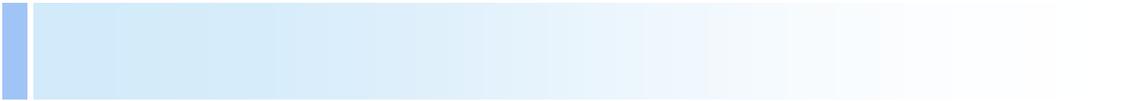


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•	7
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•	13
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가

Getting Started	
가	
가	
Getting Started	
API	API





- .NET Framework
- ADO .NET 가
- ADO .NET Framework가

- one-point
-
-

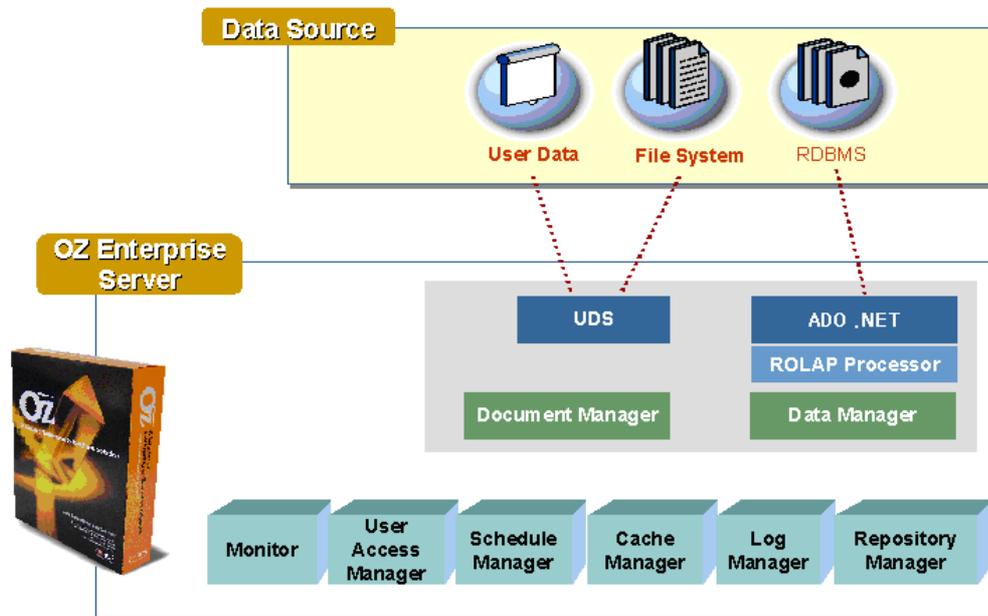
DB Pooling,

가
(Concurrent Mode)

CGI , Non-DB
UDS(User Data Store)
: UDS(User Data Store)
ADO.NET Non-DB
UDS(User Data Store) . UDS
XML, ASP, Legacy Data



가 가



UDS	UDS	Non-database Source
ADO .NET	ADO .NET	
Document Manager		
Data Manager		
Monitor		
User Access Manager	/	
Schedule Manager		가
Cache Manager		
Log Manager		
Repository Manager		



.NET Framework 1.1

(Microsoft Windows Server 2003, Microsoft Windows XP Professional)

DBMS

Oracle, Informix, Sybase, MS-SQL Server, DB2 ADO .NET DBMS

: RDB

- DB2 : DB2 Runtime Client
- Informix : Informix Client SDK가
- ODBC : IIS DSN
- Oracle : Oracle Client SDK가
- Sybase : Sybase Client SDK가
- User defined : DLL UniversalDriver
가

Microsoft .NET Framework 1.1

Microsoft Internet Information Server (IIS) 5.1

ASP.NET

() ozlicense.xml
 License
 가
 가

ozserver.properties

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

C:\Program Files\ForcS\OZ XStudio\OZ Server.NET 5.0

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

path.oz.server.home=C:\Program Files\ForcS\OZ XStudio\OZ Server.NET 5.0

path.license.file=%OZ_HOME%/license/ozlicense.xml
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.schedul.e.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.assembly.properties.file=%OZ_HOME%/conf/assembly.properties
path.ozservice.properties.file=%OZ_HOME%/conf/ozservice.properties
path.ozdbconfig.properties.file=%OZ_HOME%/conf/dbconfig.xml
path.datasource.properties.file=%OZ_HOME%/conf/datasource.properties
```

■ ASP.NET

ASP.NET IIS ASP.NET .NET Framework

