

24x7 Remote Control Java API Reference

24x7 Scheduler™ Multi-platform Edition 7.5

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About This Manual

This user manual describes all features of the 24x7 Remote Control Java API for 24x7 Scheduler™ Multi-platform Edition. This manual contains information for developers and experienced users of the 24x7 Scheduler who want to create custom interfaces to the 24x7 Scheduler and/or tightly integrate it with other applications and systems.

The complete 24x7 Scheduler documentation consists of several manuals and an on-line interactive help system. The on-line help is available at any time when you are running 24x7 Scheduler. Depending on what you are doing, you can press F1, select Help from the Menu Bar, or select the Help button on a dialog.

Conventions Used in This Document

This section describes the style conventions used in this document.

Italic

An *italic* font is used for filenames, URLs, emphasized text, and the first usage of technical terms.

Monospace

A monospaced font is used for code fragments and data elements.

Bold

A **bold** font is used for important messages, names of options, names of controls and menu items, and keys.

Graphical marks



- This mark is used to indicate product specific options and issues and to mark useful tips.



- This mark is used to indicate important notes.

Abbreviations and Terms

This guide uses common abbreviations for many widely used technical terms including JSP, API, and other.

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Overview

About the 24x7 Java API

24x7 Java API interface is a set of pure Java classes that enable communication between a Java application and a distributed 24x7 Scheduler server. The main class is *j24x7*, which is part of *com.softtreetech.scheduler* package. This class is provided as a JavaBeans™ proxy to the 24x7 Remote Control within 24x7 Scheduler running on the same or remote computer. The interface also includes *jdpb_24x7*, which is provided for backward compatibility.

Additional supporting and communication classes are contained in the *com.sybase.dpb* and *com.objectspace.jdl* packages that must be installed with the **24x7 Remote Control Java** interface. The *com.sybase.dpb* package is developed and copyrighted by Sybase, Inc. and the *com.objectspace.jdl* package is developed and copyrighted by ObjectSpace, Inc. All the required classes can be found in *JDPB24x7.jar* and *jgl3.1.0.jar* files installed with 24x7 Scheduler.

Only classes required for using the **24x7 Java** API interface are described in this manual. For more information see [Additional Classes](#) topic.

Using 24x7 Java API in Your Program

The following steps summarize typical programming tasks required to incorporate the methodality of the 24x7 Scheduler Java API in a client application.

To code a client application

1. Create an instance of a *j24x7* class.
2. Connect to an active 24x7 Scheduler server or 24x7 Remote Agent by calling the **openSession** method of the *j24x7* class. For more information about connecting to 24x7 remote servers, see [openSession](#) method description.
1. Call necessary 24x7 Java API methods for performing the required tasks. For more Information see [Public Methods](#) topic.
2. Terminate the connection to the 24x7 Scheduler server by calling the **closeSession** method of the *j24x7* class. For more information, see [closeSession](#) topic.

For more information about managing 24x7 Schedulers and scheduled jobs see the 24x7 Scheduler User's Guide.

A Quick Example: Java application

The following paragraphs provides a quick example of calling **24x7 Java API** from a Java application.

1. Declare and instantiate j24x7 class variable

```
// declare imports
import com.softtreotech.scheduler.*;
import import com.sybase.dpb.*;

// instantiate j24x7 class
j24x7 remote24x7 = new j24x7();
```

2. Connect to the server:

```
// Open new session
Integer portNo = new Integer(1096);
String hostName = new String("LocalHost");
String userID = new String("scott");
String userPass = new String("tiger");
String serial = new String("[your license key here]");

remote24x7.openSession(hostName, portNo, userID, userPass, serial );
```

3. Access methods or properties of the 24x7 Remote Control

```
// Get job list
StringHolder buffer = new StringHolder("");
remote24x7.getJobList(buffer, new Boolean(false));

// Change start time for job #12 to 6:00 AM
remote24x7.setJobProperty("12", "START_TIME", "6:00");
```

4. Disconenct from the server

```
// Done. Close session
remote24x7.closeSession();
```


Main Class – j24x7

Constants

static int RC_ERROR static int RC_WARNING static int RC_INFO	These constants can be used with the logMessage method for the message Severity parameter. Use RC_ERROR to write an error message. Use RC_WARNING to write a warning message. Use RC_INFO to write all other informational messages.
static int SECURITY_OFF static int ROLE_ADMIN static int ROLE_STANDARD static int ROLE_RESTRICTED static int ROLE_GUEST	These constants can be used with the getUserRole method for the return value. For more details, see description of the getUserRole method.

Fields

All fields are read-only. Do not attempt to modify their values directly.

public boolean connectedToRemote	Indicates session status TRUE – session is opened FALSE – session is closed See openSession method for more details.
--	---

Constructor

public j24x7()

The constructor for j24x7 class has no parameters.

Public Methods

All supported Java interface methods are described in the following topics. For your convenience methods are listed in alphabetical order.

addAgentProfile

**Integer addAgentProfile (String ProfileName,
 String ComMethod,
 String Location,
 String Port,
 String Options) throws RemoteException**

The **addAgentProfile** method creates new 24x7 Remote Agent or 24x7 Master Scheduler profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

profileName	Name of the new Remote Agent Profile. This name must be unique.
comMethod	Name of the communication driver to be used for the connections to the Agent. This parameter has been deprecated. The only valid value is WinSock.
location	The location of the Agent. Specify one of the following values: <ul style="list-style-type: none">• The IP address (for example, 199.99.99.91)• The host name of the remote computer (network computer name in workgroup)• LocalHost (this indicates that the Agent resides on the local machine)
port	Specify the port number for the Agent (for example, 1096). Each server application requires a unique port number on the server machine. If you specify a port number, select a number that is greater than 4096 and less than 65536.
options	This parameter has been deprecated. Specify an empty value.

See also:

[updateAgentProfile](#)
[deleteAgentProfile](#)
[getAgentList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.addAgentProfile( "Print Server", "Winsock",  
                                     "192.168.100.1", "1096", "");  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

addCalendar

**Integer addCalendar (String Name,
Boolean Exclusive,
IntegerHolder CalendarID) throws RemoteException**

The **addCalendar** method creates new business calendar.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Name	Name of the new Business Calendar. This name should be unique.
Exclusive	Type of the calendar – exclusive means the calendar contains non-business dates only; inclusive means that the calendar contains business dates only
CalendarID	An IntegerHolder class variable used as an output parameter. In case of successful method execution, the value of the CalendarID parameter is populated with the unique numeric id of the new calendar. This ID can be used in the following code to add dates to the created calendar.
Description	Holiday name or description limited by 50 characters.

