
OZ Server

API Reference for Java Developers

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OZ Java Server API

OZ Java Server API provides [classes](#) and [interfaces](#).

Class

OZ Java Server API provides the following classes:

- [Cache](#)
- [ConnectionPool](#)
- [ConnectionPoolInfo](#)
- [ConnectionPoolStatus](#)
- [DataBind](#)
- [HCDataModule](#)
- [HCDataSet](#)
- [Log](#)
- [Mail](#)
- [MaxRowsOfSet](#)
- [MemoryStatus](#)
- [Module](#)
- [Monitor](#)
- [OZCPEException](#)
- [OZDataSetInfo](#)
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- [OZReportParameter](#)
- [Parameter](#)
- [Service](#)
- [Servlet](#)
- [SortProperties](#)
- [Versions](#)
- [Viewer](#)

Cache

This class provides methods related to the cache function of OZ Server.

Constructor Detail

Cache

```
public Cache(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)
```

Performs processing related to OZ Server Cache Manager and processes functions such as the Cache Manager Configuration and Delete Cache Item.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the autologin

useUSL - Whether to use the USL

Method Detail

getCacheConfiguration

```
public SortProperties getCacheConfiguration() throws OZCPEException
```

Gets the cache settings of the OZ Server.

setCacheConfiguration

```
public void setCacheConfiguration(SortProperties p) throws OZCPEException
```

Changes the cache configurations.

Parameters:

p - Cache configuration property

ConnectionPool

This class provides methods related to the database connection pool of OZ Server.

Constructor Detail

ConnectionPool

```
public ConnectionPool(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)
```

An interface for the database connection pool of the OZ Server, performing management functions such as registering, deleting the JDBC/ODBC data of the database.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the Autologin

useUSL - Whether to use the USL

Method Detail

addPool

```
public void addPool(ConnectionPoolInfo pool) throws OZCPEException
```

Adds ConnectionPool. Set a value in the declared member variable in the "ConnectionPoolInfo" class to add ConnectionPool.

Parameters:

pool - ConnctionPoolInfo object, which is the information of the ConnectionPool to add

removePool

`public void removePool(String pool) throws OZCPEException`

Deletes the ConnectionPool of the selected name.

Parameters:

pool - ConnectionPool Name

getPoolInfoList

`public ConnectionPoolInfo[] getPoolInfoList() throws OZCPEException`

Gets the ConnectionPoolInfo list for all ConnectionPools.

getPoolStatusList

`public ConnectionPoolStatus[] getPoolStatusList() throws OZCPEException`

Gets the status information of all ConnectionPools.

getPoolInfo

`public ConnectionPoolInfo getPoolInfo(String alias) throws OZCPEException`

Gets the ConnectionPoolInfo list for the corresponding ConnectionPool.

Parameters:

alias - Alias of the ConnectionPool

save

`public void save() throws OZCPEException`

Save the data of all ConnectionPool in the server.

ConnectionPoolInfo

This class provides methods to get the information about database connection.

Method Detail

getAlias

```
public String getAlias()
```

Gets the alias of the connection.

setAlias

```
public void setAlias(String _alias)
```

Sets the alias of the connection.

Parameters:

_alias - Alias

getVendor

```
public String getVendor()
```

Gets the vendor name of the connection.

setVendor

```
public void setVendor(String vendorName)
```

Sets the vendor name of the connection.

Parameters:

vendorName - DB Vendor name

getDriver

```
public String getDriver()
```

Gets the Driver name of the connection.

setDriver

```
public void setDriver(String _driver)
```

Sets the Driver name of the connection.

Parameters:

_driver - Driver name

getURL

```
public String getURL()
```

Gets the URL of the connection.

setURL

```
public void setURL(String _url)
```

Sets the URL of the connection.

Parameters:

_url - URL

getInitConns

```
public int getInitConns()
```

Gets the initial number of connections.

setInitConns

```
public void setInitConns(int _initConns)
```

Sets the initial number of connections.

Parameters:

_initConns - Initial connections

getMaxConns

```
public int getMaxConns()
```

Gets the maximum number of connections.

setMaxConns

```
public void setMaxConns(int _maxConns)
```

Sets the maximum number of connections.

Parameters:

_maxConns - Maximum connections

getTimeout

```
public int getTimeout()
```

Gets the connection timeout in sec.

setTimeout

```
public void setTimeout(int _timeout)
```

Sets the connection timeout.

Parameters:

_timeout - connection timeout

getDoConnectionCheck

```
public boolean getDoConnectionCheck()
```

Gets status of connection validity check

setDoConnectionCheck

```
public void setDoConnectionCheck(boolean _check)
```

Sets status of connection validity check.

Parameters:

_check - Check status

getTestQueryString

```
public String getTestQueryString()
```

Gets the query to test connection.

setTestQueryString

```
public void setTestQueryString(String _testQuery)
```

Sets the query to test connection.

Parameters:

_testQuery - Query to test connection

getInitSqls

```
public String getInitSqls()
```

Gets the initial query to execute after connection open.

setInitSqls

```
public void setInitSqls(String _initQuery)
```

Sets the initial query to execute after connection open.

Parameters:

_initQuery - Initial query

getCloseSqls

public String getCloseSqls()

Gets the query to execute before closing or freeing a connection.

setCloseSqls

public void setCloseSqls(String _closeQuery)

Sets the query to execute before closing or freeing a connection.

Parameters:

_closeQuery - Closing query

getSessionQuery

public String getSessionQuery()

Gets the session query of a connection.

setSessionQuery

public void setSessionQuery(String _sessionQuery)

Sets the session query of a connection.

Parameters:

_sessionQuery - Session query

getAutoCommit

public String getAutoCommit()

Gets AutoCommit status.

setAutoCommit

public void setAutoCommit(String _commit)

Sets AutoCommit status.

Parameters:

_commit - AutoCommit status: "true" or "false"

getProperties

```
public Properties getProperties()
```

Gets the property value.

setProperties

```
public void setProperties(Properties _props)
```

Sets the property value.

Parameters:

_props - properties

getKey

```
public String getKey()
```

Gets the unique Key of the connection. Default key value is Combination of Items Key of the vendor in dbconfig.xml file

setKey

```
public void setKey(String _key)
```

Sets the unique Key of the connection. Setting user defined key value other than default key value is not recommended.

Parameters:

_key - Key value

getItems

```
public HashMap getItems()
```

Gets Item <key,value> of the vendor in dbconfig.xml.

setItems

```
public void setItems(String _map)
```

Sets Item <key,value> of the vendor in dbconfig.xml.

Parameters:

_map - Key value

getDecodeCharSet

```
public void getDecodeCharSet()
```

Gets the decoding set for the corresponding ConnectionPool.

setDecodeCharSet

```
public void setDecodeCharSet(String decode)
```

Sets the decoding set for the corresponding ConnectionPool.

Parameters:

decode - Decoding set for the ConnectionPool

getEncodeCharSet

```
public String getEncodeCharSet()
```

Gets the encoding set for the corresponding ConnectionPool.

setEncodeCharSet

```
public void setEncodeCharSet(String encode)
```

Sets the encoding set for the corresponding ConnectionPool.

Parameters:

encode - Encoding set for the ConnectionPool

getFetchRow

```
public int getFetchRow()
```

Gets the number of JDBC result set rows to get by one time.

setFetchRow

```
public void setFetchRow(int rows)
```

Sets the number of JDBC result set rows to get by one time.

Parameters:

rows - Row count

ConnectionPoolStatus

This class provides member variables and methods to get the state information of the connection pool.

Member Variables

OK

`public final static int OK`

ConnectionPool creation was successful.

DRIVER_ERROR

`public final static int DRIVER_ERROR`

Failed to load JDBC driver required to create ConnectionPool.

CONNECTION_ERROR

`public final static int CONNECTION_ERROR`

Failed to connect DBMS.

Method Detail

getStatusString

`public String getStatusString()`

Gets the current status message.

getStatus

`public int getStatus()`

Gets the current status.

getFreeConnectionCount

```
public int getFreeConnectionCount()
```

Gets the number of free connections.

getCheckedOutConnectionCount

```
public int getCheckedOutConnectionCount()
```

Gets the number of Checked out connections.

getErrorMessage

```
public String getErrorMessage()
```

Gets the error message occurred during ConnectionPool creation.

DataBind

This class provides methods related to the data binding function of OZ Server.

Constructor Detail

DataBind

```
public DataBind(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)
```

Performs data binding function

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

setDataBindConfiguration

public void setDataBindConfiguration(SortProperties config) throws OZCPEException

Sets the values defined in the databind.properties file.

Parameters:

config - DataBind configuration properties

getDataBindConfiguration

public SortProperties getDataBindConfiguration() throws OZCPEException

Gets the values defined in the databind.properties file.

HCDDataModule

This class provides member variable and methods to get the information of the HCDDataModule.

Member Variables

PARAMETERSET_NAME

public final static String PARAMETERSET_NAME

Type of OZ parameter.

Method Detail

getDataSetNames

public String[] getDataSetNames()

Gets the names of all data sets.

getDataSets

```
public HCDataSet[] getDataSets(String name)
```

Gets the data set with the corresponding name. The data set name makes a distinction between capitals and small letters. If you set the detail set name in the mater-detail structure, the master set is also returned. If there is no data set with the name, returns an array of which the length is 0.

Parameters:

name - Name of Data set

PrintInfo

```
public void PrintInfo(PrintStream out)
```

Prints the data and field information as PrintStream.

Parameters:

out - PrintStream object to print

HCDataSet

This class provides method to get the information of the HCDataSet.

Method Detail

getResultSet

```
public ResultSet getResultSet()
```

Gets the result set.

Log

This class provides methods related to the log function of OZ Server.

Constructor Detail

Log

`public Log(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)`

Performs the processing related to OZ server Log Manager and configures the settings for recording the various messages, information, and errors, etc. arising during server operation.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

getConfigure

`public String getConfigure() throws OZCPEException`

Gets the log configurations from the server.

downloadLog

`public byte[] downloadLog() throws OZCPEException`

Downloads the log file from the server.

downloadLog

`public void downloadLog(String fileName) throws OZCPEException`

Saves the log file downloaded from the server to the local.

Parameters:

fileName - Name of the file to save

setConfigure

public void setConfigure(String logs) throws OZCPEException

Changes the log configuration values.

Parameters:

logs - The log configuration value to modify, set in the form of "key=value"

setPriority

public void setPriority(String p) throws OZCPEException

Sets the level of the log. (INFO, DEBUG, ERROR)

Parameters

p - The log level to change

Mail

This class provides methods related to the email sending function of OZ Server.

Constructor Detail

Mail

public Mail(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)

Performs email sending function

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

addAlias

`public void addAlias(String aliasName, SortProperties p) throws OZCPEException`

Adds mail configuration information with the alias configured in the OZ Server.

Parameters:

aliasName - The alias

p - The email configuration property value

getAliasConfig

`public SortProperties getAliasConfig(String aliasName) throws OZCPEException`

Gets the mail configuration information of the corresponding alias.

Parameters:

aliasName - The alias

getMailAliasNames

`public String[] getMailAliasNames()`

Gets all mail aliases configured in the `amil.properties` in the OZ Server.

modifyAlias

`public void modifyAlias(String aliasName, String newAliasName, SortProperties p)`

`throws OZCPEException`

Modifies the name and mail configuration information of the corresponding alias.

Parameters:

aliasName - The alias

newAliasName - The new alias

p - Mail configuration property value

removeAlias

`public void removeAlias(String aliasName) throws OZCPEException`

Deletes the mail configuration information of the corresponding alias.

Parameters:

aliasName - The alias

send

public void send(String aliasName, String from, String fromUserName, String to, String cc, String bcc, String subject, String context, boolean isHTML, String localFileFullPath, String fileName) throws OZCPEException

Sends asynchronous mail according to the mail information of the corresponding alias.

Parameters:

aliasName - The alias

from - The email address of a person who sent the email

fromUserName - The name who sent the email

to - The email address of a person to receive the email

cc - The cc email address

bcc - The bcc email address

subject - The email subject

context - The email content

isHTML - Whether to set the message format to HTML

localFileFullPath - The full path of the file for attachment

fileName - The attached file name

sendSync

public boolean sendSync(String aliasName, String from, String fromUserName, String to, String cc, String bcc, String subject, String context, boolean isHTML, String localFileFullPath, String fileName) throws OZCPEException

Sends synchronous mail according to the mail information of the corresponding alias, and gets whether the transmission succeeded.

Parameters:

aliasName - The alias

from - The email address of a person who sent the email

fromUserName - The name who sent the email
to - The email address of a person to receive the email
cc - The cc email address
bcc - The bcc email address
subject - The email subject
context - The email content
isHTML - Whether to set the message format to HTML
localFileFullPath - The full path of the file for attachment
fileName - The attached file name

MaxRowsOfSet

This class provides methods related to the MaxRows property of the data set.

Method Detail

SetSetName

```
public void SetSetName(String v)
```

Sets the name of data set to set the Maximum Rows property value.

Parameters:

v - Name of Data set

GetSetName

```
public String GetSetName()
```

Gets the name of data set that the Maximum Rows property value is set.

SetMaxRow

```
public void SetMaxRow(int v)
```

Sets value of Maximum Rows property.

Parameters:

v - Value of Maximum Rows property

GetMaxRow

```
public int GetMaxRow()
```

Gets value of Maximum Rows property.

MemoryStatus

This class provides methods to get the information about the system's memory.

Method Detail

garbageCollect

```
public static void garbageCollect()
```

Do garbage collection.

getTotalMemory

```
public long getTotalMemory()
```

Gets total memory of the server VM.

getFreememory

```
public long getFreememory()
```

Gets free memory of the server VM.

Module

This class provides methods related to the data module processing function of OZ Server.

Constructor Detail

Module

```
public Module(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)
```

Performs OZ Data Module related functions.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

addODIParameter

```
public void addODIParameter(String odiName, String key, String value)
```

Configures the ODI parameter values to create SDM files. Default ODI parameter values will be used if not configured.

Parameters:

odiName - ODI name

key - ODI parameter name

value - ODI parameter value

addODIParameter

```
public void addODIParameter(String odiName, String item, String category, Hashtable  
paramHash) throws IllegalArgumentException
```

Configures the ODI parameter values to create SDM files. Default ODI parameter values will be used if not configured. Used when creating SDM generation units for each

parameter and when each different SDM file is needed depending on the ODI parameter values.

Parameters:

odiName - ODI name set in the Designer

item - ODI file name

category - ODI file path

paramHash - Hashtable where the parameter keys and values are set.

addParameter

```
public void addParameter(String key, String value)
```

Configures form parameter values to create SDM files. Default form parameter values will be used if not configured.

Parameters:

key - Form Parameter Name

value - Form Parameter Value

addReport

```
public IReportInfo addReport(String itemName, String categoryName) throws
```

```
OZCPEException
```

Adds reports in the process of making multiple reports into one OZD file.

Parameters:

itemName - Item name where reports will be added

categoryName - Category name of the item where reports will be added

addReport

```
public IReportInfo addReport(String itemName, String categoryName, String  
displayName) throws OZCPEException
```

Adds reports in the process of making multiple reports into one OZD file.

Parameters:

itemName - Item name where reports will be added

categoryName - Category name of the item where reports will be added

displayName - Report name to appear in the report tree of the OZ Viewer

getODIParameter

public OZParameter[] getODIParameter(String category, String odiName) throws
OZCPEException

Gets ODI parameter from ODI

Parameters:

category - Category name

odiName - ODI name

getOZD

public InputStream getOZD() throws OZCPEException

Create an OZD with multiple reports and gets its Input Stream.

getOZD

public InputStream getOZD(String item, String category, String[] urls) throws
OZCPEException

The first type function is a function that gets a report file from the server to create an OZD file.

Parameters:

item - Item name (OZR file name)

category - Category name

urls - The URL of the image file to save together with the OZD

getOZQReportParameter

public OZODIItem[] getOZQReportParameter(String category, String ozqlItemName)
throws OZCPEException

Gets ODI parameter from OZ Query Designer.

Parameters:

category - Category name

ozqlItemName - OZQR name

getOZReportParameter

public OZReportParameter getOZReportParameter(String category, String reportName)

throws OZCPEException

Gets ODI parameter and form parameter from report.

Parameters:

category - Category name

reportName - Report name

getOZReportDataSetInfo

public OZDataSetInfo[] getOZReportDataSetInfo(String category, String reportName)

throws OZCPEException

Gets the dataset information in the report. Returns in the order they are added to the data tree.

Parameters:

category - Category name

reportName - Report name

registODIPath

public void registODIPath (String odiName, String path) throws

IllegalArgumentException

Registers an ODI file to dynamically change when creating an OZD.

Parameters:

odiName - ODI name

path - ODI file path

saveOZD

public void saveOZD(String fileName) throws OZCPEException

Creates an OZD with multiple reports and saves it in a specific path.

Parameters:

fileName - Category path where the file will be saved and file name

saveOZD

public void saveOZD(String fileName, String item, String category, String[] urls)

throws OZCPEException

Saves a report file as OZD file.

