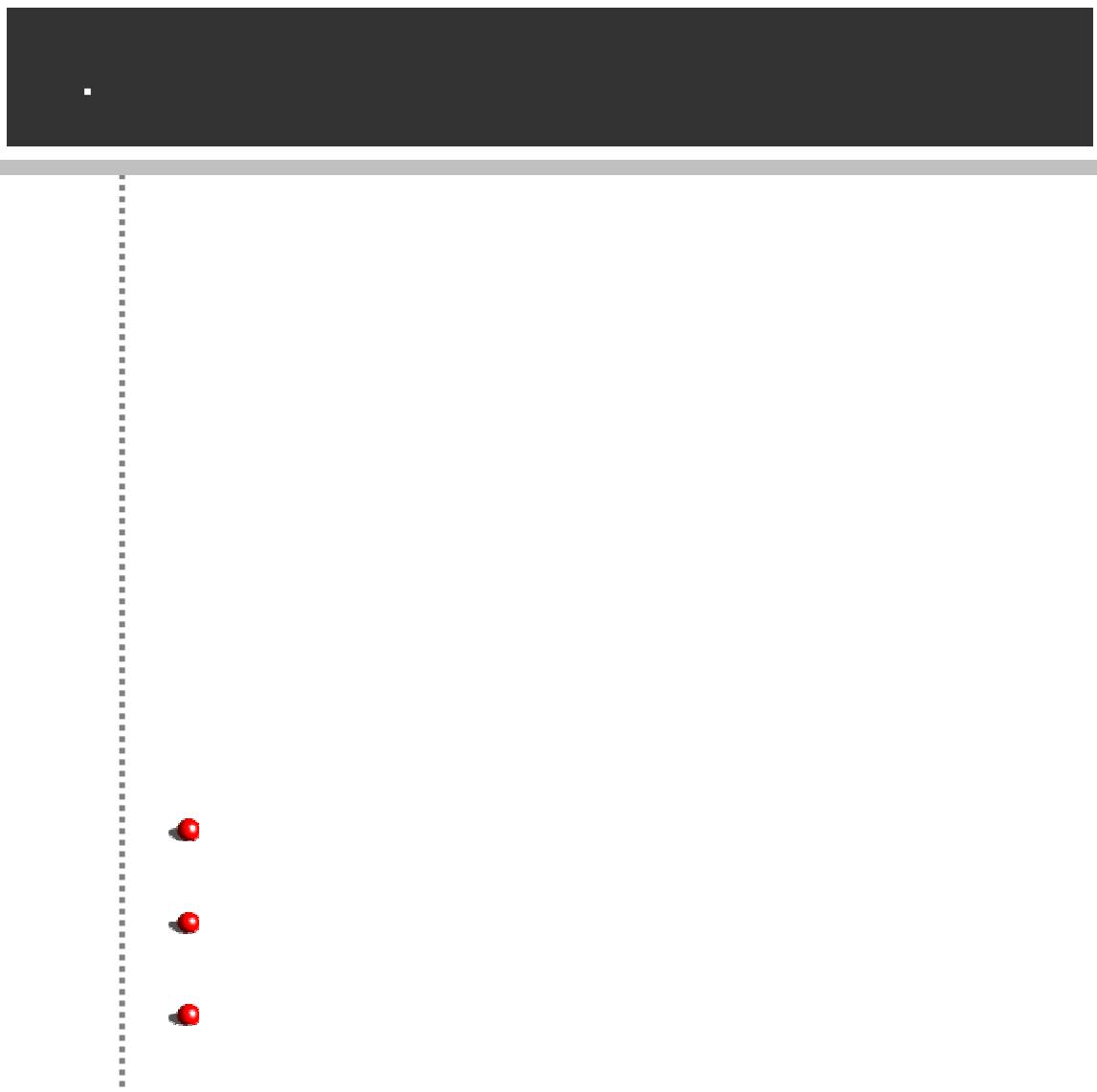


.....	3
.....	4
.....	4
.....	5
.....	7
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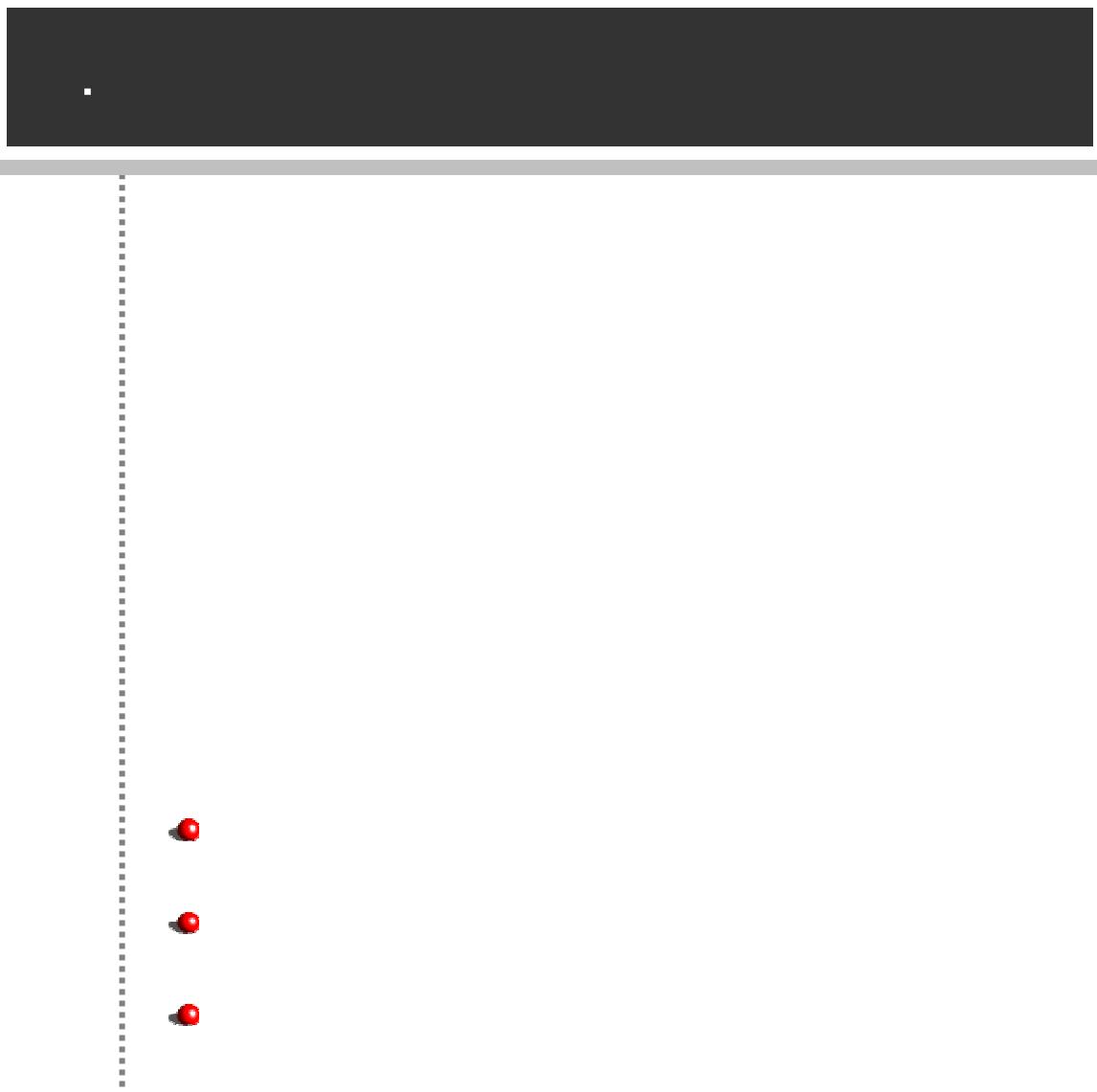


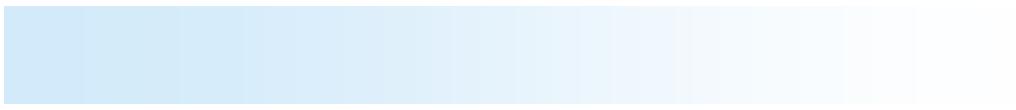
Shell Command

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
- JVM (Java Virtual Machine)
- WAS