See also:

[deleteCalendar](#)
[updateCalendar](#)
[addCalendarDay](#)
[getCalendarList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

IntegerHolder calId = new IntegerHolder();
Integer retCode = obj.addCalendar( "Twice a Month Calendar"
                                new Boolean(false), calId );
if (retCode.intValue() != 1) {
    /* Print error /
    System.out.println( obj.getLastErrorMessage() );
    return;
}

// Print new calendar id
System.out.println( "New calendar ID: " + calId.getValue() );
// add 2 days to the new calendar
addCalendarDay( calId, 2011, 2, 10, "First monthly report" );
```

```
addCalendarDay( calId, 2011, 2, 15, "Second monthly report " );
```

addCalendarDay

Integer addCalendarDay (Integer CalendarID, Integer Year, Integer Month, Integer Day, String Description) throws RemoteException

The **addCalendarDay** method adds new date to the specified business calendar.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

CalendarID	Unique ID of the target Business Calendar
Year	Year part of the date. Supported range: 1900-3000
Month	Month part of the holiday date. Supported range: 1-12
Day	Day part of the holiday date. Supported range: 1-31. Day must be a valid day for the specified Year and Month.
Description	Optional description of the date.

See also:

[deleteCalendar](#)
[deleteCalendarDay](#)
[getCalendarDays](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

IntegerHolder calId = new IntegerHolder();
Integer retCode = obj.addCalendar( "Twice a Month Calendar"
                                new Boolean(false), calId );
if (retCode.intValue() != 1) {
    /* Print error /
    System.out.println( obj.getLastErrorMessage() );
    return;
}

// Print new calendar id
System.out.println( "New calendar ID: " + calId.getValue() );
// add 2 days to the new calendar
addCalendarDay( calId, 2011, 2, 10, "First monthly report" );
addCalendarDay( calId, 2011, 2, 15, "Second monthly report " );
```

addDatabaseProfile

**Integer addDatabaseProfile (String ProfileName,
String DatabaseDriver,
String Server,
String DatabaseName,
Boolean AutoCommit,
String User,
String Password) throws RemoteException**

The **addDatabaseProfile** method creates new database profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of the new Database Profile. This name should be unique.
DatabaseDriver	The name of the database driver that you want to use for connection. This name must much any supported DBMS name as they are specified in the Database Profiles dialog in 24x7 Scheduler (see Tools/Database Profiles menu).
Server	(Optional) The database server name. The format for the name differs for different database systems. Specify an empty string "" if you connect to a local database and the server name is not required for connection. If you connect using ODBC (DatabaseDriver="ODBC") specify name of the desired ODBC profile as the Server name.
DatabaseName	(Optional) The name of the database. Specify an empty string "" if the database name is not required for connection.
AutoCommit	AutoCommit mode. Some databases support AutoCommit mode. Specify TRUE to turn AutoCommit on or specify FALSE otherwise. If DBMS does not support AutoCommit then this parameter is ignored.
User	The name of the user to logon to the database.
Password	The password to use to logon to the database.

See also:

[updateDatabaseProfile](#)
[getDatabaseProfile](#)
[deleteDatabaseProfile](#)
[getDatabaseList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.addDatabaseProfile( "Prod Server",
    "SQL Server", "Neptune",
    "warehouse", new Boolean(true), "sa", "*****");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```


addHoliday

**Integer addHoliday (Integer Year,
Integer Month,
Integer Day,
String Description) throws RemoteException**

This method adds new exception date to the **[default]** calendar.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Year	Year part of the holiday date. Supported range: 1900-3000
Month	Month part of the holiday date. Supported range: 1-12
Day	Day part of the holiday date. Supported range: 1-31. Day must be a valid day for the specified Year and Month.
Description	Holiday name or description limited by 50 characters.

See also:

[deleteHoliday](#)
[getHolidays](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.addHoliday( new Integer(2003), new Integer(11),
                                new Integer(27), "Thanksgiving Day");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

addJobQueue

**Integer addJobQueue (String QueueName,
Integer MaxSize) throws RemoteException**

The **addJobQueue** method creates new job queue.



Note: This method has been deprecated. Use [addJobQueueEx](#) method.



Note: The new queue is available immediately to run jobs.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Name of the new Job Queue. This name should be unique.
MaxSize	Maximum queue size in Mbytes. 1 Mbytes should be sufficient in most cases.

See also:

[addJobQueueEx](#)
[updateJobQueue](#)
[getJobQueue](#)
[deleteJobQueue](#)
[getJobQueueList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
Integer retCode = obj.addJobQueue( "Payroll jobs", new Integer(1));  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```

addJobQueueEx

**Integer addJobQueueEx (String QueueName,
Integer MaxSize,
Integer MaxJobs,
Boolean NearCapacityAlerts,
String EmailSender,
String EmailPassword,
String EmailRecipients) throws RemoteException**

The **addJobQueueEx** method creates new job queue.



Note: The new queue is available immediately to run jobs.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Name of the new Job Queue. This name should be unique.
MaxSize	Maximum allowed disk space usage in Mbytes. 1 Mbytes should be sufficient in most cases.
MaxJobs	Maximum number of jobs allowed in a queue at any moment in time. The count includes both running and queued jobs, including jobs placed on hold. Specify zero value for unlimited number of jobs.
NearCapacityAlerts	Enables sending email alerts in case a queue is at or near its maximum capacity. The capacity is controlled by MaxSize and MaxJobs parameters
EmailSender	Email account (for MAPI email protocol) or email address (for SMTP email protocol) to use for sending "near capacity" and "over capacity" email alerts.
EmailPassword	Email password to use for authenticating email sender to the email server. Specify an empty string or null value if password is not required.
EmailRecipients	Comma-separated list of email recipient addresses for "near capacity" and "over capacity" email alerts.

See also:

[updateJobQueueEx](#)

[getJobQueue](#)

[deleteJobQueue](#)

[getJobQueueList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

Integer retCode = obj.addJobQueueEx( "Payroll jobs",
    new Integer(1), new Integer(200), new Boolean(true)
    "alerter@domain.com", null, "helpdesk@domain.com" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

addMQProfile

**Integer addMQProfile (String ProfileName,
String InterfaceName,
String Endpoint,
String VirtualHost,
String Account,
String Region,
String QueueOrTopicName,
String UserOrKey,
String Password,
String OtherProperties) throws RemoteException**

The **addMQProfile** method creates new message queue (MQ) profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of the new profile. This name should be unique.
InterfaceName	MQ type required for the MQ service connections. The supported names are: <ul style="list-style-type: none">• Apache Kafka MQ• Azure Queue Storage• Amazon SQS• RabbitMQ
EndPoint	The endpoint value format is MQ type specific. See MQ profiles created using 24x7 consoles for sample values.
VirtualHost	RabbitMQ's virtual host. This value isn't used with other MQ types and can be set to an empty string.
Account	An account number required for Azure Queue Storage and Amazon SQS. This value isn't used with other MQ types and can be set to an empty string.
Region	AWS region in which the endpoint is located. This value isn't used with other MQ types and can be set to an empty string.
QueueOrTopicName	Topic name for Apache Kafka, and queue name for all other MQ types.
UserOrKey	Either a user name or an authentication key, the usage depends on MQ type.
Password	Either a password or a secret key, the usage depends on MQ type.
OtherProperties	Multi-line key-value list of other properties. Key names are MQ type specific

See also:

[updateMQProfile](#)
[getMQProfile](#)
[deleteMQProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

• Integer retCode = obj.addMQProfile( "KafkaSampleProfile",
    "Apache Kafka MQ", "kafka.us-east-2.amazonaws.com", "",
    "", "", "SampleTopic", "my_user_name",
    "my_password", "");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

addTemplate

Integer addTemplate (String Section,
String Name,
String Template,
String Text) throws RemoteException

The **addTemplate** method creates new job template.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Section	Name of the template section in the catalog. addTemplate automatically creates the specified Section if it does not yet exist.
Name	Name of the new template. This name must be unique within the Section .
Template	Name of the new template file. The file name must be unique.
Text	Template text.

See also:

[deleteTemplate](#)
[setTemplate](#)
[getTemplate](#)
[getJobTemplateData](#)
[getTemplateCatalog](#)
[setJobTemplateData](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Obtain template code from the submitted form
String TemplateCode = request.getParameter("TEMPLATE_CODE");
// Create new template using template code
Integer retCode = obj.addTemplate( "FTP jobs",
                                "Upload Monthly Reports",
                                "%HOME%\\Templates\\ftp_month_reports.ini",
                                TemplateCode );

if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

changeFolder

Integer changeFolder (**String JobID**,
String TargetFolderID) throws RemoteException

The **changeFolder** method moves a job with the specified **JobID** to a job folder specified by the **TargetFolderID** value.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
TargetFolderID	Folder ID converted to string or folder name.

