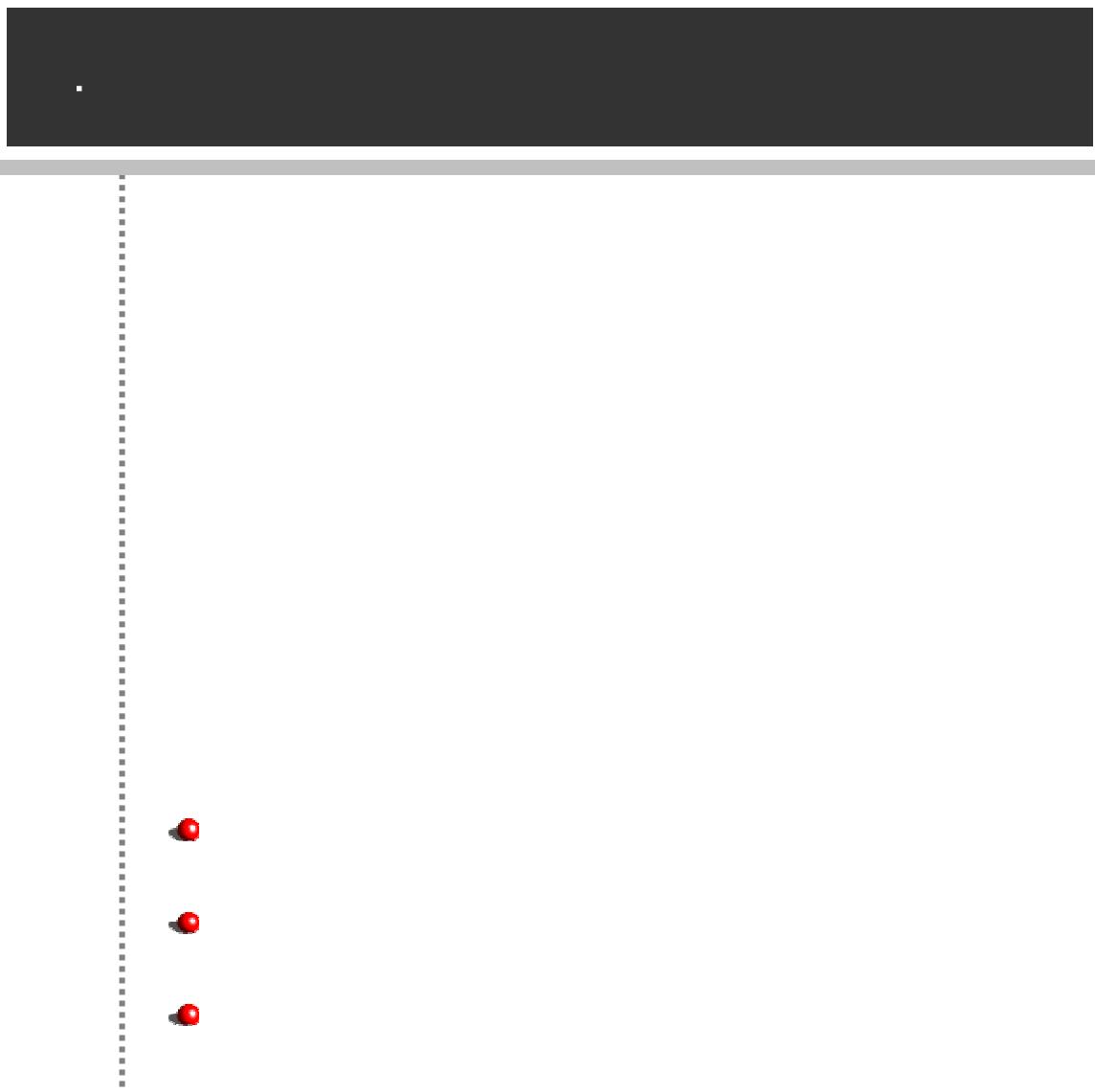


.	3
.....	4
.....	4
.....	5
.	7
.....	8
.....	8
.....	11
.	13
.....	14
.....	15
.....	20
.....	22
.	23
assembly.properties	24
cachemngr.properties	27
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db.properties	34
dbconfig.xml, dbconfig.xsd	38
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repository.properties	67
sap.properties	70
spmgr.properties	72
srmngr.properties	75
uslmngr.properties	76
.....	77

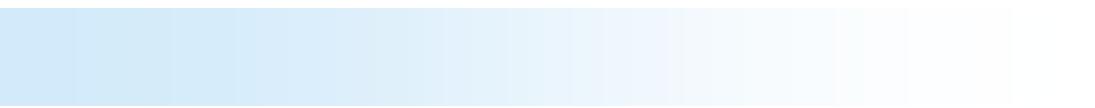




[REDACTED]