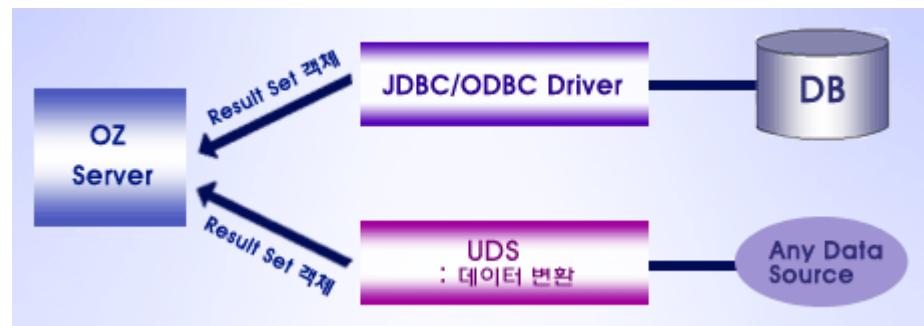
- one-point

-
-

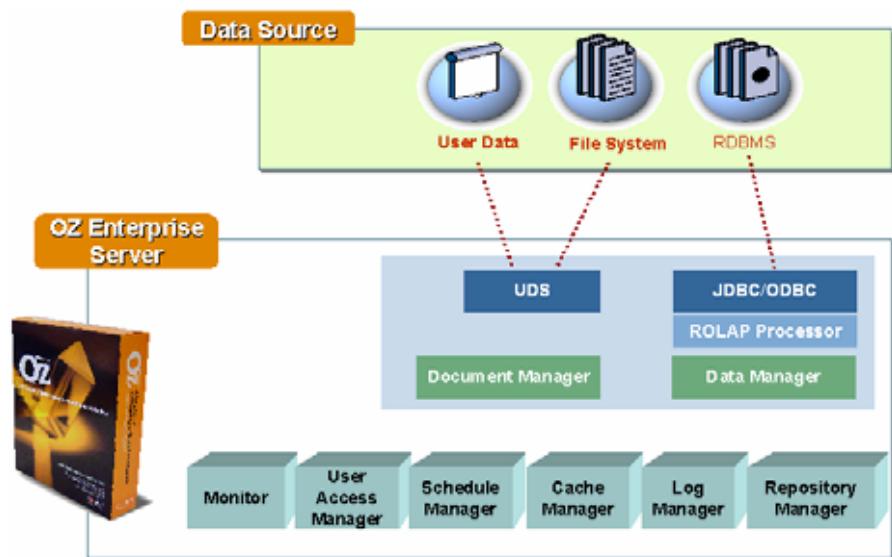
DB Pooling,

가
(Concurrent Mode)

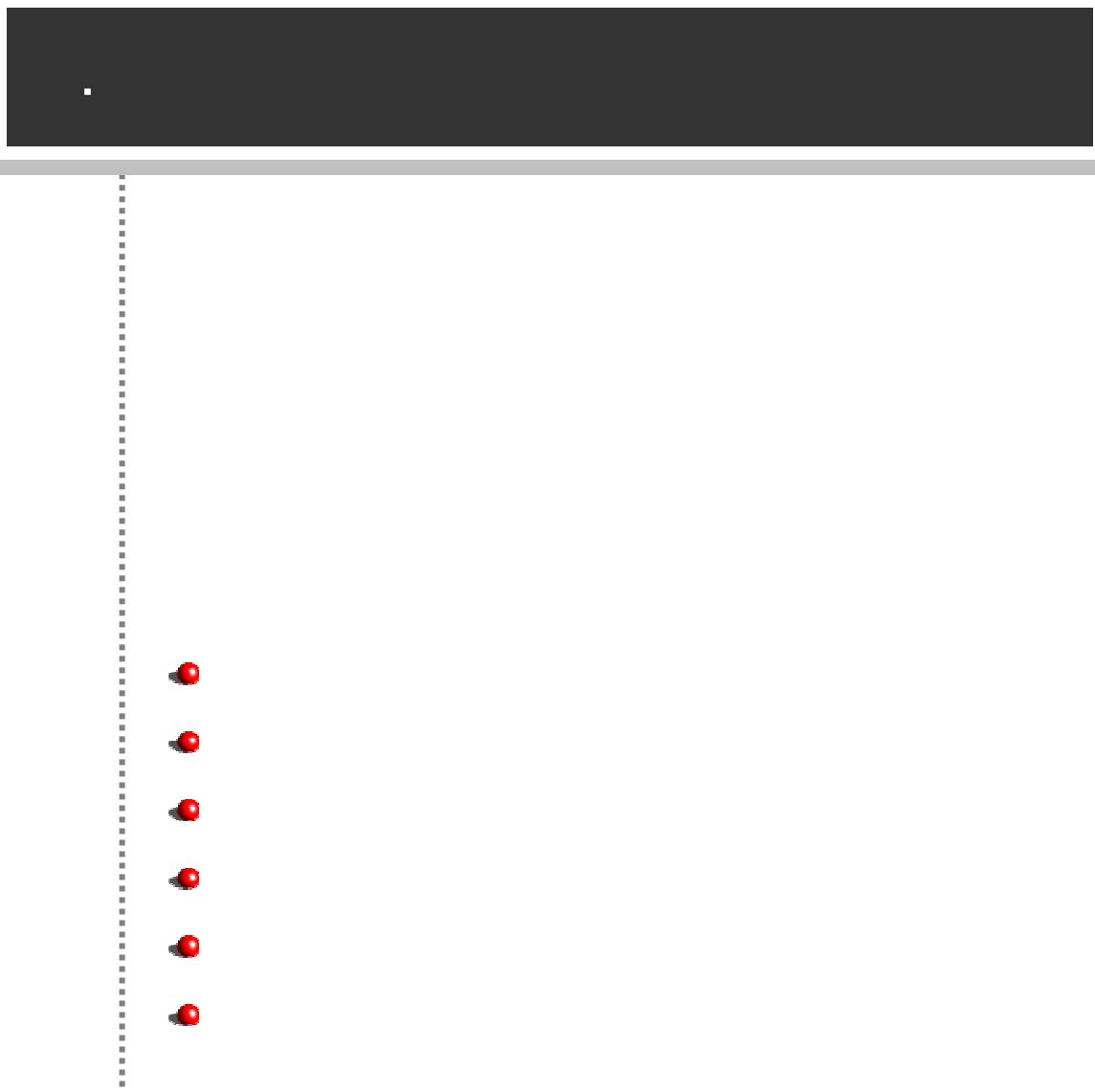
CGI
UDS(User Data Store)
: UDS(User Data Store)
JDBC ODBC
UDS(User Data Store)
XML, EJB, Legacy Data
Non-DB
Non-DB
UDS



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 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

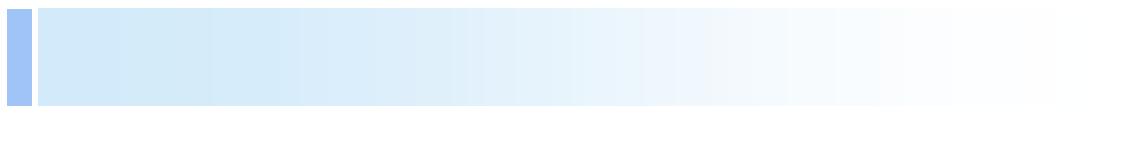
, 1.1.X JDBC .

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



() 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 Control (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   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 OZLIB=%OZSERVER_HOME%\lib
set OZJLIB=%OZSERVER_HOME%\Universal Driver

rem -----
rem   OZ Main Class
rem -----
set OZLIB=%OZLIB%\ozsfw40.jar;%OZSERVER_HOME%\conf\
set OZLIB=%OZLIB%;%OZLIB%\ozusl.jar

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

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

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

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

rem -----
rem      Library for XML
rem -----
set OZLIB=%OZLIB%;%OZLIB%\parser.jar
set OZLIB=%OZLIB%;%OZLIB%\xerces.jar
set OZLIB=%OZLIB%;%OZLIB%\crimson.jar

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

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

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

rem -----
rem      JDBC Driver for Oracle
rem -----
set OZLIB=%OZLIB%;%OZLIB%\clASSES12.zip

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

rem -----
rem      JDBC Driver for Informix
rem -----
set OZLIB=%OZLIB%;%OZLIB%\ifixdbc.jar
```

```

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

rem -----
rem JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%;%OZLIBALL%\jkjdb2.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_lincense_ci_suz.jar
set OZLIB=%OZLIB%;%OZJLIBALL%\db2jcc_lincense_cu.jar

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

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

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

set JAVA_OPTIION=

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

%JAVA_HOME%\bin\java %JAVA_OPTIION% -cp %OZLIB%

```

```
oz.adm in shell .server.OZAShell %1 %2 %3 %4 %5 %6 %7 %8 %9
```

■ ozcntrl.sh

```
#!/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=$OZLIB:$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/servl et.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/jk jdbc.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 ava.jar
```

```
# -----
#   JDBC Driver for Informix
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/infj dbc.jar

# -----
#   JDBC Driver for Sybase
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/j conn2.jar

# -----
#   JDBC Driver for IBM DB2
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/db2j ava.zip

# -----
#   JDBC Driver for Uni-SQL
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/uni sql j dbc10.jar

# -----
#   JDBC Driver for SAP
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/UniversalDriver/sapj co.jar

# -----
#   HTTPS/SSL Module
# -----
OZLIB=$OZLIB:$OZSERVER_HOME/lib/j cert.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/j net.jar
OZLIB=$OZLIB:$OZSERVER_HOME/lib/j sse.jar