```
C:\WINNT\Microsoft .NET\Framework\v1.1.4322>aspnet_regiis.exe -i
Start installing ASP.NET (1.1.4322.0).
Finished installing ASP.NET (1.1.4322.0).
```

■

가 가

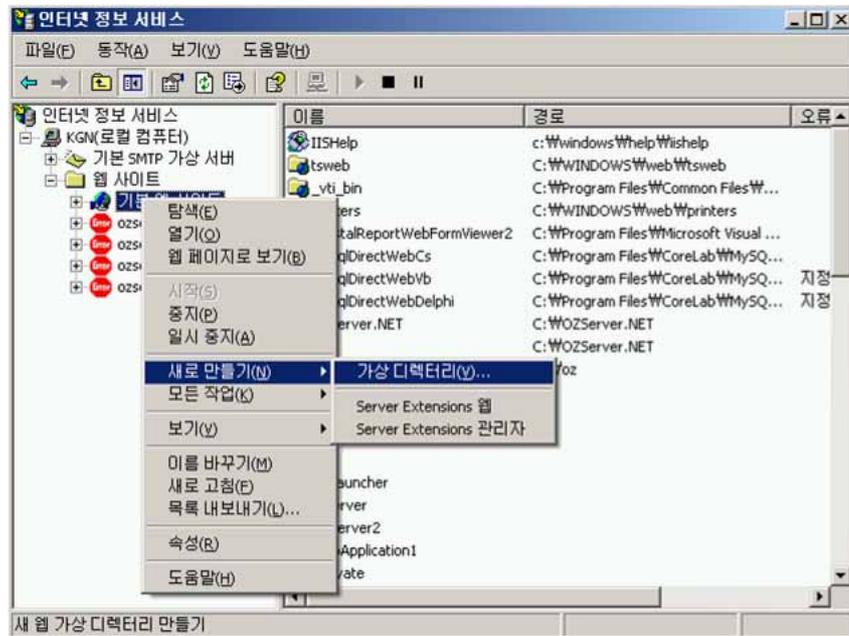
%OZ_HOME%

가

가

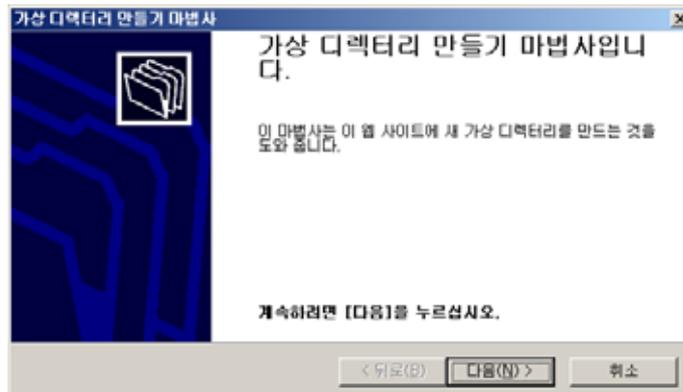


[] [가]

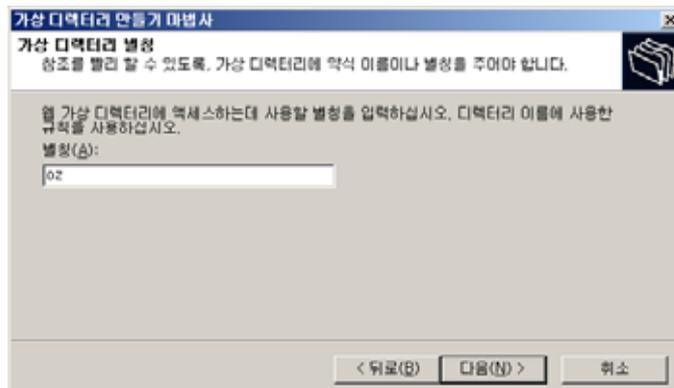


➤ "가

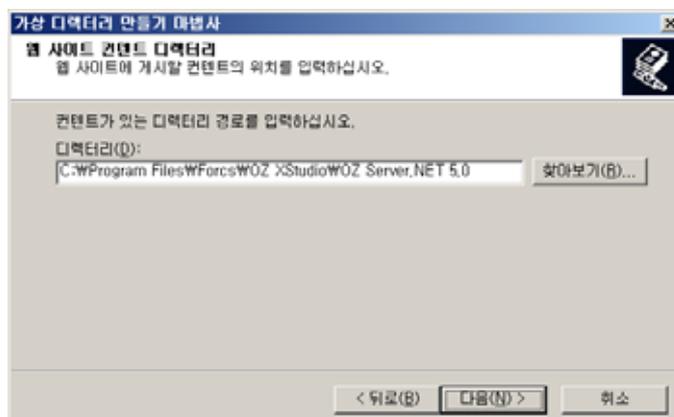
"가 []

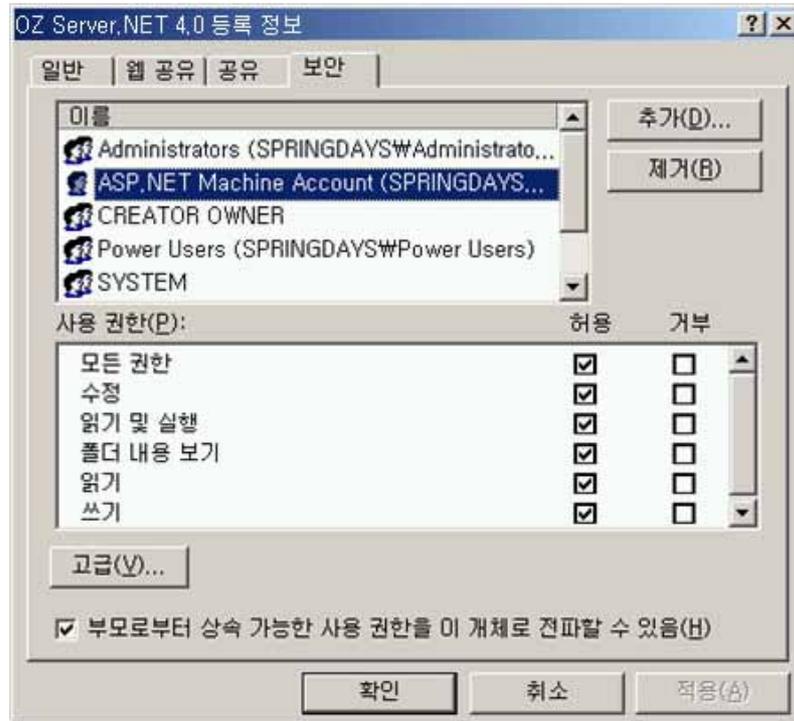


➤ 가 " " [] . ("OZ")



➤ [] [] . ("C:\Program Files\Forcs\OZ XStudio\OZ Server.NET 5.0")





: ASP.NET

ASP.NET

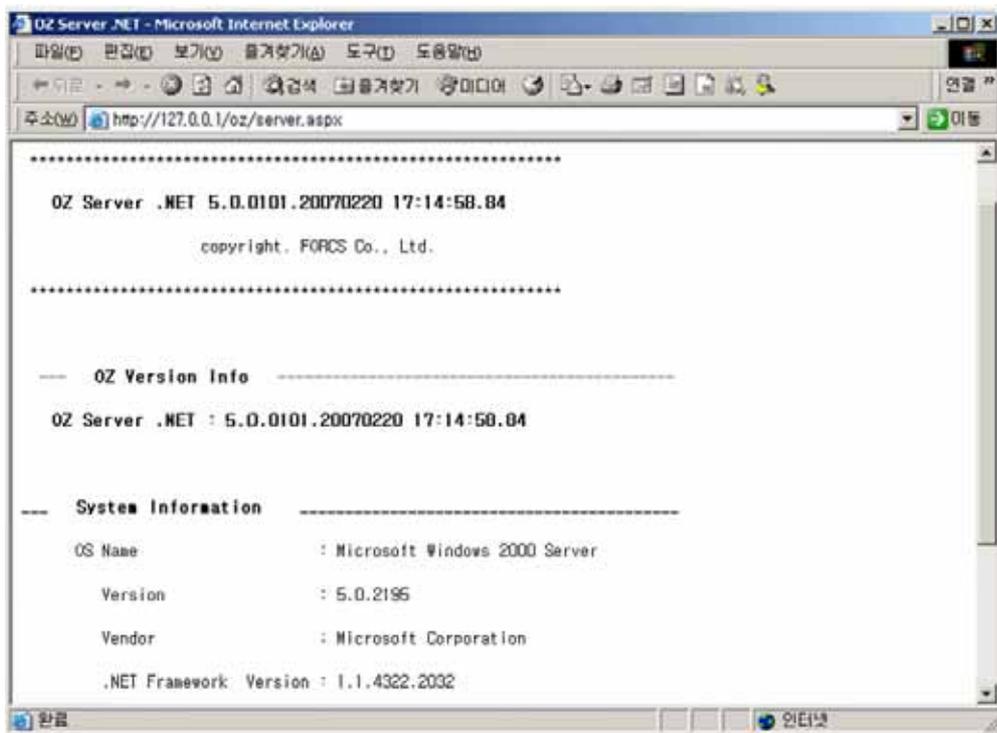
가



{OZ_HOME}	Global.asax) (
	ozserver.properties	
	Server.aspx	
	Web.config	가
bin	OZDatabaseHandler.dll	
	OZServer.NET.dll	
	SAP.Connector.dll	SAP
	OZUSLServer.dll	USL
	OZServiceLauncher.exe	
	OZServiceLauncher.exe.config	OZServiceLauncher.exe
	OZServiceManager.exe	
	OZServiceManager.exe.config	OZServiceManager.exe
	OZEncryptor.exe	sap.properties user, password
	user.cif	None) (

cache	가	
cache_dm		
conf	assembly.properties	
	cachemngr.properties	
	databind.properties	
	datasource.properties	
	db.properties	DB
	dbconfig.xml	DBMS ADO .NET
	dbconfig.xsd	
	log.properties	
	monitor.properties	Monitor
	ozservice.properties	
	repository.properties	
	sap.properties	SAP
	spmgr.properties	
	srmngr.properties	
	uslmngr.properties	(, PKI)
ozudl.properties		
license	ozlicense.xml	
logs	monitor.log	Monitor
	server.log	
scheduled_data		

IIS가



URL

http:// /가 / aspx

가 "oz" aspx "server.aspx"
URL "http://127.0.0.1/oz/server.aspx"가 .