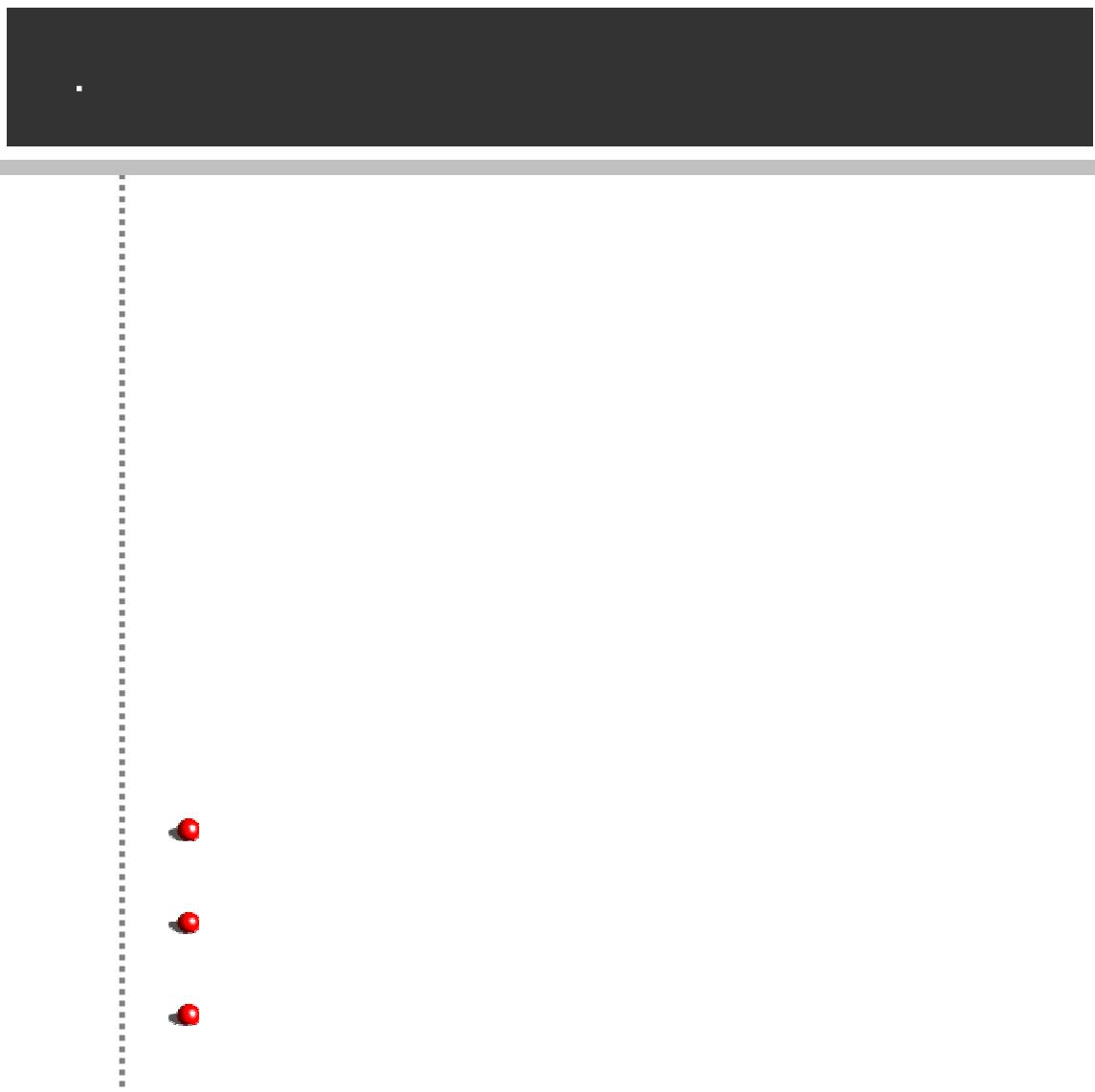


[REDACTED]



가

Getting Started	
가	
가	
Getting Started	
API	API





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

- one-point
-
-

DB Pooling,

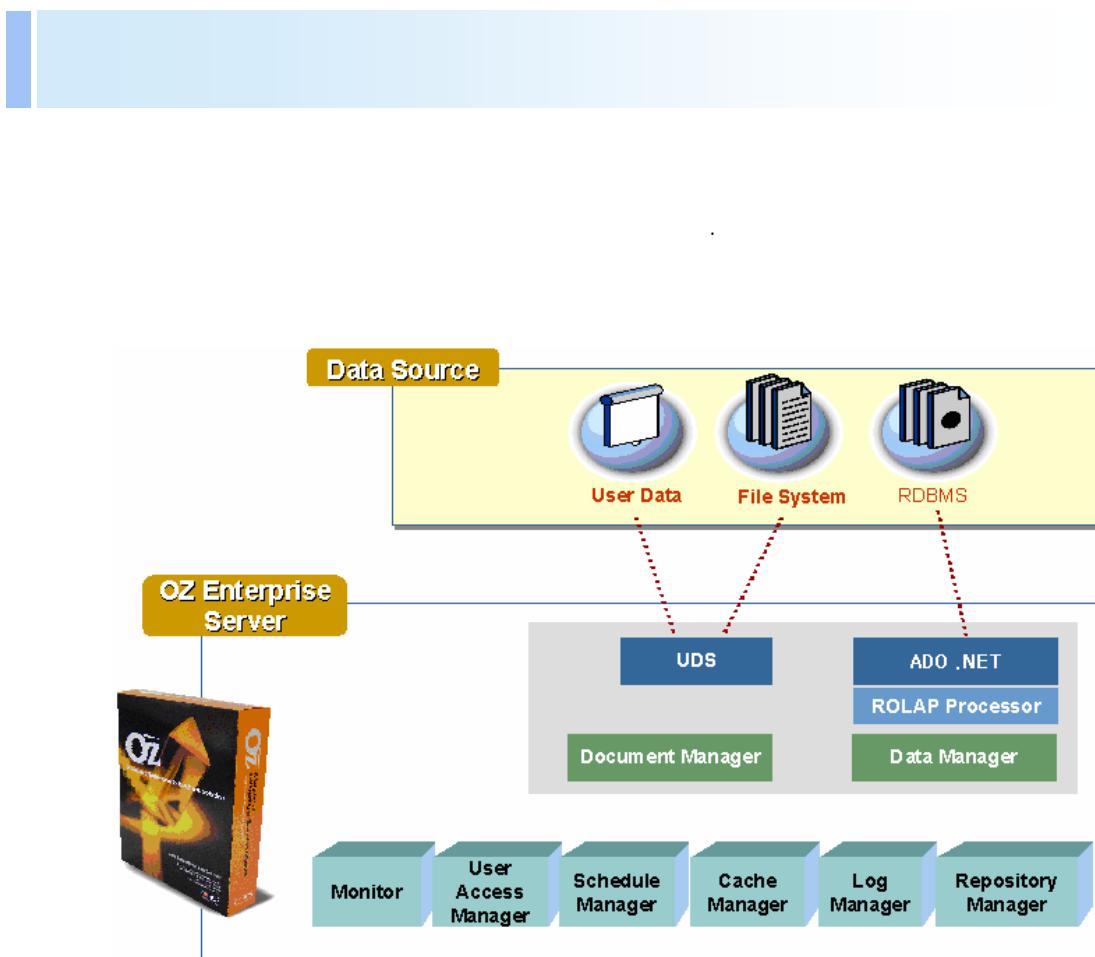
가

(Concurrent Mode)