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

if [ "$1" != "-start" ]; then
  JAVA_OPTI ON=
else
  JAVA_OPTI ON="$JAVA_OPTI ON -ms$MIN_MEMORY"
fi
```

```
JAVA_OPTI ON="$JAVA_OPTI ON -mx$MAX_MEMORY"m
fi

echo ""
echo $0ZLIB
echo ""

$JAVA_HOME/bin/java $JAVA_OPTI ON -cl asspath $0ZLIB
oz.adm in.shell.server.OZAShell $1 $2 $3 $4 $5 $6 $7 $8 $9
```

ozcntrl 가

가

가

11

가

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	
conf/sample	uslmngr.properties	(, PKI)
	xml.properties	XML
	db.properties.datasource	
	db.properties.db2	
	db.properties.informix	
	db.properties.mssql	
	db.properties.odbc	db.properties DBMS
	db.properties.oracle	
	db.properties.sybase	
	db.properties.unisql	
expand	db.properties.user	
	repository.properties.odbc	repository.properties DBMS
	repository.properties.oracle	
	OZMBAServer.dll	ASP
lib	crimson.jar	XML
	dtdparser120.jar	XML

	hsqldb.jar	Builtin
	jazzlib.jar	
	jcert.jar	J2EE (HTTP/SSL)
	jnet.jar)
	jsse.jar	JRE 1.3.X
	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	
	xercesImpl.jar	XML XPath
	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	
	db2jcc_license_cisuz.jar	IBM DB2 JDBC Type 8 (DB2 8)
	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	
	mssqlserver.jar	MSSQL 2000 JDBC
	msutil.jar	
	mysql.jar	Mysql JDBC
	sapjco.jar	SAP
	sapjcorfc.dll	
	unisqljdbc10.jar	UniSQL JDBC
	unisqljdbc205.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			
conf/ sample	uslmngr.properties	(, PKI)		
	xml.properties	XML		
	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
	repository.properties.oracle	DBMS
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	
	jcert.jar	J2EE (HTTP/SSL)
	jnet.jar)
	jsse.jar	JRE 1.3.X
	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

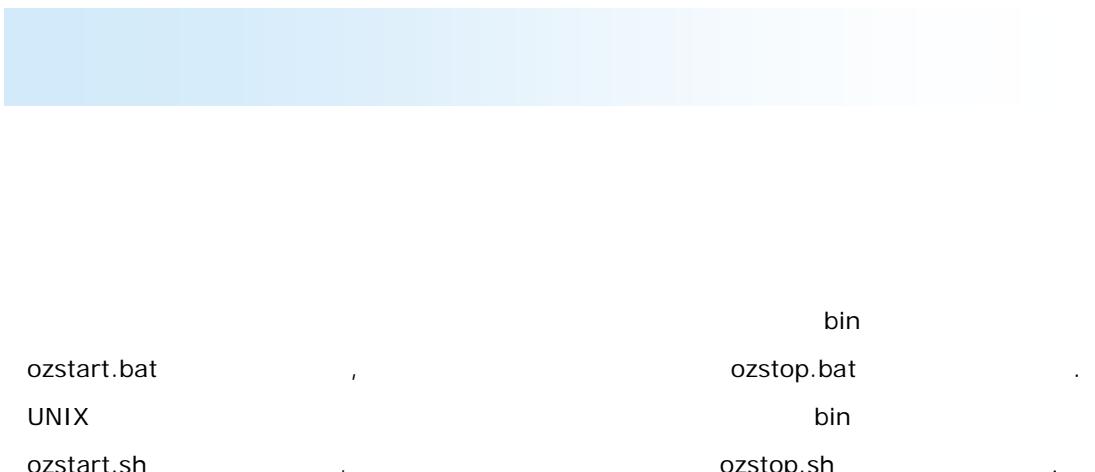
"UniversalDriver"

JDBC

RDB JDBC

RDB

JDBC



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\OZServer\InstallService.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      Fi les\Forcs\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 OZLIB=%OZSERVER_HOME%\lib
set OZJLIB=%OZSERVER_HOME%\Universal Dri ver

rem -----
rem      OZ Main Class
rem -----
set OZLIB=%OZLIB%\ozsfw40.jar;%OZSERVER_HOME%\conf\
set OZLIB=%OZLIB%;%OZLIB%\ozusl.jar

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

rem -----
```

```

rem      for Servl et
rem -----
set OZLIB=%OZLIB%;%OZLIB%\servl et.jar

rem -----
rem      HTTPS/SSL Modul e
rem -----
set OZLIB=%OZLIB%;%OZLIB%\j cert.jar
set OZLIB=%OZLIB%;%OZLIB%\j net.jar
set OZLIB=%OZLIB%;%OZLIB%\j sse.jar

rem -----
rem      Li brary for Logging, ZIP
rem -----
set OZLIB=%OZLIB%;%OZLIB%\log4j.jar
set OZLIB=%OZLIB%;%OZLIB%\jazzli b.jar

rem -----
rem      Li brary for XML
rem -----
set OZLIB=%OZLIB%;%OZLIB%\xalan.jar
set OZLIB=%OZLIB%;%OZLIB%\xercesImpl.jar
set OZLIB=%OZLIB%;%OZLIB%\xml -api s.jar
set OZLIB=%OZLIB%;%OZLIB%\parser.jar
set OZLIB=%OZLIB%;%OZLIB%\xerces.jar
set OZLIB=%OZLIB%;%OZLIB%\crimson.jar
set OZLIB=%OZLIB%;%OZLIB%\sj sxp.jar
set OZLIB=%OZLIB%;%OZLIB%\jsr173_api.jar

rem -----
rem      Li brary for JavaScript
rem -----
set OZLIB=%OZLIB%;%OZLIB%\js.jar

rem -----
rem      Li brary for XML Store
rem -----
set OZLIB=%OZLIB%;%OZLIB%\dtdparser12.jar

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

```

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

rem -----
rem     JDBC Driver for Oracle
rem -----
set OZLIB=%OZLIB%;%OZLIB%\clASSES12.zip

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

rem -----
rem     JDBC Driver for Informix
rem -----
set OZLIB=%OZLIB%;%OZLIB%\ifxj dbc.jar

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

rem -----
rem     JDBC Driver for MSSQL
rem -----
rem set OZLIB=%OZLIB%;%OZLIB%\jkj dbc2.jar
set OZLIB=%OZLIB%;%OZLIB%\msbase.jar
set OZLIB=%OZLIB%;%OZLIB%\msutil.jar
set OZLIB=%OZLIB%;%OZLIB%\mssql server.jar

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

```

set OZLIB=%OZLIB%; %OZJLIB\JDBC\UNI\sqlj\dbc10.jar
set OZLIB=%OZLIB%; %OZJLIB\JDBC\SAP\sapjco.jar

rem -----
rem     JDBC Driver for Uni -SQL
rem -----
set OZLIB=%OZLIB%; %OZJLIB\JDBC\UNI\sqlj\dbc10.jar

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

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

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

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


rem OZServiceSV.exe //DS//%1 --Opti onName="Opti onValue"
OZServiceSV.exe      //IS//%1      --Di splayName="OZServer"      --
Description="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	log level , ERROR log WARN "ERROR" level 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

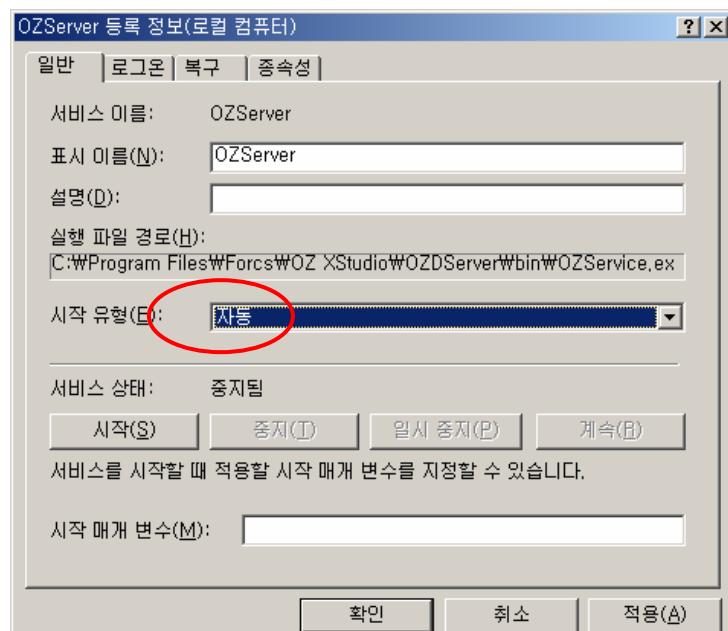
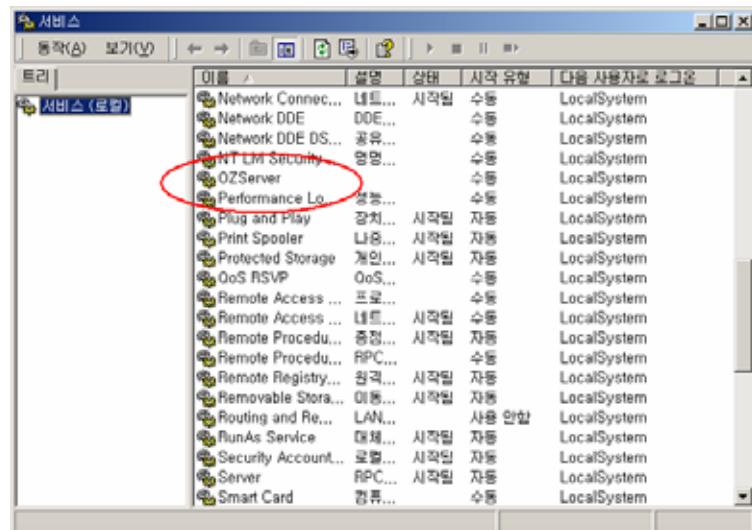
{ } \bin\OZServerInstallService.bat

{ } \bin\OZServerUninstallService.bat

가

OZServer

OZServer



OZServer

: NT

NT

ozstart.bat



가

WAS

"

WAS

– WAS

WAS

"

WAS

- **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