Parameters:

fileName - OZD file name including the save path

item - Report file(.ozr) name

category - Category name of the report file(.ozr)

urls - URL of the image file to save together with the OZD file

setMemoAllowed

public void setMemoAllowed(boolean allowed)

Sets whether to allow memo or not.

Parameters:

allowed - True or false

setPassword

public void setPassword(String password)

Set password.

Parameters:

password - Password

Monitor

This class provides methods related to the monitor log function of OZ Server.

Constructor Detail

Monitor

`public Monitor(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)`

Performs the real-time monitoring related functions of OZ Server.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

getVersions

`public Versions getVersions() throws OZCPEException`

Gets the version information of the server and respective modules.

getMemoryInfo

`public MemoryStatus getMemoryInfo() throws OZCPEException`

Gets the current memory usage status. (total memory, used memory, free memory)

downloadMonitorLog

`public byte[] downloadMonitorLog() throws OZCPEException`

Gets the monitor log file saved in the Server.

downloadMonitorLog(String fileName)

`public void downloadMonitorLog(String fileName) throws OZCPEException,
IOException`

Gets the monitor log file saved in the Server and saves it in the set location as file name.

OZCPEException

This class provides methods related to the exception that occurs while using API.

Method Detail

getErrorCode

```
public int getErrorCode()
```

Gets the error code.

getMessage

```
public String getMessage()
```

Gets the error message.

OZDataSetInfo

This class provides methods to get the information about data set added to the OZR file.

Method Detail

getDataSetServiceType

```
public String getDataSetServiceType()
```

Gets the service type. Returns one of ODI, DataService, FXData.

getDataSetName

```
public String getDataSetName()
```

Gets the dataset name.

getDataSetFields

```
public OZAttributeList getDataSetFields()
```

Gets the dataset field information.

getMaxRowCount

```
public int getMaxRowCount()
```

Gets the value of "Max Row Count" property.

getUse

```
public boolean getUse()
```

Gets the value of "Use" property.

getExportable

```
public boolean getExportable()
```

Gets the value of "Exportable" property.

OZODIItem

This class provides methods to get the information about ODI file.

Method Detail

getCategory

```
public String getCategory()
```

Gets the category name.

getODIName

```
public String getODIName()
```

Gets the ODI name.

getODIFilename

```
public String getODIFilename()
```

Gets the ODI file name.

getODIParameters

```
public OZParameter[] getODIParameters()
```

Gets the ODI parameter.

OZParameter

This class provides methods to get the information about FORM parameters added to the OZR file.

Method Detail

getName

```
public String getName()
```

Gets the parameter name.

getType

```
public int getType()
```

Gets the parameter type.

getValue

```
public String getValue()
```

Gets the parameter value.

getDescription

```
public String getDescription()
```

Gets the parameter description.

OZReportParameter

This class provides methods to get the information about ODI parameters and FORM parameters added to the OZR file.

Method Detail

getODIList

```
public OZODIItem[] getODIList()
```

Gets the ODI information object.

getFormParameters

```
public OZParameter[] getFormParameters()
```

Gets the form parameter information object.

Parameter

This class provides member variables to get the information about ODI parameters.

Member Variables

name

```
public String name
```

OS name of system.

value

public String value

Parameter value.

Service

This class provides methods related to the service function of OZ Server.

Constructor Detail

Service

public Service(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)

Performs processing functions such as OZ Server information, status, processing, memory collection.

Parameters:

url - URL of OZ Server

id - User ID

pw - User password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

garbageCollect

public void garbageCollect() throws OZCPEException

Runs garbage collection, which collects the free memory on the JVM using the separate memory collection program so that the memory can be recycled.

ping

public boolean ping() throws OZCPEException

Returns whether the server is operating.

getHandlerCount

public int getHandlerCount() throws OZCPEException

Gets the number of concurrent multithread of the server.

Servlet

This class provides methods related to the OZD file generation function of OZ Server.

Method Detail

getOZD

public final InputStream getOZD(String item, String category, Hashtable formparam, Hashtable odiparam, boolean memoallowed, String password, String id, String pwd, HttpServletRequest request) throws Exception

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

formparam - Form parameter

odiparam - ODI parameter

memoallowed - Password to apply when opening the OZD document

password - User ID to log in to the OZ Server

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

getOZD

```
public final InputStream getOZD(String item, String category, String serverDMType,  
Hashtable formparam, Hashtable odiparam, Hashtable odipath, boolean
```

```
memoallowed, String password, String id, String pwd, HttpServletRequest request)
```

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

serverDMType - Set whether to process the data module received from the OZ Server as memory or file. (default: memory)

formparam - Form parameter

odiparam - ODI parameter

odipath - Set whether to allow making notes in the OZD document

memoallowed - Password to apply when opening the OZD document

password - User ID to log in to the OZ Server

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

getOZD

```
public final InputStream getOZD(String[] item, String[] category, Hashtable[]  
formparam, Hashtable[] odiparam, String id, String pwd, HttpServletRequest request,  
String[] displayName, String[][] urls, Hashtable[] options) throws Exception
```

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

formparam - Form parameter

odiparam - ODI parameter

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

displayName - Image file URL

urls - OZD save options

options - Set whether to allow making notes in the OZD document

getOZD

```
public final InputStream getOZD(String[] item, String[] category, Hashtable[]  
formparam, Hashtable[] odiparam, boolean memoallowed, String password, String id,  
String pwd, HttpServletRequest request, String[] displayName, String[][] urls,  
Hashtable[] options) throws Exception
```

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

formparam - Form parameter

odiparam - ODI parameter

memoallowed - Password to apply when opening the OZD document

password - User ID to log in to the OZ Server

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

displayName - Image file URL

urls - OZD save options

options - Set whether to allow making notes in the OZD document

getOZD

public final InputStream getOZD(String[] item, String[] category, String serverDMType, Hashtable[] formparam, Hashtable[] odiparam, boolean memoallowed, String password, String id, String pwd, HttpServletRequest request, String[] displayName, String[][] urls, Hashtable[] options) throws Exception

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

serverDMType - Set whether to process the data module received from the OZ Server as memory or file. (default: memory)

formparam - Form parameter

odiparam - ODI parameter

memoallowed - Password to apply when opening the OZD document

password - User ID to log in to the OZ Server

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

displayName - Image file URL

urls - OZD save options

options - Set whether to allow making notes in the OZD document

getOZD

public final InputStream getOZD(String[] item, String[] category, String serverDMType, Hashtable[] formparam, Hashtable[] odiparam, Hashtable[] odiPaths, boolean memoallowed, String password, String id, String pwd, HttpServletRequest request, String[] displayName, String[][] urls, Hashtable[] options, Hashtable[] fxURLs) throws Exception

Inherits an OZ Servlet server and generates one that creates OZDs. Communicates the newly generated OZ Servlet server to create OZD files.

Parameters:

item - Item name (OZR file name)

category - Category name

serverDMType - Set whether to process the data module received from the OZ Server as memory or file. (default: memory)

formparam - Form parameter

odiparam - ODI parameter

odiPaths - Set whether to allow making notes in the OZD document

memoallowed - Password to apply when opening the OZD document

password - User ID to log in to the OZ Server

id - User password to log in to the OZ Server

pwd - HttpServletRequest

request - Report name

displayName - Image file URL

urls - OZD save options

options - Set whether to allow making notes in the OZD document

fxURLs - Framework URL of FX data and character set

getOZDWithSDM

```
public final InputStream getOZDWithSDM(String item, String category, Hashtable  
sdm, Hashtable formParam, boolean memoallowed, String password, String id, String  
pwd, HttpServletRequest request) throws Exception
```

Gets a report file and SDM file and creates and gets an OZD file.

Parameters:

item - Item name (OZR file name)

category - Category name

sdm - Information of the SDM that will create the OZD file

formparam - Form parameter

memoallowed - Whether to allow making notes in the OZD document

password - The password to apply when opening the OZD document

id - User ID to log in to the OZ Server

pwd - User password to log in to the OZ Server

request - HttpServletRequest

SortProperties

This class provides methods related to `getCacheConfiguration` and `setCacheConfiguration`.

Method Detail

get

public synchronized Object get(String key)

Gets the value of the key.

Parameters:

key - Name of key. For the key, refer to the `cachemngr.properties` file in the config folder of OZ Server.

getProperty

public synchronized String getProperty(String key)

Gets the value of the key.

Parameters:

key - Name of key. For the key, refer to the `cachemngr.properties` file in the config folder of OZ Server.

setProperty

public synchronized Object setProperty(String key, String value)

Sets the value of the key.

Parameters:

key - Name of the key. For the key, refer to the cachemngr.properties file in the config folder of OZ Server.

value - Value of the key.

put

public synchronized Object put(Object key, Object value)

Sets value of the key.

Parameters:

key - Name of the key. For the key, refer to the cachemngr.properties file in the config folder of OZ Server.

value - Value of the key.

Versions

This class provides member variables to get the information of OZ Server and the system on which OZ Server is running.

Member Variables

osName

public String osName

OS name of the system.

osVersion

public String osVersion

OS version of the system.

javaVendor

`public String javaVendor`

Manufacturer of JVM set in WAS connected to OZ Server.

javaVersion

`public String javaVersion`

Version of JVM set in WAS connected to OZ Server.

OZServerVersion

`public String OZServerVersion`

Version of OZ Server.

CPRelease

`public String CPRelease`

Release information of OZ Common Protocol.

CPProtocol

`public int CPProtocol`

Version of OZ Common Protocol.

DMRelease

`public String DMRelease`

Release information of OZ Data Module.

DMStreaming

`public int DMStreaming`

Streaming protocol version of OZ Data Module.

Viewer

This class provides methods related to the OZ Server's ability to process form files and data requested by OZ Viewer.

Constructor Detail

Viewer

`public Viewer(String url, String id, String pw, boolean bAutoLogin, boolean useUSL)`

Performs the form file and data processing requested by OZ Viewer.

Parameters:

url - URL of OZ Server

id - User ID

pw - User Password

bAutoLogin - Whether to use the AutoLogin

useUSL - Whether to use the USL

Method Detail

getBytesArrayForm

`public byte[] getBytesArrayForm(String reportName, String categoryName) throws`

`OZCPEException`

Gets the content of the report form.

Parameters:

reportName - Report Form name

categoryName - Category name of the report

getForm

`public InputStream getForm(String reportName, String categoryName, boolean`

`isCompress) throws OZCPEException`

Gets the content of the report form after setting whether to compress it.

Parameters:

reportName - Report Form name

categoryName - Category name of the report

isCompress - Whether or not compressed

getUserParametersWithDefaultValue

public Parameter[] getUserParametersWithDefaultValue(String itemName, int itemType, String categoryName) throws OZCPEException

Informs of the parameters used in the item and its default values.

Parameters:

itemName - Item name

itemType - Item type (OZR: 20001 / ODI: 10000)

categoryName - Category name of the item

isCompress - Whether or not compressed

getHCUSDM

public HCDataModule getHCUSDM(String fileName, String categoryName) throws OZCPEException

Gets the SDM saved in the server to the data.

Parameters:

fileName - Report Form name

categoryName - Category name of the report

getDataModule

public HCDataModule getDataModule(InputStream sdmInput) throws OZCPEException

Gets the data record from the SDM. The FETCH type will be fixed to the Batch type, and the DataModule binding will be fixed to the 2.5 type Normal.

Parameters:

sdmInput - SDM stream

getDataModule

public HCDataModule getDataModule(String odiName, String categoryName, Parameter[] parameters, boolean doCompress, boolean forceRefresh) throws OZCPEException

Gets the selected data record.

Parameters:

odiName - Name of the data source information file

categoryName - Category name of the data source file

parameters - User parameter to get the data record

doCompress - Whether to transmit compressed

forceRefresh - Whether to use the cache in the server

getDataModule

public HCDataModule getDataModule(String odiName, String categoryName, Parameter[] parameters, boolean doCompress, boolean forceRefresh, String[] invalidDataset, MaxRowsOfSet[] maxRows) throws OZCPEException

Gets the selected data record.

Parameters:

odiName - Name of the data source information file

categoryName - Category name of the data source file

parameters - User parameter to get the data record

doCompress - Whether to transmit compressed

forceRefresh - Whether to use the cache in the server

invalidDataset - Name of the unused data set among the data sources

maxRows - Maximum number of records of the data set

Interface

OZ Java Server API provides the following Interface:

- [IReportInfo](#)

IReportInfo

This interface provides a method to set additional information about a report when generating an OZD with multiple reports.

Method Detail

getItemName

```
public String getItemName()
```

Gets the item name.

getCategoryName

```
public String getCategoryName()
```

Gets the category name of the item.

addURL

```
public void addURL(String[] urls)
```

Sets the URL of the image file included in the report as array.

Parameters:

urls - Image file URL

addURL

```
public void addURL(String url)
```

Sets the URL of the image file included in the report.

Parameters:

url - Image file URL

addParameter

```
public void addParameter(String key, String value)
```

Configures the parameter values.

Parameters:

key - Parameter name

value - Parameter value

addODIParameter

```
public void addODIParameter(String odiName, String key, String value)
```

Configures the ODI parameter values.

Parameters:

odiName - ODI name

key - ODI parameter name

value - ODI parameter value

addProperties

```
public void addProperties(String key, String value)
```

Configures report save options.

Parameters:

key - Option name

value - Option value

addFrameworkURL

```
public void addFrameworkURL(String fxName, String url, String charset)
```

Configures the framework URL of FX data.

Parameters:

fxName - FX data name

url - Framework URL

charset - Character set for parameter of framework URL

OZ Scheduler API

OZ Scheduler API provides [classes](#) and [interfaces](#).

Class

OZ Scheduler API provides the following classes:

- [DirectExportResult](#)
- [DirectPrintResult](#)
- [DirectTaskResult](#)
- [FileInfo](#)
- [Program](#)
- [Publisher](#)
- [ScheduledTask](#)
- [Scheduler](#)
- [ServerInfo](#)
- [TaskHolidayGroupInfo](#)
- [TaskHolidayInfo](#)
- [TaskResult](#)

DirectExportResult

This class provides the execution result of a task whose execution type is DirectExport.

Member Variables

exportFileList

```
public String exportFileList
```

List of exported file names. Multiple file names are listed with "|" as a separator.

pageCount

public int pageCount

Number of exported pages.

DirectPrintResult

This class provides the execution result of a task whose execution type is DirectPrint.

Member Variables

pageCount

public int pageCount

Number of printed pages.

pageCopy

public int pageCopy

Number of copies.

pageRange

public String pageRange

Range of printed page.

printerName

public String printerName

Printer name.

printerDriverName

public String printerDriverName

Printer driver name.

DirectTaskResult

This class provides the execution result of a task whose execution type is DirectExport or DirectPrint.

Member Variables

taskID

public String taskID

ID of the task.

taskName

public String taskName

Name of the task.

taskGoupName

public String taskGoupName

Group name of the task.

completedTime

public String completedTime

Completion time of task.

executeTime

public String executeTime

Run time of task.

isSuccessful

public boolean isSuccessful

Whether the task was successful.

formCategoryName

public String formCategoryName

Category name of the OZR file.

formName

public String formName

Name of the OZR file.

errorMessage

public String errorMessage

Error message.

FileInfo

This class provides information about files and folders.

Member Variables

isDirectory

public boolean isDirectory

Whether it is a directory.

name

public String name

Name of the file or directory.

size

public long size

Size of the file or directory.

lastModified

public long lastModified

Time of the last modification of the file or directory, calculated as a date and time based on 00:00:00 GMT on January 1, 1970.

Program

This class is related to the external program registration and management functions of OZ Scheduler.

Constructor Detail

Program

public Program(String ip, int port)

Performs external program registration and management functions in OZ Scheduler.

Parameters:

ip - IP address

port - Port number

Method Detail

createFolder

public void createFolder(ServerInfo s, String folder)

Creates an external program folder in the OZ Scheduler.

Parameters:

s - OZ Server information

folder - Name of the folder to create

downloadFile

```
public byte[] downloadFile(ServerInfo s, String file)
```

Downloads the registered external program files.

Parameters:

s - OZ Server information

file - Name of the file to download

getExternalProgramList

```
public FileInfo[] getExternalProgramList(ServerInfo s, String folder)
```

Gets the list of external programs in the OZ Scheduler.

Parameters:

s - OZ Server information

folder - Folder name

removeFiles

```
public void removeFiles(ServerInfo s, String folder, String[] files)
```

Deletes a registered external program file.

Parameters:

s - OZ Server information

folder - Folder name

files - Name of the program file to remove

removeFolder

```
public void removeFolder(ServerInfo s, String folder, boolean isAll)
```

Deletes an external program folder in the OZ Scheduler.

Parameters:

s - OZ Server information

folder - Name of the folder to delete

isAll - Whether to execute methods

uploadFile

```
public void uploadFile(ServerInfo s, String file, byte[] b)
```

Register(upload) an external program in the OZ Scheduler.