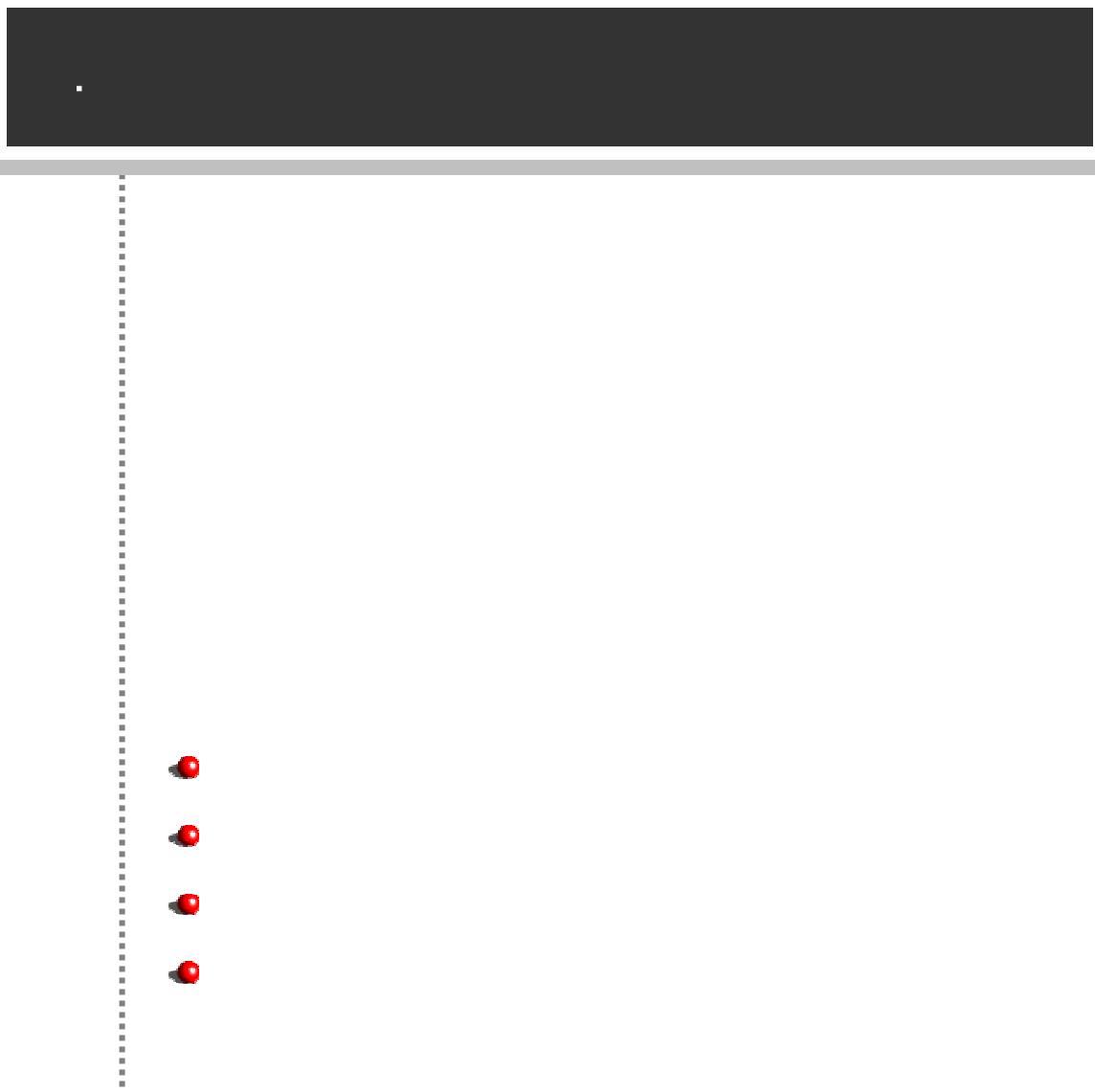




가 가



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 2000, 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

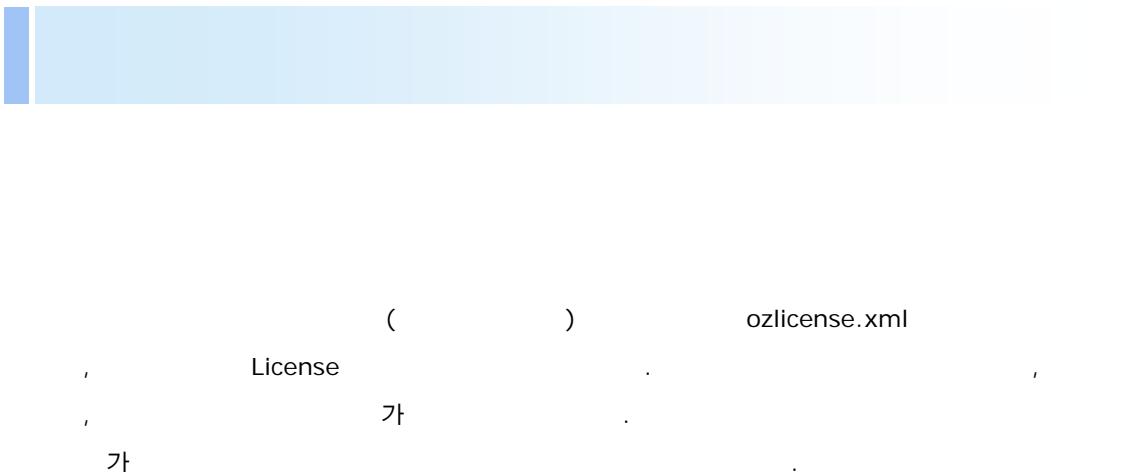
DLL

가

Microsoft .NET Framework 1.1

Microsoft Internet Information Server (IIS) 5.1

ASP.NET



ozserver.properties

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

C:\Program Files\Forcs\OZ XStudio\OZ Server.NET 4.0

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

path.oz.server.home=C:\Program Files\Forcs\OZ XStudio\OZ Server.NET 4.0

```
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.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.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
```

■ ASP.NET

ASP.NET

IIS ASP.NET

.NET Framework

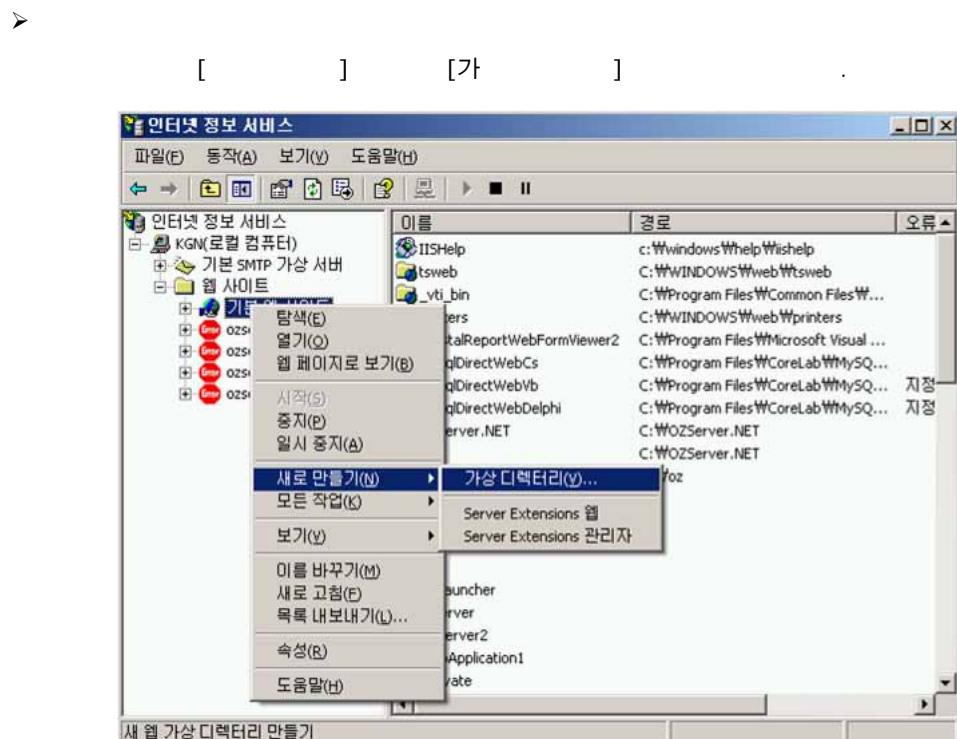
```
C:\WINNT\Microsoft.NET\Framework\v1.1.4322>aspnet_regiis.exe -i  
Start installing ASP.NET <1.1.4322.0>.  
Finished installing ASP.NET <1.1.4322.0>.
```

