J2EE
	parser.jar	XML
	xerces.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

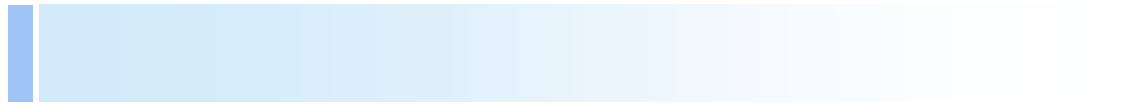
JDBC

.

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\Forc's\OZ
XStudio\jre1.4.2\bin\client\vm.dll
rem -----
set JRE_PATH=

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

```
rem
rem      ex)      set      OZSCHEDULER_HOME_BIN=C:\Program      Files\Fors\OZ
XStudio\OZServer 4.0\bin
rem -----

set OZSERVER_HOME=.
set OZSERVER_HOME_BIN=

rem JAVA option delimiter is # 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%\ozsfw40.jar;%OZSERVER_HOME%\conf\
set OZLIB=%OZLIB%; %OZLIBALL%\ozusl.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-api.jar
set OZLIB=%OZLIB%; %OZLIBALL%\parser.jar
set OZLIB=%OZLIB%; %OZLIBALL%\xerces.jar
set OZLIB=%OZLIB%; %OZLIBALL%\cricms.jar
set OZLIB=%OZLIB%; %OZLIBALL%\jsxp.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%; %OZLIBALL%\classes12.zip

rem -----
rem      JDBC Driver for Mysql (3.0.14)
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\mysql.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%; %OZLIBALL%\ifjdbc.jar

rem -----
rem      JDBC Driver for Sybase
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\jconn2.jar

rem -----
rem      JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%; %OZLIBALL%\jjdbc2.jar
set OZLIB=%OZLIB%; %OZLIBALL%\msbase.jar
set OZLIB=%OZLIB%; %OZLIBALL%\msutil.jar
set OZLIB=%OZLIB%; %OZLIBALL%\mssqlserver.jar

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

```

set OZLIB=%OZLIB%; %OZLIBALL%\db2j cc_i cense_ci suz. jar
set OZLIB=%OZLIB%; %OZLIBALL%\db2j cc_i cense_cu. jar

rem -----
rem      JDBC Driver for Uni -SQL
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\uni sql jdbc10. jar

rem -----
rem      JDBC Driver for SAP
rem -----
set OZLIB=%OZLIB%; %OZLIBALL%\sapj co. 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 --Opti onName="Opti onVal ue"
OZServiceSV. exe      //IS//%1      --Di spl ayName="OZServer"      --
Descripti on="OZServer"      --StartPath="%OZSERVER_HOME_BI N%"      --
StopPath="%OZSERVER_HOME_BI N%"      --Cl asspath="%OZLIB%"      --Jvm="%JRE_PATH%"
--JavaOpti ons="%JAVA_OPTI ON%"      --JvmMs="%MI N_MEMORY%"      --
JvmMx="%MAX_MEMORY%"      --StartMode=j vm      --StopMode=j vm      --
StartCl ass=oz. server. OZServiceBootstrap      --StartParams=OZServerStart      --
StopCl ass=oz. server. OZServiceBootstrap      --StopParams=OZServerStop      --
LogPath="%OZSERVER_HOME_BI N%"      --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 4.0/bin"
--StartClass		
		oz.server.OZService Bootstrap
--StartParams		
		OZServerStart) --StartParams= OZServerStart
--StartMode		
		jvm Jvm

--StopPath		:) --StopPath="C:/OZServer 4.0/bin"	
--StopClass			
		OZServerStop) --StopParams= OZServerStop
--StopParams			
		OZServerStop) --StopParams= OZServerStop
--LogPath	가	:) --LogPath="C:/OZServer 4.0/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
rem -----
rem %1 -      (A-Z      0-9
(,), (.)      )
rem -----

rem OZServiceSV.exe //DS//%1
OZServiceSV.exe //DS//OZServer
```

-

```
{
    } \conf\ozserver.properties      path.oz.server.home
}
```

■

```
{
    } \bin\OZServerInstallService.bat
} \bin\OZServerUninstallService.bat      OZServiceSV.exe
```

■

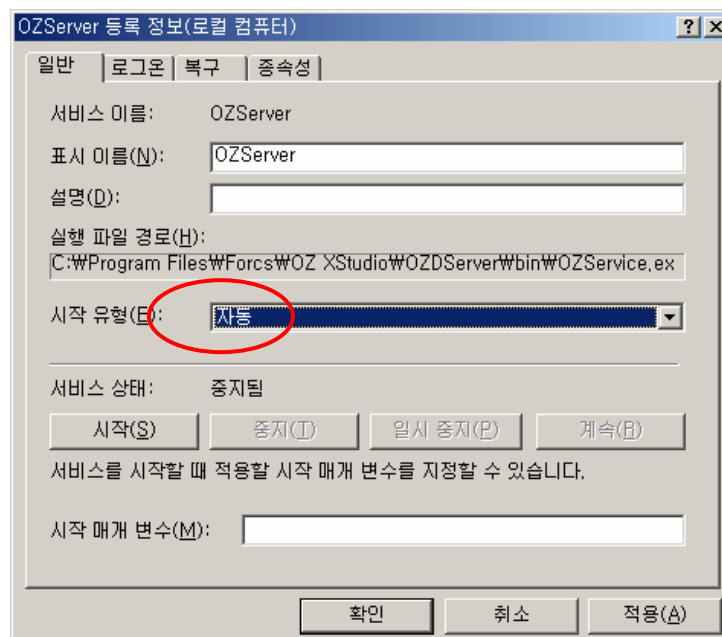
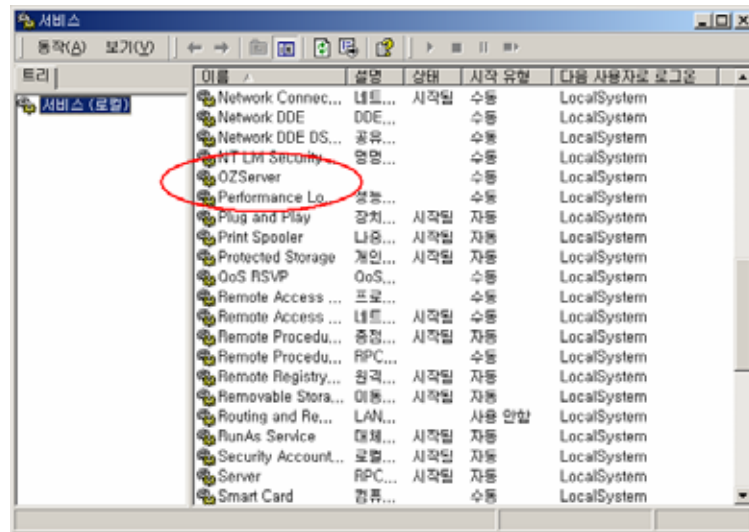
```
{
    } \bin\OZServerInstallService.bat
}
```

■

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

■