```
###  
### Configuration of Cache Manager  
###  
  
CACHE_FILE_PATH = %OZ_HOME%/cache/  
CACHE_DM_FILE_PATH = %OZ_HOME%/dm_cache/  
  
repository. active=false  
repository. memoryCacheVal i dTi me=1200  
repository. di skCacheVal i dTi me=0  
repository. freeMemoryPercentage=0  
  
datamodule. report. active=false  
datamodule. report. memoryCacheVal i dTi me=1200  
datamodule. report. di skCacheVal i dTi me=0  
datamodule. report. freeMemoryPercentage=0  
  
datamodule. application. active=false  
datamodule. application. memoryCacheVal i dTi me=1200  
datamodule. application. di skCacheVal i dTi me=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 '[]'

- 가 '/sales/car'

	datamodule.report.active = true
	datamodule.application.active = true
- (dept1.odi)

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

	datamodule.report.[/sales/car].[dept1.odi].[dept1.odi].active = true
	datamodule.application.[/sales/car].[dept1.odi].[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
 - '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	
Client	checkAll		false	()
	MAC Address, IP Address, HDD Serial			
MACAddress	checkAll	true	Serial	MAC Address, IP Address, HDD Serial
		false	Serial	MAC Address, IP Address, HDD Serial ()
IPAddress	checkAll	MAC Address가 MAC Address		
		true	MAC Address	MAC Address가 MAC Address
HDDSerial		IP Address가 IP Address		
		true	Address	IP Address가 IP Address
		()		
		HDD Serial		HDD Serial

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

- **clientlist.xml** 파일에 **checkAll** 속성이 true인 경우
HDD Serial과 Serial은 같은 값입니다.
- **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>

```

```
<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 :

db.properties

■ Daemon/Servlet

{OZ_HOME}\conf\db.properties

가

DB Connection Pool

DB Connection Pool

aliasename.fieldname = value

■ aliasename

가

■ fieldname

■ db.properties

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

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

: db.properties user, password ozencrypted.bat

가

"

DBMS db.properties

■ Oracle

```
oracle_exempl.e.vendor=oracle
oracle_exempl.e.serverAddress=127.0.0.1
oracle_exempl.e.portNo=1521
oracle_exempl.e.sid=ORCL
oracle_exempl.e.user=oz
oracle_exempl.e.password=oz
```

```
oracle_exempl.e. maxconns=20
oracle_exempl.e. ini tconns=5
oracle_exempl.e. timeout=5
```

■ Informix

```
informix_exempl.e. vendor=informix
informix_exempl.e. serverAddress=127.0.0.1
informix_exempl.e. portNo=1526
informix_exempl.e. serverName=OZServer
informix_exempl.e. dbName=sysutils
informix_exempl.e. user=informix
informix_exempl.e. password=informix
informix_exempl.e. maxconns=20
informix_exempl.e. ini tconns=5
informix_exempl.e. timeout=5
```

■ MS-SQL

```
mssql_exempl.e. vendor=mssql
mssql_exempl.e. serverAddress=127.0.0.1
mssql_exempl.e. portNo=1433
mssql_exempl.e. dbName=newintra
mssql_exempl.e. user=sa
mssql_exempl.e. password=
mssql_exempl.e. maxconns=20
mssql_exempl.e. ini tconns=5
mssql_exempl.e. timeout=5
```

■ ODBC

```
odbc_exempl.e. vendor=odbc
odbc_exempl.e. dsn=odbc_exempl.e
odbc_exempl.e. user=
odbc_exempl.e. password=
odbc_exempl.e. maxconns=5
odbc_exempl.e. ini tconns=2
odbc_exempl.e. timeout=5
```

: NT

ODBC

DNS

ODBC

■ db2

```
db2_exempl.e. vendor=db2
db2_exempl.e. serverAddress=127.0.0.1
```

```
db2_exampl e. portNo=1344
db2_exampl e. dbName=db2
db2_exampl e. user=db2admi n
db2_exampl e. maxconns=20
db2_exampl e. i ni tconns=5
db2_exampl e. ti meout=5
```

■ **sybase**

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

■ **unisql**

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

■ **User Custom DBMS**

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

■ **Data Source JNDI**

```
ds_exampl e. vendor=orac le
ds_exampl e. serverAddress=127. 0. 0. 1
```

```
ds_exampl e. portNo=1521
ds_exampl e. si d=forcs815
ds_exampl e. user=scott
ds_exampl e. password=ti ger
ds_exampl e. maxconns=5
ds_exampl e. ini tconns=0
ds_exampl e. ti meout=5

#
# Set JDBC Driver using JNDI .
# com. forcs. j dbc. JNDI JDBC Dri ver is provided by FORCS
# in order to use DataSource.
#
ds_exampl e. dri ver=com. forcs. j dbc. JNDI JDBC Dri ver

#
# URL Nami ng Rul e
# forcs: <j ndi _context_factory_name>: <user>: <password>: <j ndi _source_name>
# forcs: <j ndi _context_factory_name>: <j ndi _source_name>
#
# DataSource of WebLogic
ds_exampl e. url =forcs: webl ogi c. j ndi . WLIn i ti al ContextFactory: <DataSource Name>

# DataSource of WebSphere
ds_exampl e. url =forcs: com. ibm. websphere. nami ng. WsIn i ti al ContextFactory: <DataSource Name>

# DataSource of Jeus
ds_exampl e. url =forcs: j eus. j ndi . JEUSContextFactory: <DataSource Name>

# DataSource of iPlanet
# Notice : DataSource Name include "j dbc/" in case of iPlanet
#           ex) j dbc/ecfcDS
ds_exampl e. url =forcs: com. netscape. server. j ndi . RootContextFactory: <DataSource Name>

# DataSource of JRUN
ds_exampl e. url =forcs: j run. nami ng. 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>
</DBCONNECTION_INFORMATION>
```

```

<JAVA>j dbc: oracl e: thi n: @(DESCRIPTI ON=(ADDRESS=(HOST={serverAddress}) (PROTOCOL=t
cp) (PORT={portNo})) (CONNECT_DATA=(SI D={si d})))</JAVA>
                                                Source={si d}; User
ID={user}; Password={password}; </NET>
                                                </URL>
                                                <HANDLER>
                                                    <JAVA>com. forcs. db. OZGeneral Handler</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="si d">
                                                        <LABEL LANG="en_us">SI D</LABEL>
                                                        <LABEL LANG="ko_kr"></LABEL>
                                                        <LABEL LANG="ja_jp">SI D</LABEL>
                                                    </ITEM>
                                                </ITEMS>
                                                <ADDITI ONAL>
                                                    <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_DELETER">%</INFO>
                                                    </INFOS>
                                                </ADDITI ONAL>
                                            </VENDOR>

```

```

<VENDOR NAME="MS-SQL">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">MS-SQL</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Dri ver</LABEL>
        </DI SPLAYNAME>
        <JAVA>com. microsoft. jdbc. sql server. SQLServerDri ver</JAVA>
        <NET>System. Data. Sql Cl i ent. Sql Connect i on</NET>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>

        <JAVA>j dbc: mi crosoft: sql server: //{{serverAddress}: {portNo}; DatabaseName={dbName}
</JAVA>
        <NET>Network                                         Library=DBMSSOCN; Data
Source={serverAddress}, {portNo}; I ni tial Catalog={dbName}; User
ID={user}; Password={password}; </NET>                                         Catalog={dbName}; User
ID={user}; Password={password}; </NET>
    </URL>
    <HANDLER>
        <JAVA>com. forcs. db. OZMSSQLHandl er</JAVA>
        <NET>com. forcs. db. OZMssql Handl er</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="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>