See also:

[createJob](#)
[setJobProperty](#)
[createFolder](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Move job #624 to folder with id -1
Integer retCode = obj.changeFolder( "624", "-7");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastError() );


// Move job "My job" to folder "My folder"
retCode = obj.changeFolder( "My job", "My folder");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastError() );
```


closeSession

Integer closeSession () throws RemoteException

The **closeSession** method closes work session with the 24x7 Master Scheduler or 24x7 Remote Agent and terminates the connection. The session must be previously opened using the [openSession](#) method.

The **closeSession** method does not destroy **j24x7 class**. The same class instance can be reused to open another session.

 If you destroy j24x7 class instance and a session is still open, the j24x7 class automatically calls **closeSession**. In web based applications object clean up and destruction is often left to the web server so that in such applications you usually do not need to call **closeSession** explicitly.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters: None

See also:

[openSession](#)
[Using 24x7 Java API in Your Program](#)

Example:

```
// create j24x7 class
j24x7 obj = new j24x7();
// open session
obj.openSession( "LocalHost", new Integer(1096), "john_doe",
                "password", "00000-00000-00000");

// ... do something here ...

// close session
obj.closeSession();
```

createFolder

**Integer createFolder (String FolderName,
String FolderDescription,
IntegerHolder FolderID) throws RemoteException**

The **createFolder** method creates new job folder.

Return: Returns 1 if the method succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, **FolderID** parameter is populated with the ID of the new folder.

Parameters:

FolderName	The name of the new folder
FolderDescription	The description that you want to attach to the folder so other people can see how this folder should be used. You can specify an empty string if no description is needed.
FolderID	An IntegerHolder class variable used as an output parameter. In case of successful method execution, the ID of the newly created folder is copied to the FolderID parameter. This value is unique and it can be used in other methods as a unique folder identifier.

See also:

[deleteFolder](#)
[getFolderProperty](#)
[setFolderProperty](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.createFolder( "Weekly Payroll",  
    "Store payroll related jobs in this folder", buffer);  
if (retCode.intValue() != 1)  
    /* Print error */ System.out.println( obj.getLastError() );  
else  
    System.out.println("Weekly Payroll folder id is " + buffer);
```

createJob

Integer createJob (String JobDefinition) throws RemoteException

The **createJob** method creates new job and adds it to the active job pool.

Return: Job ID of the created job as a positive number or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobDefinition	<p>The Job definition in JDL format. For a wide variety of examples see job templates available in the [24x7 install directory]\Template subdirectory. The default path is <i>C:\Program Files\24x7 Automation 3\Template</i>.</p> <p>For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.</p>
---------------	--

See also:

[setJobProperty](#)
[setJobTemplateData](#)
[changeFolder](#)
[updateJob](#)
[disableJob](#)
[protectJob](#)
[runJob](#)

Example 1:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Get job definition from the submitted form
String JobDefinition = request.getParameter("JOB_DEF");
// create new job
Integer retCode = obj.createJob( JobDefinition );
if (retCode < 0)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
else
    System.out.println("Job ID: " + retCode.toString());
```

Example 2:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// create job definition
String jobDefinition = "NAME=My New Job\r\n" +
    "COMMAND=c:\\winnt\\notepad.exe\r\n" +
    "SCHEDULE_TYPE=D\r\n" +
    "FRIDAY=Y\r\n" +
    "SUNDAY=Y\r\n" +
    "MONDAY=Y\r\n" +
```

```
"TUESDAY=Y\r\n" +
"WEDNESDAY=Y\r\n" +
"THURSDAY=Y\r\n" +
"SATURDAY=Y\r\n" +
"START_TIME=10:00\r\n" +
"ASYNC=N\r\n" +
"LOG=Y\r\n" +
"DESCRIPTION=job description\r\n" +
"JOB_TYPE=P\r\n" +
"FOLDER=1\r\n" +
"QUEUE=[default]";

// create new job
Integer retCode = obj.createJob( JobDefinition );
if (retCode < 0)
    /* Print error */
    System.out.println( obj.getLastError() );
else
    System.out.println("Job ID: " + retCode.toString());

// close session here ...
```

deleteAgentProfile

Integer deleteAgentProfile (String ProfileName) throws RemoteException

The **deleteAgentProfile** method deletes existing profile of 24x7 Remote Agent or 24x7 Master Scheduler.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of an existing Remote Agent Profile.
-------------	---

See also:

[addAgentProfile](#)
[updateAgentProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.deleteAgentProfile( "QA Server" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

deleteCalendar

Integer deleteCalendar (Integer CalendarID) throws RemoteException

The **deleteCalendar** method deletes business calendar from 24x7 settings.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

CalendarID	Numeric ID of the business calendar to be deleted.
------------	--

See also:

[addCalendar](#)
[getCalendar](#)
[deleteCalendarDay](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteCalendar( new Integer(25) );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```

deleteCalendarDay

**Integer deleteCalendarDay (Integer CalendarID
Integer Year,
Integer Month,
Integer Day) throws RemoteException**

The **deleteCalendarDay** method deletes the specified date from the specified business calendar.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

CalendarID	Numeric ID of the business calendar to be deleted.
------------	--

See also:

[addCalendarDay](#)
[getCalendarDays](#)
[deleteCalendar](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
// delete 10-Feb-2011 from calendar #25  
Integer retCode = obj.deleteCalendarDay( new Integer(25),  
    new Integer(2011), new Integer(2), new Integer(10) );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

deleteDatabaseProfile

Integer deleteDatabaseProfile (String ProfileName) throws RemoteException

The **deleteDatabaseProfile** method deletes existing database profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of an existing Database Profile.
-------------	---------------------------------------

See also:

[addDatabaseProfile](#)
[updateDatabaseProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteDatabaseProfile( "QA2" );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```


deleteFolder

Integer deleteFolder (String FolderID) throws RemoteException

The **deleteFolder** method deletes job folder from 24x7 Job Database. If the specified folder contains jobs, all these jobs are also deleted.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

FolderID	Folder ID converted to string or folder name.
----------	---

See also:

[createFolder](#)
[setFolderProperty](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.deleteFolder( "Payroll jobs" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

deleteHoliday

Integer deleteHoliday (Integer Year, Integer Month, Integer Day) throws RemoteException

This method deletes matching date from the **[default]** calendar.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Year	Year part of the holiday date. Supported range 1900-3000
Month	Month part of the holiday date. Supported range 1-12
Day	Day part of the holiday date. Supported range 1-31. Day must be a valid day for the specified Year and Month.

See also:

[addHoliday](#)
[getHolidays](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteHoliday( 2003, 11, 25 );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

deleteJob

Integer deleteJob (String JobID) throws RemoteException

The **deleteJob** method deletes job from both the active job pool and the 24x7 Job Database.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
-------	---

See also:

[disableJob](#)
[createJob](#)
[deleteFolder](#)


Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteJob( "246" );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```

deleteJobQueue

Integer deleteJobQueue (String QueueName) throws RemoteException

The **deleteJobQueue** method deletes existing job queue.