```
가
OZServer      "      "
.
OZServer
"      "      "      "
```

OZServer



"

"

: NT

NT

ozstart.bat

- 
-
- 
- cachemngr.properties
 - clientlist.xml
 - databind.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.properties

가

[cachemngr.properties](#)

```
###
###   Configurai on of Cache Manager
###

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

repository.active=false
repository.memoryCacheVal idTi me=1200
repository.di skCacheVal idTi me=0
repository.freeMemoryPercentage=0

datamodule.report.active=false
datamodule.report.memoryCacheVal idTi me=1200
datamodule.report.di skCacheVal idTi me=0
datamodule.report.freeMemoryPercentage=0

datamodule.appl i cati on.active=false
datamodule.appl i cati on.memoryCacheVal idTi me=1200
datamodule.appl i cati on.di skCacheVal idTi me=0
```

```
datamodule.e.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')

	datamodule.report.[/sales/car].[dept1.odi].active = true
	datamodule.application.[/sales/car].[dept1.odi].active = true

▪

('Code', Fetch

'DM_BATCH_FETCH', 'A001')

	datamodule.report.[/sales/car].[dept1.odi].[DM_BATCH_FETCH].[Code=A001].active = true
	datamodule.application.[/sales/car].[dept1.odi].[DM_BATCH_FETCH].[Code=A001].active = true

▪

('Code', Fetch

'DM_CONCURRENT_FETCH', 'A001')

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

clientlist.xml

■ Daemon/Servlet

{OZ_HOME}\conf\clientlist.xml

OZA, OZR

Mac Address, IP Address, HDD Serial

: clientlist.xml

clientlist.xml

```
<ClientList use='true' >

  <!-- Client 1 -->
  <Client checkAll='true' >
    <MACAddress checkAll='true' >
      <Item>00-34-25-f1-61-45</Item>
      <Item>00-14-85-f1-68-22</Item>
    </MACAddress>
    <IPAddress checkAll='true' >
      <Item>127.0.0.1</Item>
      <Item>127.0.0.2</Item>
    </IPAddress>
    <HDDSerial checkAll='true' >
      <Item>S07HJ1LL200778</Item>
      <Item>L623471</Item>
    </HDDSerial >
  </Client>

  <!-- Client 2 -->
```

```

<Client checkAll='true'>
    ...
</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 MAC Address ()
IPAddress	IP Address가 IP Address		
	checkAll	true	IP Address가 IP Address
		false	IP Address가 IP Address ()
HDDSerial	HDD Serial HDD Serial		

	checkAll	true	HDD Serial HDD Serial
		false	HDD Serial Serial ()

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

clientlist.xml

```
<ClientList use='true' >
  <Client checkAll='true' >
    <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>
      <Item>L623471</Item>
    </HDDSerial>
  </Client>

  <Client checkAll='false' >
    <MACAddress checkAll='false' >
      <Item>00-0f-ea-fy-9a-6a</Item>
    </MACAddress>
    <IPAddress checkAll='true' >
      <Item>127.0.0.3</Item>
      <Item>127.0.0.4</Item>
    </IPAddress>
  </Client>
</ClientList>
```

```
<HDDSerial checkAll='false'>
  <Item>S0AFJ10Y7064418</Item>
  <Item>5JT3G3KT</Item>
</HDDSerial>
</Client>
</ClientList>
```

databind.properties

■ Daemon/Servlet

{OZ_HOME}\conf\databind.properties

databind.properties

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

unit : count, default : 0
ConcurrentFirstRow=0

■ databind.properties

ConcurrentFetchSize	FetchType "Concurrent" Stream byte, 4096, 256 :
ConcurrentFirstRow	FetchType "Concurrent" 0 : 0

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

" 가

"

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
```

```
oracledb_example.maxconns=20
oracledb_example.initialconns=5
oracledb_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.initialconns=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=newintrac
mssql_example.user=sa
mssql_example.password=
mssql_example.maxconns=20
mssql_example.initialconns=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.initialconns=2
odbc_example.timeout=5
```

: NT

ODBC

DNS

ODBC

DNS

.

■ db2

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

```
db2_examp1 e. portNo=1344
db2_examp1 e. dbName=db2
db2_examp1 e. user=db2admi n
db2_examp1 e. maxconns=20
db2_examp1 e. i ni tconns=5
db2_examp1 e. ti meout=5
```

■ sybase

```
Sybase_examp1 e. vendor=sybase
Sybase_examp1 e. serverAddress=127. 0. 0. 1
Sybase_examp1 e. dbName=master
Sybase_examp1 e. portNo=2343
Sybase_examp1 e. user=sa
Sybase_examp1 e. password=sybase
Sybase_examp1 e. maxconns=20
Sybase_examp1 e. i ni tconns=5
Sybase_examp1 e. ti meout=5
```

■ unisql

```
uni sql _examp1 e. vendor=uni sql
uni sql _examp1 e. serverAddress=127. 0. 0. 1
uni sql _examp1 e. dbName=demodb
uni sql _examp1 e. portNo=44300
uni sql _examp1 e. user=
uni sql _examp1 e. password=
uni sql _examp1 e. maxconns=20
uni sql _examp1 e. i ni tconns=5
uni sql _examp1 e. ti meout=5
```

■ User Custom DBMS

```
user_examp1 e1. vendor=user
user_examp1 e1. dri ver=org. gj t. mm. mysql . dri ver
user_examp1 e1. url =j dbc: mysql : //i p/test
user_examp1 e1. props=user=oz; password=oz
user_examp1 e1. user=oz
user_examp1 e1. maxconns=20
user_examp1 e1. i ni tconns=5
user_examp1 e1. ti meout=5
```