```
{
    } \conf\ozserver.properties      "server.port"
```

- ozserver.properties

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

server.port = 8003
path.oz.server.home= C:\Program Files\Forcs\OZ XStudio 5.0\OZ
Server.NET 5.0
...
```

```
{
    } \bin\OZServiceManager.exe.config
        "ozserver.properties"
{
    } \bin\OZServiceLauncher.exe.config
```

- OZServiceManager.exe.config

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
```

```

<appSettings>
  <add key="name" value="OZServer.NET" />
  <add key="executable_binary" value="%MNGR_HOME%\OZServiceLauncher.exe" />
  <add key="description" value="OZ Server .NET Windows Service" />
</appSettings>
</configuration>

```

name	
executable_binary	: "%MNGR_HOME%\OZServiceManager.exe"
description	

- OZServiceLauncher.exe.config

```

<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <appSettings>
    <add key="name" value="OZServer.NET" />
    <add key="ozserver.properties" value="C:\Program Files\FORCS\OZ XStudio 5.0\OZ Server.NET 5.0\ozserver.properties" />
  </appSettings>
</configuration>

```

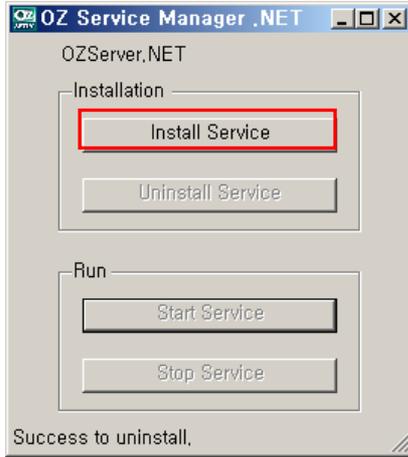
Install Service	
Uninstall Service	
Start Service	
Stop Service	

■

{ } \bin\OZServiceManager.exe OZ Server

Manager .NET

[Install Service]



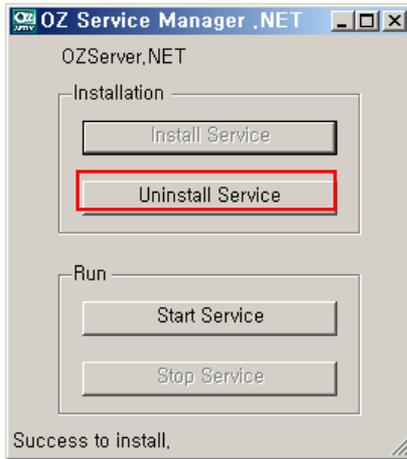
Install Service	
Uninstall Service	
Start Service	
Stop Service	

"OZ Service Manager .Net"

가

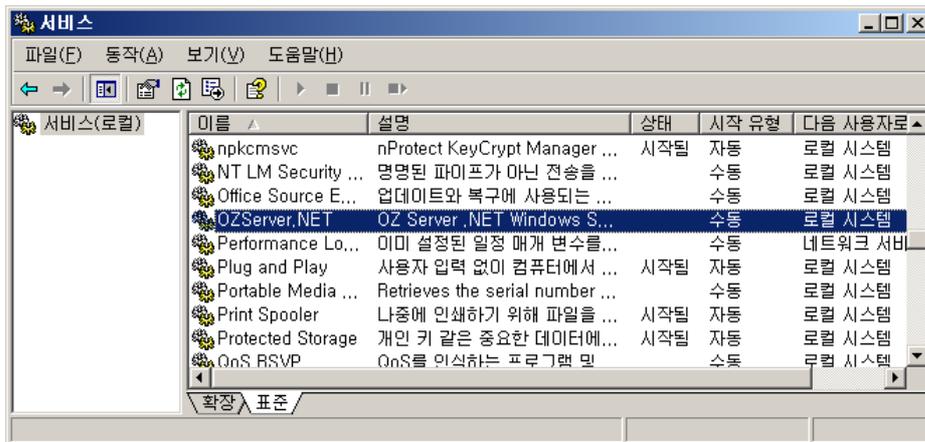
■

{ } \bin\OZServiceManager.exe OZ Server
 Manager .NET [UnInstall Service]



■

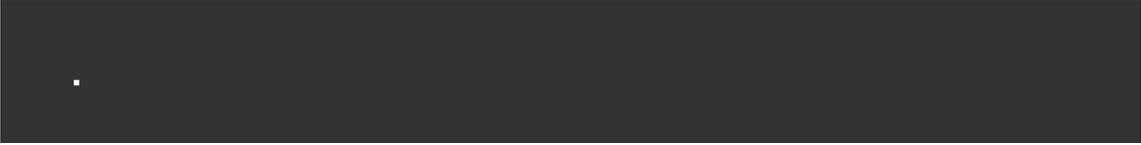
가



■

"TCP"

"ozserver.properties"

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

assembly.properties

{OZ_HOME}\conf\assembly.properties

PC
가

assembly.properties

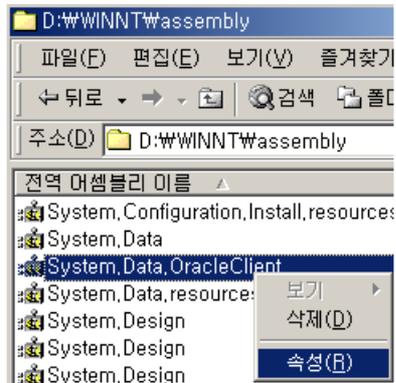
```
###  
###   Configurai on of Assembly  
###  
  
home=  
  
#al i as. fi l epath=  
#al i as. name=  
#al i as. versi on=  
#al i as. cul tuer=  
#al i as. publ i ckey=  
#e. g. sessi onsl . fi l epath=
```

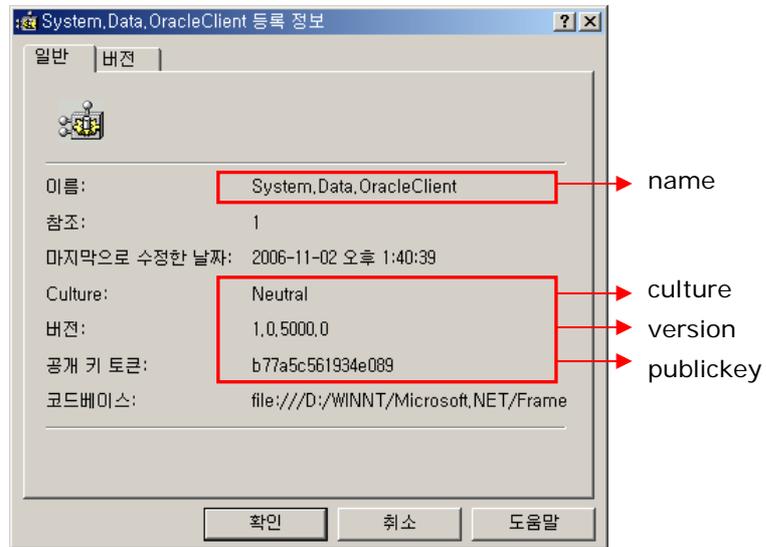
■ assembly.properties

home	(EM)

filepath	: filepath publickey	name, version, culture, filepath
name		
version		
culture		
publickey		
e.g.sessionusl.file path	USL : OZUSLServer.dll /bin 가	(OZUSLServer.dll) 가

: assembly.properties





DBMS assembly.properties

■ MS-SQL