```

```

        </I TEM>
    </I TEMS>
    <ADDI TI ONAL>
        <FI ELDTYPES>
            <FI ELDTYPE NAME="DATE">DATETIME</FI ELDTYPE>
        </FI ELDTYPES>
        <I NFOS>
            <I NFO          KEY="DATE_EXPRESSION">CAST(' @YYYY. @MM. @DD
@hh: @mm: @ss' AS DATETIME)</I NFO>
            </I NFOS>
        </ADDI TI ONAL>
    </VENDOR>
    <VENDOR NAME="IBM-DB2">
        <DI SPLAYNAME>
            <LABEL LANG="en_us">IBM-DB2</LABEL>
        </DI SPLAYNAME>
        <DRI VER>
            <DI SPLAYNAME>
                <LABEL LANG="en_us">Driver</LABEL>
            </DI SPLAYNAME>
            <JAVA>COM. ibm. db2. j dbc. net. DB2Driver</JAVA>
            <NET>IBM. Data. DB2. DB2Connection</NET>
        </DRI VER>
        <URL>
            <DI SPLAYNAME>
                <LABEL LANG="en_us">URL</LABEL>
            </DI SPLAYNAME>
            <JAVA>j dbc: db2: // {serverAddress}: {portNo}/{dbName}</JAVA>
            <NET>Server={serverAddress}; {portNo}; Database={dbName}; User
ID={user}; Password={password}; </NET>
        </URL>
        <HANDLER>
            <!-- JAVA , OZGeneral Handler . . -->
            <NET>com. forcs. db. OZDb2Handler</NET>
        </HANDLER>
        <PARAMETER_FLAG>
            <NET>@</NET>
        </PARAMETER_FLAG>
        <I TEMS>
            <I TEM 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>
            </I TEM>

```

```

<I TEM 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>
</I TEM>
<I TEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr">          </LABEL>
    <LABEL LANG="ja_jp">Database name</LABEL>
</I TEM>
</I TEMS>
<ADDI TI ONAL>
    <FI ELDTYPES>
        <FI ELDTYPE NAME="DATE">TI MESTAMP</FI ELDTYPE>
    </FI ELDTYPES>
    <I INFOS>
        <I INFO      KEY="DATE_EXPRESSION">TO_DATE(' @YYYY-@MM-@DD
@hh:@mm:@ss', ' YYYY-MM-DD HH24:MI:SS')</I INFO>
    </I INFOS>
</ADDI TI ONAL>
</VENDOR>
<VENDOR NAME="ODBC">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">ODBC</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DI SPLAYNAME>
        <JAVA>sun.jdbc.odbc.JdbcOdbcDriver</JAVA>
        <NET>System.Data.Odbc.OdbcConnection</NET>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
        <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">Data Source Name</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 i://<{serverAddress}>:{portNo}<{/}>:{dbName}<{/}>:informixserver={serverName}</JAVA>

            <NET>Host={serverAddress};Service={portNo};Server={serverName};Database={dbName}
            ;UserID={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 Address</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">Port Number</LABEL>
                <LABEL LANG="ja_jp">Database server port number</LABEL>
            </ITEM>
        </ITEMS>
    </VENDOR>

```

```

<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>
</ITEMS>
</VENDOR>
<VENDOR NAME="SYBASE">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">SYBASE</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DI SPLAYNAME>
        <JAVA>com.sybase.jdbc.SybDriver</JAVA>
        <NET>Sybase.Data.AseClient.AseConnection</NET>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
    </URL>
    <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>

```

```

</I TEM>
<I TEM 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>
</I TEM>
<I TEM 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>
</I TEM>
<I TEM KEY="dbName">
    <LABEL LANG="en_us">Database name</LABEL>
    <LABEL LANG="ko_kr"> </LABEL>
    <LABEL LANG="ja_jp">Database name</LABEL>
</I TEM>
</I TEMS>
<ADDI TI ONAL>
    <FI ELDTYPES>
        <FI ELDTYPE NAME="DATE">DATETIME</FI ELDTYPE>
    </FI ELDTYPES>
    <INfos>
        <INFO KEY="DATE_EXPRESSION">CONVERT(DATETIME,
'@YYYY. @MM. @DD @hh: @mm: @ss' )</INFO>
    </INfos>
</ADDI TI ONAL>
</VENDOR>
<VENDOR NAME="UNI -SQL">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">UNI -SQL</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DI SPLAYNAME>
        <JAVA>uni sql . j dbc. driver. Uni SQLDriver</JAVA>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
        <JAVA>j dbc: uni sql : {serverAddress}: {portNo}: {dbName}: ::</JAVA>
    </URL>
<HANDLER/>

```

```

<I TEMS>
    <I TEM 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>
    </I TEM>
    <I TEM 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>
    </I TEM>
    <I TEM KEY="dbName">
        <LABEL LANG="en_us">Database name</LABEL>
        <LABEL LANG="ko_kr"> </LABEL>
        <LABEL LANG="ja_jp">Database name</LABEL>
    </I TEM>
</I TEMS>
</VENDOR>
<VENDOR NAME="User-Defined">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">User-Defined</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DI SPLAYNAME>
        <JAVA>{driver}</JAVA>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
        <JAVA>{url}</JAVA>
    </URL>
    <I TEMS>
        <I TEM KEY="driver">
            <LABEL LANG="en_us">Driver Class Name</LABEL>
            <LABEL LANG="ko_kr">JDBC </LABEL>
            <LABEL LANG="ja_jp">Driver Class Name</LABEL>
        </I TEM>
        <I TEM KEY="url">
            <LABEL LANG="en_us">Connection URL</LABEL>
            <LABEL LANG="ko_kr">JDBC URL</LABEL>
            <LABEL LANG="ja_jp">Connection URL</LABEL>
        </I TEM>
    </I TEMS>
</VENDOR>

```

```

        </ITEM>
    </ITEMS>
</VENDOR>
</DBCONNECTION_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", "ENCPWP", "PASSWORD",
    "USEALIAS", "POOLALIAS", "ALIASFILENAME", "AUTOCOMMIT",
    "ENCODECHARSET", "DECODECHARSET", "TIMEFORMAT", "DATEFORMAT",
    "TIMESTAMPFORMAT"
-                               RDB           DB Vendor      <ADDITIONAL>      가
    DATE_EXPRESSION
    . (           ,
    DB Vendor가
    )
.
```

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')

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

dbconfig.xsd

dbconfig.xml xsd . dbconfig.xml

```
<?xml version="1.0" encoding="utf-8"?>
<xsd: schema xml ns: 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_DDISPLAYNAME">
        <xsd: sequence>
            <xsd: element name="LABEL" type="t_LABEL" minOccurs="1" maxOccurs="unbounded" />
        </xsd: sequence>
    </xsd: complextYPE>

    <xsd: complextYPE name="t_DRI VER">
        <xsd: sequence>
            <xsd: element name="DISPLAYNAME" type="t_DDISPLAYNAME" />
            <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: sequence>
    </xsd: compl exType>

    <xsd: compl exType name="t_PARAMETERFLAG">
        <xsd: sequence>
            <xsd: el ement name="JAVA" type="xsd: string" mi n0ccurs="0"
maxOccurs="1" />
            <xsd: el ement name="NET" type="xsd: string" mi n0ccurs="0"
maxOccurs="1" />
        </xsd: sequence>
    </xsd: compl exType>

    <xsd: compl exType name="t_IT EM">
        <xsd: sequence>
            <xsd: el ement name="LABEL" type="t_LABEL" mi n0ccurs="1"
maxOccurs="unbounded" />
        </xsd: sequence>
        <xsd: attribute name="KEY" type="xsd: string" use="requi red" />
        <xsd: attribute name="USE_PROPERTY" type="xsd: string" use="optional" />
        <xsd: attribute name="DEFAULT" type="xsd: string" use="optional" />
    </xsd: compl exType>

    <xsd: compl exType name="t_IT EMS">
        <xsd: sequence>
            <xsd: el ement name="IT EM" type="t_IT EM" mi n0ccurs="0"
maxOccurs="unbounded" />
        </xsd: sequence>
    </xsd: compl exType>

    <xsd: compl exType name="t_FIELDTYPE">
        <xsd: si mpl eContent>
            <xsd: extensi on base="xsd: string">
                <xsd: attribute name="NAME" type="xsd: string" />
            </xsd: extensi on>
        </xsd: si mpl eContent>
    </xsd: compl exType>

    <xsd: compl exType name="t_FIELDTYPEs">
        <xsd: sequence>
            <xsd: el ement name="FIELDTYPE" type="t_FIELDTYPE" mi n0ccurs="0"
maxOccurs="unbounded" />
        </xsd: sequence>
    </xsd: compl exType>