■ Data Source JNDI

```
ds_examp1 e. vendor=oracl e
ds_examp1 e. 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.JNDIJBDCDriver is provided by FORCS
# in order to use DataSource.
#
ds_example.driver=com.forcs.jdbc.JNDIJBDCDriver

#
# 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.WsInitialContextFactory: <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>
    </URL>
  </VENDOR NAME="ORACLE">

```

```

<JAVA>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(HOST={serverAddress})(PROTOCOL=tc
cp)(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:msc:sqlserver://{serverAddress}:{portNo};DatabaseName={dbName}
  </JAVA>

    <NET>Network
    Source={serverAddress},{portNo};Initial
    Library=DBMSSOCN;Data
    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>

```

```

        </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.DB2Connecton</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>
    </ITEMS>

```

```
<ITEM KEY="portNo">
    <LABEL LANG="en_us">Database server port number</LABEL>
    <LABEL LANG="ko_kr">                                </LABEL>
    <LABEL LANG="j_a_j_p">Database server port number</LABEL>
</ITEM>
<ITEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr">                                </LABEL>
    <LABEL LANG="j_a_j_p">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. OdbcConnecti on</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>j dbc: odbc: {dsn}</JAVA>
        <NET>Dsn={dsn}; Ui d={user}; Pwd={password}</NET>
    </URL>
    <HANDLER>
        <NET>com. forcs. db. OZGeneral Handl er</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="j a_j p">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.IfxConnecti on</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>jdbc:Informix-
sql i : //{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="j a_j p">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="j a_j p">Database server port number</LABEL>
    </ITEM>

```

```
<ITEM KEY="serverName">
    <LABEL LANG="en_us">Database server name</LABEL>
    <LABEL LANG="ko_kr">                                </LABEL>
    <LABEL LANG="j a_j p">Database server name</LABEL>
</ITEM>
<ITEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr">                                </LABEL>
    <LABEL LANG="j a_j p">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. j dbc2. j dbc. SybDriver</JAVA>
        <NET>Sybase. Data. AseClient. AseConnect ion</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>

    <JAVA>j dbc: 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="j a_j p">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="j_a_j_p">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="j_a_j_p">Database server port number</LABEL>
        </ITEM>
        <ITEM KEY="dbName">
            <LABEL LANG="en_us">Database name</LABEL>
            <LABEL LANG="ko_kr"></LABEL>
            <LABEL LANG="j_a_j_p">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>uni sql . j dbc. dri ver. Uni SQLDri ver</JAVA>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>j dbc: uni sql : {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="j_a_j_p">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="j_a_j_p">Database server port number</LABEL>
  </ITEM>
  <ITEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr"></LABEL>
    <LABEL LANG="j_a_j_p">Database name</LABEL>
  </ITEM>
</ITEMS>
</VENDOR>
<VENDOR NAME="User-Defi ned">
  <DI SPLAYNAME>
    <LABEL LANG="en_us">User-Defi ned</LABEL>
  </DI SPLAYNAME>
  <DRI VER>
    <DI SPLAYNAME>
      <LABEL LANG="en_us">Dri ver</LABEL>
    </DI SPLAYNAME>
    <JAVA>{dri ver}</JAVA>
  </DRI VER>
  <URL>
    <DI SPLAYNAME>
      <LABEL LANG="en_us">URL</LABEL>
    </DI SPLAYNAME>
    <JAVA>{url}</JAVA>
  </URL>
<ITEMS>
  <ITEM KEY="dri ver">
    <LABEL LANG="en_us">Dri ver Cl ass Name</LABEL>
    <LABEL LANG="ko_kr">JDBC</LABEL>
    <LABEL LANG="j_a_j_p">Dri ver Cl ass Name</LABEL>
  </ITEM>
  <ITEM KEY="url ">
    <LABEL LANG="en_us">Connecti on URL</LABEL>
    <LABEL LANG="ko_kr">JDBC URL</LABEL>
    <LABEL LANG="j_a_j_p">Connecti on URL</LABEL>
```

```

</ITEM>
</ITEMS>
</VENDOR>
</DBCONNECTI ON_I NFORMATI ON>