 **Note:** A queue can be deleted only if it is empty. The deletion takes immediate effect, or raises an exception if the specified queue is not empty.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Name of an existing Job Queue.
-----------	--------------------------------

See also:

[addJobQueue](#)
[updateJobQueue](#)
[getJobQueue](#)
[getJobQueueList](#)


Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteJobQueue( "Weekly processing" );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

deleteMQProfile

Integer deleteMQProfile(String ProfileName) throws RemoteException

The **deleteMQProfile** method deletes existing MQ profile.

 **Note:** A MQ profile can be deleted only if it is not assigned to any job. The deletion takes immediate effect, or raises an exception if the specified profile can't be deleted.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of an existing MQ profile.
-------------	---------------------------------

See also:

[addMQProfile](#)
[updateMQProfile](#)
[getMQProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteMQProfile( "KafkaSampleTopic" );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```

deleteTemplate

**Integer deleteTemplate (String Section,
String Name,
Boolean DeleteFile) throws RemoteException**

The **deleteTemplate** method deletes template from the template catalog (TEMPLATE.INI) and optionally deletes the template file.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Section	Name of the template section in the template catalog from which to delete the template specified by Name parameter.
Name	Name of the template to be deleted.
DeleteFile	If DeleteFile parameter is set to TRUE the template source file is also deleted. If DeleteFile is set to FALSE the template name is deleted from the catalog, but the file is left on disk.

See also:

[addTemplate](#)
[getTemplate](#)
[getTemplateCatalog](#)
[setTemplate](#)
[setJobTemplateData](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.deleteTemplate( "Web reports",  
                                     "FTP upload", new Boolean(false) );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

disableJob

Integer disableJob (String JobID) throws RemoteException

The **disableJob** method disables job and removes it from both the active job pool. The job is not deleted from the 24x7 Job Database and can be later enabled again.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name
-------	--

See also:

[enableJob](#)

[deleteJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.disableJob( "246" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

enableJob

Integer enableJob (String JobID) throws RemoteException

The **enableJob** method enables job and places it backs to the active job pool.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
-------	---

See also:

[disableJob](#)
[deleteJob](#)

Example:


```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.enableJob( "246" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastError() );
```


getAgentList

Integer getAgentList (**StringHolder Buffer**,
Boolean HTMLFormat) throws **RemoteException**

The **getAgentList** method obtains list of names of configured 24x7 Remote Agent Profiles.

If the method succeeds, **Buffer** variable is populated with the name list. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the profile list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of 24x7 Remote Agent Profile names. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[addAgentProfile](#)
[deleteAgentProfile](#)
[getAgentProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getAgentList( buffer, new Boolean(true) );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print agent list
    System.out.println( buffer.getValue() );
```

getAgentProfile

**Integer getAgentProfile (String ProfileName,
StringHolder ComMethod,
StringHolder Location,
StringHolder Port,
StringHolder Options) throws RemoteException**

The **getAgentProfile** method retrieves properties of an existing 24x7 Remote Agent profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, all StringHolder parameters are populated with profile properties.

Parameters:

ProfileName	Remote Agent profile name.
ComMethod	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the communication driver is copied to the ComMethod parameter.
Location	A StringHolder class variable used as an output parameter. In case of successful method execution, location of the agent is copied to the Location parameter.
Port	A StringHolder class variable used as an output parameter. In case of successful method execution, the communication port number is copied to the Port parameter. Use <code>getValue()</code> and <code>toInteger()</code> methods to convert the returned value to a number.
Options	A StringHolder class variable used as an output parameter. In case of successful method execution, the string value containing additional communications options is copied to the Options parameter.

See also:

[addAgentProfile](#)
[updateAgentProfile](#)
[deleteAgentProfile](#)
[getAgentList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder method = new StringHolder("");  
StringHolder location = new StringHolder("");  
StringHolder port = new StringHolder("");
```

```
StringHolder options = new StringHolder("");

// get profile properties as a tab-separated string
Integer retCode = obj.getAgentProfile( "Oracle Agent",
                                       method, location, port, options );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
{
    System.out.println("Profile: Oracle Agent");
    System.out.println("Communication Method: " +
                      method.getValue());
    System.out.println("Host: " + location.getValue());
    System.out.println("Port: " + port.getValue());
    System.out.println("Options: " + options.getValue());
}
```

getCalendar

**Integer getCalendar(Integer CalendarID,
StringHolder Name,
BooleanHolder Exclusive) throws RemoteException**

The **getCalendar** method retrieves properties of an existing Business Calendar.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, Name and Exclusive parameters are populated with calendar properties.

Parameters:

CalendarID	Numeric ID of the business calendar whose properties to return.
Name	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the specified calendar is copied to the Name parameter.
Exclusive	A BooleanHolder class variable used as an output parameter. In case of successful method execution, type of the calendar is copied to the Exclusive parameter.

See also:

[getCalendarList](#)
[getCalendarDays](#)
[addCalendar](#)
[deleteCalendar](#)
[updateCalendar](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder name = new StringHolder("");
BooleanHolder excl = new BooleanHolder(false);

// get properties of calendar #25
Integer retCode = obj.getCalendar( 25, name, excl );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
{
    System.out.println("Calendar name: " + name.getValue());
}
```

```
        System.out.println("Is exclusive: " + excl.getValue());  
    }
```


getCalendarDays

Integer getCalendarDays(Integer CalendarID, Integer Year, StringHolder Buffer, Boolean HTMLFormat) throws RemoteException

The **getCalendar** method retrieves properties of an existing Business Calendar.

 **Important Note:** This method is only valid for 24x7 Scheduler Multi-platform Edition.

If the method succeeds, **Buffer** variable is populated with the list of calendar dates and their properties. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each date entry on a new line. Each line contains date year, month, day, and description separated by tab characters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

CalendarID	Numeric ID of the business calendar whose days to return.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the list is copied to the Buffer .						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of calendar days. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getCalendarList](#)
[getCalendar](#)
[addCalendarDay](#)
[deleteCalendarDay](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder buffer = new StringHolder("");

// get days for calendar #25
Integer retCode = obj.getCalendarDays( 25, buffer );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
{
    // parse and convert output values and print them
    String[] date_entries = buffer.getValue().split("\n");
    for (int i = 0; i < date_entries.length; i++) {
        String[] elements = date_entries[i].split("\t");
        System.out.println("Date: " +
            new Date(
                Integer.parseInt(elements[0]),
                Integer.parseInt(elements[1]),
                Integer.parseInt(elements[2])
            )
        );
        System.out.println("Description: " + elements[3]);
    }
}
```


getCalendarList

Integer getCalendarList (**StringHolder Buffer**,
Boolean HTMLFormat) throws RemoteException

The **getCalendarList** method obtains list of all job calendars.

 **Important Note:** This method is only valid for 24x7 Scheduler Multi-platform Edition.

If the method succeeds, **Buffer** variable is populated with the list of calendar Ids, names, and types. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. Each line contains calendar ID, name, and type separated by tab characters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the calendar list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[addCalendar](#)
[deleteCalendar](#)
[getCalendar](#)
[getCalendarDays](#)
[updateCalendar](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getCalendarList(buffer, new Boolean(true) );  
if (retCode.intValue() != 1) {  
    // Print error  
    System.out.println( obj.getLastErrorMessage() );  
}
```




```
// Print calendar names and properties
String[] cal_entries = buffer.getValue().split("\n");
for (int i = 0; i < cal_entries.length; i++) {
    String[] elements = cal_entries[i].split("\t");
    System.out.println( "ID: " + elements[0]);
    System.out.println( "Name: " + elements[1]);
    System.out.println( "Exclusive: " + elements[2]);
}
```

getDatabaseList

Integer getDatabaseList (StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getDatabaseList** method obtains list of names of configured Database Profiles.

If the method succeeds, **Buffer** variable is populated with the list of database profile names. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the profile list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of Database Profile names. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[addDatabaseProfile](#)
[deleteDatabaseProfile](#)
[getDatabaseProfile](#)
[getDriverList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getDatabaseList( buffer, new Boolean(true) );  
if (retCode.intValue() != 1)  
    // Print error  
    System.out.println( obj.getLastErrorMessage() );  
else  
    // Print agent list  
    System.out.println( buffer.getValue() );
```

getDatabaseProfile

Integer getDatabaseProfile (**String ProfileName,**
StringHolder DatabaseDriver,
StringHolder Server,
StringHolder DatabaseName,
BooleanHolder AutoCommit,
StringHolder User,
StringHolder Password) throws RemoteException

The **getDatabaseProfile** method retrieves properties of an existing database profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, all StringHolder parameters are populated with profile properties.

