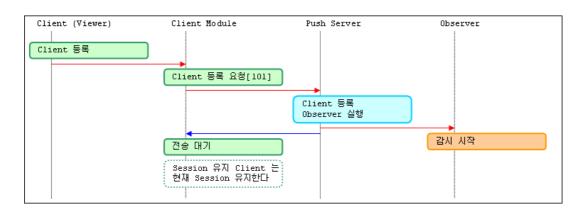
# OZ Data Push Server Manual

2	••••••	•••••	 	Push
4			 	Push
5		•••••	 	Push
. 13		•••••	 	Push
. 15				Push

(Daemon ) Push , Push Push Observer가

Push



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

가 가 Push

# Observer

- , 가
- Queue .
- sdm 가
  - .
- ObserverID Interface , 가 .
  - : Observer "\_ObserverImpl"

#### **Client Module**

- Push .

	ozpushcntrl.bat	(.bat)	(.sh	)	
	ozpushcntrl.sh	Push			
	ozpushstart.bat	(.bat)	(.sh)	Push	
	ozpushstart.sh				
	ozpushstop.bat	(.bat)	(.sh)	Push	
bin	ozpushstop.sh				
	OZServicePS.exe				
	OZPushServerInstallService.bat	NT			
	OZPushServerUninstallService. bat	Push	NT		
	pushserver.ico	Push			
	pushserver.properties	Push			
conf	pushserver.xml	Push transmission, Observer		session,	
	crimson.jar	XML			
	log4j.jar				
	ozpush50.jar	Push			
	ozsfw50.jar				
	OZServiceBootstrap.jar	NT			
lib	OZUSLClientSession.jar	USL			
IID	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			

#### License

F	Push	ozli	cense.xml		Push	가
		License		. License	License	
,	IP	,		. Push		IP
		가	License			

#### **Push**

#### ozpushcntrl.bat

```
@echo off
rem -----
rem
rem
              OZ Push Server Contorl(OZA SHELL)
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
rem
                     root directory of a JDK or JRE installation.
                     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
rem MIN_MEMORY
                     - Minimum memory used by OZ Push Server. (The unit is mega-byte.)
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
set OZLIB=%OZLIBALL% ozpush50.jar;%OZPUSHSERVER_HOME% conf ;
rem
        OZ Server Class
rem -----
set OZLIB=%OZLIB%;%OZLIBALL% ozsfw50.jar
rem -----
rem
        Library for Logging
rem -----
set OZLIB=%OZLIB%;%OZLIBALL% log4j.jar
rem
        Library for XML
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
        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
```

```
: MAX_MEMORY, MIN_MEMORY JVM

/ JAVA_OPTION

. JAVA_OPTION
```

#### ozpushcntrl.sh

```
#!/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
                   recommanded 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 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
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 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"</li>
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>
<!--
          가
                 observer
    <observer name="OB1" classname="sample.observer.OB1" checkInterval="5000" />
   <observer name="OB2" classname="sample.observer.OB2" checkInterval="5000"/>
```



>
#
# Main configuration of ozpushserver
#

Element			
ozpushserver	port	Push	. ( :8088)
priority		FATAL	. ( :DEBUG) Log level 가 , 가 log .
	priority	ERROR	log level , log .
log	log	INFO	"ERROR" level log log .
		DEBUG	"ERROR", "INFO" level log log
	path	: %OZPı	. ( ushHome%\log)
logger		logger :Console)	: logger  Console RollingFile Console DaillyRollingFile
		Console	
	type	RollingFile	ex) pushserver.log, pushserver.log.1, pushserver.log.2,
		DaillyRolling File	(DatePattern) . ex) pushserver.log, pushserver.log. , pushserver.log. ,

	async	logger . (	Console :false)	
	filename	logger	RollingFile	DaillyRollingFile . (
		: pushse	rver.log)	
	append	logger 가	RollingFile	DaillyRollingFile 가
			. (	:true)
	immediateFlus	logger	RollingFile	DaillyRollingFile
	h	. (	:false)	
		logger	DaillyRollingFile	
	datepattern	. (	"DatePattern" : YYYY-MM-DD)	
	maxBackupIn	logger	RollingFile	Backup
	dex		가 . (	:5)
	maxFileSize	logger	RollingFile . ( :1M	В)
session	interval	:5000)		. (
transmission	multi		. (     :false)	
	name	Observer		
Observer	classname	Observer		·
	checkInterval	. (	:5000)	

#### - DatePattern

уууу-ММ	6 pushserver.log pushserver.log.2005-06	12
	pushs	erver.log

yyyy-ww	(	가 , 1 12 pushserver.log pushserver.log.2005-01 pushserver.log
yyyy-MM-dd	( )	7 1 pushserver.log pushserver.log.2005-07-01 pushserver.log
уууу-ММ-dd-НН		7 1 10 pushserver.log pushserver.log.2005-07-01-09 pushserver.log

```
-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

#### ■ DataModule.StartPush

Prototype	BOOL StartPush(string ObserverIP,		⁻I P,		
	i nteger	ObserverPort,	stri ng	Observername)	
			Push		
Definition		:		가	
			Synchroniz	reToDataSet	true
	ObserverI P	Push	n IP		
Argument	0bserverPo	ort Push	n Port		
	0bserverna	nme Push	1	Observer	

### DataModule.EndPush

Prototype	BOOL EndPush()
Definition	Push .

# Observer

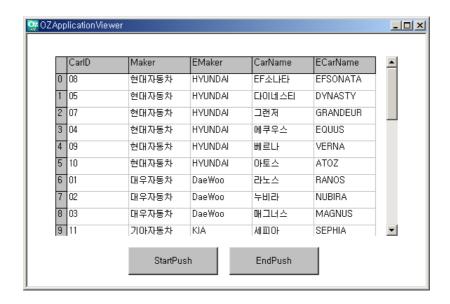
가 Observer 가 가 가 가 가 가 가 가 Push Server

```
가
2) ODI
                                                                    Push
                           Push
           Observer
                       가
                                                                ("OB1", "OB2", "OB3")
    (
    Observer가
                       pushsample.jar
                                                         .)
    pushsample.jar
                         Push Server가
                                                         /lib
    Push Server가
                                  /bin
                                        ozpushcntrl.bat
    rem -----
    rem
            User Library
    set OZLIB=%OZLIB%;%OZLIBALL% pushsample.jar
    Push Server가
                                   /conf
                                                      pushserver.xml
    Observer
    <?xml version="1.0" encoding="EUC-KR"?>
    <ozpushserver port="8088">
      priority="DEBUG" path="../logs/">
        <logger type="Console" aync="false" />
        <!--
           DailyRollingFile
           <logger type="DailyRollingFile" filename="logfile.log" append="true" immediateFlush="true"</li>
    datepattern="yyyy-MM-dd" />
        -->
        <logger type="RollingFile" filename="PushServer.log" append="true" immediateFlush="true"</li>
    maxbackupindex="5" maxFileSize="10KB" />
      <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.odi
                      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();
                                                                (1
> [ ] - [
                    ]
```

가





"StartPush" **Push Server** ozcar.odi DB 가 Push Server "EndPush"

DB

ozcar.odi