```

- 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

```
#-----
# confi gurai on of OZ logging system (LOG4OZ)
#-----
#
#USE_BUI LTI N_LOGGI NG_ENGI NE=true
#BUI LTI N_LOGGI NG_CONSOLE=true
#BUI LTI N_LOGGI NG_CONSOLE.CharSet=
#BUI LTI N_LOGGI NG_FI LE=true
#BUI LTI N_LOGGI NG_FI LE. TYPE=RoI I i ngFi I e

# ----
#BUI LTI N_LOGGI NG_FI LE. TYPE=Dai I yRoI I i ngFi I e
#BUI LTI N_LOGGI NG_FI LE. DatePattern=yyyy-MM-dd
# -----
#BUI LTI N_LOGGI NG_FI LE.CharSet=
```

```
#BUI LTIN_LOGG I NG_F I LE. LOCATI `ON=%OZ_HOME%/l ogs/server_oz. l og
#BUI LTIN_LOGG I NG_F I LE. APPEND=true
#BUI LTIN_LOGG I NG_F I LE. MaxBackupI ndex=5
#BUI LTIN_LOGG I NG_F I LE. MaxFi l eSi ze=1MB
#BUI LTIN_LOGG I NG_F I LE. I mmedi ateFl ush=true

#-----
# confi gurai on of OZ l oggi ng system (LOG4J)
#-----
#
# Set Pri ori tylog l evel
#
# DEBUG, I NFO, WARN, ERROR
Pri ori ty=DEBUG
#
# appender CONSOLE
# Console
#
CONSOLE. Type=Stdout
CONSOLE. Layout=%r [%t] %p %c{1} %x - %m%n
CONSOLE. Async=false
#
# appender ROLL I NG_F I LE
# Fi le
#
# MaxFi l eSi ze
# 가 가
#
# MaxBackupI ndex
#
# Layout :
# Append :
# I mmedi ateFl ush : 가
# false
#
# CharSet :
#

ROLL I NG_F I LE. Type=Rol l i ngFi l e
ROLL I NG_F I LE. Layout=%d{ISO8601} [%t] %-5p %c{1} %x - %m%n
ROLL I NG_F I LE. Fi l e=%OZ_HOME%/l ogs/server. l og
# ----
# ROLL I NG_F I LE. Type=Dai l yRol l i ngFi l e //
# ROLL I NG_F I LE. 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

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

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

■ LOG4OZ

USE_BUILTIN_LOGGING_ENGINE	LOG4OZ	
	true	LOG4OZ
	false	LOG4OZ , LOG4J
BUILTIN_LOGGING_CON	Console	

SOLE	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 가	
BUILTIN_LOGGING_FILE.MaxFileSize		
BUILTIN_LOGGING_FILE.ImmediateFlush		

■ LOG4J

Set Prioritylog	priority	

level		ERROR		
		WARN	"ERROR"	
		INFO	"ERROR"	
		DEBUG	"ERROR", "INFO"	
appender CONSOLE	CONSOLE.Type	Appender , 'stdout'		
	CONSOLE.Layout	"Log Layout"		
	CONSOLE.Async			
		true	()	
		false		
appender ROLLING_ FILE	ROLLING_FILE.Type	Rolling File		
		RollingFile	ex) server.log, server.log.1, server.log.2, ...	
		DailyRollingFile	(DatePattern)	
	ROLLING_FILE.DatePattern	"DatePattern"		
	ROLLING_FILE.Layout	"Log Layout"		
	ROLLING_FILE.File			
	ROLLING_FILE.Append	가 가		

		true	가
		false	가
	ROLLING_F ILE.MaxBac kupIndex	Backup	가 가
	ROLLING_F ILE.MaxFile size		.
apender NT Event	ROLLING_F ILE.Immedi ateFlush		.
	NT_Event.T ype	NT Event "NTEvent" : Windows NT Lib NTEventLog Appender.dll WINNT\SYSTEM32	
	NT_Event.L ayout	"Log Layout"	
apender syslog	NT_Event.T hreshold		
	SYSLOG.Ty pe	Unix 'Syslog'	
	SYSLOG.La yout	"Log Layout"	
	SYSLOG.Thr eshold		
	SYSLOG.Sy slogHost	Syslog	Unix IP
	SYSLOG.Fac ility	Syslog 가 'KERN', 'USER', 'MAIL', 'DAEMON', 'AUTH', 'SYSLOG', 'LPR', 'NEWS', 'UUCP', 'CRON', 'AUTHPRIV', 'FTP', 'LOCAL1', 'LOCAL2', 'LOCAL3', 'LOCAL4', 'LOCAL5', 'LOCAL6', 'LOCAL7'	

SYSLOG.FacilityPrinting

- HTTP

가 HTTP

HTTPSTORE_LOG_FILE

- HTTP

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 .

[illegible]

- Log Layout

Character	
c	<p>OZServer module Category Name</p> <p>Category name %c{2}</p> <p>)</p> <p>%c → oz.server.servlet</p> <p>%c{1} → servlet</p> <p>%c{2} → server.servlet</p>
d	<p>가 Log4j</p> <p>(ABSOLUTE, DATE, ISO8601) Log4j</p> <p>)</p> <p>[%d{dd MM yyyy HH:mm:ss,SSS}]</p> <p>[18 04 2001 18:39:29,777] main INFO ozserver</p> <p>- OZServer ...</p> <p>)</p> <p>[%d{ISO8601}]</p> <p>[2001-04-18 18:39:29,777]main INFO ozserver</p> <p>- OZServer ...</p>
m	<p>message OZServer</p> <p>)</p> <p>%d{ISO8601} [%t] %-5p %c{1} %x-%m</p> <p>→ 2002-08-16 09:56:23,203[Handler 1] INFO MessageHandler</p>
n	<p>C " \n" . New Line</p>

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	'

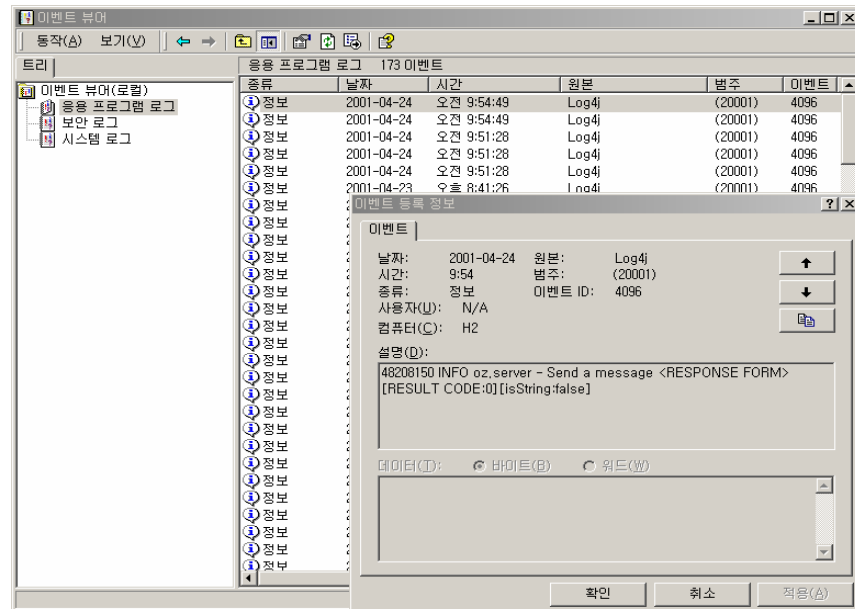
-

"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

MultiInstance	Instance Instance true , false ex) MultiInstance=true
WASName	가 WAS ex) WASName=WebLogic

WASVersion	가 WAS . ex) WASVersion=7.1
------------	----------------------------------

: Instance
, WAS WebLogic7.x, WebLogic8.x 가
.

monitor.properties

■ Daemon/Servlet

{OZ_HOME}\conf\monitor.properties

monitor.properties

```
#-----
# confi gurai on of OZ Trasacti on Monoti or Log
#-----
#
# OZ 4.0
#
#
#
# Whether Log or not
#
MONI TOR. Acti ve=true
MONI TOR. Fi le=%OZ_HOME%\l ogs\moni tor. l og
MONI TOR. MaxBackupI ndex=5
MONI TOR. MaxFi leSi ze=1MB
MONI TOR. Immedi ateFl ush=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]"
```

