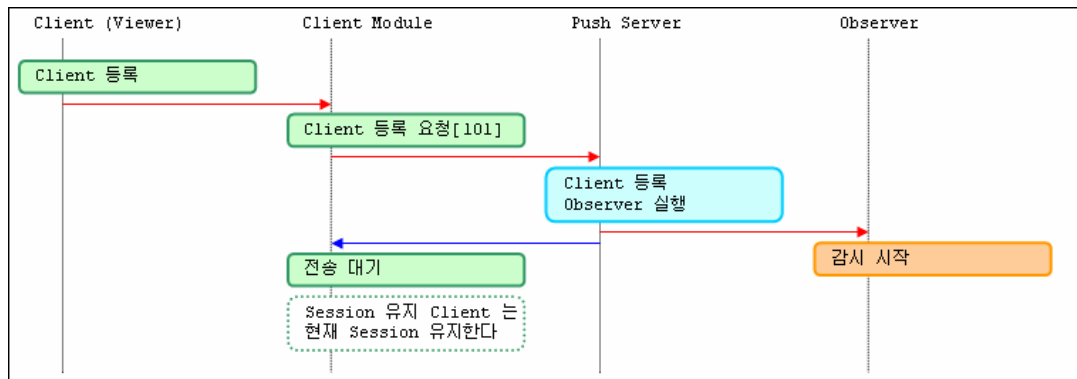


# OZ Data Push Server Manual

|      |       |    |
|------|-------|----|
| Push | ..... | 2  |
| Push | ..... | 4  |
| Push | ..... | 5  |
| Push | ..... | 13 |
| Push | ..... | 15 |

## Push

Push (Daemon )  
 , Push Push Observer가  
 Push



- , Observer
- Session
- Thread Thread
- Observer ID 가
- Observer / /Session interval pushserver.xml
- Log4j

: Push 가 가

## Observer

- Observer가 Queue를 사용하여 sdm가 .
  - Observer가 Interface가 .
  - ObserverID Interface가 .
- ```
class Observer : Observer {
    ...
    "_ObserverImpl"
```

## Client Module

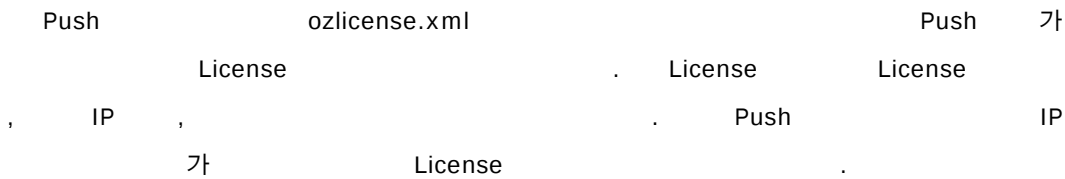
- Push .

## Push

| bin     | ozpushcntrl.bat                  | (.bat) (.sh)                          |
|---------|----------------------------------|---------------------------------------|
|         | ozpushcntrl.sh                   | Push                                  |
|         | ozpushstart.bat                  | (.bat) (.sh) Push                     |
|         | ozpushstart.sh                   |                                       |
|         | ozpushstop.bat                   | (.bat) (.sh) Push                     |
|         | ozpushstop.sh                    |                                       |
|         | OZServicePS.exe                  |                                       |
|         | OZPushServerInstallService.bat   | NT                                    |
|         | OZPushServerUninstallService.bat | Push NT                               |
|         | pushserver.ico                   | Push                                  |
| conf    | pushserver.properties            | Push                                  |
|         | pushserver.xml                   | Push, session, transmission, Observer |
| lib     | crimson.jar                      | XML                                   |
|         | log4j.jar                        |                                       |
|         | ozpush50.jar                     | Push                                  |
|         | ozsfw50.jar                      |                                       |
|         | parser.jar                       | XML                                   |
|         | sample.jar                       | Observer                              |
|         | xalan.jar                        | XML Xerces                            |
|         | xerces.jar                       | XML Xerces                            |
|         | xercesImpl.jar                   | XML Xerces                            |
|         | xml-apis.jar                     | XML Xerces                            |
| license | ozlicense.xml                    | Push                                  |
| logs    | pushserver.log                   | Push                                  |