```

```

<xsd: compl exType name="t_I_NFO">
    <xsd: si mpl eContent>
        <xsd: extensi on base="xsd: stri ng">
            <xsd: attribute name="KEY" type="xsd: string" />
        </xsd: extensi on>
    </xsd: si mpl eContent>
</xsd: compl exType>

<xsd: compl exType name="t_I_NFOS">
    <xsd: sequence>
        <xsd: el ement name="I_NFO" type="t_I_NFO" mi n0curs="0"
maxOccurs="unbounded" />
    </xsd: sequence>
</xsd: compl exType>

<xsd: compl exType name="t_ADDI TI ONAL">
    <xsd: sequence>
        <xsd: el ement name="FI_ELDTYPES" type="t_FIELDTYPES"
mi n0curs="0" maxOccurs="1" />
        <xsd: el ement name="I_NFOS" type="t_I_NFOS" mi n0curs="0"
maxOccurs="1" />
    </xsd: sequence>
</xsd: compl exType>

<xsd: compl exType name="t_VENDOR">
    <xsd: sequence>
        <xsd: el ement name="DI_SPLNAME" type="t_DISPLNAME" />
        <xsd: el ement name="DRI VER" type="t_DRIVER" />
        <xsd: el ement name="URL" type="t_DRIVER" />
        <xsd: el ement name="HANDLER" type="t_HANDLER" mi n0curs="0"
maxOccurs="1" />
        <xsd: el ement name="PARAMETER_FLAG" type="t_PARAMETERFLAG"
mi n0curs="0" maxOccurs="1" />
        <xsd: el ement name="ITEMS" type="t_ITEMS" mi n0curs="0"
maxOccurs="1" />
        <xsd: el ement name="ADDI TI ONAL" type="t_ADDITIONAL"
mi n0curs="0" maxOccurs="1" />
    </xsd: sequence>
    <xsd: attribute name="NAME" type="xsd: string" use="requi red" />
</xsd: compl exType>

<xsd: el ement name="VENDOR" type="t_VENDOR" />

```

```
<xsd: element name="DBCONNECTI ON_I NFORMATI ON">
    <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"      ,
'LOG4J'      "Set Prioritylog Level", "Appender CONSOLE", "Appender ROLLING_FILE",
"Appender NT Event", "Appender syslog"      가      . HTTP

```

log.properties

```

#-----
# configuration 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_LOGGINGFILE. LOCATION=%OZ_HOME%/logs/server_oz.log
#BUILTIN_LOGGINGFILE. APPEND=true
#BUILTIN_LOGGINGFILE. MaxBackupIndex=5
#BUILTIN_LOGGINGFILE. MaxFileSize=1MB
#BUILTIN_LOGGINGFILE. ImmediateFlush=true

-----
# configuration of OZ logging system (LOG4J)
#
#
# Set Priority log 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 ROLLINGFILE
# File
#           MaxFileSize
#           가           가
#
#           MaxBackupIndex
#
# Layout :
# Append :
# ImmediateFlush :    가
#           false
#
# CharSet :
#           .

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

		LOG4OZ	
USE_BUILTIN_LOGGING_ENGINE	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.MaxValueSize		
BUILTIN_LOGGING_FILE.ImmediateFlush		

■ LOG4J

Set Prioritylog	priority

level		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_ FILE	ROLLING_F ILE.Type	Rolling File	
		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	

apender NT Event		true	가
		false	가
	ROLLING_F ILE.MaxBackupIndex	Backup 가	
	ROLLING_F ILE.MaxFileSize		
	ROLLING_F ILE.ImmediateFlush		
	NT_Event.Type	NT Event "NTEvent" Windows NT Lib NTEventLog Appender.dll WINNT\SYSTEM32	
	NT_Event.Layout	"Log Layout"	
	NT_Event.Threshold		
	apender syslog	SYSLOG.Type	Unix 'Syslog'
		SYSLOG.Layout	"Log Layout"
		SYSLOG.Threshold	
		SYSLOG.SyslogHost	Syslog Unix IP
		SYSLOG.Facility	Syslog '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	가
	false	가	가

■ HTTP

HTTP 가 가 ODI , ODI
가 HTTP

	HTTP	
HTTPSTORE_LOG_FILE	MANUAL	HTTP ()
	AUTO	HTTP
	NONE	HTTP
HTTPSTORE_LOG_FILE.LOCATION	가 '%OZ_HOME%/logs'	

-
- HTTP

HTTP
HTTP
"HTTP"
"HTTP"
• 'HTTPSTORE_LOG_FILE=AUTO'
HTTP
'OZ_HTTPSTATMENT.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	. (log4j) 가 1 ~59
yyyy-ww	. (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 %c{2}) %c → oz.server.servlet %c{1} → servlet %c{2} → server.servlet
d	가 Log4j (ABSOLUTE, DATE, ISO8601) 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	<pre>(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</pre>
r	<pre>† millisecond) ex) [%r] → [2994] main INFO oz.server - OZServer...</pre>
t	<pre>Thread) ex) [%t] → 59485 [Thread-2] INFO oz.server - Received a message</pre>
%	%

■ 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

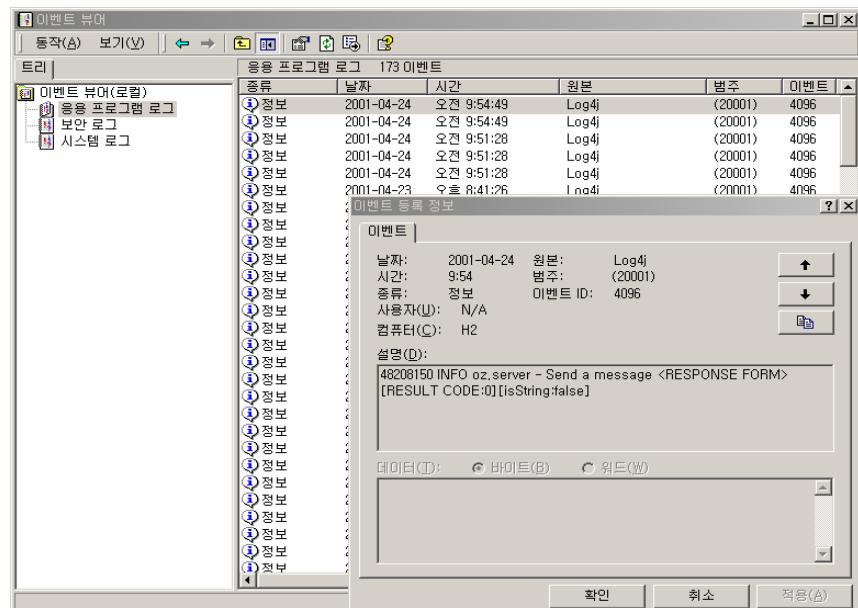
z	Time zone	Text	Pacific Standard Time
'	Escape for text	Delimiter	
"	Single quote sign	Literal	'

"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 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

```
#-----
# configuration of OZ Transaction Monitor Log
#-----
#
# OZ 4.0
#
#
#
# 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]"

<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 GROUP 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 ITEM PATH = 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 OVERVIEW 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/ozservl et
#-----

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.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.databind.properties file=%OZ_HOME%/conf/databind.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
```

ozserver.properties (Servlet Type Server)

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

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.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%"
 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.properties

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

ozservice.properties

```
#-----  
# Main configuration of ozservice  
#-----  
  
enable_ozserver=true  
enable_webservices=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, BUILTIN, 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_VALIDDAYS=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_VALIDDAYS	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	Alias가 Repository	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

```
###  
### Configuration 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>.gwsvr=


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


### TYPE5
#<alias>.gwhost
#<alias>.gwsvr
#<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

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

: 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	

sesionTimeout	: (user.multilogin 'false') 가		
	: 가		
client_message_security_level	high		
	middle		Exception Name
	low		
allow_service_qd	ODI	가	가
enable_service_repository			
allow_service_em	Enterprise Manager	가	가
allow_service_rm	Repository Manager	가	가
allow_service_rv	OZR	가	가
allow_service_av	OZA	가	가
allow_service_api	API	가	가
allow_service_sh	Scheduler	가	가
allow_service_ps	Push Server	가	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	SDM "true" SDM "BATCH" "CONCURRENT"	"datamodule_path" "Fetch Type" "Fecth Type"
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.OZUSLCientSample
```

■ 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
# CRI MSON    : 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 -regsvr

ozcntrl –regsvr

ozashell.properties

(url or ip/port, id, password)

가

가 command Line -ip, -port

가

(Command)

ozcntrl -help

Arguments

■ 가 Source

- Source A
 - ozcntrl -regsvr
 - Source A
 - 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

Commands



Command 가

[] Type 1 .

{ } Type 2 .

() Type 3 .