```
<informix>
```

```
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 INFORMATION = 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.sapl ient . properti es. fi l e=%OZ_HOME%/conf/sap. properti es
path.databi nd. properti es. fi l e=%OZ_HOME%/conf/databi nd. properti es
path.cl i enti nfo. properti es. fi l e=%OZ_HOME%/conf/cl i enti l i st. xml
path.ozservi ce. properti es. fi l e=%OZ_HOME%/conf/ozservi ce. properti es
path.ozdbconfi g. properti es. fi l e=%OZ_HOME%/conf/dbconfi g. xml
```

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.security.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.databnd.properties.file=%OZ_HOME%/conf/databnd.properties
path.clientinfo.properties.file=%OZ_HOME%/conf/clientlist.xml
path.ozservice.properties.file=%OZ_HOME%/conf/ozservice.properties
path.ozdbconfig.properties.file=%OZ_HOME%/conf/dbconfig.xml
```

- **%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	srmngr.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 .

ozservice.properties

■ Servlet

{OZ_HOME}\conf\ozservice.propeties

- Post – SOAP DataModule
- Post – SOAP DataAction
- Get wsdl

ozservice.properties

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

enable_ozserver=true
enable_webservice=true
```

■ ozservice.properties

enable_ozserver	. (: true)

enable_webservice	. (: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, BUILT IN, NONE
REPOSITORY_TYPE = RDB
REPOSITORY_FILE_PATH = %OZ_HOME%/repository_files/

#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_VALID_DAYS=0

#Item file save number per a directory
#Default value is 500
#The value must be larger 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

REPOSITORY_QUERY_MAXBACKUPINDEX = 5
REPOSITORY_QUERY_MAXFILESIZE = 1M
REPOSITORY_QUERY_IMMEDIATEFLUSH = true
#
# DB alias in /conf/db.properties to use repository
#
# note: ignored if REPOSITORY_TYPE is BUILTIN
#
REPOSITORY_DB_ALIAS = mssql_test3
#
# note: ignored if REPOSITORY_TYPE is BUILTIN and RDB
```

■ repository.properties

TYPE	RDB	가 DB
	BUILTIN	DB (Hypersonic SQL DB)
	NONE	
FILE_PATH		
REPOSITORY_NONE_BACKUP	None	
REPOSITORY_NONE_BACKUP_PATH	None	
REPOSITORY_NONE_BACKUP_ITEM_COUNT	None	
REPOSITORY_NONE_BACKUP_ITEM_VALID_DAYS	None	
ITEM_NUMBER_PER_DIRECTORY		
HISTORY_ITEM_VALID_DAYS		
QUERY_MAXBACKUPINDEX	BUILTIN DB	
QUERY_MAXFILESIZE	BUILTIN DB	

QUERY_IMMEDIATEFLUSH	BUILTIN DB
DB_ALIAS	db.properties Repository Alias가 DB

REPOSITORY_TYPE 'NONE'

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

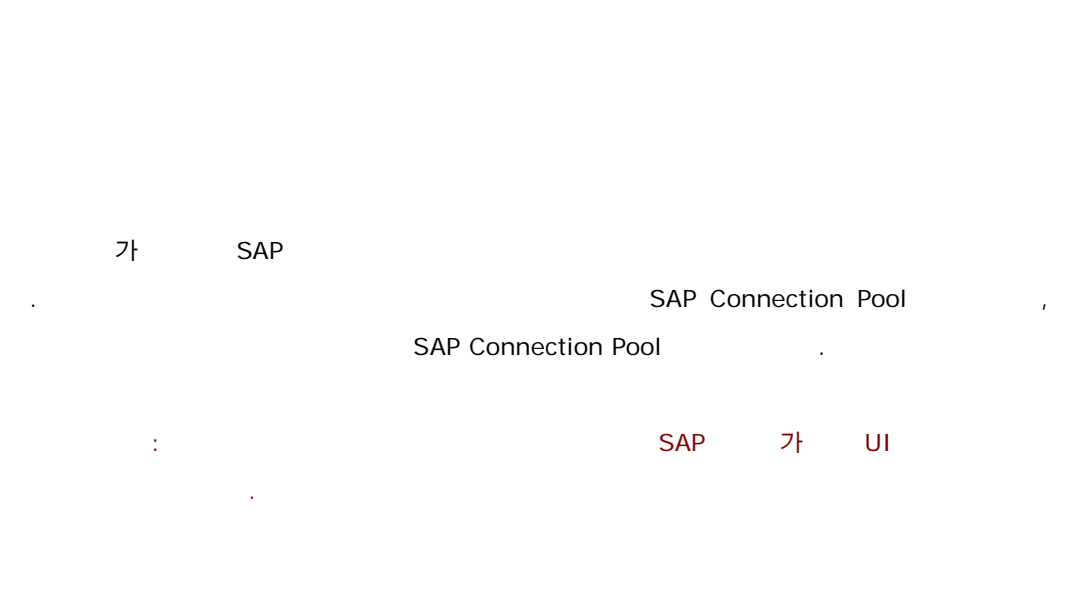
REPOSITORY_TYPE 'RDB'

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

sap.properties

■ Daemon/Servlet

{OZ_HOME}\conf\sap.properties



sap.properties

```
###
###   Configurai on of SAP Connecti on Manager
###

### TYPE1
#<al i as>. cl i ent=
#<al i as>. user=
#<al i as>. password=
#<al i as>. l anguage=
#<al i as>. host=
#<al i as>. sysno=

### TYPE2
#<al i as>. cl i ent=
#<al i as>. 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.properties

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 :		
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	○	○

	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.propeties

SDM SDM .

srmngr.properties

```
# default t : false
use_scheduled_data=true

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

- **srmngr.properties**

use_scheduled_data	SDM SDM "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

#####
#
# 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

- 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

■ Source

Source

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

■ Type

Source

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

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 ozsfw40.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
```

■ Cache Manager

➤ -cache.getcfg