Parameters:

s - OZ Server information

file - Name of the file to register

b - Value(byte) of the file to register

Publisher

This is a class that manages the result files of tasks generated by the OZ Scheduler.

Constructor Detail

Publisher

```
public Publisher(String ip, int port)
```

Manage the results file of tasks generated by the OZ Scheduler.

Parameters:

ip - IP address

port - Port number

Method Detail

createFolder

```
public void createFolder(ServerInfo s, String folder)
```

Creates a folder for saving the OZ Scheduler export file.

Parameters:

s - OZ Server information

folder - Name of the created folder

downloadFile

```
public byte[] downloadFile(ServerInfo s, String file)
```

Downloads the registered the OZ Scheduler export file.

Parameters:

s - OZ Server information

file - Downloaded file name

getPublishedFiles

```
public FileInfo[] getPublishedFiles(ServerInfo s, String folder)
```

Gets the list of export files from the OZ Scheduler.

Parameters:

s - OZ Server information

folder - Folder name

removeFiles

```
public void removeFiles(ServerInfo s, String folder, String[] files)
```

Deletes the registered the OZ Scheduler export file.

Parameters:

s - OZ Server information

folder - Deleted folder name

files - Names of deleted files

removeFolder

```
public void removeFolder(ServerInfo s, String folder, boolean isAll)
```

Deletes the folder where the OZ Scheduler export file is saved.

Parameters:

s - OZ Server information

folder - Deleted folder name

isAll - Whether to execute methods

ScheduledTask

This class provides task information.

Member Variables

taskID

public String taskID

ID of the task.

taskName

public String taskName

Name of the task.

taskGoupName

public String taskGoupName

Group name of the task.

formCategoryName

public String formCategoryName

Category name of the OZR file.

formFileName

public String formFileName

Name of the OZR file.

schedulingType

public int schedulingType

Schedule type code. (0: Immediately, 1: Once at specific time, 2: Periodically)

schedulingTypeStr

public String schedulingTypeStr

Schedule type. (Immediately, Once at specific time, Periodically)

nextRunTimeStr

public String nextRunTimeStr

Next execution time of task.

lastRunTimeStr

public String lastRunTimeStr

Last execution time of task.

status

public String status

Status of task. (W: Wait, R: Run, P: Pause)

Scheduler

This class creates report scheduling jobs and performs the result file and scheduler management functions.

Constructor Detail

Scheduler

public Scheduler(String ip, int port)

Creates report schedule jobs and perform result file and scheduler management functions.

Parameters:

ip - IP address

port - Port number

Method Detail

createTask

```
public String createTask(ServerInfo s, NameValueCollection configMap,  
NameValueCollection exportMap)
```

Creates a scheduling task based on the form file and gets the task ID.

Parameters:

s - OZ Server information

configMap - Configuration option used when creating task

exportMap - Configuration option of the files exported from the OZ Scheduler

getTask

```
public Vector getTask(ServerInfo s)
```

Gets the result of the currently Scheduling task.

Parameters:

s - OZ sever information

getTaskResult

```
public TaskResult[] getTaskResult(ServerInfo s, String from, String to, String taskId)
```

Gets the scheduling task result.

Parameters:

s - OZ Server information

from - Starting time

to - End time

taskId - Task ID

getTaskProperties

```
public SortProperties[] getTaskProperties(ServerInfo s, String taskId)
```

Gets task properties.

Parameters:

s - OZ Server information

taskId - Task ID

getTaskWaitTime

```
public int getTaskWaitTime(ServerInfo s, String taskId)
```

Gets the amount of time in seconds the task waited.

Parameters:

s - OZ Server information

taskId - Task ID

getTaskWaitCount

```
public int getTaskWaitCount()
```

Gets the number of tasks that are waiting.

removeTask

```
public void removeTask(ServerInfo s, String taskId)
```

Deletes a scheduling task.

Parameters:

s - OZ Server information

taskId - Task ID

modifyTask

```
public String modifyTask(ServerInfo s, String taskId, SortProperties configMap,  
SortProperties exportMap)
```

Modifies a task property.

Parameters:

s - OZ Server information

taskId - Task ID

configMap - OZ Scheduler configuration option

exportMap - Export information

taskPause

```
public boolean taskPause(ServerInfo s, String taskId)
```

Pauses a scheduling task.

Parameters:

s - OZ Server information

taskId - Task ID

taskResume

```
public boolean taskResume(ServerInfo s, String taskId)
```

Resumes a paused scheduling task.

Parameters:

s - OZ Server information

taskId - Task ID

stop

```
public void stop(ServerInfo s, boolean waitTaskId)
```

Stops a scheduler.

Parameters:

s - OZ Server information

waitTaskId - Whether to stops the OZ Scheduler abort

export

```
public boolean export(ServerInfo s, SortProperties configMap, SortProperties  
exportMap)
```

Export by using the viewer parameter as it is and then returns the result.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

exportMap - Export information

makePDF

```
public boolean makePDF(ServerInfo s, SortProperties configMap, SortProperties  
exportMap)
```

Performs PDF exporting without registering in the OZ Scheduler's work list and then returns the result.

Parameters:

s - OZ Server information

configMap - Form information for export

exportMap - PDF export information

print

```
public boolean print(ServerInfo s, SortProperties configMap, SortProperties printMap)
```

Prints by applying the viewer parameter.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

printMap - Print information

getConfiguration

```
public SortProperties getConfiguration(ServerInfo s)
```

Gets the OZ Scheduler configurations.

Parameters:

s - OZ Server information

modifyConfiguration

```
public void modifyConfiguration(ServerInfo s, SortProperties configMap)
```

Modifies the OZ Scheduler configurations.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

ping

```
public boolean ping()
```

Returns whether the server is running.

getOZSList

```
public String[] getOZSList(String path)
```

Gets the list of OZS files in the set path.

Parameters:

path - The path

ozsVerConv

```
public void ozsVerConv(String oldPath, String newPath)
```

Converts a 2.5 version OZS file into the latest version and saves it.

Parameters:

oldPath - The OZS file name or path to convert

newPath - The path for saving the converted OZS file

addTaskHolidayInfo

```
public boolean addTaskHolidayInfo(TaskHolidayInfo value)
```

Adds task holiday information.

Parameters

value - Task holiday information

modifyTaskHolidayInfo

```
public boolean modifyTaskHolidayInfo(String old_key, TaskHolidayInfo new_value)
```

Modifies task holiday information.

Parameters:

old_key - The task holiday name to modify

new_value - New task holiday information

deleteTaskHolidayInfo

```
public boolean deleteTaskHolidayInfo(String[] keys)
```

Deletes task holiday information.

Parameters:

keys - The task holiday name array to delete

addTaskHolidayGroupInfo

```
public boolean addTaskHolidayGroupInfo(TaskHolidayGroupInfo value)
```

Adds task holiday group information.

Parameters:

value - Task holiday group information

modifyTaskHolidayGroupInfo

```
public boolean modifyTaskHolidayGroupInfo(String old_key, TaskHolidayGroupInfo  
new_value)
```

Modifies task holiday group information.

Parameters:

old_key - The task holiday group name to modify

new_value - New task holiday group information

deleteTaskHolidayGroup

```
public boolean deleteTaskHolidayGroupInfo(String key)
```

Deletes task holiday group information.

Parameters:

key - The task holiday group name to delete

getTaskHolidayInfoList

```
public OZMap getTaskHolidayInfoList()
```

Gets the list of task holiday information.

getTaskHolidayGroupInfoList

```
public OZMap getTaskHolidayGroupInfoList()
```

Gets the list of task holiday group information.

saveTaskHoliday

```
public void saveTaskHoliday()
```

Saves task holiday information as an xml file.

directExport

```
public DirectExportResult directExport(ServerInfo s, SortProperties configMap,  
SortProperties exportMap) throws SchedulerException
```

Export by applying the viewer parameter.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

exportMap - Export information

directExportFiles

```
public Hashtable[] directExportFiles(ServerInfo s, SortProperties configMap,  
SortProperties exportMap, String localTempPath) throws SchedulerException
```

Export by applying the viewer parameter.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

exportMap - Export information

localTempPath - local temporary path

directExportResult

```
public DirectExportResult directExportResult(ServerInfo s, SortProperties configMap,  
SortProperties exportMap)
```

Export by applying the viewer parameter.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

exportMap - Export information

directExportByteArray

public HashTable directExportByteArray(ServerInfo s, SortProperties configMap, SortProperties exportMap) throws SchedulerException

Run the task.

Parameters:

s - OZ Server information

configMap - OZ Scheduler configuration option

exportMap - Export information

directPrint

public DirectPrintResult directPrint(ServerInfo s, SortProperties configMap, SortProperties printMap) throws SchedulerException

Print by applying the viewer parameter.

Parameters:

s - OZ Server information

configMap - Scheduler configuration information

printMap - Print information

ServerInfo

This is a class that contains information about OZ Server.

Method Detail

setURL

public final void setURL(String url) throws IllegalArgumentException

Sets the OZ Server URL.

Parameters:

url - OZ Server URL

setID

```
public final void setID(String id)
```

Sets the user ID.

Parameters:

id - User ID

setPWD

```
public final void setPWD(String pwd)
```

Sets the user password.

Parameters:

pwd - User password

TaskHolidayGroupInfo

This class defines a task holiday group.

Constructor Detail

TaskHolidayGroupInfo

```
public TaskHolidayGroupInfo(String name)
```

Defines the group of task holidays. The task holiday means the date when the task will not be performed.

Parameters:

name - Task holiday group name

Method Detail

getName

```
public String getName()
```

Gets the task holiday group name.

addReference

```
public void addReference(String name)
```

Registers the task holiday name that the task holiday group refers to.

Parameters:

name - Task holiday name

addReference

```
public void addReference(String[] names)
```

Registers the task holiday name that the task holiday group refers to.

Parameters:

names - The array of the task holiday name to be register in the task holiday group

getReferences

```
public String[] getReferences()
```

Gets the array of the reference name that will refer to the task holiday.

removeReference

```
public void removeReference(String name)
```

Deletes the task holiday name that the task holiday group refers to.

Parameters:

name - The task holiday name to be deleted in the task holiday group

removeReference

```
public void removeReference(String[] name)
```

Deletes the task holiday name that the task holiday group refers to.

Parameters:

name - The array of the task holiday name to be deleted in the task holiday group

removeAllRef

```
public void removeAllRef()
```

Deletes all task holiday names referred to by the task holiday group.

TaskHolidayInfo

This class defines a task holiday.

Constructor Detail

TaskHolidayInfo

```
public TaskHolidayInfo(String name)
```

Defines the task holiday. The task holiday means the date when the task will not be performed.

Parameters:

name - Task holiday name

Method Detail

getName

```
public String getName()
```

Gets task holiday name.

setBaseDay

```
public void setbaseDay(String pattern)
```

Set the base day to designate as task holiday.

Parameters:

pattern - Pattern of the baseday

getBaseDay

```
public String getBaseDay()
```

Gets the baseday designated as task holiday.

setStart

```
public void setStart(int start)
```

Sets how many days before the "baseday" will be holiday.

Parameters:

start - The number of days before the baseday.

getStart

```
public int getStart()
```

Gets the number of days before the baseday.

setEnd

```
public void setEnd(int end)
```

Sets how many days after the "baseday" will be holiday.

Parameters:

end - The number of days after the baseday.

getEnd

```
public void getEnd()
```

Gets the number of days after the baseday.

TaskResult

This class provides the results of the task execution.

Member Variables

taskID

public String taskID

ID of the task.

taskName

public String taskName

Name of the task.

taskGoupName

public String taskGoupName

Group name of the task.

completedTime

public String completedTime

Completion time of task.

isSuccessfulCode

public int isSuccessfulCode

Result code of task execution. (100001: failed, 200001: Export failed, 300001: Email sending failed, 400001: Succeeded)

isSuccessful

public String isSuccessful

Result of task execution. (Failed, Exporting Failed, Mailing Failed, Succeeded)

formCategoryName

public String formCategoryName

Category name of the OZR file.

formFileName

public String formFileName

Name of the OZR file.

Parameter

public String Parameter

Parameters set in the task.

schedulingType

public String schedulingType

Schedule type. (immediately, once, periodically)

exportFileList

public String exportFileList

List of exported file names. Multiple file names are listed with "|" as a separator.

errorMsg

public String errorMsg

Error message.

Interface

OZ Scheduler API provides the following Interface:

- [OZSchedulerUserDefinedPostTaskExecuteEx](#)

OZSchedulerUserDefinedPostTaskExecuteEx

This interface provides a method to execute specific functions after successful completion of task execution.

Method Detail

postTaskExecuteSuccess

`boolean postTaskExecuteSuccess(oz.util.SortProperties configMap,
oz.util.SortProperties exportMap, OZUDEPostTarget target, org.apache.log4j.Category
cat)` throws OZSchedulerUDEException

If successful execution of the task, and then run the post-processing program to be executed next.

Parameters:

configMap - Config Properties

exportMap - Export Properties

target - Target

cat - Execution log

postTaskExecuteFail

boolean postTaskExecuteFail(oz.util.SortProperties configMap, oz.util.SortProperties exportMap, OZUDEPostTarget target, org.apache.log4j.Category cat) throws
OZSchedulerUDEException

If failed execution of the task, and then run the post-processing program to be executed next.

Parameters:

configMap - Config Properties

exportMap - Export Properties

target - Target

cat - Execution log

OZ Repository API

OZ Repository API provides [classes](#) and [interfaces](#).

Class

OZ Repository API provides the following class:

- [RepositoryEX](#)

RepositoryEX

This class defines a task holiday group.

Constructor Detail

RepositoryEx

`public RepositoryEx(String url, String id, String pw, boolean useUSL)` throws

`OZCPException`

Performs repository functions such as group/user management function, category/item authority setting function, and item history management function.

Parameters:

url - The URL of OZ Server

id - The user ID

pw - The user password

useUSL - Whether to use the USL or not. Can be omitted. If omitted, false is applied.

Method Detail

The RepositoryEX class provides the following methods:

- [Configuring the repository](#)
- [Creating groups and users](#)
- [Editing groups and users](#)
- [Deleting groups and users](#)
- [Getting groups and users](#)
- [Setting up group and user permissions](#)
- [Getting group and user permissions](#)
- [Creating categories and items](#)
- [Editing categories and items](#)
- [Deleting categories and items](#)
- [Getting categories and items](#)
- [Setting up category and item permissions](#)
- [Getting category and item permissions](#)
- [Using item version control](#)

Configuring the repository

To configure the repository using the RepositoryEX class, use the method below:

Method Detail

getRepositoryConfig

public SortProperties getRepositoryConfig() throws OZCPEException

Gets the Repository configurations.

setRepositoryConfig

public void setRepositoryConfig(SortProperties prop) throws OZCPEException

Modifies the Repository configurations.

Parameters:

SortProperties - Configurations to modify

reloadRepository

public void reloadRepository() throws OZCPEException

Reloads the Repository.

Creating groups and users

To create groups and users using the RepositoryEX class, use the method below:

Method Detail

createGroup

public String createGroup(String gName, String pGroupID, String desc) throws
OZCPEException

Creates a new group and returns its ID.

Parameters:

gName - Group name

pGroupID - Parent group ID

desc - Group description

createUser

public String createUser(String userName, String password, String desc) throws
OZCPEException

Creates a new user and returns its ID.

Parameters:

userName - User name

password - User password

desc - User description

createUserInGroup

public String createUserInGroup(String userName, String password, String groupID, String desc) throws OZCPEException

Creates a new user in the designated group and returns the user ID.

Parameters:

userName - User name

password - User password

groupID - Group ID

desc - User description

Editing groups and users

To edit groups and users using the RepositoryEX class, use the method below:

Method Detail

modifyGroupName

public String modifyGroupName(String groupID, String gName) throws OZCPEException

Modifies the name of the group corresponding to the designated user ID.

Parameters:

groupID - Group ID

gName - Group name

modifyGroupDesc

public boolean modifyGroupDesc(String groupID, String desc) throws OZCPEException

Returns the group description corresponding to the designated group ID.

Parameters:

groupID - Group ID

desc - Group description

modifyUserName

public String modifyUserName(String userID, String userName) throws

OZCPEException

Modifies the user name corresponding to the designated user ID.

Parameters:

userID - User ID

userName - User name

modifyUserPassword

public boolean modifyUserPassword(String userID, String old_password, String new_password) throws OZCPEException

Modifies the password of the user corresponding to the designated user ID.

Parameters:

userID - User ID

old_password - Old password

new_password - New password

modifyUserDesc

public boolean modifyUserDesc(String userID, String desc) throws OZCPEException

Modifies the user description corresponding to the designated user ID.

Parameters:

userID - User ID

desc - User description

transferGroup

public boolean transferGroup(String groupID, String target_GroupID) throws OZCPEException

Transfers the group to another group and return success or failure.

Parameters:

groupID - Group ID to transfer

target_groupID - Target group ID

transferUser

public boolean transferUser(String userID, String target_GroupID) throws

OZCPEException

Transfers the user to another group and return success or failure.