```
#
#MSSQL_ADO.NET_Provider
#
mssql_DB.name=System.Data
mssql_DB.version=1.0.5000.0
mssql_DB.culture=Neutral
mssql_DB.publickey=b77a5c561934e089
```

: db.properties DB

Ex) mssql_example.assembly= mssql_DB

■ Oracle

```
#
#Microsoft Oracle ADO.NET Provider
#
oracle_DB.name= System.Data.OracleClient
oracle_DB.version=1.0.5000.0
oracle_DB.culture=Neutral
oracle_DB.publickey=b77a5c561934e089
```

: db.properties DB

Ex) oracle_example.assembly=oracle_DB

- UDS

```
uds1.filepath=%OZ_HOME%/assembly/UDSSample.dll
```

cachemngr.properties

{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 idTime=1200
repository.diskCacheVal idTime=0
repository.freeMemoryPercentage=0

datamodule.report.active=false
datamodule.report.memoryCacheVal idTime=1200
datamodule.report.diskCacheVal idTime=0
datamodule.report.freeMemoryPercentage=0

datamodule.application.active=false
datamodule.application.memoryCacheVal idTime=1200
datamodule.application.diskCacheVal idTime=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

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

	datamodule.application.[/sales/car].[dept1.odi].[SQL _1].[0].[DM_CONCURRENT_FETCH].[Code=A001].ac tive = true
--	---

clientlist.xml

{OZ_HOME}\conf\clientlist.xml

OZA, OZR

Mac Address, IP Address, HDD Serial

: clientlist.xml

XML

conf

clientlist.xml

```
<ClientList use='true' >
<Client checkAll='true' > <!-- true , MAC, IP, HDD가 -->
  <MACAddress checkAll='false' >
    <Item>00-34-25-f1-61-45</Item>
    <Item>00-14-85-f1-68-22</Item>
  </MACAddress>
  <IPAddress checkAll='false' >
    <Item>127.0.0.1</Item>
    <Item>127.0.0.2.xx</Item>
  </IPAddress>
  <HDDSerial checkAll='false' >
    <Item>S07HJ1LL200778</Item>
  <Item>L623471</Item>
  </HDDSerial >
</Client>
```

```

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

</ClientList>

```

■ clientlist.xml

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

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

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

databind.properties

{OZ_HOME}\conf\databind.properties

databind.properties

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

# unit : count, default : 0
ConcurrentFirstRow=0
```

■ databind.properties

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

datasource.properties

- **Daemon/Servlet**

{OZ_HOME}\conf\datasource.propeties

가 , HTTP , SOAP , XML

aliasname.optionname= value

: "datasource.properties"

"UTF-8"

: ODI

가 가

- **datasource.properties**

vendor	
filename	
designtimefilename	가

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

- HTTP

vendor		
url	가 HTTP	
dopost	URL POST	GET

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

nullmark	NULL
errorretrycount	HTTP 가

- SOAP

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

- XML

vendor	
xmlurl	XML
samplexmlurl	XML
schemapath	DTD/XSD

[datasource.properties](#)



```
# FILE CSV
file_csv.VENDOR=FILE
file_csv.FILENAME=C:\Repository\csv\sample.csv
file_csv.DESIGNTIMEFILENAME=C:\Repository\csv\sample.csv
file_csv.CHECKERROR=ERROR_PREFIX
file_csv.CHARACTERSET=utf-8
file_csv.HASFIELDTYPE=true
```

```
file_csv.FIELDELIMITER=COMMA
file_csv.LINEDELIMITER=LINEFEED
file_csv.NULLMARK=NULL
file_csv.STARTINDEX=1

# FILE      XML
file_xml.VENDOR=FILE
file_xml.FILENAME=C:\Repositoryxml\simpl e.xml
file_xml.DESIGNITEMFILENAME=C:\Repository\xml\simpl e.xml
file_xml.DATASETNODENAME=DATASET
file_xml.RECORDNODENAME=RECORD
file_xml.STARTINDEX=1
```

■ HTTP

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

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

■ SOAP

```
# SOAP
soap.VENDOR=SOAP
```

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

■ **XML**

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

db.properties

{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	ADO .NET (Provider)
url	ADO .NET (Provider) URL
props	ADO .NET (Provider) 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
assembly	DB : assembly.properties alias

DBMS db.properties

■ Oracle

```

oracl e_examp l e. vendor=oracl e
oracl e_examp l e. serverAddress=127. 0. 0. 1
oracl e_examp l e. portNo=1521
oracl e_examp l e. si d=ORCL
oracl e_examp l e. user=oz
oracl e_examp l e. password=oz
oracl e_examp l e. maxconns=20
oracl e_examp l e. i ni tconns=5
    
```

```
oracle_example.timeout=5
```

■ **Informix**

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

■ **MS-SQL**

```
mssql_example.vendor=mssql  
mssql_example.serverAddress=127.0.0.1  
mssql_example.portNo=1433  
mssql_example.dbName=newintra  
mssql_example.user=sa  
mssql_example.password=  
mssql_example.maxconns=20  
mssql_example.iniconns=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.iniconns=2  
odbc_example.timeout=5
```

: NT

ODBC

DNS

ODBC

DNS

.

■ **db2**

```
db2_example.vendor=db2  
db2_example.serverAddress=127.0.0.1  
db2_example.portNo=1344  
db2_example.dbName=db2
```

```
db2_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
```