```
: ozcntrl -cache.getcfg [SERVER-INFO]
```

```
)
```

```
ozcntrl -cache.getcfg
```

```
ozcntrl -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

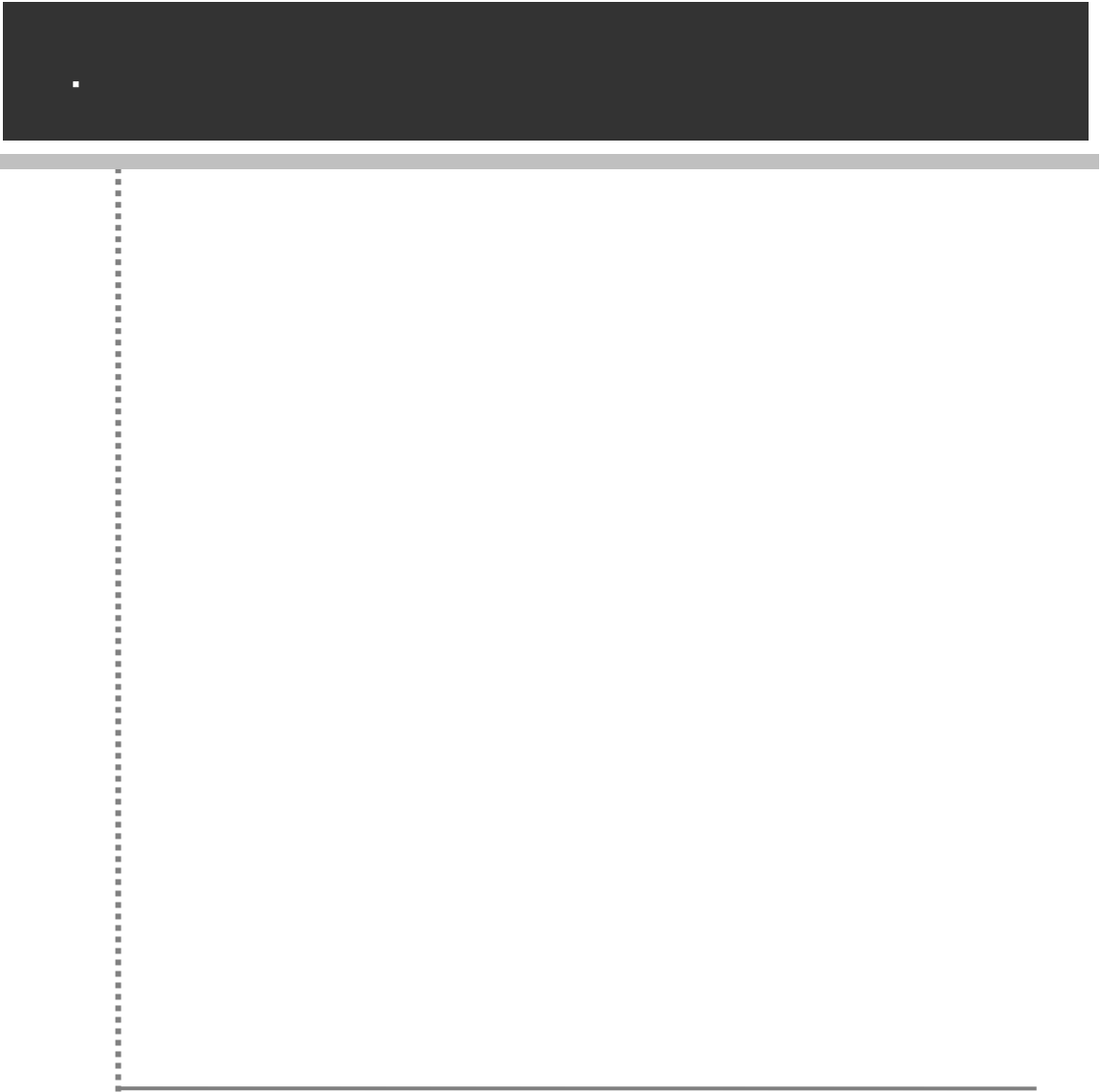
➤ -builtin.repair

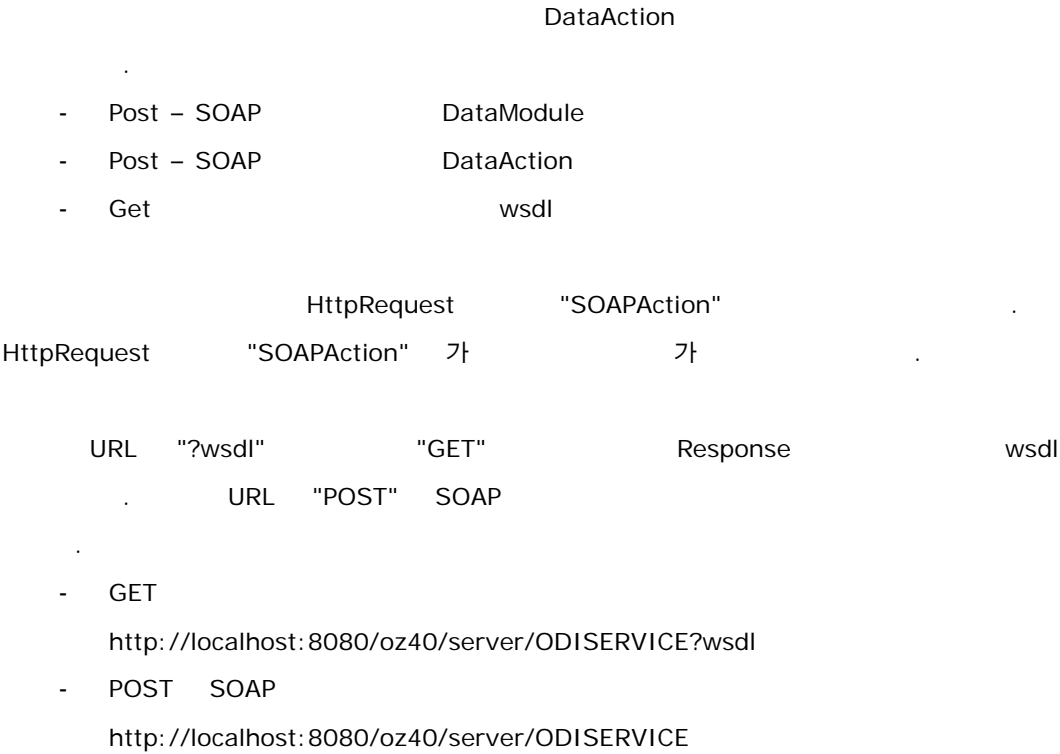
```
query.log          db_file.script
: ozcntrl -builtin.repair [SERVER-INFO]
)
ozcntrl -builtin.repair
ozcntrl -builtin.repair -ip: 127.0.0.1 -port: 8003
ozcntrl -builtin.repair -url:http://127.0.0.1:8080/oz/server
```

■ 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)

(ozsfw40.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	preProcess	Overwrite	
	SOAP Header Exception	가 SOAP Fault	. preProcess 가	
Argument	<i>request</i>			

	Attr	SOAP	Header
		OZAttribute	
Exception	OZWebServiceException		

■ OZAttribute

- getName

Prototype	public String getName()
Definition	OZAttribute 가 .