Parameters:

userID - User ID to transfer

target_groupID - Target group ID

Deleting groups and users

To delete groups and users using the RepositoryEX class, use the method below:

Method Detail

deleteGroup

public boolean deleteGroup(String groupID) throws OZCPEException

Deletes the group corresponding to the designated group ID.

Parameters:

groupID - Group ID

deleteUser

public boolean deleteUser(String userID) throws OZCPEException

Deletes the information of all users corresponding to the designated user ID.

Parameters:

userID - User ID

Getting groups and users

To get groups and users using the RepositoryEX class, use the method below:

Method Detail

getGroupInfo

public IOZGroupInfo getGroupInfo(String groupID) throws OZCPEException

Gets the information of the group corresponding to the designated group ID.

Parameters:

groupID - Group ID

getGroupInfoListInGroup

public IOZGroupInfoList getGroupInfoListInGroup(String groupID, boolean isRecursive) throws OZCPEException

Gets the group information that was added to the group. (Not supported in NONE type repository)

Parameters:

groupID - Group ID

isRecursive - Whether to include sub-group

getSubGroupInfoList

public IOZGroupInfoList getSubGroupInfoList(String groupID) throws OZCPEException

Gets the sub-group information of the designated group.

Parameters:

groupID - Group ID

getParentGroupInfo

public IOZGroupInfo getParentGroupInfo(String groupID) throws OZCPEException

Gets the information of the parent group of the designated group.

Parameters:

groupID - Group ID

getUserInfo

public IOZUserInfo getUserInfo(String userID) throws OZCPEException

Gets the information of the user corresponding to the designated user ID.

Parameters:

userID - User ID

getUserInfoList

public IOZUserInfoList getUserInfoList() throws OZCPEException

Gets the information of all users.

getUserInfoListInGroup

public IOZUserInfoList getUserInfoListInGroup(String groupID) throws OZCPEException

Gets the information of all users registered in the designated group ID.

Parameters:

groupID - Group ID

getUserInfoListInGroup

public IOZUserInfoList getUserInfoListInGroup(String groupID, boolean isRecursive)

throws OZCPEException

Gets the user information that was added to the group. (Not supported in NONE type repository)

Parameters:

groupID - Group ID

isRecursive - Whether to include sub-group user

checkUserPassword

public boolean checkUserPassword(String userID, String password) throws

OZCPEException

Checks whether the user password is correct.

Parameters:

userID - User ID

password - User password

getGroupIdOfUser

public String getGroupIdOfUser(String userID) throws OZCPEException

Gets the information of the group where the designated user belongs.

Parameters:

userID - User ID

Setting up group and user permissions

To set group and user permissions using the RepositoryEX class, use the method below:

Method Detail

addGroupAdmin

public boolean addGroupAdmin(Object sessionID, String userID, String groupID)

throws OZRepositoryException

Adds group administrator to the designated group.

Parameters:

userID - User ID

groupID - Group ID

removeGroupAdmin

public boolean removeGroupAdmin(String userID, String groupID) throws

OZCPEException

Cancel group administrator of the designated group.

Parameters:

userID - User ID

groupID - Group ID

addAdmin

public boolean addAdmin(String uID) throws OZCPEException

Adds administrator to the designated user ID. (Not supported in NONE type repository)

Parameters:

uID - User ID

removeAdmin

public boolean removeAdmin(String uID) throws OZCPEException

Cancel administrator of the designated user ID. (Not supported in NONE type repository)

Parameters:

uID - User ID

getUserAdminListInGroup

public IOZUserInfoList getUserAdminListInGroup(String groupID) throws
OZCPEException

Gets the group administrator information of the designated group.

Parameters:

groupID - Group ID

EnableLogin

public void EnableLogin(String userID)

Sets the enable the login of the user corresponding to the designated user ID.

Parameters:

userID - User ID

DisableLogin

public void DisableLogin(String userID)

Set to disable the login of the user corresponding to the designated user ID.

Parameters:

userID - User ID

enableUserLogin

public void enableUserLogin(String userID) throws OZCPEException

Set to enable the login of the user corresponding to the designated user ID.

Parameters:

userID - User ID

disableUserLogin

public void disableUserLogin(String userID) throws OZCPEException

Set to disable the login of the user corresponding to the designated user ID.

Parameters:

userID - User ID

isUserGroupAdmin

public boolean isUserGroupAdmin(String userID, String groupID) throws
OZCPEException

Checks that the user corresponding to the designated user ID is the administrator of the group.

Parameters:

userID - User ID

groupID - Group ID

isCheckAdmin

public boolean isCheckAdmin(String userID) throws OZCPEException

Checks that the user corresponding to the designated user ID is the administrator of the Repository.

Parameters:

userID - User ID

isLoginEnabled

public boolean isLoginEnabled(String userID) throws OZCPEException

Gets whether the login of the user corresponding to the designated user ID.

Parameters:

userID - User ID

Getting group and user permissions

To get group and user permissions using the RepositoryEX class, use the method below:

Method Detail

getGroupAuthToCategory

public int getGroupAuthToCategory(String categoryID, String groupID) throws
OZCPEException

Gets the permission of the given group for the given category.

Parameters:

categoryID - Category ID

groupID - Group ID

getGroupListAuthToCategory

public IOZGroupInfoList getGroupListAuthToCategory(String categoryID, int perm)
throws OZCPEException

Gets the information of all users with permission level of or higher than Perm for the designated category ID.

Parameters:

categoryID - Category ID

perm - Permission information

getGroupAuthToItem

public int getGroupAuthToItem(String groupID, String itemID) throws OZCPEException

Gets the permission of the given group ID for the given item ID.

Parameters:

groupID - Group ID

itemID - Item ID

getGroupListAuthToItem

public IOZGroupInfoList getGroupListAuthToItem(String itemID, int perm) throws
OZCPEException

Gets the information of all groups with permission level of or higher than Perm for the item ID.

Parameters:

itemID - Item ID

perm - Permission information

getUserAuthToCategory

public int getUserAuthToCategory(String userID, String categoryID) throws
OZCPEException

Gets the permission of the given user ID for the given category ID.

Parameters:

userID - User ID

categoryID - Category ID

getUserListAuthToCategory

public IOZUserInfoList getUserListAuthToCategory(String categoryID, int perm)
throws OZCPEException

Gets the list of all users with permission level of or higher than Perm for the designated category ID.

Parameters:

categoryID - Category ID

perm - Permission information

getUserAuthToItem

`public int getUserAuthToItem(String userID, String itemID) throws OZCPEException`

Gets the user permission for the given item ID

Parameters:

userID - User ID

itemID - Item ID

perm - Permission information

getUserListAuthToItem

`public IOZUserInfoList getUserListAuthToItem(String itemID, int perm) throws`

`OZCPEException`

Gets the list of all items for which the user's permission level is or higher than Perm.

Parameters:

itemID - Item ID

perm - Permission information

Creating categories and items

To create categories and items using the RepositoryEX class, use the method below:

Method Detail

createCategory

`public String[] createCategory(String[] categoryNames, String[] pCategoryIDs, String comment, int[] errorCodes, String[] errorMsg) throws OZCPEException`

Creates a new category and returns its ID.

Parameters:

categoryName - Category name

pCategoryIDs - Parent category ID

comment - Comment

errorCode - Error code

errorMsg - Error message

createItem

```
public String[] createItem(String[] itemNames, String[] itemDescs, String[] categoryIDs,  
boolean[] isComp, InputStream[] itemStreams, String comment, int[] errorCodes,  
String[] errorMsg) throws OZCPEException
```

Creates an item and returns item ID.

Parameters:

itemNames - Item Name

itemDescs - Item description

categoryIDs - Category ID

isComp - Whether to compress the item

itemStreams - Input stream

comment - Comment

errorCodes - Error code

errorMsg - Error message

createItem

```
public String[] createItem(String[] itemNames, String[] itemDescs, String[] categoryIDs,  
boolean[] isComp, InputStream[] itemStreams, String comment, long[] createdTimes,  
int[] errorCodes, String[] errorMsg) throws OZCPEException
```

Creates an item by specifying the time, and returns item ID.(Not supported in NONE type repository)

Parameters:

itemNames - Item Name

itemDescs - Item description

categoryIDs - Category ID

isComp - Whether to compress the item

itemStreams - Input stream

comment - Comment

createdTimes - Time the item was created. If the value is set to 0 or negative, it is applied to the current time.

errorCodes - Error code

errorMsg - Error message

Editing categories and items

To edit categories and items using the RepositoryEX class, use the method below:

Method Detail

modifyCategoryName

public String modifyCategoryName(String categoryID, String new_CategoryName, String comment) throws OZCPEException

Modifies the name of the category corresponding to the designated category ID.

Parameters:

categoryID - Category ID

new_categoryName - Category name

comment - Comment

modifyCategoryDesc

public boolean modifyCategoryDesc(String categoryID, String categoryDesc) throws OZCPEException

Change the category description. (Not supported in NONE type repository)

Parameters:

categoryID - Category ID

categoryDesc - Category description

modifyItemName

```
public String modifyItemName(String itemID, String itemName, String comment)
```

throws OZCPEException

Modifies an item name and returns it ID.

Parameters:

itemID - Item ID

new_itemName - Item name

comment - Comment

modifyItemDesc

```
public boolean modifyItemDesc(String itemID, String iDesc) throws OZCPEException
```

Modifies the description of the item corresponding to the item ID.

Parameters:

itemID - Item ID

desc - Item description

modifyItemDatetime

```
public boolean modifyItemDatetime(String itemID, long datetime) throws
```

OZCPEException

Modifies the creation time of the item.(Not supported in NONE type repository)

Parameters:

itemID - Item ID

datetime - Time the item was changed. If the value is set to 0 or negative, it is applied to the current time.

transferCategory

```
public boolean transferCategory(String categoryID, String target_CategoryID) throws
```

OZCPEException

Transfers the category to another category and return success or failure.

Parameters:

categoryID - Category ID

target_CategoryID - Target Category ID

transferItem

public boolean transferItem(String[] itemIDs, String target_CategoryID) throws
OZCPEException

Transfers the item to another category and return success or failure.

Parameters:

itemIDs - Item ID

target_CategoryID - Target category ID

encryptFile

public Vector encryptFile(String[] itemIDs) throws OZCPEException

Encrypts the OZR files and returns a list of files that failed to encrypt.

Parameters:

itemIDs - Item ID

encryptFile

public Vector encryptFile(String categoryID, boolean isRecursive) throws

OZCPEException

Encrypts the OZR files and returns a list of files that failed to encrypt.

Parameters:

categoryID - Category ID

isRecursive - Whether to include sub-categories

decryptFile

public Vector decryptFile(String[] itemIDs) throws OZCPEException

Decrypts the OZR files and returns a list of files that failed to decrypt.

Parameters:

itemIDs - Item ID

decryptFile

`public Vector decryptFile(String categoryID, boolean isRecursive) throws
OZCPEException`

Decrypts the OZR files and returns a list of files that failed to decrypt.

Parameters:

categoryID - Category ID

isRecursive - Whether to include sub-categories

setUserDefinedResourceSync

`public int setUserDefinedResourceSync(String alias, String[] itemIDs, String comment,
String[] errorMsg) throws OZCPEException`

Synchronize OZR files with the user defined resource and returns the result.(1: complete success, 2: partial success, 3: fail)

Parameters:

alias - Alias defined in ozudr.properties file

itemIDs - Full path of the report

Comment - comments

errorMsg - Error message

Deleting categories and items

To delete categories and items using the RepositoryEX class, use the method below:

Method Detail

deleteCategory

`public boolean[] deleteCategory(String[] categoryIDs, boolean[] isDestroys, String
comment, int[] errorCodes, String[] errorMsg) throws OZCPEException`

Deletes the category corresponding to the designated category ID.

Parameters:

categoryIDs - Category ID

isDestroys - Whether to permanently delete the category

comment - Comment

errorCode - Error code

errorMsg - Error message

unDeleteCategory

```
public boolean[] unDeleteCategory(String[] categoryIDs, String comment, int[]
```

```
errorCodes, String[] errorMsg) throws OZCPEException
```

Restores a deleted category.

Parameters:

categoryIDs - Category ID

comment - Comment

errorCode - Error code

errorMsg - Error message

deleteItem

```
public boolean[] deleteItem(String[] itemIDs, boolean[] isDestorys, String comment,
```

```
int[] errorCodes, String[] errorMsg) throws OZCPEException
```

Deletes the item from the Repository.

Parameters:

itemIDs - Item ID

isDestroys - Whether to permanently delete the item

comment - Comment

errCodes - Error code

errMsgs - Error message

unDeleteItem

```
public boolean[] unDeleteItem(String[] itemIDs, String comment, int[] errorCodes,
```

```
String[] errorMsg) throws OZCPEException
```

Restores the deleted item.

Parameters:

itemIDs - Item ID

comment - Comment

errCodes - Error code

errMsgs - Error message

Getting categories and items

To get categories and items using the RepositoryEX class, use the method below:

Method Detail

getCategoryInfo

public IOZCategoryInfo getCategoryInfo(String categoryID) throws OZCPEException

Gets the information of the designated category.

Parameters:

categoryID - Category ID

getCategoryListInCategory

public IOZCategoryInfoList getCategoryListInCategory(String categoryID) throws

OZCPEException

Gets the information of all sub categories of the designated category.

Parameters:

categoryID - Category ID

getCategoryIdOfItem

public String getCategoryIdOfItem(String itemID) throws OZCPEException

Returns the ID of the category where the item exist.

Parameters:

itemID - Item ID

getDeletedItemListInCategory

public IOZItemInfoList getDeletedItemListInCategory(String categoryID) throws
OZCPEException

Gets the information of deleted items in the designated category.

Parameters:

categoryID - Category ID

getItems

public InputStream[] getItems(String[] itemIDs, long[] modifiedTimes, boolean[]
isComp, boolean[] isObjStream, String[] categoryIDs, int[] errorCodes, String[] errorMsg)
throws OZCPEException

Gets the item corresponding to the item ID.

Parameters:

itemIDs - Item ID

modifiedTimes - Last update time of the item

isComp - Whether to compress it

isObjStream - Whether the ODI object stream is necessary

errCodes - Error code

errMsgs - Error message

getItemInfo

public IOZItemInfo getItemInfo(String itemID) throws OZCPEException

Gets the Information of the item corresponding to the item ID.

Parameters:

itemID - Item ID

getItemInfoListInCategory

public IOZItemInfoList getItemInfoListInCategory(String categoryID, boolean
isRecursive) throws OZCPEException

Gets the information of the item.(Not supported in NONE type repository)

Parameters:

categoryID - Category ID

isRecursive - Whether to include sub-categories

getItemsUnCondition

public InputStream[] getItemsUnCondition(String[] itemIDs, boolean[] isComp, boolean[] isObjStream, String[] categoryIDs, int[] errorCodes, String[] errorMsg) throws OZCPEException

Gets the itemID without conditions.

Parameters:

itemIDs - Item ID

isComp - Whether to compress it

isObjStream - Whether the ODI object stream is necessary

errCodes - Error code

errMsgs - Error message

getItemCountInCategory

public int getItemCountInCategory(String categoryID) throws OZCPEException

Gets the number of all items in the designated category.

Parameters:

categoryID - Category ID

getItemListInCategory

public IOZItemInfoList getItemListInCategory(String categoryID) throws OZCPEException

Gets the information of all items in the designated category.

Parameters:

categoryID - Category ID

hasTheItem

public boolean hasTheItem(String itemID) throws OZCPEException

Gets the Information of the item corresponding to the item ID.

Parameters:

itemID - Item ID

Setting up category and item permissions

To set category and item permissions using the RepositoryEX class, use the method below:

Method Detail

modifyCategoryGroupAuth

public boolean modifyCategoryGroupAuth(String categoryID, String groupID, int perm)

throws OZCPEException

Modify permission of the given category

Parameters:

categoryID - Category ID

groupID - Group ID

perm - Permission information

modifyCategoryUserAuth

public boolean modifyCategoryUserAuth(String uID, String cID, int perm) throws

OZCPEException

Modify the permission of the given user ID for the given category ID.

Parameters:

userID - User ID

categoryID - Category ID

perm - Permission information

modifyItemGroupAuth

public boolean modifyItemGroupAuth(String groupID, String itemID, int perm) throws OZCPEException

Modify the permission of the given group ID for the given item ID.

Parameters:

groupID - Group ID

itemID - Item ID

perm - Permission information

modifyItemUserAuth

public boolean modifyItemUserAuth(String userID, String itemID, int perm) throws OZCPEException

Modify the user permission for the given item ID.

Parameters:

userID - User ID

itemID - Item ID

perm - Permission information

Getting category and item permissions

To get category and item permissions using the RepositoryEX class, use the method below:

Method Detail

getCategoryListAuthToGroupInCategory

public IOZCategoryInfoList getCategoryListAuthToGroupInCategory(String groupID, String categoryID, int perm) throws OZCPEException

Gets the information of all categories with permission level of or higher than Perm for the group corresponding to the designated group ID.