Parameters:

ProfileName	Database profile name.
DatabaseDriver	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the database driver is copied to the DatabaseDriver parameter.
Server	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the database server is copied to the Server parameter.
DatabaseName	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the database is copied to the DatabaseName parameter.
AutoCommit	A BooleanHolder class variable used as an output parameter. In case of successful method execution, state of the AutoCommit mode is copied to the AutoCommit parameter.
User	A StringHolder class variable used as an output parameter. In case of successful method execution, name of the user to logon to the database is copied to the User parameter.
Password	A StringHolder class variable used as an output parameter. In case of successful method execution, password used to logon to the database is copied to the Password parameter.

See also:

[addDatabaseProfile](#)
[updateDatabaseProfile](#)
[deleteDatabaseProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder databaseDriver = new StringHolder("");
StringHolder server = new StringHolder("");
StringHolder databaseName = new StringHolder("");
StringHolder user = new StringHolder("");
StringHolder password = new StringHolder("");
BooleanHolder autoCommit = new BooleanHolder(new Boolean(false));


// get profile properties
Integer retCode = obj.getDatabaseProfile( "Prod Server",
                                         databaseDriver, server, databaseName,
                                         autoCommit, user, password );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
{
    // Print profile properties
    System.out.println("Profile Properties");
    System.out.println("Profile name: Prod Server");
    System.out.println("Driver: " + databaseDriver.getValue());
    System.out.println("Server Name: " + server.getValue());
    System.out.println("Database Name: " +
                      databaseName.getValue());
    System.out.println("AutoCommit Mode: " +
                      autoCommit.getValue().toString());
    System.out.println("User: " + user.getValue());
    System.out.println("Password: " + password.getValue());
}
```

getDriverList

Integer getDriverList (**StringHolder Buffer**,
Boolean HTMLFormat) throws **RemoteException**

The **getDriverList** method obtains list of database interfaces/drivers installed and configured in the settings of the remote 24x7 Scheduler.

If the method succeeds, **Buffer** variable is populated with the names of database drivers. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each database driver on a new line.

 **Note:** You can use [getToken](#) method to parse the returned text and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the database drivers list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getDatabaseList](#)
[getDatabaseProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder buffer = new StringHolder("");
Integer retCode = obj.getDriverList( buffer, new Boolean(false) );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print returned driver list
    System.out.println( buffer.getValue() );
```

getEventLog

Integer getEventLog (String LogName, Integer Records, StringHolder Buffer, Boolean HTMLFormat) throws RemoteException

The **getEventLog** method obtains log records from a Windows Event Log




Important Note: This method has been deprecated and is not longer supported.

getFolderList

Integer getFolderList (StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getFolderList** method obtains list of all job folders.

If the method succeeds, **Buffer** variable is populated with the list of job folder IDs and names. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. Each line contains folder ID and name separated by a tab character.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the folder list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[createFolder](#)
[deleteFolder](#)
[setFolderProperty](#)
[getFolderProperty](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getFolderList(buffer, new Boolean(true) );  
if (retCode.intValue() != 1)  
    // Print error  
    System.out.println( obj.getLastErrorMessage() );  
else  
    // Print folder list  
    System.out.println( buffer.getValue() );
```

getFolderProperty

**Integer getFolderProperty (String FolderID,
String PropertyName,
StringHolder Buffer) throws RemoteException**

The **getFolderProperty** method obtains value of the specified job **PropertyName** for the specified **JobID**. The **PropertyName** must be a valid JDL job property name. The following folder properties are supported: "FOLDER_NAME", "DESCRIPTION", "FOLDER", "MODIFY_TIME", "MODIFY_USER", "MODIFY_TERMINAL"

If the method succeeds, **Buffer** variable is populated with the value of the folder property.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

FolderID	Folder ID converted to string or Folder name.
PropertyName	The folder property name.
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the property value is copied to the Buffer .

See also:

[createFolder](#)
[setFolderProperty](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder buffer = new StringHolder("");
Integer retCode = obj.getFolderProperty( "-12",
                                         "FOLDER_NAME", buffer );

if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print folder name
    System.out.println( buffer.getValue() );
```


getForecast

Integer getForecast (**StringHolder Buffer**,
Boolean HTMLFormat) throws **RemoteException**

The **getForecast** method obtains 7-days job forecast.

If the method succeeds, **Buffer** variable is populated with job forecast report. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of forecasted jobs. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getMonitor](#)
[getJobQueueMonitor](#)

Example:


```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getForecast( buffer, new Boolean(true) );  
if (retCode.intValue() != 1)  
    // Print error  
    System.out.println( obj.getLastErrorMessage() );  
else  
    // Print report  
    System.out.println( buffer.getValue() );
```

getGlobalVariable

Integer getGlobalVariable (String VariableName,
StringHolder Buffer) throws RemoteException

The **getGlobalVariable** method obtains value of the global variable on the target 24x7 Remote Agent or 24x7 Master Scheduler.

If the method succeeds, **Buffer** variable is populated with the returned value.

 **Important Note:** This method is deprecated and is no longer supported. Global shared memory is no longer available for storing ephemeral variables. Save values to files or databases instead


getHolidays

**Integer getHolidays (Integer Year,
StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException**

The **getHolidays** method obtains list of holidays for the specified **Year**.

This method returns dates from the **[default]** calendar.

If the method succeeds, **Buffer** variable is populated with the list of holidays. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. Each line contains holiday date and description separated by tab characters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Year	The year for which you want to obtain the list of holidays.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the holiday list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of Holidays. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[addHoliday](#)
[deleteHoliday](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder buffer = new StringHolder("");
Integer retCode = obj.getHolidays( new Integer(2003), buffer,
                                   new Boolean(true) );

if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
```

```
else
    // Print holidays
    System.out.println( buffer.getValue() );
```

getJobDefinition

**Integer getJobDefinition (String JobID,
StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException**

The **getJobDefinition** method obtains values of all job properties for the specified **JobID**.

If the method succeeds, **Buffer** variable is populated with the job definition. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as an HTML table. When displayed in a Web browser the table looks like the Job Properties View presented in the 24x7 GUI. If **HTMLFormat** is FALSE, the **Buffer** variable is populated with a plain text containing all job properties in JDL file format. The returned data is compatible with the [createJob](#) method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job properties are copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[createJob](#)
[getJobProperty](#)
[getFolderProperty](#)
[getJobTemplateData](#)
[updateJob](#)

Example:


```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getJobDefinition( "Stock Tracker Job",  
                                     buffer, new Boolean(true) );  
if (retCode.intValue() != 1)  
    // Print error  
    System.out.println( obj.getLastErrorMessage() );  
else  
    // Get returned definition  
    String JobDef = buffer.getValue();
```

getJobList

Integer getJobList (StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getJobList** method obtains list of all jobs.

If the **HTMLFormat** is TRUE, **Buffer** variable is populated with a text formatted as an HTML table; otherwise the **Buffer** variable is populated with a plain text containing all job IDs and names. Each job appears on a new line. Job IDs and names are separated by tab characters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Sample output (with **HTMLFormat** set to FALSE):

```
1      test job 1
5      Backup job
4      Database export
27     Database replication
```

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getJobListEx](#)
[getFolderList](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Obtain job list as HTML table
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getJobList( buffer, new Boolean(true) );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
```

```
else
    // Print job list
    System.out.println( buffer.getValue() );
```

getJobListEx


**Integer getJobListEx (StringHolder Buffer,
Boolean HTMLFormat,
String PropertyList) throws RemoteException**

The **getJobListEx** method obtains list of all jobs and optionally their properties.