dbconfig.xml, dbconfig.xsd

{OZ_HOME}\conf\dbconfig.xml

{OZ_HOME}\conf\dbconfig.xsd

DBMS ADO .NET . 가

dbconfig.xml

DBMS ADO .NET

```
<?xml version="1.0" encoding="UTF-8"?>
<DBCONNECTI ON_I NFORMATI ON                    xml ns: xsi ="http: //www. w3. org/2001/XMLSchema-i nstance"
xsi : noNamespaceSchemaLocati on="dbconfi g. xsd" >
  <VENDOR NAME="oracl e">
    <DI SPLAYNAME>
      <LABEL LANG="en_us">ORACLE</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
      <DI SPLAYNAME>
        <LABEL LANG="en_us">Dri ver</LABEL>
      </DI SPLAYNAME>
      <JAVA>oracl e. j dbc. dri ver. Oracl eDri ver</JAVA>
      <NET>System. Data. Oracl eCl i ent. Oracl eConnecti on</NET>
    </DRI VER>
    <URL>
      <DI SPLAYNAME>
        <LABEL LANG="en_us">URL</LABEL>
      </DI SPLAYNAME>

    <JAVA>j dbc: oracl e: thi n: @(DESCRI PTI ON=(ADDRESS=(HOST={serverAddress})) (PROTOCOL=t
```

```

cp) (PORT={portNo})) (CONNECT_DATA=(SID={sid}))</JAVA>
      <NET>Data                                     Source={sid}; User
SID={user}; Password={password}; </NET>
      </URL>
      <HANDLER>
        <JAVA>com. forcs. db. OZGeneral Handl er</JAVA>
        <NET>com. forcs. db. OZOracI eHandl er</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="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="si d">
          <LABEL LANG="en_us">SID</LABEL>
          <LABEL LANG="ko_kr"> </LABEL>
          <LABEL LANG="j a_ j p">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_DELETER">%</INFO>
        </INFOS>
      </ADDITIONAL>
      <MARS ACTIVE="true" MAJOR_VERSION="1" MINOR_VERSION="1"/>
</VENDOR>

```

```

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

    <JAVA>jdbc:mscrosft:sqlserver://{serverAddress}:{portNo};DatabaseName={dbName}
; SelectMethod=Cursor</JAVA>
    <NET>Network                                     Library=DBMSSOCN; Data
Source={serverAddress},{portNo};Initial           Catalog={dbName}; User
ID={user}; Password={password}; </NET>
  </URL>
  <HANDLER>
    <JAVA>com.forcs.db.OZMSSQLHandler</JAVA>
    <NET>com.forcs.db.OZMssqlHandler</NET>
  </HANDLER>
  <PARAMETER_FLAG>
    <NET>@</NET>
  </PARAMETER_FLAG>
  <ITEMS>
    <ITEM KEY="serverAddress">
      <LABEL LANG="en_us">Database server IP Address</LABEL>
      <LABEL LANG="ko_kr">IP </LABEL>
      <LABEL LANG="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>
  </ITEMS>

```

```

        </I TEM>
    </I TEMS>
    <ADDI TI ONAL>
        <FI ELDTYPES>
            <FI ELDTYPE NAME="DATE">DATETI ME</FI ELDTYPE>
        </FI ELDTYPES>
        <I NFOS>
            <I NFO KEY="DATE_EXPRESSI ON">CAST(' @YYYY. @MM. @DD
@hh: @mm: @ss' AS DATETI ME)</I NFO>
        </I NFOS>
    </ADDI TI ONAL>
</VENDOR>
<VENDOR NAME="mssql 2005">
    <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. mi crosoft. sql server. j dbc. SQLServerDri ver</JAVA>
        <NET>System. Data. Sql Cl i ent. Sql Connecti 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                               Li brary=DBMSSOCN; Data
Source={serverAddress}, {portNo}; I ni ti al       Catal og={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>
</I TEMS>
    <I TEM 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">DATE</FIELDTYPE>
    </FIELDTYPES>
    <INFOS>
        <INFO KEY="DATE_EXPRESSION">CAST('@YYYY. @MM. @DD
@hh: @mm: @ss' AS DATE) </INFO>
    </INFOS>
</ADDITIONAL>
</VENDOR>
<VENDOR NAME="mssql 2005_mars">
    <DISPLAYNAME>
        <LABEL LANG="en_us">MS-SQL</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <NET>System. Data. Sql Client. Sql Connection</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <NET>Network Library=DBMSSOCN; Data
Source={serverAddress}, {portNo}; Initial Catalog={dbName}; User
ID={user}; Password={password}; MultipleActiveResultSets=True</NET>
    </URL>
    <HANDLER>
        <NET>com. forcs. db. OZmssql Handler</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>
<ADDITIONAL>
    <FIELDTYPES>
        <FIELDTYPE NAME="DATE">DATE</FIELDTYPE>
    </FIELDTYPES>
    <INFOS>
        <INFO KEY="DATE_EXPRESSION">CAST('@YYYY. @MM. @DD
@hh: @mm: @ss' AS DATE)</INFO>
    </INFOS>
</ADDITIONAL>
<MARS ACTIVE="true" MAJOR_VERSION="2" MINOR_VERSION="0"/>
</VENDOR>
<VENDOR NAME="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>

```

```

<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 Handl er      . . -->
    <NET>com. forcs. db. OZDb2Handl 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>
<ADDI TI ONAL>
    <FI ELDTYPES>
        <FI ELDTYPE NAME="DATE">TI MESTAMP</FI ELDTYPE>
    </FI ELDTYPES>
    <INFOS>
        <INFO          KEY="DATE_EXPRESSI ON">TO_DATE(' @YYYY-@MM-@DD
@hh: @mm: @ss' , ' YYYY-MM-DD HH24: MI : SS' )</INFO>
    </INFOS>
</ADDI TI ONAL>
</VENDOR>
<VENDOR NAME="odbc">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">ODBC</LABEL>

```

```

</DI SPLAYNAME>
<DRIVER>
  <DI SPLAYNAME>
    <LABEL LANG="en_us">Driver</LABEL>
  </DI SPLAYNAME>
  <JAVA>sun.jdbc.odbc.JdbcOdbcDriver</JAVA>
  <NET>System.Data.Odbc.OdbcConnection</NET>
</DRIVER>
<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 TYPE="positional">?</NET>
</PARAMETER_FLAG>
<ITEMS>
  <ITEM KEY="dsn">
    <LABEL LANG="en_us">Data Source Name</LABEL>
    <LABEL LANG="ko_kr">                               </LABEL>
    <LABEL LANG="ja_jp">Data Source Name</LABEL>
  </ITEM>
</ITEMS>
</VENDOR>
<VENDOR NAME="informix">
  <DI SPLAYNAME>
    <LABEL LANG="en_us">INFORMIX</LABEL>
  </DI SPLAYNAME>
  <DRIVER>
    <DI SPLAYNAME>
      <LABEL LANG="en_us">Driver</LABEL>
    </DI SPLAYNAME>
    <JAVA>com.informix.jdbc.IfxDriver</JAVA>
    <NET>IBM.Data.Informix.IfxConnection</NET>
  </DRIVER>
  <URL>
    <DI SPLAYNAME>
      <LABEL LANG="en_us">URL</LABEL>
    </DI SPLAYNAME>

```

```

        <JAVA>j dbc: I nformi x-
sql i : //{serverAddress}: {portNo}/{dbName}: i nformi xserver={serverName}</JAVA>

        <NET>Host={serverAddress}; Servi ce={portNo}; Server={serverName}; Database={dbName
}; User ID={user}; Password={password}; </NET>
        </URL>
        <HANDLER>
                <NET>com. forcs. db. OZI nformi xHandl er</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">
        <DI SPLAYNAME>
                <LABEL LANG="en_us">SYBASE</LABEL>
        </DI SPLAYNAME>
        <DRIVER>
                <DI SPLAYNAME>
                        <LABEL LANG="en_us">Dri ver</LABEL>
                </DI SPLAYNAME>
        <JAVA>com. sybase. j dbc2. j dbc. SybDri ver</JAVA>
        <NET>Sybase. Data. AseCI i ent. AseConnecti on</NET>
</DRIVER>
<URL>