Parameters:

groupID - Group ID

categoryID - Category ID

perm - Permission information

getCategoryListAuthToUserInCategory

public IOZCategoryInfoList getCategoryListAuthToUserInCategory(String userID, String categoryID, int perm) throws OZCPEException

Gets the list of all categories for which the designated user's permission level is or higher than Perm among the sub categories in the designated category.

Parameters:

userID - User ID

categoryID - Category ID

perm - Permission information

getItemListAuthToGroup

public IOZItemInfoList getItemListAuthToGroup(String groupID, int perm) throws OZCPEException

Gets the list of all items with permission level of or higher than Perm for the group corresponding to the designated group ID.

Parameters:

groupID - Group ID

perm - Permission information

getItemListAuthToGroupInCategory

public IOZItemInfoList getItemListAuthToGroupInCategory(String groupID, String categoryID, int perm) throws OZCPEException

Gets the information of all items with permission level of or higher than Perm for the designated category ID.

Parameters:

groupID - Group ID

categoryID - Category ID

perm - Permission information

getItemListAuthToUser

public IOZItemInfoList getItemListAuthToUser(String userID, int perm) throws

OZCPEException

Gets the list of all items for which the user's permission level is or higher than Perm among the items in the designated category.

Parameters:

userID - User ID

perm - Permission information

getItemListAuthToUserInCategory

public IOZItemInfoList getItemListAuthToUserInCategory(Object sessionID, String

userID, String categoryID, int perm) throws OZRepositoryException

Gets the list of all items for which the user has permission level of or higher than Perm among the items in the designated category.

Parameters:

userID - User ID

categoryID - Category ID

perm - Permission information

Using item version control

To use item version control function using the RepositoryEX class, use the method below:

Method Detail

checkOutItem

public InputStream[] checkOutItem(String itemIDs[], String[] localCheckOutFolders, long[] localFileTimes, boolean[] isComp, int[] errorCodes, String[] errorMsg) throws OZCPEException

Check out the item to a folder.

Parameters:

itemIDs - Item ID

localCheckOutFolders - Local folder name

localFileTimes - Local file time

isComp - Whether to compress it

errorCodes - Error code

errorMsg - Error message

checkOutItem

public InputStream[] checkOutItem(String itemIDs[], String[] localCheckOutFolders, long[] localFileTimes, boolean[] isComp, String[] checkOutCmts, int[] errorCodes, String[] errorMsg) throws OZCPEException

Check out the item to a folder.

Parameters:

itemIDs - Item ID

localCheckOutFolders - Local folder name

localFileTimes - Local file time

isComp - Whether to compress it

checkOutCmts - Comment

errorCodes - Error code

errorMsg - Error message

checkInItem

```
public boolean[] checkInItem(String[] itemIDs, boolean[] isComp, InputStream[]  
iStreams, String comment, boolean[] keepCheckOut, int[] errorCodes, String[] errorMsg)  
throws OZCPEException
```

Check in the item.(Not supported in NONE type repository)

Parameters:

itemIDs - Item ID

isComp - Whether to compress it

iStreams - Input stream of the item

comment - Comment

keepCheckOut - Whether to keep the check out status

errorCodes - Error code

errorMsg - Error message

checkInItem

```
public boolean[] checkInItem(String[] itemIDs, boolean[] isComp, InputStream[]  
itemStreams, String comment, boolean[] keepCheckOut, long[] datetimes, int[]  
errorCodes, String[] errorMsg) throws OZCPEException
```

Check in the item by specifying the time.(Not supported in NONE type repository)

Parameters:

itemIDs - Item ID

isComp - Whether to compress it

itemStreams - Input stream of the item

comment - Comment

keepCheckOut - Whether to keep the check out status

datetimes - Time the item was checked in. If the value is set to 0 or negative, it is applied to the current time.

errorCodes - Error code

errorMsg - Error message

undoCheckOutItem

`public InputStream[] undoCheckOutItem(String[] itemIDs, boolean[] isReplaces,
boolean[] isComp, int[] errorCodes, String[] errorMsg) throws OZCPEException`
Undo check out the item.

Parameters:

itemIDs - Item ID

isReplaces - Whether to get the items in the local working folder

isComp - Whether to compress it

errCodes - Error code

errMsgs - Error message

isCheckOutUser

`public boolean[] isCheckOutUser(String[] itemIDs) throws OZCPEException`
Checks that the current user checked out the item.

Parameters:

itemIDs - Item ID

getItemByVersion

`public InputStream getItemByVersion(String itemID, int version, boolean isComp)`
throws OZCPEException
Gets the item of the designated version among the items corresponding to the item ID.

Parameters:

itemID Item ID

version - Item version

isComp - Whether to compress it

getHistoryItemList

`public IOZHistoryInfoList getHistoryItemList(String itemID) throws OZCPEException`
Gets the history information of the item.

Parameters:

itemID - Item ID

getHistoryItemListByDatetime

public IOZHistoryInfoList getHistoryItemListByDatetime(String itemID) throws
OZCPEException

Gets the history information of the item the order date.(Not supported in NONE type repository)

Parameters:

itemID - Item ID

getHistoryItemByDatetime

public InputStream getHistoryItemByDatetime(String itemID, long datetime, boolean
isComp, boolean isObjStream) throws OZCPEException

Gets Most Recent Items specified time.(Not supported in NONE type repository)

Parameters:

itemID - Item ID

datetime - Time the item was checked in

isComp - Whether to compress it

isObjStream - Whether the obj item is objstream

getDeleteHistoryItemInfo

public IOZHistoryInfoList getDeleteHistoryItemInfo(String itemID) throws
OZCPEException

Gets the information of a deleted item.

Parameters:

itemID - Item ID

modifyHistoryItemComment

public boolean modifyHistoryItemComment(String itemID, int itemVersion, String
newComment) throws OZCPEException

Modifies the comment of the specified version.

Parameters:

itemID - Item ID

itemversion - Item version

newComment - Comment

modifyHistoryItemDatetime

public boolean modifyHistoryItemDatetime(String itemID, int itemVersion, long datetime) throws OZCPEException

Modifies the item time of the specified version.(Not supported in NONE type repository)

Parameters:

itemID - Item ID

itemVersion - Item version

datetime - Time the item was checked in. If the value is set to 0 or negative, it is applied to the current time.

removeHistoryItem

public boolean removeHistoryItem(String itemID, int itemVersion) throws OZCPEException

Gets the item's specific version of history.

Parameters:

itemID - Item ID

itemversion - Item version

rollBackItem

public boolean rollBackItem(String itemID, int itemVersion, String comment) throws OZCPEException

Rolls back the item to the designated version.

Parameters:

itemID - Item ID

itemVersion - Item version

comment - Comment

Interface

OZ Repository API provides the following Interfaces:

- [IOZCategoryInfo](#)
- [IOZCategoryInfoList](#)
- [IOZGroupInfo](#)
- [IOZGroupInfoList](#)
- [IOZHistoryInfo](#)
- [IOZHistoryInfoList](#)
- [IOZItemInfo](#)
- [IOZLoginInfo](#)
- [IOZRepository](#)
- [IOZRepositoryAuthGroupCategory](#)
- [IOZRepositoryAuthGroupItem](#)
- [IOZRepositoryAuthUserCategory](#)
- [IOZRepositoryAuthUserItem](#)
- [IOZRepositoryCategory](#)
- [IOZRepositoryExternalLogin](#)
- [IOZRepositoryGroup](#)
- [IOZRepositoryItem](#)
- [IOZRepositoryItemHistory](#)
- [IOZRepositoryMultiLoginUser](#)
- [IOZRepositoryUser](#)
- [IOZUserInfo](#)
- [IOZUserInfoList](#)

IOZCategoryInfo

This interface provides category information.

Method Detail

getCategoryID

```
public String getCategoryID()
```

Gets the ID of the current category.

getCategoryName

```
public String getCategoryName()
```

Gets the name of the current category.

getParentCategoryID

```
public String getParentCategoryID()
```

Gets the parent category ID of the current category.

getParentCategoryName

```
public String getParentCategoryName()
```

Gets the parent category name of the current category.

getComment

```
public String getComment()
```

Gets the comment of the current category.

getDesc

```
public String getDesc()
```

Gets the description of the current category.

getUpdateTime

```
public long getUpdateTime()
```

Gets the update time of the current category.

getCreateUserID

```
public String getCreateUserID()
```

Gets the user ID that created the current category.

getCreateUserName

```
public String getCreateUserName()
```

Gets the user name that created the current category.

getPerm

```
public int getPerm()
```

Gets the permission information of the current category.

IOZCategoryInfoList

This interface provides category information.

Method Detail

getCategoryInfo

```
public IOZCategoryInfo getCategoryInfo(int index)
```

Gets the category information corresponding to the index.

Parameters:

index - Index

getSize

```
public String getSize()
```

Gets the number of the category lists.

getCategoryInfos

```
public IOZCategoryInfo[] getCategoryInfos()
```

Gets the category information as array.

getItemInfo

```
public IOZItemInfo getItemInfo(int index)
```

Gets the information of the item corresponding to the index.

Parameters:

index - Index

getSize

```
public String getSize()
```

Gets the number of the item lists.

getItemInfos

```
public IOZItemInfo[] getItemInfos()
```

Gets the item information as array.

IOZGroupInfo

This interface provides group information.

Method Detail

isGroupAdmin

```
public boolean isGroupAdmin(String userID)
```

Gets whether the designated user ID is the administrator of the group.

Parameters:

userID - User ID

getGroupAdminList

```
public HashMap getGroupAdminList()
```

Gets the GroupAdminList of the group.

getGroupID

```
public String getGroupID()
```

Gets the ID of the group.

getGroupName

```
public String getGroupName()
```

Gets the name of the group.

getParentGroupID

```
public String getParentGroupID()
```

Gets the parent group ID of the group.

getParentGroupName

```
public String getParentGroupName()
```

Gets the parent group name of the group.

getDesc

```
public String getDesc()
```

Gets the description of the group.

getUpdateTime

```
public long getUpdateTime()
```

Gets the update time of the group.

IOZGroupInfoList

This interface provides group information.

Method Detail

getGroupInfo

```
public IOZGroupInfo getGroupInfo(int index)
```

Gets the group information corresponding to the index.

Parameters:

index - Index

getSize

```
public String getSize()
```

Gets the number of group lists.

getGroupInfos

```
public IOZGroupInfo[] getGroupInfos()
```

Gets the group information as array.

IOZHistoryInfo

This interface provides information on the item's change history.

Method Detail

getItemID

```
public String getItemID()
```

Gets an item ID.

getItemName

```
public String getItemName()
```

Gets an item name.

getHistoryItemVersion

```
public int getHistoryItemVersion()
```

Gets the version count of an item.

getHistoryCheckInTime

```
public long getHistoryCheckInTime()
```

Gets the check in time of an item by version.

getHistoryCheckInUser

```
public String getHistoryCheckInUser()
```

Gets the check in user ID of the item by version.

getHistoryCheckInComment

```
public String getHistoryCheckInComment()
```

Gets the check in comment of the item by version.

IOZHistoryInfoList

This interface provides information on the item's change history.

Method Detail

getHistoryInfo

```
public IOZHistoryInfo getHistoryInfo(int index)
```

Gets the history information corresponding to the index.

Parameters:

index - Index

getSize

```
public String getSize()
```

Gets the number of history lists.

getHistoryInfos

```
public IOZHistoryInfo[] getHistoryInfos()
```

Gets the history information as array.

IOZItemInfo

This interface provides item information.

Method Detail

isCheckedOut

```
public boolean isCheckedOut()
```

Gets whether the item is checked out.

isDeletable

```
public boolean isDeletable()
```

Gets whether the item is deleted.

getItemID

```
public String getItemID()
```

Gets the item ID of the item.

getItemName

```
public String getItemName()
```

Gets the item name of the item.

getCategoryID

```
public String getCategoryID()
```

Gets the ID of the category where the item belongs.

getCategoryName

```
public String getCategoryName()
```

Gets the name of the category where the item belongs.

getUpdateTime

```
public long getUpdateTime()
```

Gets the update time of the item.

getDesc

```
public String getDesc()
```

Gets the description of the item.

getComment

```
public String getComment()
```

Gets the comment of the item.

getCreateUserID

```
public String getCreateUserID()
```

Gets the user ID that created the item.

getCreateUserName

```
public String getCreateUserName()
```

Gets the user name that created the item.

getCheckOutUser

```
public String getCheckOutUser()
```

Gets the user name that checked out the item.

getCheckOutLocalPath

```
public String getCheckOutLocalPath()
```

Gets the folder name of the checked-out item.

getPerm

```
public int getPerm()
```

Gets the permission information of the item.

IOZLoginInfo

This interface provides the login information.

Method Detail

getViewerType

```
public int getViewerType()
```

Gets the type of the viewer called by the client.

getMACAddress

```
public String getMACAddress()
```

Gets the MAC Address from the client.

getIPAddress

```
public String getIPAddress()
```

Gets the IP Address from the client.

getHDDSerialNo

```
public String getHDDSerialNo()
```

Gets the HDD Serial number from the client.

getUserID

```
public String getUserID()
```

Gets the user ID that the client logged in.

getUserName

```
public String getUserName()
```

Gets the user name that the client logged in.

getSessionID

```
public String getSessionID()
```

Gets the session ID created when the client logged in.

getClientIP

```
public String getClientIP()
```

Gets the client IP requested by the client.

IOZRepository

This interface provides repository setup functions.

Method Detail

setProperty

```
public void setProperty(SortProperties prop) throws OZRepositoryException
```

Modifies the repository configurations. Values set in the "repository.properties" are allowed to be modified.

Parameters:

prop - Repository configuration property

getRepositoryVersion

```
public int getRepositoryVersion()
```

Defines the Repository version and gets the defined version.

openRepository

```
public void openRepository() throws OZRepositoryException
```

Opens the repository when running the server.

closeRepository

```
public void closeRepository() throws OZRepositoryException
```

Closes the repository when existing the server.

checkRepositoryLogin

```
public Object checkRepositoryLogin(String userName, String password, IOZLoginInfo loginInfo, HttpServletRequest request, HttpServletResponse servlet) throws OZRepositoryException
```

Gets the session information that logged in by calling the corresponding method when calling the client.

Parameters:

userName - Name of the logged in user

password - Password of the currently logged in user

isCallServer - Whether called by the server

loginInfo - Log in information

request - HTTP Servlet Request

servlet - HTTP Servlet

updateSessionState

`public void updateSessionState(Object sessionID, int type) throws`

`OZRepositoryException`

Gets the session information that logged in by calling the corresponding method when calling the client.

Parameters:

sessionID - Session ID

type - Server status

repositoryLogout

`public boolean repositoryLogout(Object sessionID, String userName, IOZLoginInfo`

`loginInfo, HttpServletRequest request, HttpServlet servlet) throws`

`OZRepositoryException`

Log out, or release the user corresponding to the designated user ID and gets the result.

Parameters:

sessionID - Session ID

userName - User name

loginInfo - Log in information (Refer to the corresponding interface for details)

request - HTTP Servlet Request

servlet - HTTP Servlet

getRepositoryCategory

`public IOZRepositoryCategory getRepositoryCategory() throws OZRepositoryException`

Gets the class where the Category Interface is implemented.

getRepositoryItem

`public IOZRepositoryItem getRepositoryItem() throws OZRepositoryException`

Gets the class where the Item Interface is implemented.

getRepositoryItemHistory

`public IOZRepositoryItemHistory getRepositoryItemHistory() throws`

`OZRepositoryException`

Gets the class where the Item History Interface is implemented.

getRepositoryGroup

public IOZRepositoryGroup getRepositoryGroup() throws OZRepositoryException

Gets the class where the Group Interface is implemented.

getRepositoryUser

public IOZRepositoryUser getRepositoryUser() throws OZRepositoryException

Gets the class where the User Interface is implemented.

getRepositoryMultiLoginUser

public IOZRepositoryMultiLoginUser getRepositoryMultiLoginUser() throws
OZRepositoryException

Gets the class where the MultiLogin User Interface is implemented.

getRepositoryAuthGroupCategory

public IOZRepositoryAuthGroupCategory getRepositoryAuthGroupCategory() throws
OZRepositoryException

Gets the class where the AuthGroupCategory Interface.

getRepositoryAuthGroupItem

public IOZRepositoryAuthGroupItem getRepositoryAuthGroupItem() throws
OZRepositoryException

Gets the class where the AuthGroupItem Interface is implemented.

getRepositoryAuthUserCategory

public IOZRepositoryAuthUserCategory getRepositoryAuthUserCategory() throws
OZRepositoryException

Gets the class where the AuthUserCategory Interface is implemented.

getRepositoryAuthUserItem

`public IOZRepositoryAuthUserItem getRepositoryAuthUserItem() throws
OZRepositoryException`
Gets the class where the AuthUserItem Interface is implemented.