Push

License



Push

■ ozpushcntrl.bat

JRE Push  
Windows JVM , UNIX  
ozpushcntrl.sh JRE Path

```
@echo off
rem -----
rem
rem          OZ Push Server Contorl(OZA SHELL)
rem
rem
rem This script file written and tested under Windows 2000
rem
rem User should set following variables:
rem
rem  JAVA_HOME      - Determines the version of Java used to start
rem                  OZ Server. This variable must point to the
rem                  root directory of a JDK or JRE installation.
rem                  for an up-to-date list of supported JVMs your platform.
rem  MAX_MEMORY     - Maximum memory used by OZ Push Server. (The unit is mega-byte.)
rem  MIN_MEMORY     - Minimum memory used by OZ Push Server. (The unit is mega-byte.)
rem
rem -----
```

```
rem -----
rem      Set user-defined variables
rem -----

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

set OZPUSHSERVER_HOME=..
set OZLIBALL=%OZPUSHSERVER_HOME% lib

rem -----
rem      OZ Main Class
rem -----
set OZLIB=%OZLIBALL%  ozpush50.jar;%OZPUSHSERVER_HOME% conf ;

rem -----
rem      OZ Server Class
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%  ozsfw50.jar

rem -----
rem      Library for Logging
rem -----
set OZLIB=%OZLIB%;%OZLIBALL%  log4j.jar

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

rem -----
rem      User Library
rem -----
rem set OZLIB=%OZLIB%;%OZLIBALL%  sample.jar

echo %OZLIB%
```

```
if not "%1" == "-start" goto notStart
set JAVA_OPTION= %JAVA_OPTION% -Xms%MIN_MEMORY%m -Xmx%MAX_MEMORY%m
:notStart
%JAVA_HOME% bin java %JAVA_OPTION% -cp %OZLIB% oz.push.server.Console %1 %2 %3 %4
```

[illegible]

- `ozpushctrl.sh`

JRE Push  
Windows JVM, UNIX  
ozpushcntrl.sh JRE Path .

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

```
MAX_MEMORY=256
MIN_MEMORY=128
JAVA_OPTION=-hotspot

OZPUSHSERVER_HOME=..
OZLIB=.:$OZPUSHSERVER_HOME/conf
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/ozpush50.jar

# -----
#           OZ Server Library
# -----
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/ozsfw50.jar

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

# -----
#           Library for XML
# -----
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/xalan.jar
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/xercesImpl.jar
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/xml-apis.jar
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/parser.jar
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/xerces.jar
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/crimson.jar

rem -----
rem           User Library
rem -----
rem set OZLIB=%OZLIB%;%OZLIBALL%  sample.jar

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

echo ""
echo $OZLIB
echo ""
```

```
$JAVA_HOME/bin/java $JAVA_OPTION -classpath $OZLIB oz.push.server.Console $1 $2 $3 $4
```

```

: MAX_MEMORY, MIN_MEMORY JVM
/ , JAVA_OPTION
. JAVA_OPTION
.
```

■ pushserver.properties

Push .

```
#-----
# Main configuration of push
#-----

path.oz.push.home=..
```

| path.oz.push.home | Push . ( /<br>가 ) |
|-------------------|-------------------|

■ pushserver.xml

Push , session, transmission, Observer .

```
<?xml version="1.0" encoding="EUC-KR"?>
<ozpushserver port="8088">
  <log priority="DEBUG" path="../logs/">
    <logger type="Console" aync="false" />
  <!--
    DailyRollingFile
    <logger type="DailyRollingFile" filename="pushserver.log" append="true" immediateFlush="true"
datepattern="yyyy-MM-dd" />
  -->
  <logger type="RollingFile" filename="pushserver.log" append="true" immediateFlush="true"
maxbackupindex="5" maxFileSize="10KB" />
</log>
<session interval='5000'/>
<transmission multi='false'/>
<observers>
<!--
```

```

    observer
    <observer name="OB1" classname="sample.observer.OB1" checkInterval="5000" />
    <observer name="OB2" classname="sample.observer.OB2" checkInterval="5000"/>
-->
</observers>
</ozpushserver>#-----
# Main configuration of ozpushserver
#-----

```

| Element      |          |                                                                                        |
|--------------|----------|----------------------------------------------------------------------------------------|
| ozpushserver | port     | Push . ( :8088)                                                                        |
| log          | priority | . ( :DEBUG)                                                                            |
|              |          | FATAL Log level 가 ,<br>가<br>log .                                                      |
|              |          | ERROR log level ,<br>log                                                               |
|              |          | INFO "ERROR" level log<br>log .                                                        |
|              |          | DEBUG "ERROR", "INFO" level log<br>log                                                 |
|              | path     | . ( : %OZPushHome%\log)                                                                |
| logger       | type     | logger , . ( :Console)<br>: logger<br>Console RollingFile<br>Console DaillyRollingFile |
|              |          | Console .                                                                              |
|              |          | RollingFile<br>ex) pushserver.log, pushserver.log.1,<br>pushserver.log.2, ...          |

|                     |                    |                       |                                                                                      |
|---------------------|--------------------|-----------------------|--------------------------------------------------------------------------------------|
|                     |                    | DaillyRolling<br>File | (DatePattern)<br>.<br>ex) pushserver.log, pushserver.log.<br>, pushserver.log. , ... |
|                     | async              | logger<br>. (         | Console<br>:false)                                                                   |
|                     | filename           | logger<br>. (         | RollingFile<br>DaillyRollingFile<br>:pushserver.log)                                 |
|                     | append             | logger<br>가<br>. (    | RollingFile<br>DaillyRollingFile<br>:true)                                           |
|                     | immediaeFlus<br>h  | logger<br>. (         | RollingFile<br>DaillyRollingFile<br>:false)                                          |
|                     | datepattern        | logger<br>. (         | DaillyRollingFile<br>"DatePattern"<br>:YYYY-MM-DD)                                   |
|                     | maxBackupIn<br>dex | logger<br>가<br>. (    | RollingFile<br>Backup<br>:5)                                                         |
|                     | maxFileSize        | logger<br>. (         | RollingFile<br>:1MB)                                                                 |
| <b>session</b>      | interval           | . ( :5000)            |                                                                                      |
| <b>transmission</b> | multi              | . ( :false)           |                                                                                      |
| <b>Observer</b>     | name               | Observer .            |                                                                                      |
|                     | classname          | Observer .            |                                                                                      |
|                     | checkInterval      | . ( :5000)            |                                                                                      |