■ 가 가

%OZ_HOME%

가

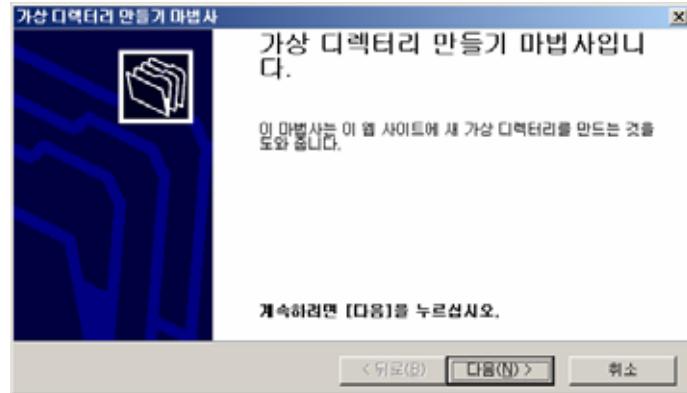
가



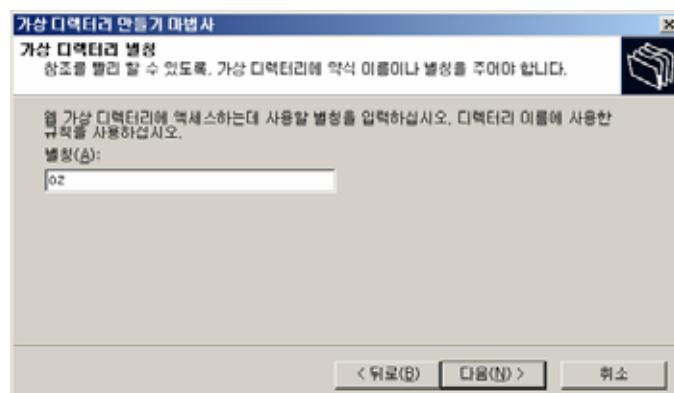
▶ "가

"가

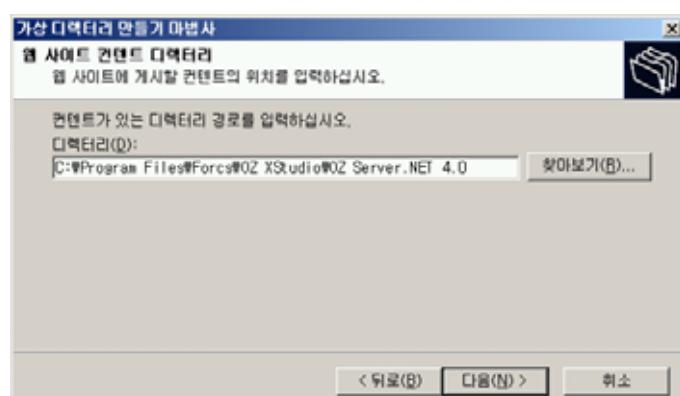
[]



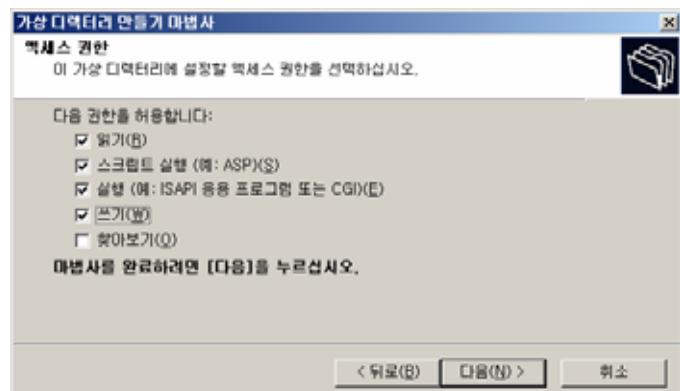
> 가 " " [] . ("oz" .)



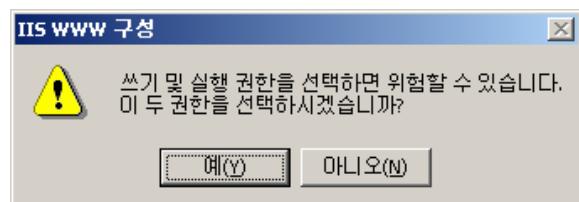
> [] [] . [] %OZ_HOME% (. ("C:\Program Files\Forcs\OZ XStudio\OZ Server.NET 4.0" .)



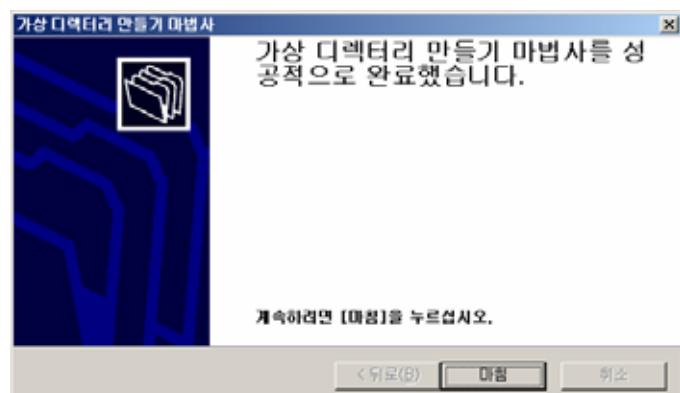
▶ [] 가 ()