```

```

<DISPLAYNAME>
    <LABEL LANG="en_us">URL</LABEL>
</DISPLAYNAME>

<JAVA>jdbc: sybase: {dsn}: {serverAddress}: {portNo}/{dbName}</JAVA>
    <NET>Network                                Li brary=DBMSSOCN; Data
Source={serverAddress}, {portNo}; I ni tial      Catal og={dbName}; User
ID={user}; Password={password}; </NET>
    </URL>
<HANDLER>
    <NET>com. forcs. db. OZSybaseHandl er</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 . jdbc . driver . Uni SQLDriver</JAVA>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <JAVA>jdbc: 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">
    <DISPLAYNAME>
        <LABEL LANG="en_us">User-Defined</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>

```

```

        <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">                </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">    URL</LABEL>
        <LABEL LANG="j a_j p">Connecti on URL</LABEL>
    </ITEM>
</ITEMS>
</VENDOR>

<VENDOR NAME="MSSQL-OLEDB">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">MSSQL-OLEDB</LABEL>
    </DI SPLAYNAME>
    <DRI VER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Dri ver</LABEL>
        </DI SPLAYNAME>
        <NET>System. Data. OI eDb. OI eDbConnecti on</NET>
    </DRI VER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
        <NET>Provi der=SQLOLEDB; Data
Source={serverAddress}, {portNo}; Network                Li brary=DBMSSOCN; i ni ti al
catal og={dbName}; User Id={user}; Password={password}; </NET>
    </URL>
    <HANDLER>
        <NET>com. forcs. db. OZOLEDBHandl er</NET>

```

```

</HANDLER>
<PARAMETER_FLAG>
    <NET TYPE="positional">?</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>
<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="ORACLE-OLEDB">
    <DISPLAYNAME>
        <LABEL LANG="en_us">ORACLE-OLEDB</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <NET>System. Data. OI edb. OI eDbConnecti on</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>

```

```

        </DI SPLAYNAME>
        <NET>Provi der=ORAOLEDB. Oracl e; Data          Source={si d}; User
Id={user}; Password={password}; </NET>
    </URL>
    <HANDLER>
        <NET>com. forcs. db. OZOLEDBHandl er</NET>
    </HANDLER>
    <PARAMETER_FLAG>
        <NET TYPE="posi ti onal ">?</NET>
    </PARAMETER_FLAG>
    <ITEMS>
        <ITEM KEY="si d">
            <LABEL LANG="en_us">SI D</LABEL>
            <LABEL LANG="ko_kr">SI D</LABEL>
            <LABEL LANG="j a_j p">SI D</LABEL>
        </ITEM>
    </ITEMS>
    <ADDI TI ONAL>
        <FI ELDTYPES>
            <FI ELDTYPE NAME="DATE">DATE</FI ELDTYPE>
        </FI ELDTYPES>
        <IN FOS>
            <I NFO      KEY="DATE_EXPRESSI ON">TO_DATE(' @YYYY/@MM/@DD
@hh: @mm: @ss' , ' YYYY/MM/DD hh24: mi : ss' )</I NFO>
            <I NFO KEY="LI KE_QUERY">I i ke</I NFO>
            <I NFO KEY="LI KE_DELEMETER">%</I NFO>
        </I NFO>
    </ADDI TI ONAL>
</VENDOR>
<VENDOR NAME="SYBASE-OLEDB">
    <DI SPLAYNAME>
        <LABEL LANG="en_us">SYBASE-OLEDB</LABEL>
    </DI SPLAYNAME>
    <DRIVER>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">Dri ver</LABEL>
        </DI SPLAYNAME>
        <NET>System. Data. OI eDb. OI eDbConnecti on</NET>
    </DRIVER>
    <URL>
        <DI SPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DI SPLAYNAME>
        <NET>Provi der=Sybase ASE OLE DB Provi der; Datasource={dsn}; User

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```

ID={user}; Password={password}; </NET>
  </URL>
  <HANDLER>
    <NET>com. forcs. db. OZOLEDDBHandler</NET>
  </HANDLER>
  <PARAMETER_FLAG>
    <NET TYPE="positional">?</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>
  </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="DB2-OLEDB">
  <DISPLAYNAME>
    <LABEL LANG="en_us">DB2-OLEDB</LABEL>
  </DISPLAYNAME>
  <DRIVER>
    <DISPLAYNAME>
      <LABEL LANG="en_us">Driver</LABEL>
    </DISPLAYNAME>
    <NET>System. Data. Oledb. OledbConnection</NET>
  </DRIVER>
  <URL>
    <DISPLAYNAME>
      <LABEL LANG="en_us">URL</LABEL>
    </DISPLAYNAME>
    <NET>Provider=IBM DADB2; Data
Source={dbName}; UID={user}; PWD={password}; </NET>
  </URL>
  <HANDLER>
    <NET>com. forcs. db. OZOLEDDBHandler</NET>

```

```

</HANDLER>
<PARAMETER_FLAG>
    <NET TYPE="positional">?</NET>
</PARAMETER_FLAG>
<ITEMS>
    <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="INFORMIX-OLEDB">
    <DISPLAYNAME>
        <LABEL LANG="en_us">INFORMIX-OLEDB</LABEL>
    </DISPLAYNAME>
    <DRIVER>
        <DISPLAYNAME>
            <LABEL LANG="en_us">Driver</LABEL>
        </DISPLAYNAME>
        <NET>System. Data. OI eDb. OI eDbConnecti on</NET>
    </DRIVER>
    <URL>
        <DISPLAYNAME>
            <LABEL LANG="en_us">URL</LABEL>
        </DISPLAYNAME>
        <NET>Provi der=I fxol edbc; Data                Source={dbName}; User
ID={user}; password={password}; </NET>
    </URL>
<HANDLER>
    <NET>com. forcs. db. OZOLEDDBhandl er</NET>
</HANDLER>
<PARAMETER_FLAG>
    <NET TYPE="positional">?</NET>
</PARAMETER_FLAG>

```

```

<ITEMS>
  <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>
</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')

```

- / RDB
MARS(Multiple Active Result Sets)
.
ORACLE .NET Framework 1.1 , MSSQL 2005
.NET Framework 2.0 . MSSQL 2005
mssql2005_mars
ORACLE : ACTIVE true MAJOR_VESRION,
MINOR_VERSION .NET Framework 1.1
<MARS ACTIVE="true" MAJOR_VERSION="1"
MINOR_VERSION="1" />
MSSQL 2005 : ACTIVE true MAJOR_VERSION,
MINOR_VERSION .NET Framework
2.0
<MARS ACTIVE="true" MAJOR_VERSION="2"
MINOR_VERSION="0" />

```

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: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

{OZ_HOME}\conf\log.properties

```

log 'LOG4OZ'
FILE 'LOG4OZ' 가 , "Set Prioritylog Level", "Appender
ROLLING_FILE" HTTP
    