IOZRepositoryAuthGroupCategory

This interface provides functions to set category permissions per group.

Method Detail

getAccessTypeAuthGroupCategory

`public int getAccessTypeAuthGroupCategory()`
Gets the methods with access to the AuthGroupCategory Interface as numbers.

getOZRepository

`public IOZRepository getOZRepository() throws OZRepositoryException`
Gets the class where the OZRepository Interface class is implemented.

modifyCategoryGroupAuth

`public boolean modifyCategoryGroupAuth(Object sessionID, String categoryID, String
groupID, int perm) throws OZRepositoryException`
Modifies the Permission information of the designated category and group.

Parameters:

sessionID - Session ID
categoryID - Category ID to change its permission
groupID - Group ID to change its permission
perm - Permission information(1: VIEW, 2: READ, 4: WRITE)

getGroupAuthToCategory

`public int getGroupAuthToCategory(Object sessionID, String categoryID, String groupID) throws OZRepositoryException`

Gets permission of given group for given category.

Parameters:

sessionID - Session ID

categoryID - Category ID to get its permission

groupID - Group ID

getGroupListAuthToCategory

`public IOZGroupInfoList getGroupListAuthToCategory(Object sessionID, String categoryID, int perm) throws OZRepositoryException`

Gets the user information of all users with permission level of or higher than Perm for the designated category ID.

Parameters:

sessionID - Session ID

categoryID - Category ID

perm - Permission information

getItemListAuthToGroupInCategory

`public IOZItemInfoList getItemListAuthToGroupInCategory(Object sessionID, String groupID, String categoryID, int perm) throws OZRepositoryException`

Gets the list of all items in the designated category with permission level of or higher than Perm for the designated group.

Parameters:

sessionID - Session ID

groupID - Group ID

categoryID - Category ID

perm Permission information

getCategoryListAuthToGroupInCategory

`public IOZCategoryInfoList getCategoryListAuthToGroupInCategory(Object sessionID, String groupID, String categoryID, int perm) throws OZRepositoryException`

Gets the list of all categories among the sub categories in the designated category with permission level of or higher than Perm for the designated group.

Parameters:

sessionID - Session ID

groupID - Group ID

categoryID - Category ID

perm - Permission information

IOZRepositoryAuthGroupItem

This interface provides functions to set item permissions per group.

Method Detail

getAccessTypeAuthGroupItem

`public int getAccessTypeAuthGroupItem()`

Gets the methods with access to the AuthGroupItem Interface as numbers.

getOZRepository

`public IOZRepository getOZRepository() throws OZRepositoryException`

Gets the class where the OZRepository Interface is implemented.

modifyItemGroupAuth

`public boolean modifyItemGroupAuth(Object sessionID, String groupID, String itemID, int perm) throws OZRepositoryException`

Modifies the permission information of the designated group ID for the item ID.

Parameters:

sessionID - Session ID

groupID - Group ID

itemID - Item ID

perm - Permission information

getGroupAuthToItem

public int getGroupAuthToItem(Object sessionID, String groupID, String itemID)

throws OZRepositoryException

Gets the permission information of the designated group ID for the item ID.

Parameters:

sessionID - Session ID

groupID - Group ID

itemID - Item ID

getGroupListAuthToItem

public IOZGroupInfoList getGroupListAuthToItem(Object sessionID, String itemID, int perm) throws OZRepositoryException

Gets the information of all groups with permission level of or higher than Perm for the item ID.

Parameters:

sessionID - Session ID

itemID - Item ID

perm - Permission information

getItemListAuthToGroup

public IOZItemInfoList getItemListAuthToGroup(Object sessionID, String groupID, int perm) throws OZRepositoryException

Gets the information of all items with permission level of or higher than Perm for the group corresponding to the designated group ID.

Parameters:

sessionID - Session ID

groupID - Group ID

perm - Permission information

IOZRepositoryAuthUserCategory

This interface provides functions to set category permissions per user.

Method Detail

getAccessTypeAuthUserCategory

public int getAccessTypeAuthUserCategory()

Gets the methods with access to the AuthUserCategory Interface as numbers.

getOZRepository

public IOZRepository getOZRepository() throws OZRepositoryException

Gets the class where the OZRepository Interface is implemented.

modifyCategoryUserAuth

public boolean modifyCategoryUserAuth(Object sessionID, String userID, String categoryID, int perm) throws OZRepositoryException

Modifies the permission information of the designated user ID for the designated category ID.

Parameters:

sessionID - Session ID

userID - User ID

categoryID - Category ID

perm - Permission information

getUserAuthToCategory

```
public int getUserAuthToCategory(Object sessionID, String userID, String categoryID)  
throws OZRepositoryException
```

Gets the permission information of the user ID for the designated category ID.

Parameters:

sessionID - Session ID

userID - User ID

categoryID - Category ID

getUserListAuthToCategory

```
public IOZUserInfoList getUserListAuthToCategory(Object sessionID, String  
categoryID, int perm) throws OZRepositoryException
```

Gets the user information of all users with permission of or higher than Perm for the designated category ID.

Parameters:

sessionID - Session ID

categoryID - Category ID

perm - Permission information

getItemListAuthToUserInCategory

```
public IOZItemInfoList getItemListAuthToUserInCategory(Object sessionID, String  
userID, String categoryID, int perm) throws OZRepositoryException
```

Gets the list of all items in the designated category for which the designated user has permission of or higher than Perm.

Parameters:

sessionID - Session ID

userID - User ID

categoryID - Category ID

perm - Permission information

getCategoryListAuthToUserInCategory

`public IOZCategoryInfoList getCategoryListAuthToUserInCategory(Object sessionID, String userID, String categoryID, int perm) throws OZRepositoryException`

Gets the list of all categories in the sub category of the designated category for which the designated user has permission of or higher than Perm.

Parameters:

sessionID - Session ID

userID - User ID

categoryID - Category ID

perm - Permission information

IOZRepositoryAuthUserItem

This interface provides functions to set item permissions per user.

Method Detail

getAccessTypeAuthUserItem

`public int getAccessTypeAuthUserItem()`

Gets the methods with access to the AuthUserItem Interface as numbers.

getOZRepository

`public IOZRepository getOZRepository() throws OZRepositoryException`

Gets the class where the OZRepository Interface is implemented.

modifyItemUserAuth

`public boolean modifyItemUserAuth(Object sessionID, String userID, String itemID, int perm) throws OZRepositoryException`

Modifies the permission information of the designated user.

Parameters:

sessionID - Session ID

userID - User ID

itemID - Item ID

perm - Permission information

getUserAuthToItem

public int getUserAuthToItem(Object sessionID, String userID, String itemID) throws

OZRepositoryException

Gets the permission information of a user for the item.

Parameters:

sessionID - Session ID

userID - User ID

itemID - Permission information

getUserListAuthToItem

public IOZUserInfoList getUserListAuthToItem(Object sessionID, String itemID, int perm) throws OZRepositoryException

Gets the information of all items for which the AuthToItem is or higher than Perm.

Parameters:

sessionID - Session ID

itemID - Item ID

perm - Permission information

getItemListAuthToUser

public IOZItemInfoList getItemListAuthToUser(Object sessionID, String userID, int perm) throws OZRepositoryException

Gets the information of all items of which the AuthToUser is or higher than Perm.

Parameters:

sessionID - Session ID

userID - Item ID

perm - Permission information

IOZRepositoryCategory

This interface provides functions for setting category.

Method Detail

getAccessTypeCategory

```
public int getAccessTypeCategory()
```

Gets methods accessible to the category.

getOZRepository

```
public IOZRepository getOZRepository() throws OZRepositoryException
```

Gets the class where the OZRepository Interface is implemented.

createItemInCategory

```
public String[] createItemInCategory(Object sessionID, String[] itemNames, String[]  
descs, String[] categoryIDs, InputStream[] item_ins, String comment, int[] errorCode,  
String[] errorMsg) throws OZRepositoryException
```

Creates a new item and returns its ID.

Parameters:

sessionID - Session ID

itemName - ID of the new item

descs - Description of the new item

categoryIDs - Category ID of the new item

item_ins - Input stream of the new item

comment - Comment

errorCode - Error code

errorMsg - Error message

createCategory

public String[] createCategory(Object sessionID, String[] categoryNames, String[] pCategoryIDs, String comment, int[] errorCode, String[] errorMsg) throws OZRepositoryException

Creates a new category and returns its ID.

Parameters:

sessionID - Session ID

categoryName - Name of the new category

pCategoryIDs - Parent category ID

comment - Comment

errorCode - Error code

errorMsg - Error message

modifyCategoryName

public String modifyCategoryName(Object sessionID, String categoryID, String new_CategoryName, String comment) throws OZRepositoryException

Modifies the name of the category corresponding to the designated category ID.

Parameters:

sessionID - Session ID

categoryID - ID of the category

new_categoryName - New category name

comment - Comment

deleteCategory

public boolean[] deleteCategory(Object sessionID, String[] categoryIDs, boolean[] isDestroys, String comment, int[] errorCode, String[] errorMsg) throws OZRepositoryException

Gets the category corresponding to the designated category ID.

Parameters:

sessionID - Session ID

categoryIDs - ID of the category to delete
isDestroys - Whether to permanently delete the category
comment - Comment
errorCode - Error code
errorMsg - Error message

unDeleteCategory

public boolean[] unDeleteCategory(Object sessionID, String[] categoryIDs, String comment, int[] errorCode, String[] errorMsg) throws OZRepositoryException
Rolls back a deleted category and gets the result.

Parameters:

sessionID - Session ID
categoryIDs - ID of the category to roll back
comment - Comment
errorCode - Error code
errorMsg - Error message

hasTheItemInCategory

public boolean hasTheItemInCategory(Object sessionID, String itemID) throws OZRepositoryException
Gets whether a specific item exists in the corresponding category.

Parameters:

sessionID - Session ID
itemID - Item ID

getItemCountInCategory

public int getItemCountInCategory(Object sessionID, String categoryID) throws OZRepositoryException
Gets the count of all items belonging to the designated category.

Parameters:

sessionID - Session ID

categoryID - Category ID from which to get the number of items

getItemListInCategory

public IOZItemInfoList getItemListInCategory(Object sessionID, String categoryID)

throws OZRepositoryException

Gets the information of all items belonging to the designated category.

Parameters:

sessionID - Session ID

categoryID - ID of the category from which the item information will be returned

getCategoryIdOfItem

public String getCategoryIdOfItem(Object sessionID, String itemID) throws

OZRepositoryException

Returns the ID of the category where the item exists.

Parameters:

sessionID - Session ID

itemID - ID of the item from which the category ID will be returned

getCategoryInfo

public IOZCategoryInfo getCategoryInfo(Object sessionID, String categoryID) throws

OZRepositoryException

Gets the information of the designated category.

Parameters:

sessionID - Session ID

categoryID - Category ID from which to get information

getDeletedItemListInCategory

public IOZItemInfoList getDeletedItemListInCategory(Object sessionID, String

categoryID) throws OZRepositoryException

Gets the information of deleted items in the designated category.

Parameters:

sessionID - Session ID

categoryID - Category ID from which to get information of deleted items

transferItem

public boolean transferItem(Object sessionID, String[] itemIDs, String target_CategoryID) throws OZRepositoryException

Transfers the category of the item.

Parameters:

sessionID - Session ID

itemIDs - Item ID to move its category

target_CategoryID - ID of the category to transfer

transferCategory

public boolean transferCategory(Object sessionID, String categoryID, String target_CategoryID) throws OZRepositoryException

Transfers the designated category to another category.

Parameters:

sessionID - Session ID

categoryID - ID of the source category from which to transfer

target_CategoryID - ID of the target category to which to transfer

IOZRepositoryExternalLogin

This interface provides methods to log in with a user ID created using an external API.

Method Detail

createUser

`public String createUser(com.forcs.log4oz.OZLog log, String id, String pwd) throws
OZRepositoryException`

Creates a user ID using an external API.

Parameters:

log - Log

id - User ID

pwd - User password

login

`public String login(com.forcs.log4oz.OZLog log, String id, String pwd) throws
OZRepositoryException`

Log in with the user ID created using an external API.

Parameters:

log - Log

id - User ID

pwd - User password

IOZRepositoryGroup

This interface provides functions for setting group.

Method Detail

getAccessTypeGroup

`public int getAccessTypeGroup()`

Gets the methods with access to the Group Interface as numbers.

getOZRepository

`public IOZRepository getOZRepository() throws OZRepositoryException`

Gets the class where the OZRepository Interface is implemented.

createGroup

public String createGroup(Object sessionID, String gName, String pGroupID, String desc) throws OZRepositoryException

Creates a new group and returns it ID.

Parameters:

sessionID - Session ID

gName - New group name to create

pGroupID - Parent group ID of the new group

desc - Description of the new group

modifyGroupName

public String modifyGroupName(Object sessionID, String groupID, String gName)
throws OZRepositoryException

Modifies the name of the group corresponding to the designated group ID and returns the modified group ID.

Parameters:

sessionID - Session ID

groupID - ID of the group of which the name will be modified

gName - Group name

modifyGroupDesc

public boolean modifyGroupDesc(Object sessionID, String groupID, String desc) throws OZRepositoryException

Modifies the description of the group corresponding to the designated group ID.

Parameters:

sessionID - Session ID

groupID - ID of the group of which the description will be modified

desc - Description of the group

deleteGroup

public boolean deleteGroup(Object sessionID, String groupID) throws

OZRepositoryException

Deletes the group corresponding to the designated group ID.

Parameters:

sessionID - Session ID

groupID - ID of the group to delete

createUserInGroup

public String createUserInGroup(Object sessionID, String userName, String password,
String groupID, String desc) throws OZRepositoryException

Creates a new user ID in the designated group and returns the newly created user ID.

Parameters:

sessionID - Session ID

userName - User name

password - Password

groupID - Group ID

desc - User description

getUserInfoListInGroup

public IOZUserInfoList getUserInfoListInGroup(Object sessionID, String groupID)

throws OZRepositoryException

Gets the information of all users registered in the designated group ID.

Parameters:

sessionID - Session ID

groupID - Group ID to get its user information

getGroupInfo

public IOZGroupInfo getGroupInfo(Object sessionID, String groupID) throws

OZRepositoryException

Gets the information of the group corresponding to the designated group ID.

Parameters:

sessionID - Session ID

groupID - Group ID

getSubGroupInfoList

public IOZGroupInfoList getSubGroupInfoList(Object sessionID, String groupID) throws
OZRepositoryException

Gets the information of the sub group of the designated group.

Parameters:

sessionID - Session ID

groupID - Group ID to get its subgroup information

getParentGroupInfo

public IOZGroupInfo getParentGroupInfo(Object sessionID, String groupID) throws
OZRepositoryException

Gets the parent group information of the designated group.

Parameters:

sessionID - Session ID

groupID - Group ID to get its parent group information

getGroupIdOfUser

public IOZGroupInfo getGroupIdOfUser(Object sessionID, String userID) throws
OZRepositoryException

Gets the information of the group which the designated user belong to.

Parameters:

sessionID - Session ID

userID - ID of the user from which the group information will be received

addGroupAdmin

```
public boolean addGroupAdmin(Object sessionID, String userID, String groupID)
```

throws OZRepositoryException

Adds a Group Admin to the designated group.

Parameters:

sessionID - Session ID

userID - ID of the user to add as Group Admin will be added

groupID - ID of the group where the Group Admin will be added

removeGroupAdmin

```
public boolean removeGroupAdmin(Object sessionID, String userID, String groupID)
```

throws OZRepositoryException

Releases a Group Admin of the designated group.

Parameters:

sessionID - Session ID

userID - ID of user from which the Group Admin authorization will be released

groupID - Group ID to remove from the user

isUserGroupAdmin

```
public boolean isUserGroupAdmin(Object sessionID, String userID, String groupID)
```

throws OZRepositoryException

Checks that the user corresponding to the designated user ID is the administrator of the corresponding group.

Parameters:

sessionID - Session ID

userID - User ID to check if it is the group administrator

groupID - Group ID

getUserAdminListInGroup

```
public IOZUserInfoList getUserAdminListInGroup(Object sessionID, String groupID)
```

throws OZRepositoryException

Gets the group administrator information of the designated group.

Parameters:

sessionID - Session ID

groupID - ID of group from which the group administrator information will be received

transferUser

public boolean transferUser(Object sessionID, String userID, String target_GroupID)

throws OZRepositoryException

Transfers the group of the designated user.

Parameters:

sessionID - Session ID

userID - ID of the user that will transfer the group

target_groupID - Target group ID

transferGroup

public boolean transferGroup(Object sessionID, String groupID, String target_GroupID)

throws OZRepositoryException

Transfers the designated group to another group.

Parameters:

sessionID - Session ID

groupID - ID of the group to which the designated group will be transferred

target_groupID - Target group ID

IOZRepositoryItem

This interface provides functions for setting item.