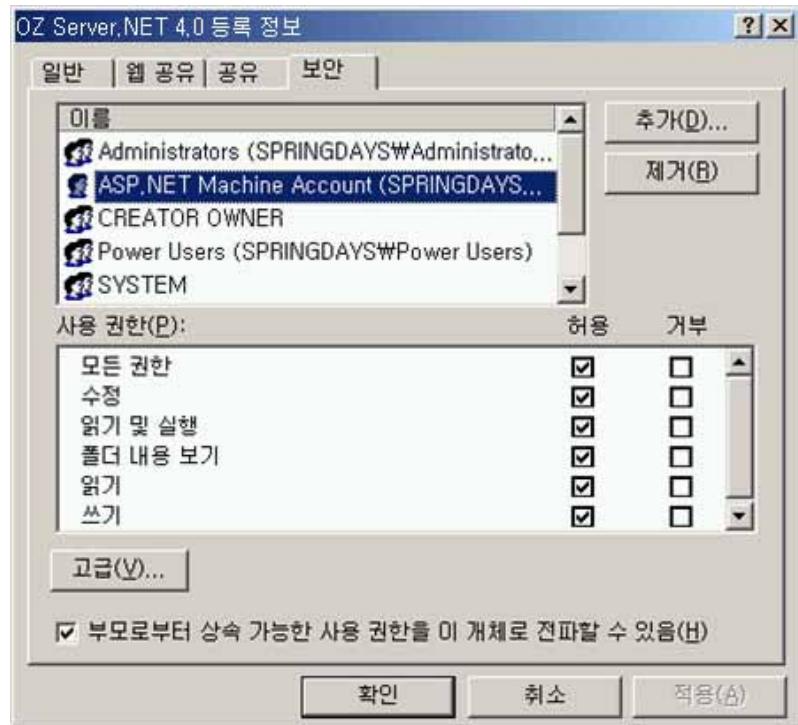
▶ 가 []



▶ []



■ 가 가 []
가
[] ASP.NET
가



: ASP.NET

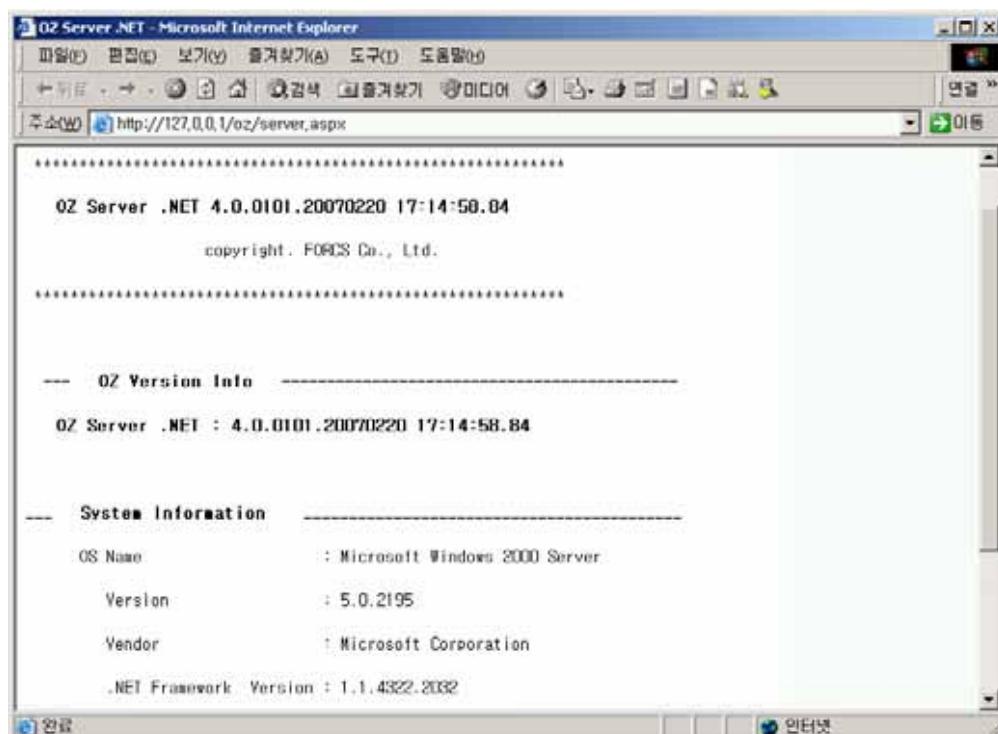
ASP.NET

가

{OZ_HOME}	Global.asax	()
	ozserver.properties	
	Server.aspx	
	Web.config	가
bin	OZDatabaseHandler.dll	
	OZServer.NET.dll	
	SAP.Connector.dll	SAP
	user.cif	None ()
cache	가	
cache_dm		
conf	assembly.properties	
	cachemngr.properties	
	databind.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)
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

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

|

assembly.properties

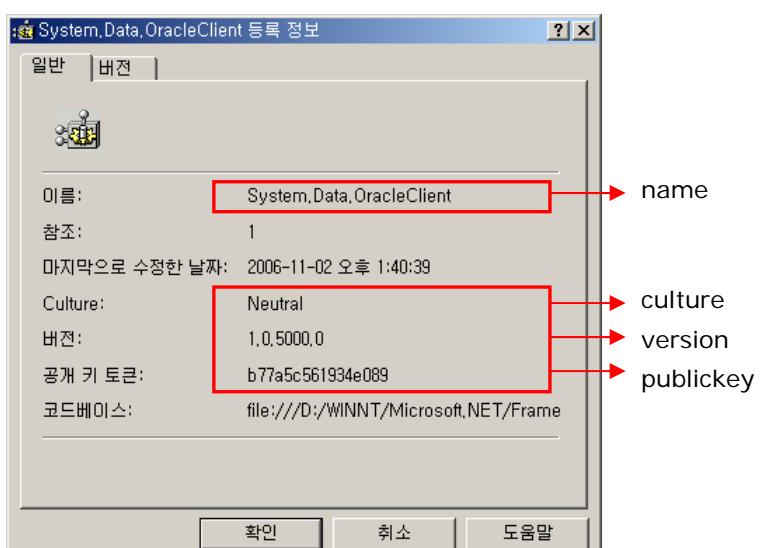
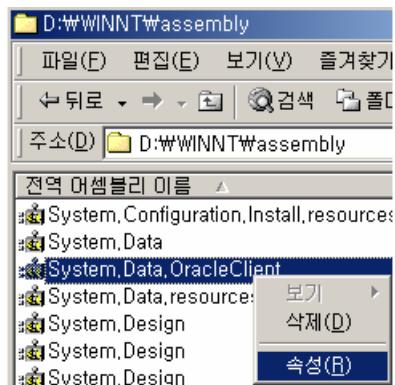
```
###  
### Configuration of Assembly  
###  
  
home=  
  
#alias.filepath=  
#alias.name=  
#alias.version=  
#alias.cultuer=  
#alias.publishkey=
```