- getValue

Prototype	public String getValue()
Definition	OZAttribute 가 .

■ ODIService

- requestDAC2

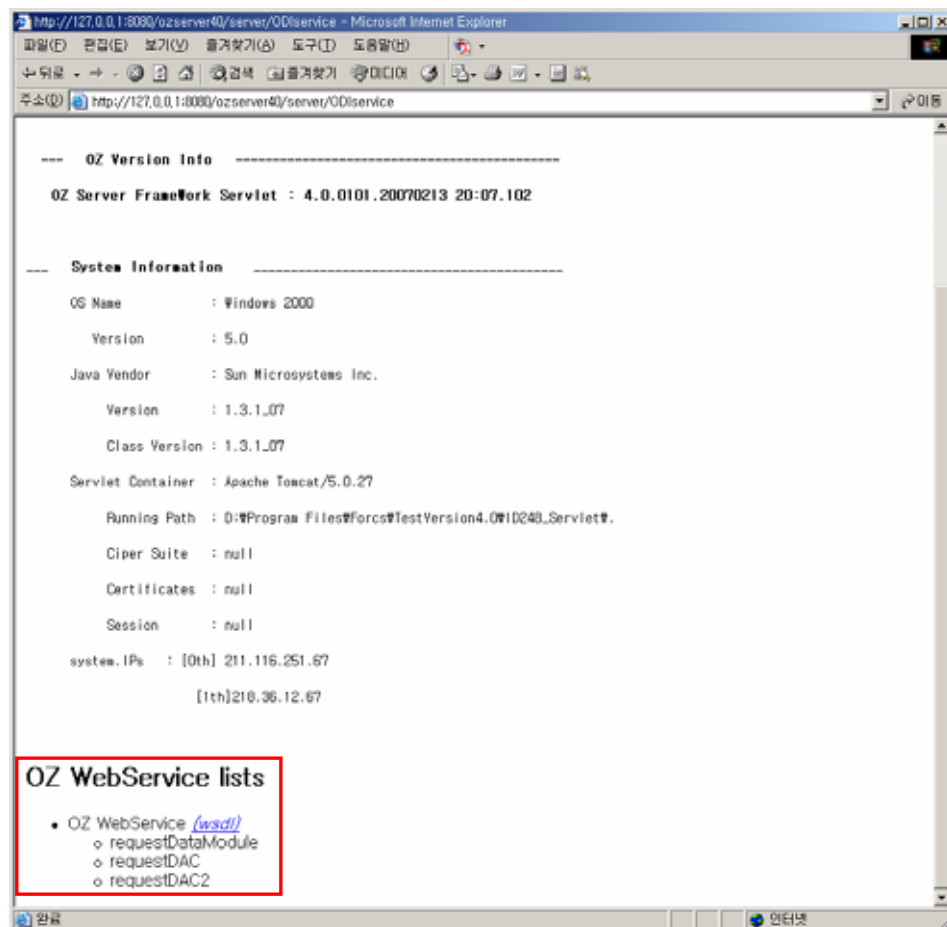
Prototype	requestDAC2(data)
Definition	DataAction : 가 . " < FAULT > "
Argument	data DataAction

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/ozserver40/server" , ODIService URL "
http://127.0.0.1:8080/ozserver40/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 OZAxisDataActionClient {

    public static final String _END_POINT_ADDRESS =
"http://127.0.0.1:8080/oz40/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.setODI_NAME("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(i nfo);

        //DataActi on

        OZData resul t = (OZData)stub.requestDAC2(data);
        OZDataSet[] datas = resul t.getOZDATARESULT();
        for(int i=0 ; i < datas.length ; i++) {
            Record[] record = datas[i].getRECORDS();
            for(int j=0 ; j < record.length ; j++) {
                String[] col s = record[j].getCOLS();
                for(int k=0 ; k < col s.length ; k++) {
                    i f(col s[k].length() >100) {
                        conti nue;
                    }
                    System.out.pri ntln(col s[k]);
                }
                System.out.pri ntln();
            }
        }
    } catch (Excepti on ex) {
        ex.pri ntStackTrace();
    }
}