The **getJobListEx** is an extended version of [getJobList](#) method. **getJobListEx** allows specifying additional job properties for inclusion in the returned job list. This generally provides much better performance as compared to first calling **getJobList** and then calling [getJobProperty](#) method for every returned job in order to obtain job properties.

Job ID and Job Name properties are always included in the returned list that is why they need not be specified in the **PropertyList** parameter. Use **PropertyList** parameter to specify additional JDL properties. Separate multiple properties by commas. For example: "FOLDER_NAME,DISABLED,MODIFY_TIME".

If the **HTMLFormat** is TRUE, **Buffer** variable is populated with a text formatted as an HTML table; otherwise the **Buffer** variable is populated with a plain text containing all job IDs and names and other job parameters specified by **PropertyList** . Each job appears on a new line. Job IDs, names and additional properties are separated by tab characters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Sample output (with **HTMLFormat** set to FALSE and **PropertyList** parameter set to "FOLDER_NAME,DISABLED"):

1	test job 1	Backup jobs folder	Y
5	Backup job	Backup jobs folder	N
4	Database export	Database jobs	N
27	Database replication	Database jobs	N

If the **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as an HTML table; otherwise the **Buffer** variable is populated with a plain text containing all job IDs and names. Each job appears on a new line. Job IDs, names, and additional properties specified by **PropertyList** are separated by tab characters.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

PropertyList	<p>A comma separated list of job property names.</p> <p>For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.</p>
--------------	--

See also:

[getJobList](#)
[getFolderList](#)
[getJobProperty](#)
[getJobPropertyEx](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Obtain job list as HTML table
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getJobListEx( buffer, new Boolean(true),
                                   "JOB_TYPE,DISABLED" );

if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print job list
    System.out.println( buffer.getValue() );
```

getJobLog

Integer getJobLog (**String JobID,**
StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getJobLog** method obtains all log records for the specified **JobID**.

If the **HTMLFormat** is TRUE, **Buffer** variable is populated with a text formatted as an HTML table. When displayed in a Web browser the table looks like the Job Log in the 24x7 GUI. If **HTMLFormat** is FALSE, the **Buffer** variable is populated with a plain text containing log records. Each record appears on a new line with columns separated by tab characters. The format of the text is the same as format of the job log file SCHEDULE.LOG.



Notes:

- To obtain the entire log for all jobs specify "0" for the **JobID** parameter.
- You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job log is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the result. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getForecast](#)
[getMonitor](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
// Obtain job log for job #285 as HTML table  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getJobLog( "DoUpdates Job",  
                                buffer, new Boolean(true) );
```

```
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastError() );
else
    // Print log
    System.out.println( buffer.getValue() );
```

getJobQueueSize

**Integer getJobQueueSize (String QueueName,
IntegerHolder MaxSize) throws RemoteException**

The **getJobQueueSize** method retrieves maximum size of an existing job queue.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, **MaxSize** parameter is populated with job queue size value.

Parameters:

QueueName	Job Queue name.
MaxSize	A IntegerHolder class variable used as an output parameter. In case of successful method execution, the maximum job queue size is copied to the MaxSize parameter.

See also:

[addJobQueue](#)
[updateJobQueue](#)
[deleteJobQueue](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...


// get queue properties
IntegerHolder maxSize = new IntegerHolder(new Integer(0));
Integer retCode = obj.getJobQueueSize( "Weekly jobs", maxSize );
if (retCode.intValue() != 1)
{
    // Print error
    System.out.println( obj.getLastErrorMessage() );
}
else
{
    // Print queue properties
    AnsiString queueSize = new String(maxSize.getValue());
    System.out.println("Queue Properties");
    System.out.println("Queue name: Weekly jobs");
    System.out.println("Maximum queue Size: " + queueSize + " MB");
}
```

getJobQueueList

Integer getJobQueueList(StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getJobQueueList** method obtains list of names of configured Job Queues.

If **HTMLFormat** is TRUE, **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the queue list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of 24x7 Job Queue names. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getJobQueue](#)
[getJobQueueMonitor](#)
[addJobQueue](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getJobQueueList( buffer, new Boolean(false) );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error  
else  
    System.out.println( buffer.getValue() ); // Print list of  
queues
```

getJobQueueMonitor

**Integer getJobQueueMonitor (String QueueName,
StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException**

The **getJobQueueMonitor** method obtains list of running and waiting jobs in the specified job queue. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. Each line contains the following tab-separated columns: queue name, unique job run number for that queue, job submission date and time, job priority (High, Normal or Low), job status (Awaiting, Running or Held), job ID, job name, job start time (for running jobs only), size of uncompressed job definition and linked job deployment data, size of compressed job definition and linked job deployment data, compression ratio. The same columns are available in the graphical version of the job queue monitor.



Note: You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Job Queue name.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job monitor data is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of forecasted jobs. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

Sample queue monitor screenshot



Queue	Job #	Time Job Queued	Priority	Status	Job ID	Job Name	Time Job Star
[default]	42	1/21/2004 12:26:56	High	Running	685	Verify New Orders	1/21/2004 12:26:59
[default]	43	1/21/2004 12:27:28	Normal	Awaiting	687	Daily DF Cleanup	
[default]	44	1/21/2004 12:28:21	Normal	Awaiting	686	Performance vs. Plan Report	

See also:

[getForecast](#)
[getMonitor](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getJobQueueMonitor( "Weekly Jobs", buffer,
                                         new Boolean(true) );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
    System.out.println( buffer.getValue() ); // Print monitor data
                                         // as HTML table
```

getJobProperty

**Integer getJobProperty (String JobID,
String PropertyName,
StringHolder Buffer) throws RemoteException**

The **getJobProperty** method obtains value of the specified job property. The **PropertyName** must be a valid JDL job property name. For information on supported property names and their values see "Job Property Names" topic in the 24x7 on-line help file.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name. Specify ID or name of the job whose property your want to retrieve.
PropertyName	The job property name. Specify name of the property whose value your want to retrieve. For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the property value is copied to the Buffer .

See also:

[setJobProperty](#)
[getJobPropertyEx](#)
[getJobDefinition](#)
[getJobTemplateData](#)


Example:


```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
// Retrieve value of QUEUE property for job #235  
StringHolder buffer = new StringHolder("");  
Integer retCode = getJobProperty( "235", "QUEUE", buffer );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error  
else  
    String queueName = buffer.getValue(); // copy returned value
```


getJobPropertyEx

**Integer getJobPropertyEx (String JobID,
String PropertyNameList,
StringHolder Buffer) throws RemoteException**

The **getJobPropertyEx** method obtains values of one or more job properties. The **PropertyNameList** must contain comma-separated list of valid JDL job property names. For information on supported property names and their values see "Job Property Names" topic in the 24x7 on-line help file.

 **Note:** **getJobPropertyEx** method is an extended version of [getJobProperty](#) method. **getJobPropertyEx** is capable of returning values of multiple properties at once while **getJobProperty** can return only one property at a time. **getJobPropertyEx** is a more efficient and faster method to get multiple properties as it makes just one pass to the 24x7 Scheduler server.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name. . Specify ID or name of the job whose properties your want to retrieve.
PropertyNameList	Comma-separated list of job property names. Specify names of properties whose values your want to retrieve. For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, property values are copied to the Buffer as a tab delimited list.

See also:

[getJobProperty](#)
[getJobDefinition](#)
[setJobProperty](#)
[setJobPropertyEx](#)
[getJobTemplateData](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Retrieve values of MSG_FILE, MOVE_DIR, RENAME_SUFFIX properties
// for job #235
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getJobPropertyEx( "235",
    "MSG_FILE,MOVE_DIR,RENAME_SUFFIX", buffer );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
{
    // Break the returned value into individual property values
    String fileName = obj.getToken(buffer, "\t");
    String dirName  = obj.getToken(buffer, "\t");
    String suffix = buffer.getValue();
}
}
```

getJobStatus

Integer getJobStatus (String JobID) throws RemoteException

The **getJobStatus** method obtains the status of the specified job.

Return: Returns a number indicating job status, which could be one of the following:

-1	Error job. Job may have this status because of incomplete job definition or if an error occurred while 24x7 was executing this job.
-2	Job is performing notification action after or before job run, such as sending email message, executing database command, etc.
-3	Job is running.
-5	First job run is pending. This job has been never been started before.
-6	Unknown status. Job may have an unknown status when it is a "Program" type job and the operation system is unable to report exit code of the job process.
0	Successfully finished. Note: an asynchronous job of "Program" type also may have this status after it successfully started the specified program and the started program is still running.
other	Successfully finished (valid for jobs of "Program" type only).

Parameters:

JobID	Job ID converted to string or job name.
-------	---

See also:

[runJob](#)
[getForecast](#)
[getJobQueueMonitor](#)
[getMonitor](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Run job #235 in the background
Integer retCode = obj.runJob( "235", true );

// ... do something here ...

// Get job status
Integer jobStatus = obj.getJobStatus( "235" );
if (jobStatus.intValue() >= 0)
```

```
        System.out.println("Job #235 completed successfully");
else if (jobStatus.intValue() == -2 or jobStatus.intValue() == -3)
    System.out.println("Job #235 completed successfully");
else
    System.out.println("Job #235 failed. Check the job log for " +
        "details");
```

getJobTemplateData

Integer getJobTemplateData (String JobID,
StringHolder TemplateName,
StringHolder TemplateFile,
StringHolder Data) throws RemoteException

The **getJobTemplateData** method obtains template properties and data used to create or modify the specified job. This data must be previously saved using [setJobTemplateData](#) method.

If the **getJobTemplateData** method succeeds **TemplateName** parameter returns name of the original job template, the **TemplateFile** parameter returns name the original job template file and the **Data** parameter returns the saved data.

Return: Returns a number indicating method status, which could be one of the following:

1	Success. Both job definition and job template data have been found and all job ID, template name and file, job and template timestamps match exactly.
0	Success with warnings. Both job definition and job template data have been found but either the job or the template have been modified since the data was saved using setJobTemplateData method. It is still should be possible to continue. Use the getLastError method to obtain the warnings.
A negative number	Failure. An error has occurred during method call or if the template data cannot be found. Use the getLastError method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
TemplateName	A StringHolder class variable used as an output parameter. In case of successful method execution the saved job template name is copied to this parameter.
TemplateFile	A StringHolder class variable used as an output parameter. In case of successful method execution the saved job template file name is copied to this parameter.
Data	A StringHolder class variable used as an output parameter. In case of successful method execution saved job data is copied to this parameter.

See also:

[setJobTemplateData](#)
[getJobDefinition](#)
[getJobProperty](#)

[getTemplate](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

StringHolder templateName = new StringHolder("");
StringHolder templateFile = new StringHolder("");
StringHolder templateData = new StringHolder("");
Integer retCode = obj.getJobTemplateData( "235", templateName,
                                         templateFile, templateData );

if (retCode.intValue() < 0)
    // Print error message
    System.out.println( "getJobTemplateData error: " +
                       obj.getLastErrorMessage() );
else
{
    // print results
    System.out.println( "Template name: " +
                       templateName.getValue() );
    System.out.println( "Template file name: " +
                       templateFile.getValue() );
    System.out.println( "Job creation data: " +
                       templateData.getValue() );
}
```

getLastError

String getLastError () throws RemoteException

The **getLastError** method returns error description for the last detected error.

You can use this method to obtain the error description when a method's return value indicates that it failed. You should call **getLastError** immediately after a method call fails.

Parameters: None


Example: See examples for other methods

getMonitor

**Integer getMonitor (Integer Interval,
StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException**

The **getMonitor** method obtains list of running and pending jobs for the specified time interval (hours). Jobs having non-time based schedules are not included in the pending jobs portion of the report as the 24x7 Scheduler has now way to know when such jobs start conditions will be satisfied.

If the method succeeds, **Buffer** variable is populated with job monitor report. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. Each line contains the following tab-separated columns: job ID, job name, job status, and job last start time.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Sample output (with **HTMLFormat** set to FALSE):

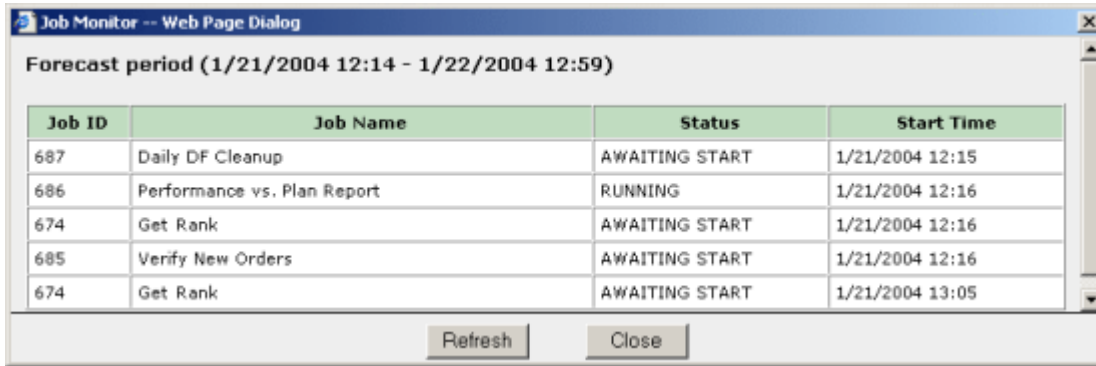
285	Backup job	AWAITING START	10/11/2002 04:20:00 PM
14	BCP	RUNNING	10/11/2002 03:00:00 PM
112	Cube building	RUNNING	10/11/2002 03:10:00 PM
56	Database export	AWAITING START	10/12/2002 02:00:00 AM

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Interval	The time interval within which the monitor report is created. The interval is specified in hours.						
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the job list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list of forecasted jobs. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