```

log.properties

```

#-----
# confi gurai on of OZ loggi ng system (LOG4OZ)
#-----
#
# Set Pri ori tylog Level
#
# DEBUG, INFO, WARN, ERROR
Pri ori ty=DEBUG
#
# appender ROLLING_FILE
# File
#           MaxFileSi ze
#           가           가
#
#           MaxBackupI ndex
#
# Append :
# Immedi ateFl ush :   가
#           fal se
    
```

```

#
#
ROLLING_FILE.Type=RollingFile
ROLLING_FILE.File=%OZ_HOME%/logs/server.log
# ----
# ROLLING_FILE.Type=DailyRollingFile //
# ROLLING_FILE.DatePattern=yyyy-MM-dd
# -----
ROLLING_FILE.Append=true
ROLLING_FILE.MaxBackupIndex=5
ROLLING_FILE.MaxFileSize=1MB
ROLLING_FILE.ImmediateFlush=true
#
#-----
# configuration of HTTPStore Logging
#-----
#HTTPSTORE_LOG_FILE=MANUAL (AUTO/MANUAL/NONE)
#HTTPSTORE_LOG_FILE.LOCATION=%OZ_HOME%/logs (Directory Name)
#-----
# configuration of OZ Mail
#-----
#Mail.active=false
#Mail.fromSend=
#Mail.toSend=
#Mail.SMTPServer=
#Mail.SMTPServerPort=25
#Mail.SMTPUserID=
#Mail.SMTPUserPassword=
#Mail.SMTPUserID_encrypted=
#Mail.SMTPUserPassword_encrypted=
#Mail.SendRetryCount=1
#Mail.SendRetryPeriodTime=30
#Mail.PrefixSubjectMessage=
#Mail.FilterType=
#Mail.FilterServiceCode=

```

■ LOG4OZ

Set Prioritylog level	priority	

		ERROR	
		WARN	"ERROR"
		INFO	"ERROR"
		DEBUG	"ERROR", "INFO"
appender ROLLING_FILE	ROLLING_FILE .Type	Rolling File	
		RollingFile	ex) server.log, server.log.1, server.log.2, ...
		DailyRolling File	(DatePattern)
	ROLLING_FILE .DatePattern	"DatePattern"	
	ROLLING_FILE .File		
	ROLLING_FILE .Append	가 가	
		true	가
		false	가
	ROLLING_FILE .MaxBackupIndex	Backup	가 가
ROLLING_FILE .MaxFileSize			

	ROLLING_FILE .ImmediateFlush	
--	---------------------------------	--

■ HTTP

HTTP 가 HTTP 가 ODI , ODI 가 HTTP

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

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

■ **DatePattern**

Pattern	Rollover schedule	
yyyy-MM		6 12 server.log server.log.2005-06 server.log
yyyy-ww	()	가 , 1 12 server.log server.log.2005-01 server.log
yyyy-MM-dd	()	7 1 server.log server.log.2005-07-01 server.log
yyyy-MM-ddt	12 A : AM P : PM	7 1 12 server.log server.log.2005-07-01-09P server.log
yyyy-MM-dd-HH		7 1 10 server.log server.log.2005-07-01-09 server.log
yyyy-MM-dd-HH-mm		7 1 10 server.log server.log.2005-07-01-09-59 server.log

■

active	가
	true
	false ()
fromSend	
toSend	: 가 (;) (.) ex) admin@forcs.com; oz@forcs.com admin@forcs.com, oz@forcs.com
SMTPServer	SMTP
SMTPServerPort	SMTP

SMTPUserID	SMTP ID : SMTP
SMTPUserPassword	SMTP ID : SMTP
SMTPUserID_encrypted	SMTP ID : SMTP ID ID ID
SMTPUserPassword_encrypted	SMTP ID : SMTP
SendRetryCount	
SendRetryPeriodTime	(:)
PrefixSubjectMessage	: "[] + "
FilterType	FilterServiceCode
	<p>positive</p> <p>FilterServiceCode가 ex) FilterServiceCode가 123 가 123 가 FilterServiceCode가</p>

	negative	FilterServiceCode) ex) FilterServiceCode가 123 가123 가 FilterServiceCode가
FilterServiceCode		: " monitor.properties"

-
- .NET Framework 2.0 server.log
 가 (.Net Framework 1.1
 가 System.Web.Mail
 .)
 ex) tmp19A.log

monitor.properties

{OZ_HOME}\conf\monitor.properties

monitor.properties

```
#-----  
# configurai 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

{OZ_HOME}\ozserver.properties

가

ozserver.properties

```
#-----  
# Main configuration of ozserver  
#-----  
  
path.oz.server.home=  
  
server.port=8003  
path.license.file=%OZ_HOME%/license/ozlicense.xml  
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.datatnd.properties.file=%OZ_HOME%/conf/datatnd.properties  
path.assembly.properties.file=%OZ_HOME%/conf/assembly.properties  
path.ozservice.properties.file=%OZ_HOME%/conf/ozservice.properties  
path.ozdbconfig.properties.file=%OZ_HOME%/conf/dbconfig.xml  
path.ozudl.properties.file=%OZ_HOME%/conf/ozudl.properties  
path.datasource.properties.file=%OZ_HOME%/conf/datasource.properties
```

: %OZ_HOME%
 %OZ_HOME% 가
 ozserver.properties path.oz.server.home 가

■ ozserver.properties

path.oz.server.home	: %OZ_HOME%\path.oz.server.home
Server.port	: (: 8003)
path.license.file	ozlicense.xml
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.assembly.properties.file	assembly.properties
path.ozservice.properties.file	ozservice.properties
path.ozdbconfig.properties.file	dbconfig.xml
path.ozudl.properties.file	ozudl.properties
path.datasource.properties.file	datasource.properties

ozservice.properties

{OZ_HOME}\conf\ozservice.properties

- 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)

ozudl.properties

{OZ_HOME}\conf\ozudl.properties

```

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

```

ozservice.properties

```

#-----
# confi gurai on of OZ User Defi ned Log
#-----
OZ_USER_DEFI NED_LOG. Acti ve=fal se
#OZ_USER_DEFI NED_LOG. CI ass=
OZ_UDL_MONI TOR. Acti ve=fal se
#OZ_UDL_MONI TOR. CI ass=

```

■ ozservice.properties



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

repository.properties

{OZ_HOME}\conf\repository.properties

repository.properties

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

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

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

#Backup History for None Type
REPOSITORY_NONE_BACKUP=false
REPOSITORY_NONE_BACKUP_PATH=%OZ_HOME%/repository_files_bak/
REPOSITORY_NONE_BACKUP_ITEM_COUNT=10
REPOSITORY_NONE_BACKUP_ITEM_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

#Temp Directory
REPOSITORY_TEMP_DIRECTORY=%OZ_HOME%/temp

#Get Repository Items (Get Method)
#REPOSITORY_ACCESS_BY_HTTP_GET=false
#REPOSITORY_HTTP_GET_CHECK_SESSION=falseREPOSITORY_QUERY_MAXBACKUPINDEX = 5
```

■ repository.properties

TYPE	RDB 가 DB
	BUILTIN (Hypersonic SQL DB 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 Alias가 DB Repository
REPOSITORY_TEMP_DIRECTORY	(* .czo, *.obj_stream.zip)
REPOSITORY_ACCESS_BY_HTTP_GET	Get 가
REPOSITORY_HTTP_GET_CHECK_SESSION	Get 가 : true HTTP 가

REPOSITORY_TYPE 'NONE'

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

REPOSITORY_TYPE 'RDB'

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

sap.properties

{OZ_HOME}\conf\sap.properties

