OZ Data Push Server Manual

Push

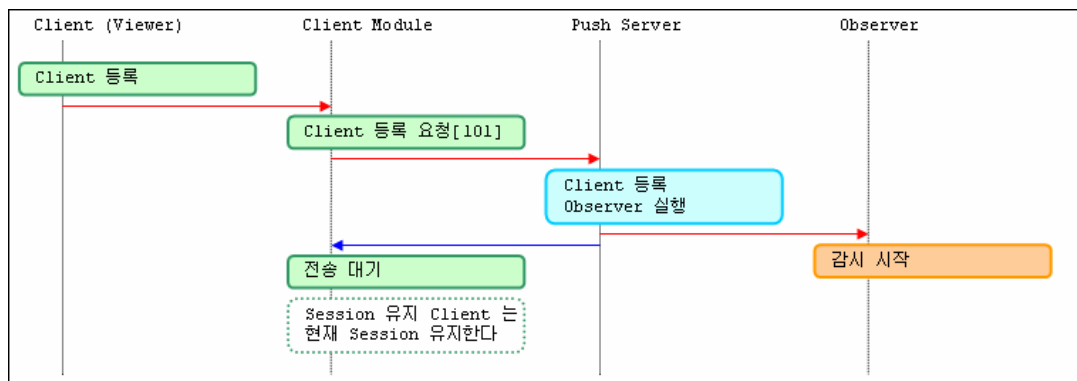Push   (Daemon   )

,   Push   Push   Observer

.

Push   .

- , Observer   .

-            Session

.

- Thread   Thread

.

- Observer ID

.

- Observer   /   /Session interval   pushserver.xml

.

- Log4j   .

:   Push

.

Observer

-   ,

                        Queue   .

-   sdm

              .

-      ObserverID   Interface   ,   .

        : Observer   "_ObserverImpl"

                        .

Client Module

-      Push   .

Push

bin	ozpushcntrl.bat	(.bat) (.sh) Push
	ozpushcntrl.sh	
	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	
	ozpush40.jar	Push
	ozsfw40.jar	
	parser.jar	XML
	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   ozlicense.xml   Push
                    License   .   License   License
        ,   IP   ,   .   Push   IP
                                          License   .
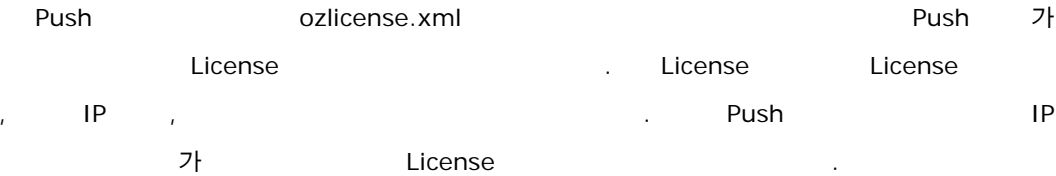
Push

■   **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%   ozpush40.jar;%OZPUSHSERVER_HOME%   conf   ;

rem ----------------------------------
rem          OZ Server Class
rem ----------------------------------
set OZLIB=%OZLIB%;%OZLIBALL%   ozsfw40.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
```

: MAX_MEMORY, MIN_MEMORY   JVM

/   ,   JAVA_OPTION

.   JAVA_OPTION

.

■   ozpushcntrl.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
#                    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/ozpush40.jar


#    ----------------------------------
#           OZ Server Library
#    ----------------------------------
OZLIB=$OZLIB:$OZPUSHSERVER_HOME/lib/ozsfw40.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 . (/)

■ **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 , log .

			ERROR	log level ,
				                                          log
				     .

			INFO	"ERROR" level log log .

			DEBUG	"ERROR", "INFO" level log
				                                              log
				          .

	path	. (: %OZPushHome%\log)

logger	type	logger , . (
		   : Console)
		               : logger ,
		                    Console RollingFile
		                    Console DaillyRollingFile
		                          .

			Console	.
			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 . (: pushserver.log)	
	append	logger RollingFile DaillyRollingFile . (: true)	
	immediaeFlush	logger RollingFile DaillyRollingFile . (: false)	
	datepattern	logger DaillyRollingFile . "DatePattern" . (: YYYY-MM-DD)	
	maxBackupIndex	logger RollingFile Backup . . (: 5)	
	maxFileSize	logger RollingFile . (: 1MB)	
session	interval	. (: 5000)	
transmission	multi	. (: false)	
Observer	name	Observer .	
	classname	Observer .	
	checkInterval	. (: 5000)	

- DatePattern

yyyy-MM		6 12 pushserver.log pushserver.log.2005-06 pushserver.log .

yyyy-ww	( )	, 1
		        12 pushserver.log
		pushserver.log.2005-01
		                pushserver.log
		.

yyyy-MM-dd	( )	7 1 pushserver.log pushserver.log.2005-07-01 pushserver.log .
yyyy-MM-dd-HH		7 1 10 pushserver.log pushserver.log.2005-07-01-09 pushserver.log .

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   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, integer ObserverPort, string Observername)
Definition	Push . : SynchronizeToDataSet true .
Argument	*ObserverIP* Push IP
	ObserverPort Push Port
	Observername Push Observer

■ **DataModule.EndPush**

Prototype	BOOL EndPush()
Definition	Push .

Observer

Observer   .

1)

.

.

Push Server

.

2) ODI   ,

.

Push   Push

.

➢   Observer   .
(.   ("OB1", "OB2", "OB3")
Observer   pushsample.jar   .)

➢ pushsample.jar   Push Server   /lib   .

➢ Push Server   /bin   ozpushcntrl.bat

.

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

➢ Push Server   /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.odi   Table   Table   .

➢ Board   Button   Button   "OnClick"

.

▪ 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"   Push Server   .
>   ozcar.odi   DB
>   .

> ➤ "EndPush"   Push Server   .
>   ozcar.odi   DB
>   .