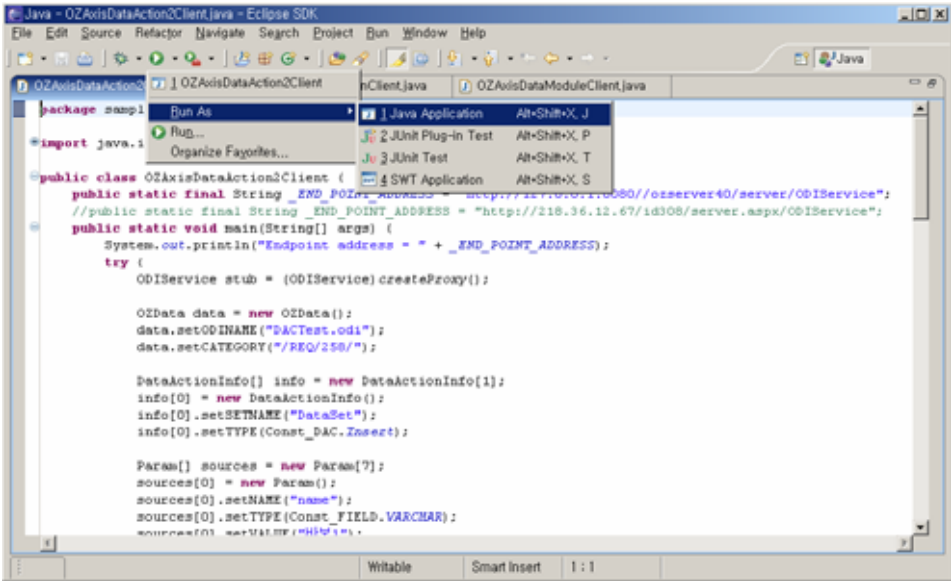
private static Stub createProxy() throws Servi ceExcepti on{
    ODI Servi ceServi ceLocator impl = new ODI Servi ceServi ceLocator();
    impl.setODI Servi ceEndpoi ntAddress(_END_POI NT_ADDRESS);
    return (Stub)impl.getODI Servi ce();
}
}

```

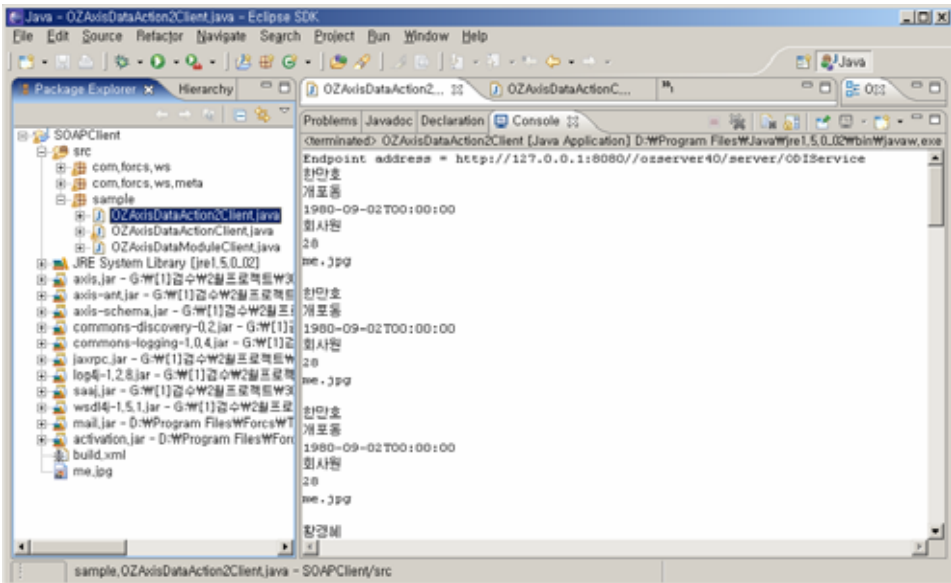


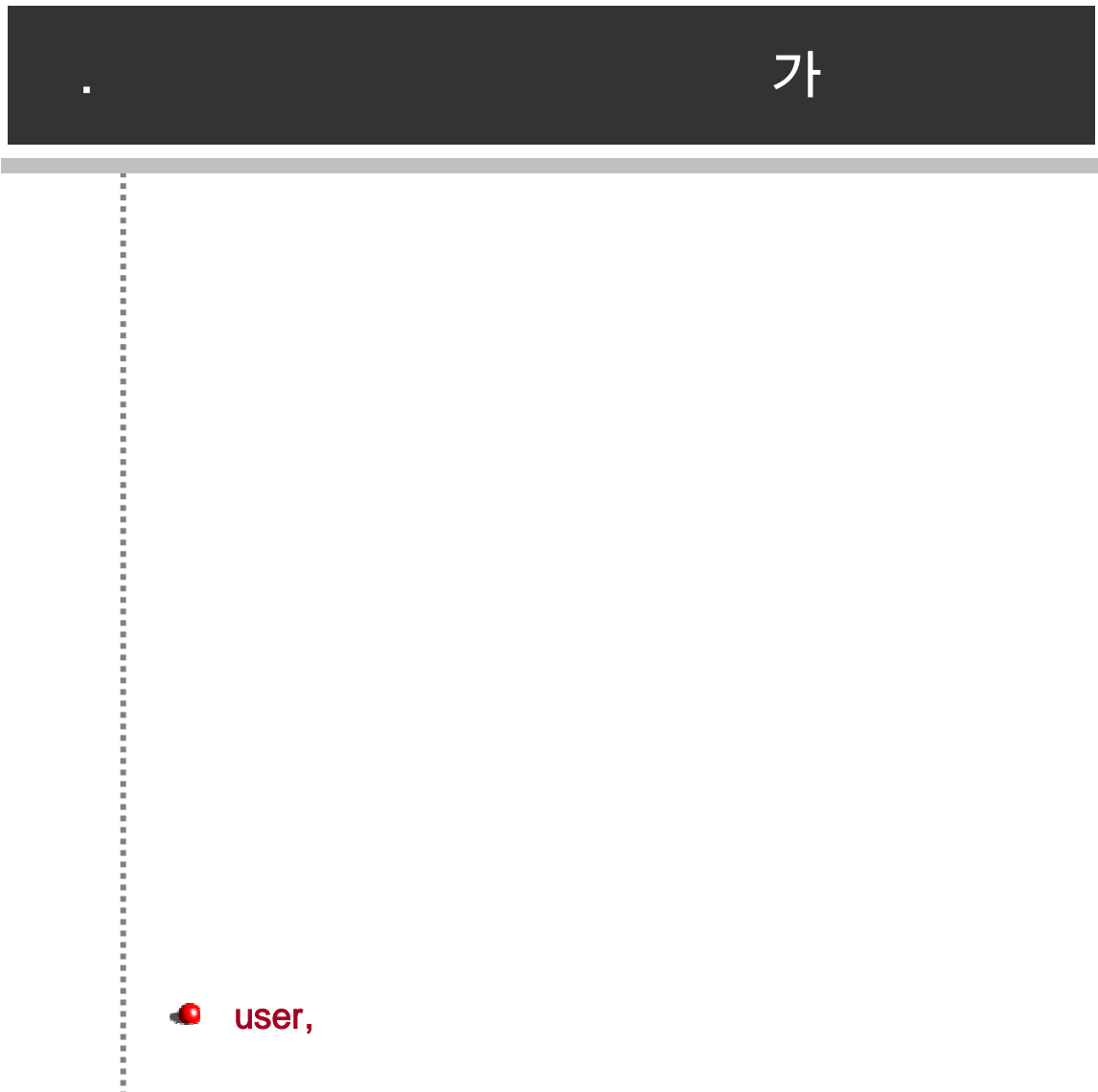
OZAxisDataAction2Client.java

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 ENCRYPTION (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_OPTIONS=-Xms%MIN_MEMORY% -Xmx%MAX_MEMORY%

set OZSERVER_HOME=.
set USER_CLASSPATH=%OZSERVER_HOME%\uds\
set OZLIBALL=%OZSERVER_HOME%\lib
set OZLIB=%OZLIBALL%\ozsfw40.jar; %OZSERVER_HOME%\conf\

set JAVA_OPTIONS=

%JAVA_HOME%\bin\java %JAVA_OPTIONS% -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
```