- DatePattern

| yyyy-MM       |     | 6 12<br>pushserver.log<br>pushserver.log.2005-06<br>pushserver.log<br>.      |
|---------------|-----|------------------------------------------------------------------------------|
| yyyy-ww       | ( ) | 가 , 1<br>12 pushserver.log<br>pushserver.log.2005-01<br>pushserver.log<br>.  |
| yyyy-MM-dd    | ( ) | 7 1 pushserver.log<br>pushserver.log.2005-07-01<br>pushserver.log<br>.       |
| yyyy-MM-dd-HH |     | 7 1 10 pushserver.log<br>pushserver.log.2005-07-01-09<br>pushserver.log<br>. |

## Push

### ■ -help

) ozpushcntrl -help

### ■ -obinfo

ObserverID

ObserverID | ObserverName | ObserverClassName | client

) ozpushcntrl -obinfo ip:127.0.0.1 port:8088 id:ObserverID

### ■ -oblist

ip Observer

ObserverID | ObserverName | ObserverClassName | client

) ozpushcntrl -oblist ip:127.0.0.1 port:8088

### ■ -obruninfo

Observer

ObserverID | ObserverName | ObserverClassName | client

) ozpushcntrl -obruninfo ip:127.0.0.1 port:8088

### ■ -obstop

ObserverID 가 Observer

) ozpushcntrl -obstop ip:127.0.0.1 port:8088 id:ObserverID

### ■ -stop

OZ Push

) ozpushcntrl -stop ip:127.0.0.1 port:8088

■ **-usage**

```
start  
    ) ozpushcntrl -usage
```

■ **-version**

```
Push  
    ) ozpushcntrl -version -ip:127.0.0.1 -port:8080
```

Push

Push

■ DataModule.StartPush

|            |                                                                                 |                      |          |
|------------|---------------------------------------------------------------------------------|----------------------|----------|
| Prototype  | BOOL StartPush(string ObserverIP,<br>integer ObserverPort, string Observername) |                      |          |
|            | Push                                                                            |                      |          |
| Definition | :                                                                               | 가                    |          |
|            |                                                                                 | SynchronizeToDataSet | true     |
| Argument   | ObserverIP                                                                      | Push                 | IP       |
|            | ObserverPort                                                                    | Push                 | Port     |
|            | Observername                                                                    | Push                 | Observer |

■ DataModule.EndPush

|            |                |  |  |
|------------|----------------|--|--|
| Prototype  | BOOL EndPush() |  |  |
| Definition | Push           |  |  |

Observer

가 Observer

가

1)

가

가

가 Push Server

2) ODI , 가

Push

Push

➤ Observer  
( 가 ("OB1", "OB2", "OB3")  
Observer가 pushsample.jar .)

➤ pushsample.jar Push Server가 /lib

➤ Push Server가 /bin ozpushcntrl.bat

```
rem -----
rem      User Library
rem -----
set OZLIB= %OZLIB%;%OZLIBALL% pushsample.jar
```

➤ Push Server가 /conf pushserver.xml  
Observer

```
<?xml version="1.0" encoding="EUC-KR"?>
<ozpushserver port="8088">
  <log priority="DEBUG" path="../logs/">
    <logger type="Console" aync="false" />
  <!--
    DailyRollingFile
    <logger type="DailyRollingFile" filename="logfile.log" append="true" immediateFlush="true"
datepattern="yyyy-MM-dd" />
  -->
  <logger type="RollingFile" filename="PushServer.log" append="true" immediateFlush="true"
maxbackupindex="5" maxFileSize="10KB" />
```

```
</log>
<session interval='5000' />
<transmission multi='false' />
<observers>
  <observer name="OB1" classname="sample.observer.OB1" checkInterval="5000" />
  <observer name="OB2" classname="sample.observer.OB2" checkInterval="5000" />
  <observer name="OB2" classname="sample.observer.OB2" checkInterval="5000" />
</observers>
</ozpushserver>
```

### OZ Application Viewer OZ Push Server

➤ Board ozcar.odt 가 Table Table .

➤ Board Button 가 Button "OnClick"  
가 .

#### ▪ Button1(StartPush)

```
//Push Server Push Server .
var dm = _GetDataManager.GetDataModule("ozcar");
//Push Server IP, Port, Observer Name .
var push = dm.StartPush("127.0.0.1", "8088", "OB1");
```

#### ▪ Button2(EndPush)

```
// Push Server
var dm = _GetDataManager.GetDataModule("ozcar");
var push = dm.EndPush();
```

➤ [ ] - [ ]



StartPush      EndPush

- ozcar.odi