➤ -help

: ozcntrl -help

➤ -regsrv

```

: ozcntrl -regsvr

➤ -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
Reository 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 -ip: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
```

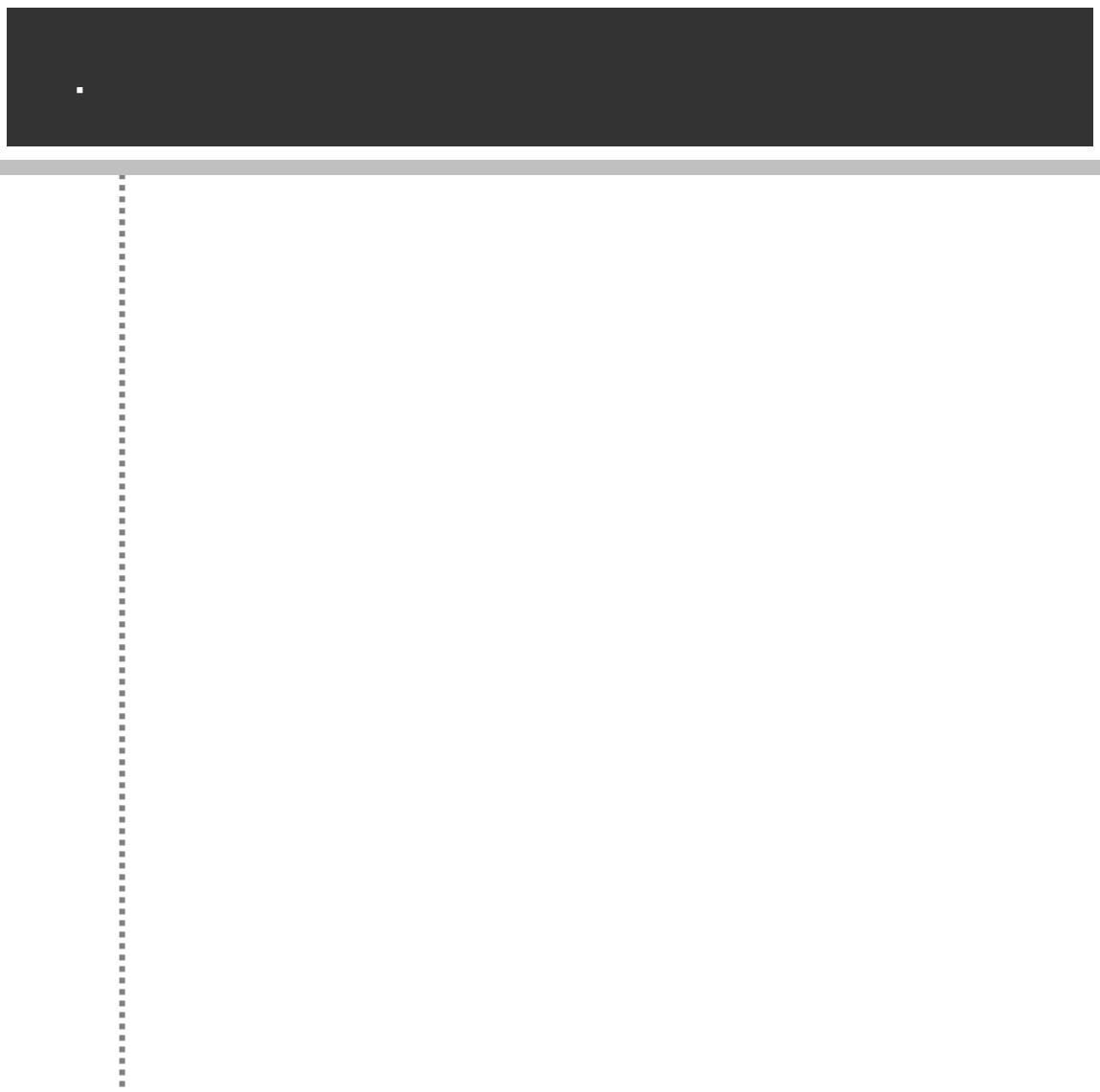
```
ozcntrl -mntr.dn -url:http://127.0.0.1:8080/oz/server
```

■ **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
```



DataAction

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

HttpRequest "SOAPAction"
HttpRequest "SOAPAction" 가 가

URL "?wsdl" "GET" Response wsdl

URL "POST" SOAP

- GET
http://localhost:8080/oz40/server/ODISERVICE?wsdl
- POST SOAP
http://localhost:8080/oz40/server/ODISERVICE

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*

public void
Prototype preProcess(javax.servlet.http.HttpServlet request,
 OZAttribute[] attr) throws OZWebServiceException

Definition	oz.server.OZServlet	preProcess	Overwrite
	SOAP Header	가	preProcess
	Exception	SOAP Fault	가

Argument *request*

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

ODI DataAction

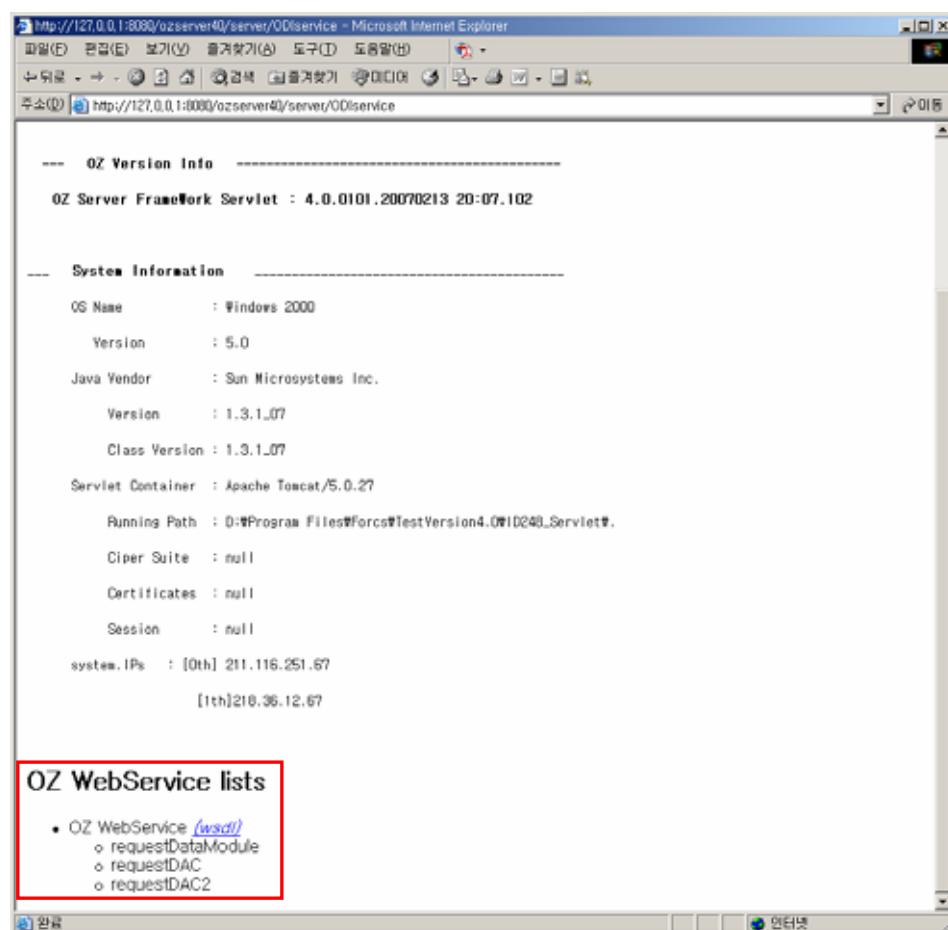
가 .

➤ "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("Sampl e1");

sources[2] = new Param();
sources[2].setNAME("birhday");
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("Sampl e1");

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);
```

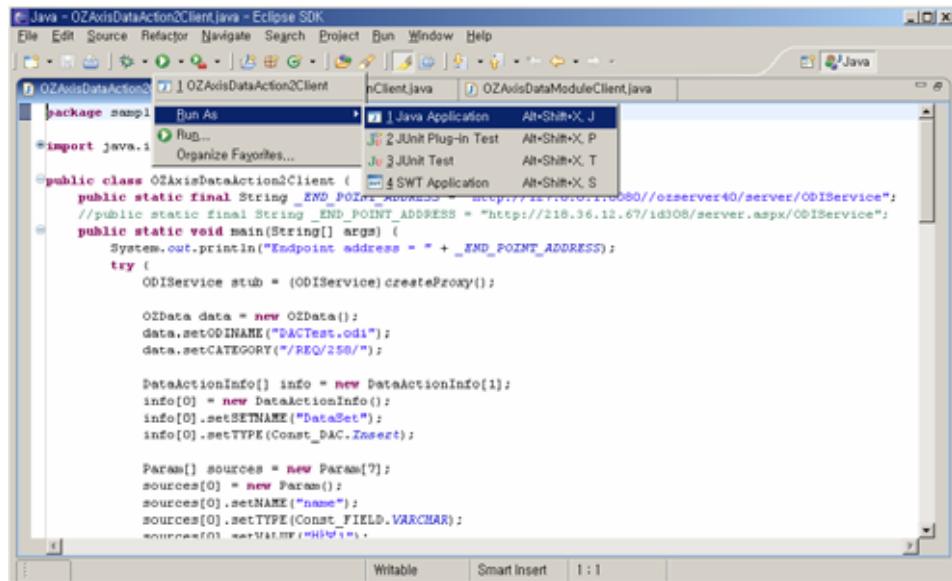
```
        data.setOZDATAACTI ONS(i nfo);

        //DataAction

        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[] 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{
    ODI ServiceServiceLocator i mpl = new ODI ServiceServiceLocator();
    i mpl.setODI ServiceEndpointAddress(_END_POINT_ADDRESS);
    return (Stub)i mpl.getODI Service();
}
}
```