Method Detail

getAccessTypeltem

```
public int getAccessTypeItem()
```

Gets methods accessible to the item.

getOZRepository

```
public IOZRepository getOZRepository() throws OZRepositoryException
```

Gets the class where the OZRepository Interface is implemented.

createItem

```
public String[] createItem(Object sessionID, String[] itemNames, String[] descs,  
InputStream[] item_ins, String comment, int[] errorCode, String[] errorMsg) throws  
OZRepositoryException
```

Creates an item and returns its ID.

Parameters:

sessionID - Session ID

itemNames - Item name

descs - Item description

item_ins - Item stream

comment - Comment

errCodes - Error code

errMsgs - Error message

modifyItemName

```
public String modifyItemName(Object sessionID, String itemID, String  
new_itemName, String comment) throws OZRepositoryException
```

Modifies the name of the item corresponding to the item ID and returns the modified item ID.

Parameters:

sessionID - Session ID

itemID - Item ID to change its name

new_itemName - New item name

comment - Comment

deleteItem

public boolean[] deleteItem(Object sessionID, String[] itemIDs, boolean[] isDestroys, String comment, int[] errorCode, String[] errorMsg) throws

Deletes the item from the Repository and gets the result.

Parameters:

sessionID - Session ID

itemIDs - ID of the item to delete

isDestroys - Whether to permanently delete

comment - Comment

errCodes - Error code

errMsgs - Error message

unDeleteItem

public boolean[] unDeleteItem(Object sessionID, String[] itemIDs, String comment, int[] errorCode, String[] errorMsg) throws OZRepositoryException

Restores the deleted item.

Parameters:

sessionID - Session ID

itemIDs - ID of the item to restore

comment - Comment

errCodes - Error code

errMsgs - Error message

modifyItemDesc

public boolean modifyItemDesc(Object sessionID, String itemID, String desc) throws OZRepositoryException

Modifies the description of the item corresponding to the item ID.

Parameters:

sessionID - Session ID

itemID - ID of item to modify

desc - Description to modify

getItemInfo

public IOZItemInfo getItemInfo(Object sessionID, String itemID) throws
OZRepositoryException

Gets the information of the item corresponding to the item ID.

Parameters:

sessionID - Session ID

itemID - ID of item from which to get information

hasTheItem

public boolean hasTheItem(Object sessionID, String itemID) throws
OZRepositoryException

Gets whether the item exists.

Parameters:

sessionID - Session ID

itemID - Item ID

getItems

public InputStream[] getItems(Object sessionID, String itemIDs[], int[] errorCode,
String[] errorMsg) throws OZRepositoryException

Gets the item and the item stream.

Parameters:

sessionID - Session ID

itemIDs - Item ID to get

errCodes - Error code

errMsgs - Error message

getItems

public InputStream[] getItems(Object sessionID, String itemIDs[], long[] modifiedTimes,
int[] errorCode, String[] errorMsg) throws OZRepositoryException

Gets the item and the item stream.

Parameters:

sessionID - Session ID

itemIDs - Item ID to get

modifiedTimes - Time the item was last modified

errCodes - Error code

errMsgs - Error message

checkoutItem

```
public InputStream[] checkoutItem(Object sessionID, String itemIDs[], String[]  
localCheckoutFolders, long[] localFileTimes, String[] checkoutCmts, int[] errorCode,  
String[] errorMsg) throws OZRepositoryException
```

Check out the item with the designated user ID to a folder, and gets the item stream if the local file time is smaller than the item time.

Parameters:

sessionID - Session ID

itemIDs - ID of the item to check out

localCheckoutFolders - Name of the local folder to check out

localFileTimes - Local file time of the item to check out

checkoutCmts - Comment

errCodes - Error code

errMsgs - Error message

checkInItem

```
public boolean[] checkInItem(Object sessionID, String[] itemIDs, InputStream[]  
item_ins, String comment, boolean[] keepCheckout, int[] errorCode, String[] errorMsg)  
throws OZRepositoryException
```

Check in the item with the designated user ID.

Parameters:

sessionID - Session ID

itemIDs - ID of the item to check in

item_ins - Item stream to check in

comment - Comment

keepCheckOut - Whether to keep the check out status

errCodes - Error code

errMsgs - Error message

undoCheckOutItem

public InputStream[] undoCheckOutItem(Object sessionID, String[] itemIDs, boolean[] isReplaces, int[] errorCode, String[] errorMsg) throws OZRepositoryException

Undo check out the item.

Parameters:

sessionID - Session ID

itemIDs - ID of the item to undo check out

isReplaces - Whether to replace the local file

errCodes - Error code

errMsgs - Error message

isCheckOutUser

public boolean[] isCheckOutUser(Object sessionID, String[] itemIDs) throws OZRepositoryException

Checks whether the designated user checked out the item.

Parameters:

sessionID - Session ID

itemIDs - Item ID

IOZRepositoryItemHistory

This interface provides information on the item's change history.

Method Detail

getAccessTypeItemHistory

public int getAccessTypeItemHistory()

Gets the methods with access to the Item History Interface as numbers.

getOZRepository

public IOZRepository getOZRepository() throws OZRepositoryException

Gets the class where the OZRepository Interface is implemented.

rollBackItem

public boolean rollBackItem(Object sessionID, String itemID, int itemVersion, String comment) throws OZRepositoryException

Rolls back a item to a designated version.

Parameters:

sessionID - Session ID

itemID - ID of the item to roll back

itemVersion - Version to roll back

comment - Comment

getItemByVersion

public InputStream getItemByVersion(Object sessionID, String itemID, int version)

throws OZRepositoryException

Gets the item of the designated version among the items corresponding to the item ID.

Parameters:

sessionID - Session ID

itemID - ID of the item to get

version - The version of the item to get

getHistoryItemList

public IOZHistoryInfoList getHistoryItemList(Object sessionID, String itemID) throws
OZRepositoryException

Gets the history information of the item.

Parameters:

sessionID - Session ID

itemIDs - Item ID from which to get history

getDeleteHistoryItemInfo

public IOZHistoryInfoList getDeleteHistoryItemInfo(Object sessionID, String itemID)
throws OZRepositoryException

Gets the deleted history list.

Parameters:

sessionID - Session ID

itemIDs - Item ID from which to get deleted history

removeHistoryItem

public boolean removeHistoryItem(Object sessionID, String itemID, int itemVersion)
throws OZRepositoryException

Deletes the item's specific version of history.

Parameters:

sessionID - Session ID

itemID - Item ID to delete its history

item version - History version to be deleted

IOZRepositoryMultiLoginUser

This interface provides multiple login related methods.

Method Detail

getAccessTypeMultiLoginUser

public int getAccessTypeMultiLoginUser()

Gets the methods with access to the MultiLogin Interface as numbers.

getOZRepository

public IOZRepository getOZRepository() throws OZRepositoryException

Gets the class where the OZRepository Interface is implemented.

disableUserLogin

public void disableUserLogin(Object sessionID) throws OZRepositoryException

Set to disable the Userlogin with the designated session ID.

Parameters:

sessionID - The designated session ID

enableUserLogin

public void enableUserLogin(Object sessionID) throws OZRepositoryException

Set to enable the UserLogin with the designated session ID.

Parameters:

sessionID - The designated session ID

isLoginEnabled

public boolean isLoginEnabled(Object sessionID) throws OZRepositoryException

Gets whether the login of the user with the designated session ID is enabled.

Parameters:

sessionID - Session ID to check if it can be logged in

IOZRepositoryUser

This interface provides functions for setting user.

Method Detail

getAccessTypeUser

public int getAccessTypeUser()

Gets the methods with access to the User Interface as numbers.

getOZRepository

public IOZRepository getOZRepository() throws OZRepositoryException

Gets the class where the OZRepository Interface is implemented.

createUser

public String createUser(Object sessionID, String userName, String password, String desc) throws OZRepositoryException

Creates a new user and returns its ID.

Parameters:

sessionID - Session ID

userName - User name

password - Password

desc - User description

modifyUserName

public String modifyUserName(Object sessionID, String userID, String userName)
throws OZRepositoryException

Modifies the name of the user corresponding to the user ID and returns the ID of which the user name was modified.

Parameters:

sessionID - Session ID

userID - User ID

userName - User name to modify

modifyUserPassword

public boolean modifyUserPassword(Object sessionID, String userID, String old_password, String new_password) throws OZRepositoryException

Modifies the password of the designated user.

Parameters:

sessionID - Session ID

userID - User ID to change its password

old_password - Old password

new_password - New password

modifyUserDesc

public boolean modifyUserDesc(Object sessionID, String userID, String desc) throws OZRepositoryException

Modifies the description of the user corresponding to the designated user ID.

Parameters:

sessionID - Session ID

userID - User ID to change its user description

desc - Description of the user to modify

deleteUser

public boolean deleteUser(Object sessionID, String userID) throws OZRepositoryException

Deletes the information of all users corresponding to the designated user ID.

Parameters:

sessionID - Session ID

userID - ID of the user to delete

getUserInfo

public IOZUserInfo getUserInfo(Object sessionID, String userID) throws OZRepositoryException

Gets the user information of the user corresponding to the user ID.

Parameters:

sessionID - Session ID

userID - User ID to get user information

checkUserPassword

public boolean checkUserPassword(Object sessionID, String userID, String password)

throws OZRepositoryException

Checks whether the user password is correct.

Parameters:

sessionID - Session ID

userID - User ID to check its password

password - Password to check

getUserInfoList

public IOZUserInfoList getUserInfoList(Object sessionID) throws

OZRepositoryException

Gets the user information of all users.

Parameters:

sessionID - Session ID

isCheckAdmin

public boolean isCheckAdmin(Object sessionID, String userID) throws

OZRepositoryException

Checks that the user corresponding to the designated user ID is the administrator of the Repository.

Parameters:

sessionID - Session ID

userID - User ID to check if it is the administrator

addAdmin

`public boolean addAdmin(Object sID, String uID, String client_ip) throws`

`OZRepositoryException`

Adds the administrator.

Parameters:

sID - Session ID

uID - User ID for adding the administrator permission

client_ip - Client IP

removeAdmin

`public boolean removeAdmin(Object sID, String uID, String client_ip) throws`

`OZRepositoryException`

Cancel the administrator.

Parameters:

sID - Session ID

uID - User ID for deleting the administrator permission

client_ip - Client IP

modifyAllowip

`public boolean modifyAllowip(Object sID, String uID, String allowip, String client_ip)`

`throws OZRepositoryException`

Changes the allowed IP of users.

Parameters:

sID - Session ID

uID - User ID for changing the allowed IP

allowip - Allowed IP

client_ip - Client IP

isExternalLogin

`public boolean isExternalLogin() throws OZRepositoryException`

Gets whether to use the login function connected to external API.

IOZUserInfo

This interface provides group information.

Method Detail

getUserID

```
public String getUserID()
```

Gets the ID of the user.

getPassword

```
public String getPassword()
```

Gets the password of the user.

getUserName

```
public String getUserName()
```

Gets the name of the user.

getGroupID

```
public String getGroupID()
```

Gets the ID of the group where the user belongs.

getGroupName

```
public String getGroupName()
```

Gets the name of the group where the user belongs.

getDesc

```
public String getDesc()
```

Gets the description of the user.

getUpdateUserTime

```
public long getUpdateUserTime()
```

Gets the update time of the user.

isLoggedIn

```
public boolean isLoggedIn()
```

Gets whether the user is logged in.

getSessionID

```
public String getSessionID()
```

Gets the session ID created when the user logs in.

isLoginEnabled

```
public boolean isLoginEnabled()
```

Gets whether login of the user is enabled.

getLoginIP

```
public String getLoginIP()
```

Gets the IP of the PC where the user logged in.

getLastLoginTime

```
public long getLastLoginTime()
```

Gets the last login time of the user.

getPerm

```
public int getPerm()
```

Gets the permission information of the user.

IOZUserInfoList

This interface provides group information.

Method Detail

getGroupInfo

public IOZUserInfoList getUserInfo(int index)

Gets the user information corresponding tot the index.

Parameters:

index-Index

getSize

public String getSize()

Gets the number of user lists.

getGroupInfos

public IOZUserInfo[] getUserInfos()

Gets the user information as array.

User Defined Log API

The UDL (User Defined Log) is an interface to allow users to record databases or information related to the report in the user-defined type in a file or DB when referring data through the OZ server.

User Defined Log API provides [classes](#) and [interfaces](#).

Class

User Defined Log API provides the following class:

- [OZUserDefinedLogger](#)

OZUserDefinedLogger

This class provides methods to implement User Defined Log.

Method Detail

init

`public void init(oz.framework.db.OZConnection ozconn, com.forcs.log4oz.OZLog cat)`

throws `OZUserDefinedLogException`

Defines the object where the user-defined log will be saved when executing the OZ Server.

Parameters:

ozconn - The DB connection data and the log type to be used when saving user-defined log in the DB

cat - The file information and log type to be used when saving user-defined log in a file

traceLog

`public void traceLog(oz.udl.OZUserDefinedLogTarget target,`

`oz.framework.db.OZConnection ozconn, com.forcs.log4oz.OZLog cat) throws`

`OZUserDefinedLogException`

Defines the target content to save in the log.

Parameters:

target - User-defined log target

ozconn - The DB connection data and the log type to be used when saving user-defined log in the DB.

cat - The file information and log type to be used when saving user-defined log in the file.

getOZDBAlias

```
public String getOZDBAlias()
```

Gets the alias of the connection pool defined in OZ Server.

Interface

User Defined Log API provides the following Interfaces:

- [OZClearQuestLogTarget](#)
- [OZDMLogTarget](#)
- [OZEndTarget](#)
- [OZExecuteTarget](#)
- [OZFileStoreLogTarget](#)
- [OZHTTPStoreLogTarget](#)
- [OZMonitorLogTarget](#)
- [OZProcedureLogTarget](#)
- [OZRDBLogTarget](#)
- [OZRequestTarget](#)
- [OZSAPLogTarget](#)
- [OZSchedulerUDLTarget](#)
- [OZSchedulerUserDefinedLogger](#)
- [OZSOAPLogTarget](#)
- [OZTaskInfoTarget](#)
- [OZUDSLogTarget](#)
- [OZUserDefinedLogTarget](#)
- [OZXMLLogTarget](#)

OZClearQuestLogTarget

This interface provides ClearQuest store related information.

Method Detail

getExecuteType

public String getExecuteType()

Gets the Clear Quest execution type requested by the client.

getQuerySubType

public String getQuerySubType()

Gets the QuerySub type requested by the client.

getQuery

public String getQuery()

Gets the query statement requested by the client.

getQueryExecuteTime

public long getQueryExecuteTime()

Gets the time taken for the query statement requested by the client to execute. (Unit: Millisecond)

getQueryState

public String getQueryState()

Gets whether the query statement requested by the client successfully executed.

OZDMLogTarget

This interface provides information about the data module.

Method Detail

getODIName

public String getODIName()

Gets the name of the ODI that executed the query statement.

getDataSetName

public String getDataSetName()

Gets the name of the data set that executed the query statement.

getDataStoreName

public String getDataStoreName()

Gets the name of the data store that executed the query statement.

getOZParam

public HashMap getOZParam()

Gets the OZ user-set parameters in the form of HashMap.

OZEndTarget

This interface is the interface that is called when the task ends.

Method Detail

getExecuteTime

long getExecuteTime()

Gets the execution time in milliseconds.

getExportedFileName

String[] getExportedFileName()

Gets the name of the exported file.

isSuccessfulString

String isSuccessfulString()

Gets the message indicating whether successful or not.

getErrorMsg

String getErrorMsg()

Gets the error message.

OZExecuteTarget

This interface is the interface that is called when executing a task.

Method Detail

getReportFiles

String[] getReportFiles()

Gets the report name with category path.

getSchedulingType

String getSchedulingType()

Gets the scheduling type.

Return "Immediately", "Once at specific time" or "Periodically".

getViewerParamString

String getViewerParamString()

Gets viewer parameters.

OZFileStoreLogTarget

This interface provides file store related information.

Method Detail

getFilePath

```
public String getFilePath()
```

Gets the file path requested by the client.

getFileAccessTime

```
public long getFileAccessTime()
```

Gets the time taken for the file requested by the client to be received. (Unit: Millisecond)

getFileAccessState

```
public String getFileAccessState()
```

Gets whether the file requested by the client successfully executed.

OZHTTPStoreLogTarget

This interface provides HTTP store related information.

Method Detail

getURL

```
public String getURL()
```

Gets the URL requested by the client.

getHTTPAccessTime

```
public long getHTTPAccessTime()
```

Gets the time taken for the files in the HTTP path requested by the client to be received.
(Unit: Millisecond)

getHTTPAccessState

```
public String getHTTPAccessState()
```

Gets whether the file of the HTTP path requested by the client successfully executed.
If successful return "true", else return "false:error message".

OZMonitorLogTarget

This interface provides monitor log related information.