■ assembly.properties

home	(EM)
:	

filepath	: filepath publickey	name, version, culture, filepath
name		
version		
culture		
publickey		

: assembly.properties



DBMS assembly.properties

■ MS-SQL

```
#  
#MSSQL ADO. NET Provider  
#  
mssql_DB.name=System.Data  
mssql_DB.version=1.0.50000.0  
mssql_DB.culture=Neutral  
mssql_DB.publishkey=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.publishkey=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

```
###  
### Configuration 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
- ('@ '/sales/car')
- repository.[/sales/car].active = true
- ('dept1.ozs')
- repository.[/sales/car].[dept1.ozs].active = true

- Data Module

가

ODI

▪ , ODI '[]'

	datamodule.report.active = true
	datamodule.application.active = true

▪ (가 '/sales/car')

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

▪ ('dept1.odi')

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

▪ ('Code', Fetch
 'DM_BATCH_FETCH', 'A001')

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

▪ ('Code', Fetch
 'DM_CONCURRENT_FETCH', 'A001')

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

clientlist.xml

{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>218.36.12.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>211.116.251.xxx</Item>
        <Item>218.36.12.xxx</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		
Client	checkAll		false	()	
	MAC Address, IP Address, HDD Serial				
MACAddress	checkAll	true	Serial	가 MAC Address, IP Address, HDD	
		false	Serial	가 MAC Address, IP Address, HDD ()	
		MAC Address가 MAC Address			
		true		가 MAC Address	
		false	Address	가 MAC ()	

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

- 가 "HDDSerial" "HddSerial"
- 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" Stream 0 :

db.properties

{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	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		
maxconnns	가	가 DB Connection
initconnns	DB Connection	
timeout	Maxconnns	Connnection (:)
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

```

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.maxconnns=20
oracle_exempl.e.initconnns=5

```

```
oracle_exampl e. timeout=5
```

■ Informix

```
informix_exampl e. vendor=informix  
informix_exampl e. serverAddress=127.0.0.1  
informix_exampl e. portNo=1526  
informix_exampl e. serverName=OZServer  
informix_exampl e. dbName=sysutills  
informix_exampl e. user=informix  
informix_exampl e. password=informix  
informix_exampl e. maxconns=20  
informix_exampl e. initconns=5  
informix_exampl e. timeout=5
```

■ MS-SQL

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

■ ODBC

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

: NT

ODBC

DNS

ODBC

DNS

■ db2

```
db2_exampl e. vendor=db2  
db2_exampl e. serverAddress=127.0.0.1  
db2_exampl e. portNo=1344  
db2_exampl e. dbName=db2
```

```
db2_examp1.e. user=db2admi n  
db2_examp1.e. maxconns=20  
db2_examp1.e. ini 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. ini 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"?>
<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>
          <NET>Data                                         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">SID</LABEL>
                  <LABEL LANG="ko_kr"></LABEL>
                  <LABEL LANG="ja_jp">SID</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}; Ini 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>
        <INFOS>
            <I NFO          KEY="DATE_EXPRESSION">CAST(' @YYYY. @MM. @DD
@hh: @mm: @ss' AS DATETIME)</I NFO>
            </I INFOS>
        </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 TEMS>
    </VENDOR>

```

```

<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 NFO      KEY="DATE_EXPRESSION">TO_DATE(' @YYYY-@MM-@DD
@hh:@mm:@ss', ' YYYY-MM-DD HH24:MI:SS')</I NFO>
    </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>

```

```

<I TEM KEY="serverName">
    <LABEL LANG="en_us">Database server name</LABEL>
    <LABEL LANG="ko_kr">          </LABEL>
    <LABEL LANG="ja_jp">Database server name</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="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>

<JAVA>jdbc: sybase: {dsn}: {serverAddress}: {portNo}/{dbName}</JAVA>
<NET>Network Library=DBMSSOCN; Data Catalog={dbName}; User ID={user}; Password={password}; </NET>
</URL>
<HANDLER>
    <NET>com.forcs.db.OZSybaseHandler</NET>
</HANDLER>
<PARAMETER_FLAG>
    <NET>@</NET>
</PARAMETER_FLAG>
</ITEMS>
<I 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>

```

```

</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",   "ENCYPW",   "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')

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

dbconfig.xsd

```

dbconfig.xml           xsd          dbconfig.xml

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

    <xsd: complextypes name="t_DI SPLAYNAME">
        <xsd: sequence>
            <xsd: element name="LABEL" type="t_LABEL" minOccurs="1" maxOccurs="unbounded" />
        </xsd: sequence>
    </xsd: complextypes>

    <xsd: complextypes name="t_DRI VER">
        <xsd: sequence>
            <xsd: element name="DI SPLAYNAME" type="t_DI SPLAYNAME" />
            <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: complextypes>

    <xsd: complextypes 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: complextypes>

```

```

        </xsd: sequence>
    </xsd: compl exType>

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

    <xsd: compl exType name="t_ITEM">
        <xsd: sequence>
            <xsd: el ement 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: compl exType>

    <xsd: compl exType name="t_ITEMS">
        <xsd: sequence>
            <xsd: el ement name="ITEM" type="t_ITEM" minOccurs="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" minOccurs="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_INFOS"      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: compl exType>
        <xsd: sequence>
            <xsd: el ement ref="VENDOR"      mi n0ccurs="0"
maxOccurs="unbounded" />
        </xsd: sequence>
    </xsd: compl exType>
</xsd: el ement>

</xsd: schema>
```

log.properties

{OZ_HOME}\conf\log.properties

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

log.properties

```
-----  
# configuration of OZ logging system (LOG4OZ)  
-----  
#  
# Set Priority log level  
#  
# DEBUG, INFO, WARN, ERROR  
Priority=DEBUG  
#  
# appender ROLLING_FILE  
# File  
#           MaxFileSize  
#           가         가  
#  
#           MaxBackupIndex  
#  
# Append :  
# ImmediateFlush :    가  
#                   false
```