➤ OZAxisDataAction2Client.java Eclipse

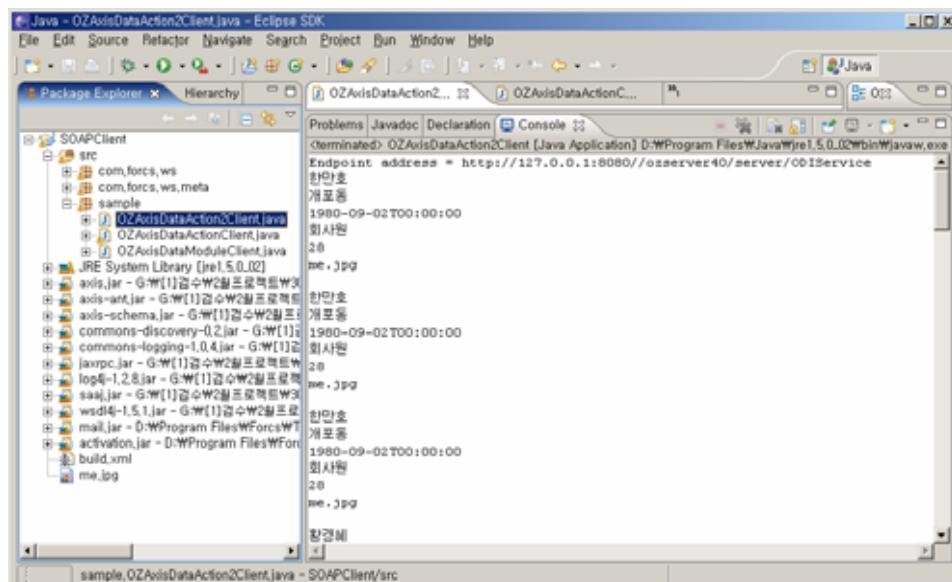


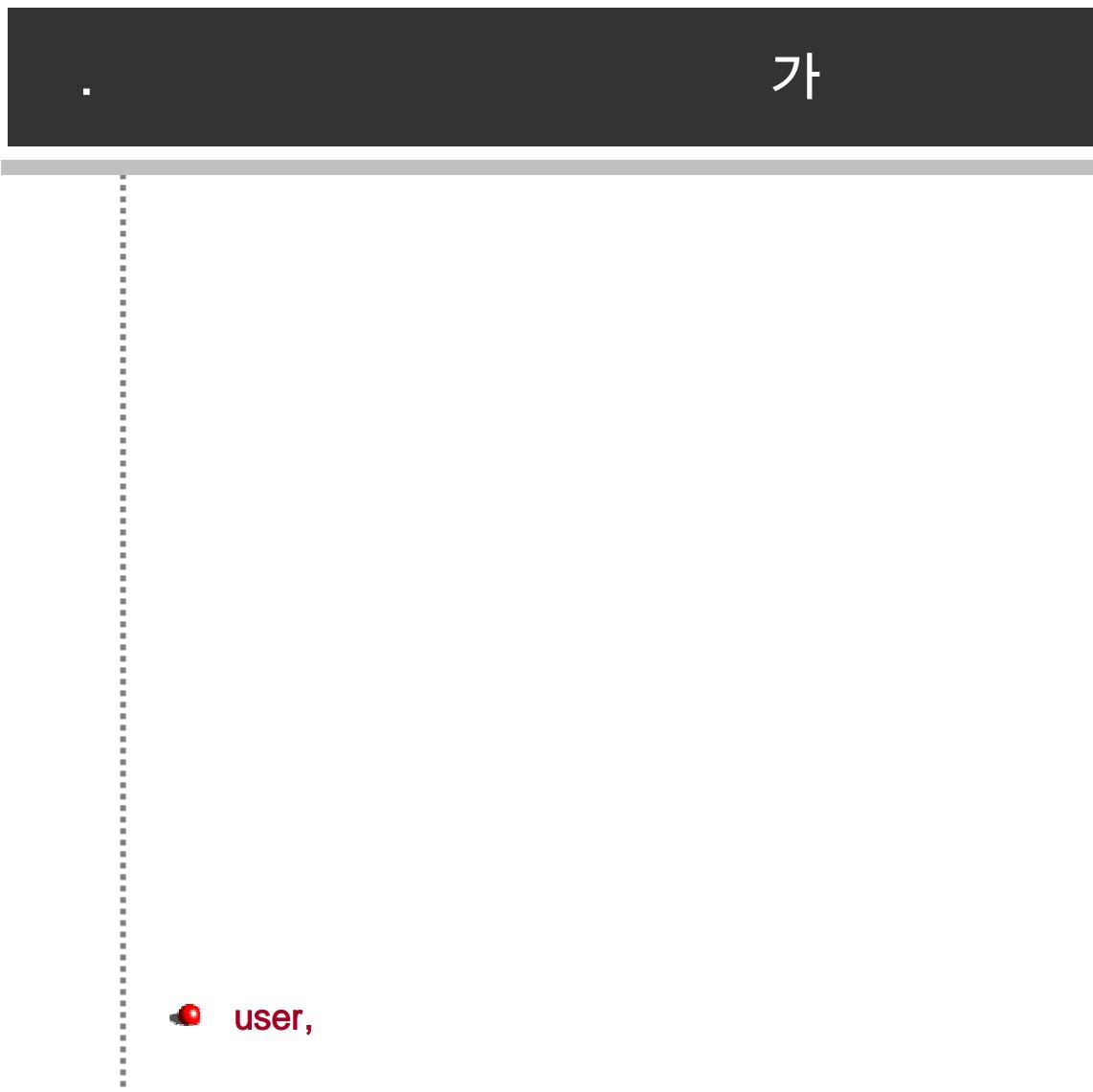
```

Java - OZAxisDataAction2Client.java - Eclipse SDK
File Edit Source Refactor Navigate Search Project Run Window Help
OZAxisDataAction2 OZAxisDataAction2Client nClient.java OZAxisDataModuleClient.java
package sample;
import java.*;
public class OZAxisDataAction2Client {
    public static final String _END_POINT_ADDRESS = "http://127.0.0.1:8080/observer40/server/ODIService";
    public static final String _END_POINT_ADDRESS = "http://218.36.12.67:id308/server.aspx/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("DCTest.odi");
            data.setCATEGORY("/REQ/250/");
            DataActionInfo[] info = new DataActionInfo[1];
            info[0] = new DataActionInfo();
            info[0].setSETNAME("DataSet");
            info[0].setTYPE(Const_DAC.Insert);
            Param[] sources = new Param[1];
            sources[0] = new Param();
            sources[0].setNAME("name");
            sources[0].setTYPE(Const_FIELD.VARCHAR);
            sources[0].setVAL("Hello");
        }
    }
}

```

➤ 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_aliases_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
rem OZ Server. This variable must point to the
rem
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%\ozsfw40.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
ozcar DB user가 admin)

```
C:\Program Files\Forcs\0Z XStudio 5.0\0Z Server 5.0\bin>ozencrypted.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>ozencrypted.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\WOZ XStudio 5.0\WOZ Server 5.0\bin>ozencrypted.bat ozcar user admin C:\Program Files\Forcs\WOZ XStudio 5.0\WOZ Server 5.0\conf\Wdb.properties
encrypt property 'ozcar.user' has value 'admin'
-> encrypted value :
ozcar.user_encrypted=GdKcQdRdFbGgGaKaMaPaLa
```

- db.properties password (DB ozcar DB password7 admin)

```
C:\Program Files\Forcs\XStudio 5.0\bin>ozencrypted.bat ozcar password admin C:\Program Files\Forcs\XStudio 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\XStudio 5.0\XStudio Server 5.0\bin>open  
encrypted.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\XStudio 5.0\XStudio Server 5.0\bin>osenc  
rypted.bat sap1 password user1  
encrypt property 'sap1.password' has value 'user1'  
-> encrypted value :  
sap1.password_encrypted=ScPdRcRgFgHbEbJaJbHf
```