Method Detail

getMark

```
public String getMark()
```

Gets the signs of the service start and end.

getThreadName

```
public String getThreadName()
```

Gets the service thread name.

getServiceTime

```
public long getServiceTime()
```

Gets the service start time and end time. (Unit: ms)

getFreeMemory

```
public long getFreeMemory()
```

Gets the free memory. (Unit: byte)

getTotalMemory

```
public long getTotalMemory()
```

Gets the total JVM memory size. (Unit: byte)

getServiceCode

```
public integer getServiceCode()
```

Gets the service code.

getServiceStatus

```
public integer getServiceStatus()
```

Gets the service status code.

getServiceParameter

```
public String getServiceParameter()
```

Gets the parameter value that is transmitted when requesting a service in the client.

getDBSessionID

```
public String getDBSessionID()
```

Gets the DBMS session ID.

getExecuteTime

```
public String getExecuteTime()
```

Gets the time taken to process a service. (Unit: ms)

getErrorCode

```
public String getErrorCode()
```

Gets the error code when an error occurs.

getErrorMsg

```
public String getErrorMsg()
```

Gets the error message when an error occurs

getErrorStackTrace

```
public String getErrorStackTrace()
```

Gets the Stack Trace when an error occurs.

getDBConns

```
public String getDBConns()
```

Gets the number of DB connections by Alias.

OZProcedureLogTarget

This interface provides information about procedure data.

Method Detail

getDBAlias

```
public String getDBAlias()
```

Gets the DB alias of the connection pool used by the executed ODI.

getProcedureName

```
public String getProcedureName()
```

Gets the name of the procedure requested by the client.

getParameterList

```
public ArrayList getParameterList()
```

Gets the procedure parameter requested by the client as array.

getProcedureExecuteTime

```
public long getProcedureExecuteTime()
```

Gets the time take for the procedure requested by the client to execute. (Unit: Millisecond)

getProcedureState

```
public String getProcedureState()
```

Gets whether the procedure requested by the client has successfully executed.

OZRDBLogTarget

This interface provides information about the RDB store.

Method Detail

getDBAlias

```
public String getDBAlias()
```

Gets the DB alias of the connection pool used by the executed ODI.

getDBExecuteQuery

```
public String getDBExecuteQuery()
```

Gets the query statement requested by the client.

getPreparedQueryValue

```
public Vector getPreparedQueryValue()
```

The used value for the complied query statement.

getExecuteQueryState

```
public String getExecuteQueryState()
```

Gets whether the query statement requested by the client has successfully been executed.

getQueryExecuteTime

```
public long getQueryExecuteTime()
```

Gets the time taken for the query statement requested by the client to be executed. (Unit: Millisecond)

isPrepared

```
public boolean isPrepared()
```

Gets whether a compiled query statement was used.

getCRUDFlagName

```
public String getCRUDFlagName()
```

Gets the type of the query statement executed and requested by the client. (select, insert, update, delete)

OZRequestTarget

This interface is the interface that is called upon task request.

Method Detail

getConfigType

```
String getConfigType()
```

Gets the configuration type.

OZSAPLogTarget

This interface provides SAP store related information.

Method Detail

getFunctionName

```
public String getFunctionName()
```

Gets the name of the function requested by the client.

getFunctionType

```
public String getFunctionType()
```

Gets the function type requested by the client.

getInputParameters

```
public HashMap getInputParameters()
```

Gets the input parameter requested from the client in the form of HashMap.

getResultSetTypes

```
public String getResultSetTypes()
```

Gets the type of the ResultSet requested by the client.

getFunctionExecuteTime

```
public long getFunctionExecuteTime()
```

Gets the time taken for the function requested by the client to execute. (Unit: Millisecond)

getFunctionState

```
public String getFunctionState()
```

Gets whether the function requested by the client successfully executed.

OZSchedulerUDLTarget

This interface provides a method to get basic information of UDL used by OZ Scheduler.

Method Detail

getConcurrentCount

int getConcurrentCount()

Gets the number of running tasks.

getWaitQueueCount

int getWaitQueueCount()

Gets the number of waiting tasks.

getTaskID

String getTaskID()

Gets the task ID.

getMarkType

String getMarkType()

Gets the execution type. ("REQ", "EXE", "END")

getFreeMemory

long getFreeMemory()

Gets free memory size in bytes

getTotalMemory

long getTotalMemory()

Gets total memory size in bytes

getServiceTime

long getServiceTime()

Gets the number of milliseconds elapsed since midnight (00:00:00), January 1, 1970.

getExportMap

SortProperties getExportMap()

Gets the execution option of the HTML5SVG viewer.

getSVGType

String getSVGType()

Gets the job type that the HTML5SVG viewer requests to the scheduler.

Returns one of "NewFrame", "GetPage", "CheckStatus", "RequestSchedulerExport", "RequestSchedulerPrint", "GetMHTPage", "GetPDFPage", "ReqeustExport", "RequestPrint".

OZSchedulerUserDefinedLogger

This interface provides basic methods to execute User Defined Log function in OZ Scheduler.

Method Detail

init

void init(org.apache.log4j.Category cat) throws OZSchedulerUDLException

Starts the OZ Scheduler.

Parameters:

cat - Message to log when starting the OZ Scheduler

release

void release(org.apache.log4j.Category cat) throws OZSchedulerUDLException

Stop the OZ Scheduler.

Parameters:

cat - Message to log when stopping the OZ Scheduler

traceLog

void traceLog(OZSchedulerUDLTarget target, org.apache.log4j.Category cat) throws
OZSchedulerUDLException

Write the log

Parameters:

target - Target user defined log

cat - Message to log

OZSOAPLogTarget

This interface provides SOAP store related information.

Method Detail

getServiceName

public String getServiceName()

Gets the service name requested by the client.

getPort

public String getPort()

Gets the service port requested by the client.

getOperation

public String getOperation()

Gets the operation of the service requested by the client.

getEndPoint

public String getEndPoint()

Gets the EndPoint that called the service requested by the client.

getRequestXML

public String getRequestXML()

Gets the XML content requested by the client.

getServiceExecuteTime

public long getServiceExecuteTime()

Gets the time taken for the service requested by the client to execute. (Unit: Millisecond)

getServiceState

public String getServiceState()

Gets whether the SOAP service requested by the client successfully executed.

OZTaskInfoTarget

This interface is the interface that is called when saving task information.

Method Detail

getTaskGroupName

String getTaskGroupName()

Gets the task group name with full path.

getTaskName

String getTaskName()

Gets the task name.

getTaskProperty

HashMap getTaskProperty()

Gets the task information in the form of HashMap.

OZUDSLogTarget

This interface provides information about the user data store.

Method Detail

getExecuteCommand

```
public String getExecuteCommand()
```

Gets the command requested by the client.

getCRUDFlagName

```
public String getCRUDFlagName()
```

Gets the type of the query statement requested and executed by the client.

getCommandExecuteTime

```
public long getCommandExecuteTime()
```

Gets the time taken for the command requested by the client to execute. (Unit: Millisecond)

getCommandState

```
public String getCommandState()
```

Gets whether the command requested by the client successfully executed.

OZUserDefinedLogTarget

This interface provides basic information of OZ UDL.

Method Detail

getIPAddress

public String getIPAddress()

Gets the OZ Server IP address requested by the client.

getHttpRequest

public HttpServletRequest getHttpRequest()

Gets the requested HttpRequest when the OZ Server type is Servlet.

getHttpServlet

public HttpServlet getHttpServlet()

Gets the requested HttpServlet when the OZ Server type is Servlet.

getUserID

public String getUserID()

Gets the OZ Server user ID that executed the query statement in the client.

OZXMLLogTarget

This interface provides XML store related information.

Method Detail

getURL

public String getURL()

Gets the file path or URL requested by the client.

getURLAccessTime

```
public long getURLAccessTime()
```

Gets the time taken for the file of the URL requested by the client to be received.

getURLAccessState

```
public String getURLAccessState()
```

Gets whether the file of the URL requested by the client successfully executed.

User Defined Resource API

When create a resource field of a report, UDR (User Defined Resource) enables you to set the resource field values using resource information in database without setting the each resource field values using OZ Report Designer.

User Defined Resource API provides [classes](#) and [interfaces](#).

Class

User Defined Resource API provides the following classes:

- [OZUDRInfo](#)
- [OZUDRRResult](#)
- [Resource](#)

OZUDRInfo

This class provides methods to get UDR information.

Constructor Detail

OZUDRInfo

```
public OZUDRInfo(String category, String reportname, String[] language, Resource[] resource)
```

Gets the UDR information.

Parameters:

category - Category name

reportname - Report name

language - Language list

resource - Resource information object

Method Detail

getCategory

```
public String getCategory()
```

Gets the category name.

setCategory

```
public void setCategory(String category)
```

Sets the category name.

Parameters:

category - Category name

getReportname

```
public String getReportname()
```

Gets the report name.

setReportname

```
public void setReportname(String reportname)
```

Sets the report name.

Parameters:

reportname - Report name

getLanguage

```
public String[] getLanguage()
```

Gets the language list.

setLanguage

```
public void setLanguage(String[] language)
```

Sets the language list.

Parameters:

language - Language list

getResource

```
public Resource[] getResource()
```

Gets the resource.

setResource

```
public void setResource(Resource[] resource)
```

Sets the resource.

Parameters:

resource - Resource information

OZUDRRResult

This class provides methods to get the UDR execution result.

Constructor Detail

OZUDRRResult

```
public OZUDRRResult(boolean isUpdate, OZUDRInfo info)
```

Gets the UDR execution result.

Parameters:

isUpdate - Whether to update or not

info - An object that has new user defined resource information

Method Detail

isUpdate

```
public boolean isUpdate()
```

Whether to update or not.

getUDRInfo

```
public OZUDRInfo getUDRInfo()
```

Gets the object that has new user defined resource information.

Resource

This class provides methods to get resource information.

Constructor Detail

Resource

```
public Resource(String name, String desc, String[] value)
```

Gets resource information

Parameters:

name - Resource field name

desc - Resource description

value - Resource value for each language

Method Detail

getName

```
public String getName()
```

Gets the resource field name.

setName

```
public void setName(String name)
```

Sets the resource field name.

Parameters:

name - Resource field name

getDesc

```
public String getDesc()
```

Gets the resource description.

setDesc

```
public void setDesc(String desc)
```

Sets the resource description.

Parameters:

desc - Resource description

getValue

```
public String[] getValue()
```

Gets the resource values for each language.

setValue

```
public void setValue(String[] value)
```

Sets the resource values for each language.

Parameters:

value - Resource values for each language

getDescHash

```
public HashMap getDescHash()
```

Gets the object with key, value in the hash for parsing resource description.

Interface

User Defined Resource API provides the following interface:

- [IOZUserDefinedResource](#)

IOZUserDefinedResource

This interface provides resource synchronization functions.

Method Detail

syncResource

public OZUDRResult syncResource(OZConnection ozconn, OZLog cat, String props, OZUDRInfo info) throws Exception

Synchronize resource.

Parameters:

ozconn - DB Connection

cat - Category to be logged in server log

props - User defined Property

info - Resource information object in the report

User Component API

The methods available when developing custom components are as follows:

Method Detail

GetNewInstance

DWORD GetNewInstance()

User component object creation function.

GetCopyInstance

DWORD GetCopyInstance(DWORD src)

User component object copy function.

Parameters:

src - User component object handle

DeleteInstance

void DeleteInstance(DWORD src)

User component object deletion function.

Parameters:

src - User component object handle

getAttrListLength

int getAttrListLength(DWORD src)

A function that returns the number of properties used by user components.

Parameters:

src - User component object handle

getAttrList

BOOL getAttrList(DWORD src, WCHAR** attrs, const int length)

Puts property names used in the user component and then returns them to the attrs.

Parameters:

src - User component object handle

attrs - Pointer of the buffer where the properties are returned.

length - Number of properties generated by calling the getAttrListLength.

getAttrLength

int getAttrLength(DWORD src, const WCHAR* name)

A function that returns the length of the input property.

Parameters:

src - User component object handle

name - Property name

getAttr

BOOL getAttr(DWORD src, const WCHAR* name, WCHAR* value, const int value_length)

Returns the properties corresponding to the name to the value.

Parameters:

src - User component object handle

name - Property name

value - Place where the properties are saved

value_length - Value generated by calling the getAttrLength

setAttr

BOOL setAttr(DWORD src, const WCHAR* name, const WCHAR* value)

A function that modifies the value of the input property.

Parameters:

src - User component object handle

name - Property name

value - Value of the property to modify

readMe

void readMe(DWORD src, const char* pData, const int length)

A function that read user component properties from the serialized binary data.

Parameters:

src - User component object handle

pData - Binary data storage for reading properties

length - Length of the data to read

writeMeExLength

int writeMeExLength(DWORD src)

A function that returns the length of binary data that serializes the properties of user components.

Parameters:

src - User component object handle

writeMeEx

void writeMeEx(DWORD src, char* pData, const int length)

A function that serializes the properties of user components.

Parameters:

src - User component object handle

pData - Pointer of binary data

length - Length of binary data

isHiddenAttr

BOOL isHiddenAttr(DWORD src, LPCWSTR attrname)

A function that sets whether to display the property in the properties window.

Parameters:

src - User component object handle

attrname - Property name

getAttrType

int getAttrType(DWORD src, LPCWSTR attrname)

A function that add property to match the property type.

Parameters:

src - User component object handle

attrname - Property name

getEnumSize

int getEnumSize(DWORD src, LPCWSTR attrname)

A function that get the number of Enum, when the return value of the getAttrType function is Enum.

Parameters:

src - User component object handle

attrname - Property name

getEnumSize

BOOL getEnumValues(DWORD src, LPCWSTR attrname, WCHAR** enumNames,
const int length)

A function that get the values of Enum, when the return value of the getAttrType function is Enum.

Parameters:

src - User component object handle

attrname - Property name

enumNames - Array of Enum values to be stored

length - Number of Enum

paint

void paint(DWORD src, HDC hDC, LPCWSTR data, const float x, const float y, const
float w, const float h, const float scale)

A function called when drawing on the screen.

Parameters:

src - User component object handle
hDC - Handle of the screen(refer to the WIN32 API)
data - Caption of the label
x - X-coordinate of the component
y - Y-coordinate of the component
w - Width of the component
h - Height of the component
scale - Scale

paintEX

void paintEX(DWORD src, HDC hDC, LPCWSTR data, const float x, const float y, const float w, const float h, const float scale, const float x_offset, const float y_offset)

A function called when drawing on the screen and that delivers the offset value where the actual image will be saved.

Parameters:

src - User component object handle
hDC - Handle of the screen(refer to the WIN32 API)
data - Caption of the label
x - X-coordinate of the component
y - Y-coordinate of the component
w - Width of the component
h - Height of the component
scale - Scale
x_offset - x offset where the actual image will be saved
y_offset - y offset where the actual image will be saved

print

void print(DWORD src, HDC hDC, LPCWSTR data, const float x, const float y, const float w, const float h, const float scale, const float x_offset, const float y_offset)

A function that is called when printing.

Parameters:

src - User component object handle

hDC - Handle of the screen(refer to the WIN32 API)

data - Caption of the label

x - X-coordinate of the component

y - Y-coordinate of the component

w - Width of the component

h - Height of the component

scale - Scale

x_offset - x offset where the actual image will be saved

y_offset - y offset where the actual image will be saved

getAutosize

void getAutosize(DWORD src, HDC hDC, LPCWSTR data, float * w, float * h)

A function to set the horizontal and vertical size of the user component when using the AutoSize function.

Parameters:

src - User component object handle

hDC - Handle of the screen(refer to the WIN32 API)

data - Caption of the label

w - pointer of the original width of the component

h - pointer of the original height of the component

setWorkPath

void setWorkPath(DWORD src, const WCHAR* work_path)

A function that set the path of working folder.

Parameters:

src - User component object handle

work_path - Path of working folder

setDLLPath

void setDLLPath(DWORD src, const WCHAR* dll_path)

A function that the path of DLL file.

Parameters:

src - User component object handle

dll_path - Path of DLL file

setExtraParam

void setExtraParam(DWORD src, const WCHAR* extra_param)

A function that apply parameter.

Parameters:

src - User component object handle

extra_param - Parameter

getTooltipLength

int getTooltipLength(DWORD src, const float x, const float y)

A function that get the length of a tooltip.

Parameters:

src - User component object handle

x - X-coordinate of tooltip

y - Y-coordinate of tooltip

getTooltip

BOOL getTooltip(DWORD src, const float x, const float y, WCHAR* tooltip, const int tooltip_length)

A function that get whether tooltip is displayed.

Parameters:

src - User component object handle

x - X-coordinate of tooltip

y - Y-coordinate of tooltip

tooltip - Text of tooltip

tooltip_length - Length of tooltip

splitBindEx

BSTR splitBindEx(DWORD src, HDC hDC, LPCWSTR data, const float firstHeiht, int firstcount, const float nextHeiht, const float desiredWidth)

A function of applying the "User Component" in the Drawing Type of Note.

Parameters:

src - User component object handle

hDC - Handle of the screen(refer to the WIN32 API)

data - Data

firstHeiht - First height

firstcount - First count

nextHeiht - Next height

desiredWidth - Desired Width