```

#
#
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)

```

■ LOG4OZ

Set Priority log level	priority	ERROR	
		WARN	"ERROR"
		INFO	"ERROR"
		DEBUG	"ERROR", "INFO"
	appender ROLLING_	ROLLING_FILE	Rolling File

FILE	.Type	RollingFile	ex) server.log, server.log.1, server.log.2, ...
		DailyRollingFile	(DatePattern)
ROLLING_FILE	.DatePattern		"DatePattern"
ROLLING_FILE	.File		
ROLLING_FILE	.Append	가	가
		true	가
		false	가
ROLLING_FILE	.MaxBackupIndex	Backup	가
ROLLING_FILE	.MaxFilesize		가
ROLLING_FILE	.ImmediateFlush		

■ HTTP

HTTP 가 가 ODI , ODI
가 HTTP

HTTPSTORE_LOG_FILE	HTTP
MANUAL	HTTP ()

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

-
- HTTP
 - HTTP
 - HTTP
 - "HTTP"
 - 'HTTPSTORE_LOG_FILE=AUTO'
 - HTTP
 - 'OZ_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-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.2005-07-01-09 server.log .
yyyy-MM-dd-HH-mm		7 1 10 server.log.2005-07-01-09-59 server.log .

monitor.properties

{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
```

```
ali as. 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 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 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

{OZ_HOME}\ozserver.properties

가

ozserver.properties

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

path.oz.server.home=

path.license. file=%OZ_HOME%/license/ozlicense.xml
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.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
```

: %OZ_HOME%

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

■ ozserver.properties

path.oz.server.home	:
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.databindind.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

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)

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
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_BACK UP	None	
REPOSITORY_NONE_BACK UP_PATH	None	
REPOSITORY_NONE_BACK UP_ITEM_COUNT	None	
REPOSITORY_NONE_BACK UP_ITEM_VALIDDAYS	None	
ITEM_NUMBER_PER_DIRECTORY		
HISTORY_ITEM_VALID_DAYS		
QUERY_MAXBACKUPINDEX	BUILTIN DB	
QUERY_MAXFILESIZE	BUILTIN DB	
QUERY_IMMEDIATEFLUSH	BUILTIN DB	

DB_ALIAS	db.properties Repository	Alias가 .	DB
----------	-----------------------------	-------------	----

REPOSITORY_TYPE 'NONE'

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

REPOSITORY_TYPE 'RDB'

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

sap.properties

{OZ_HOME}\conf\sap.properties

가 SAP

SAP Connection Pool

SAP Connection Pool

SAP 가 UI

sap.properties

```
###  
### Configuration of SAP Connection Manager  
###  
  
#<alias>.proxy=  
#<alias>.client=  
#<alias>.user=  
#<alias>.password=  
#<alias>.language=  
#<alias>.host=  
#<alias>.sysno=  
#<alias>.group=  
#<alias>.istrace=false  
#<alias>.assembly=
```

■ 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

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	

sesionTimeout	: (user.multilogin 'false') 가		
client_message_security_level	high		
	middle	Exception Name	
	low		
allow_service_qd	ODI	가	
enable_service_repository		가	
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	○	×
allow_service_rv	true	○	○
	false	○	×

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

{OZ_HOME}\conf\srmngr.properties

SDM

SDM

srmngr.properties

```
# default : false
use_scheduled_data=true

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

■ srmngr.properties

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

uslmngr.properties

{OZ_HOME}\conf\uslmngr.properties

User Security Logic

uslmngr.properties

```
# oz4.0 USL configuration

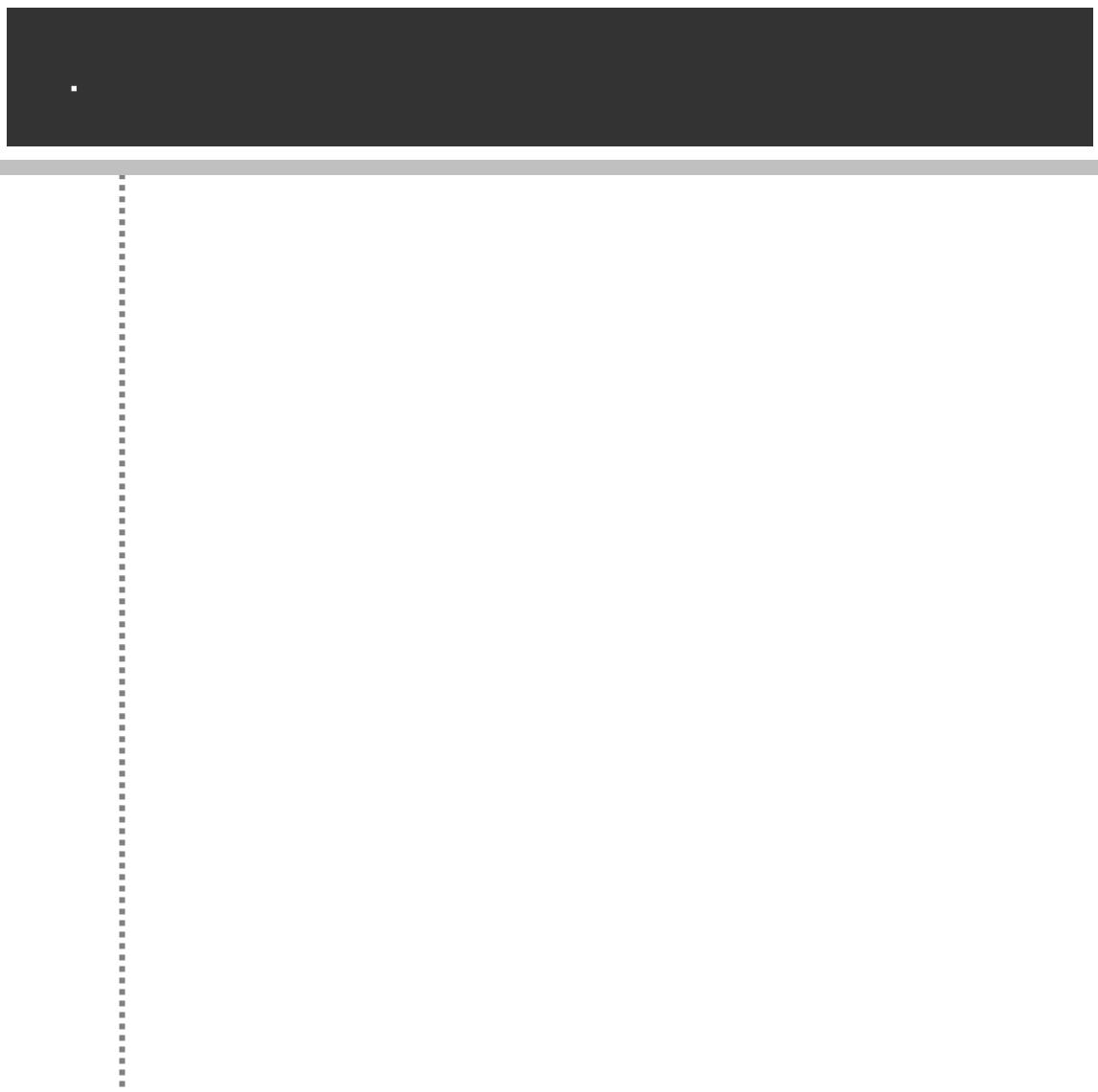
#
# set whether use user security logic or not globally
#
UseUserSecurityLogicVer30 = true