```

# SAP
#
# SAP Connection Pool
#
# SAP Connection Pool
#
# SAP 가 UI

```

sap.properties

```

###
###   Configurai on of SAP Connecti on Manager
###
#<al i as>. proxy=
#<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=
#<al i as>. group=
#<al i as>. i strace=fal se
#<al i as>. assembl y=

```

■ sap.properties

<alias>.proxy	SAP Proxy
<alias>.client	SAP
<alias>.user	SAP
<alias>.password	SAP
<alias>.language	SAP
<alias>.host	SAP
<alias>.sysno	SAP
<alias>.group	
<alias>.istrace	SAP Trace
<alias>.assembly	SAP : assembly.properties alias

:
 : "<alias>.user", "<alias>.password"
 {OZ_HOME}\bin\OZEncryptor.exe 'OZ Encryptor'
 가

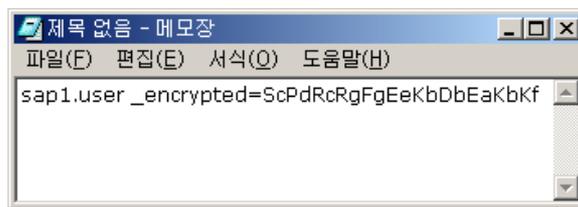
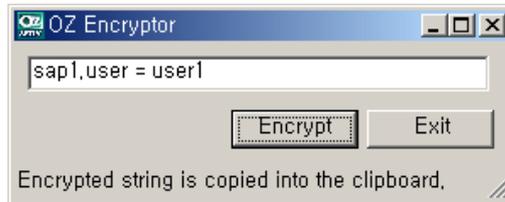


'OZ Encryptor' "<alias_name>.<property_name> =
 <property_value>"
 [Encrypt]



가

) sap_alias_name = sap1



) sap_alias_name = sap1



spmgr.properties

{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_secure_level	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	○	X
allow_service_rv	true	○	○
	false	○	X
allow_service_av	true	○	○

	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

{OZ_HOME}\conf\srmngr.properties

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

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

uslmngr.properties

{OZ_HOME}\conf\uslmngr.properties

User Security Logic

uslmngr.properties

```
# oz4.0 USL configuration  
  
#  
# set whether use user security logic or not globaly  
#  
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



DataAction

- Post – SOAP DataModule
- Post – SOAP DataAction
- Get wsd

		HttpRequest	"SOAPAction"	가		"SOAPAction"	가	
HttpRequest								
	URL	"?wsdl"		"GET"		Response		wsdl
			URL	"POST"	SOAP			

- GET
http://localhost/oz50/server/ODISERVICE?wsdl
- POST SOAP
http://localhost/oz50/server/ODISERVICE



ozservice.properties "enable_webservice"

"true"

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

enable_ozserver=true
enable_webservice=true
#
```



license

: 가

```

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

- 가

■ **OZIISPage**

- Preprocess

Prototype	public void Preprocess(System.Web.HttpRequest request, OZAttribute[] attr) throws OZWebServiceException		
Definition	oz.server.OZIISPage	Preprocess	Overwrite
	SOAP Header	가	. Preprocess
	Exception	SOAP Fault	가
Argument	<i>request</i>	SOAP	Header
	<i>attr</i>	OZAttribute	
Exception	<i>OZWebServiceException</i>		

■ **OZAttribute**

- getName

Prototype	public String getName()
------------------	-------------------------

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

■ ODIService

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

ODI DataAction

가

```

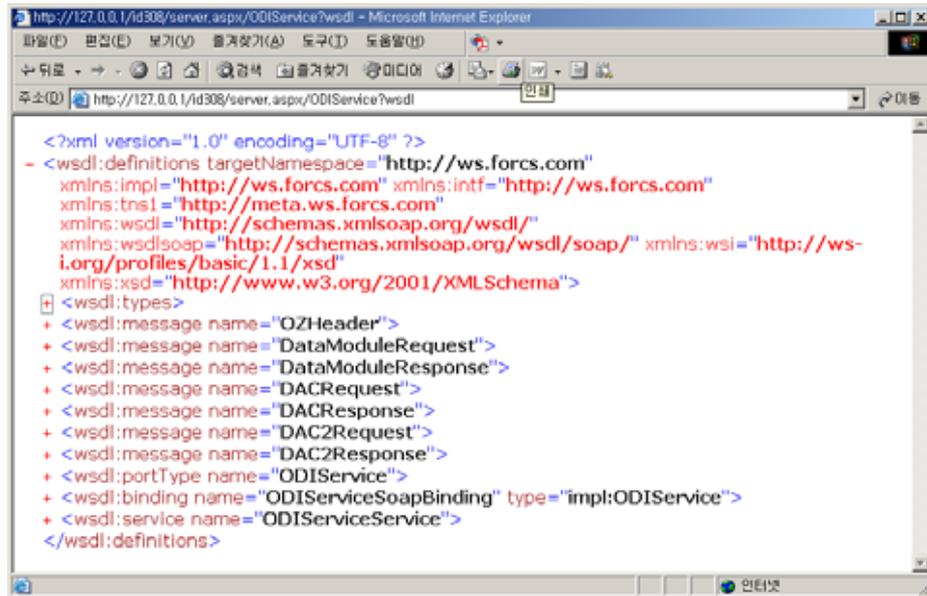
> "ozservice.properties"
#-----
# Main configuration of ozservice
#-----
enable_ozserver=true
enable_webservice=true
    
```

```

> "USE-WEBSERVICE" "TRUE"
가 license
    
```

```

> ODIService URL ODIService
wsdl ( URL "
http://127.0.0.1/id308/server.aspx" , ODIService URL "
http://127.0.0.1/id308/server.aspx/ODIService?wsdl " .)
    
```



: 가 ODIService wsdl
XML

➤ "OZAxisDataAction2Client.java"

```

package sample;

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

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

import sun.misc.BASE64Encoder;

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

```
public class OZAxisDataAction2Client {

    public static final String _END_POI NT_ADDRESS =
"http://127.0.0.1/oz50/server.aspx/ODI Service";
    public static void main(String[] args) {
        System.out.println("Endpoint address = " + _END_POI NT_ADDRESS);
        try {
            ODI Service stub = (ODI Service)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_FI ELD.VARCHAR);
            sources[0].setValue("Sample1");

            sources[1] = new Param();
            sources[1].setName("address");
            sources[1].setType(Const_FI ELD.VARCHAR);
            sources[1].setValue("Sample1");

            sources[2] = new Param();
            sources[2].setName("bi rthday");
            sources[2].setType(Const_FI ELD.DATE);
            sources[2].setValue("1980-09-02");

            sources[3] = new Param();
            sources[3].setName("j ob");
            sources[3].setType(Const_FI ELD.VARCHAR);
            sources[3].setValue("Sample1");

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

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

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

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

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

info[0].setSource(sources);

data.setOZDATAACTIONS(info);

//DataAction

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