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

■ uslmngr.properties

UseUserSecurityLogicVer30	User Security Logic
OZDefault_SERVER	USL
OZDefault_CLIENT	USL

: User Security Logic



DataAction

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

HttpRequest "SOAPAction" 가 가

URL	"?wsdl"	"GET"	Response	wsdl
URI	"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  
#-----
```

license

가

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

가

■ OZIISPage

- Preprocess

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

request

Argument	attr	SOAP OZAttribute	Header
-----------------	------	---------------------	--------

Exception OZWebServiceException

■ OZAttribute

- getName

Prototype public String getName()

Definition	OZAttribute	가	.
<hr/>			
Definition	getValue	가	.
<hr/>			
Prototype	public String	getVal ue()	.
<hr/>			
Definition	OZAttribute	가	.

■ ODIService

- requestDAC2

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

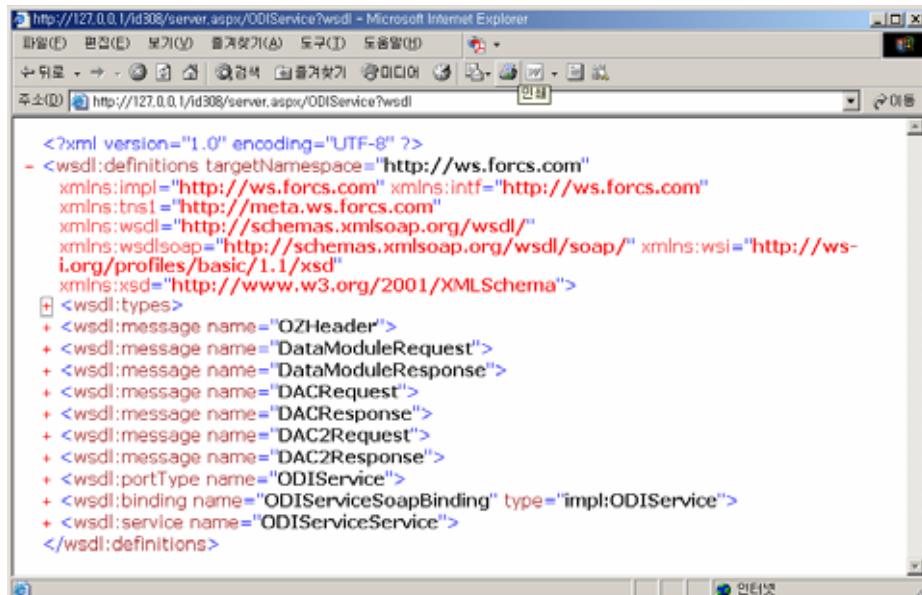
ODI DataAction

➤ "ozservice.properties"

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

➤ "USE-WEBSERVICE" "TRUE"
가 license .

ODIService	URL	ODIService
wsdl	.	(
http://127.0.0.1/id308/server.aspx"	,	ODIService
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_FILD;
import com.forcs.ws.meta.DataActionInfo;
import com.forcs.ws.meta.OZData;
import com.forcs.ws.meta.OZDataSet;
import com.forcs.ws.meta.Param;
import com.forcs.ws.meta.Record;

```

```
public class OZAxisDataAction2Client {

    public static final String _END_POINT_ADDRESS = "http://127.0.0.1/oz40/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("DACTest.odi");
            data.setCATEGORY("/REQ/258/");

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

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

            sources[1] = new Param();
            sources[1].setNAME("address");
            sources[1].setType(Const_FIELD.VARCHAR);
            sources[1].setVALUE("Sample1");

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

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

            sources[4] = new Param();
            sources[4].setNAME("age");
            sources[4].setType(Const_FIELD.INTEGER);
            sources[4].setVALUE("1001");
        }
    }
}
```

```

sources[5] = new Param();
sources[5].setNAME("picture");
sources[5].setTYPE(Const_FIELD.BINARY);

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

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

sources[6] = new Param();
sources[6].setNAME("picture_path");
sources[6].setTYPE(Const_FIELD.VARCHAR);
sources[6].setVALUE("Image1.jpg");

info[0].setSOURCE(sources);

data.setOZDATAACTI ONS(info);

//DataAction

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

```

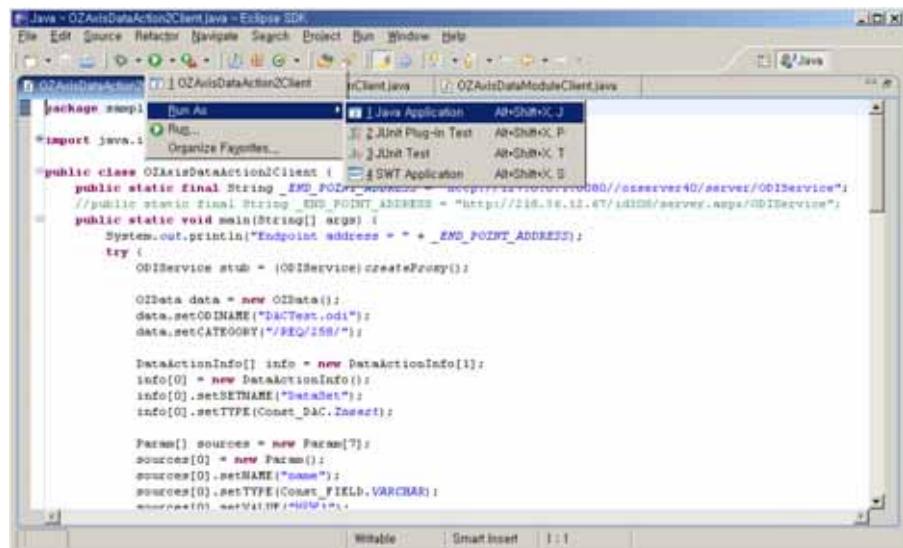
```

        }
    }
} catch (Exception ex) {
    ex.printStackTrace();
}
}

private static Stub createProxy() throws ServiceException{
    ODI ServiceServiceLocator impl = new ODI ServiceServiceLocator();
    impl.setODI ServiceEndpointAddress(_END_POINT_ADDRESS);
    return (Stub)impl.getODI Service();
}
}
}

```

➤ OZAxisDataAction2Client.java Eclipse



➤ DataAction