Sample monitor screenshot



Job ID	Job Name	Status	Start Time
687	Daily DF Cleanup	AWAITING START	1/21/2004 12:15
686	Performance vs. Plan Report	RUNNING	1/21/2004 12:16
674	Get Rank	AWAITING START	1/21/2004 12:16
685	Verify New Orders	AWAITING START	1/21/2004 12:16
674	Get Rank	AWAITING START	1/21/2004 13:05

See also:

[getForecast](#)
[getJobQueueMonitor](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
StringHolder buffer = new StringHolder("");  
Integer retCode = obj.getMonitor( new Integer(24),  
                                buffer,  
                                new Boolean(true) );  
  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error  
else  
    System.out.println( buffer.getValue() ); // Print monitor data
```

getMQProfile

**Integer getMQProfile (String ProfileName,
StringHolder EndPoint,
StringHolder VirtualHost,
StringHolder Account,
StringHolder Region,
StringHolder QueueOrTopicName,
StringHolder UserOrKey,
StringHolder Password,
StringHolder OtherProperties) throws RemoteException**

The **getMQProfile** method retrieves properties of an existing MQ profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

If the method succeeds, all StringHolder parameters are populated with profile properties.

Parameters:

ProfileName	Name of the profile.
InterfaceName	A StringHolder class variable used as an output parameter for MQ type. The supported type names are: <ul style="list-style-type: none">• Apache Kafka MQ• Azure Queue Storage• Amazon SQS• RabbitMQ
EndPoint	A StringHolder class variable used as an output parameter for the service endpoint. The endpoint value format is MQ type specific. See MQ profiles created using 24x7 consoles for sample values.
VirtualHost	A StringHolder class variable used as an output parameter for RabbitMQ's virtual host. This value isn't used with other MQ types, and an empty string is returned for them.
Account	A StringHolder class variable used as an output parameter for account number required for Azure Queue Storage and Amazon SQS. This value isn't used with other MQ types, and empty string is returned for them.
Region	A StringHolder class variable used as an output parameter for AWS region in which the endpoint is located. This value isn't used with other MQ types and an empty string is returned for them.
QueueOrTopicName	A StringHolder class variable used as an output parameter for topic name for Apache Kafka, and queue name for all other MQ types.
UserOrKey	A StringHolder class variable used as an output parameter for user name or authentication key, the usage depends on MQ type.
Password	A StringHolder class variable used as an output parameter for password or secret key, the usage depends on MQ type.
OtherProperties	A StringHolder class variable used as an output parameter for other properties. Properties are stored and returned as a multi-line string containing key-value pairs. Key names are MQ type specific

See also:

[addMQProfile](#)
[updateMQProfile](#)
[deleteMQProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder endpoint = new StringHolder("");
StringHolder virtualhost = new StringHolder("");
StringHolder account = new StringHolder("");
StringHolder region = new StringHolder("");
StringHolder queueName = new StringHolder("");
StringHolder userOrKey = new StringHolder("");
StringHolder password = new StringHolder("");
StringHolder otherProperties = new StringHolder("");


// get profile properties
Integer retCode = obj.getMQProfile( "SQS Queue Profile 1",
                                   endpoint, virtualhost, account,
                                   region, queueName, userOrKey,
                                   password, otherProperties );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
{
    // Print profile properties
    System.out.println("Profile Properties");
    System.out.println("Profile name: SQS Queue Profile 1");
    System.out.println("Endpoint: " + endpoint.getValue());
    System.out.println("Queue Name: " + queueName.getValue());
}
}
```


getProcessList

Integer **getProcessList** (StringHolder Buffer,
Boolean HTMLFormat) throws RemoteException

The **getProcessList** method obtains list of running system processes "visible" to the process running 24x7 Scheduler

If the method succeeds, **Buffer** variable is populated with process report. If **HTMLFormat** is TRUE, the **Buffer** variable is populated with a text formatted as a HTML table; otherwise, it is populated with a plain text containing each entry on a new line. The data available on each line may differ for different operation systems and depended on the output of the system **ps** command executed without parameters.

 **Note:** You can use [getToken](#) method to parse the returned list and extract individual elements or convert it into an array of elements using standard split method of java.lang.String class. For more details, see description and examples for **getToken** method.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the process list is copied to the Buffer .						
HTMLFormat	The output format in which you want to obtain the list active processes. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>format output as HTML text</td></tr><tr><td>False</td><td>format output as plain text</td></tr></tbody></table>	Value	Meaning	True	format output as HTML text	False	format output as plain text
Value	Meaning						
True	format output as HTML text						
False	format output as plain text						

See also:

[getForecast](#)
[getMonitor](#)
[runShellCommand](#)
[runJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getProcessList(buffer,
                                     new Boolean(true) );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
    System.out.println( buffer.getValue() ); // Print process data
```

getTemplate

**Integer getTemplate (String TemplateFile,
StringHolder Buffer) throws RemoteException**

The **getTemplate** method obtains contents of the specified template file.

If the method succeeds, **Buffer** variable is populated with the template text.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

TemplateFile	Template file name.
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, text of the template file is copied to the Buffer .

See also:

[setTemplate](#)
[getTemplateCatalog](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getTemplate( "%HOME%\\Template\\ftp.ini",
    buffer );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
    System.out.println( buffer.getValue() ); // Print template
```

getTemplateCatalog

Integer getTemplateCatalog (StringHolder Buffer) throws RemoteException

The **getTemplateCatalog** method obtains contents of the TEMPLATE.INI file. TEMPLATE.INI stores catalog of available job templates. The file must exist in the 24x7 Scheduler home directory.

If the method succeeds, **Buffer** variable is populated with the template catalog.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, contents of the TEMPLATE.INI file is copied to the Buffer .
--------	---

See also:

[setTemplate](#)
[getTemplate](#)
[addTemplate](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder buffer = new StringHolder("");
Integer retCode = obj.getTemplateCatalog( buffer );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
    System.out.println( buffer.getValue() ); // Print catalog
```

getToken

**String getToken (StringHolder Buffer,
String Separator) throws RemoteException**

The **getToken** method parses the source string (**Buffer**) and obtains first token. If the token is found it removes it along with the following **Separator** string from the source string.

Return: Returns found token or an empty string if the specified **Separator** value cannot be found or if it is found in the beginning of the **Buffer**.

Parameters:

Buffer	A StringHolder class variable used as an input and output parameter. In case of successful method execution, value of the Buffer parameter is modified. The new value does not include the found token and the following separator.
Separator	A string whose value is searched within the source string. The Separator value must consist of one or more characters.

See also: getToken can be used with many methods that return textual lists and tab-separated results, including

[getJobList](#)
[getFolderList](#)
[getJobPropertyEx](#)
[getMonitor](#)
[getJobQueueMonitor](#)
and other.

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
int count = 0;
StringHolder buffer =new StringHolder("");

// Obtain job list using getJobListEx method
Integer retCode = obj.getJobListEx( buffer, new Boolean(false),
                                   "JOB_TYPE" );

if (retCode.intValue() != 1)
{
    // Print error message
    System.out.println( obj.getLastErrorMessage() );
}
else
{
    // Parse job list and calculate how many jobs we got
    StringHolder temp = new StringHolder( buffer.getValue() );
```



```
while(!temp.getValue().equals(""))
{
    obj.getToken(temp, "\\t");
    count ++;
}

// allocate memory for arrays for job IDs, names and types
String[] jobID = new String[count];
String[] jobName = new String[count];
String[] jobType = new String[count];

// Fill array elements
count = 0;
while(!buffer.getValue().equals(""))
{
    jobID[count] = obj.getToken(buffer, "\\t");
    jobName[count] = obj.getToken(buffer, "\\t");
    jobType[count] = obj.getToken(buffer, "\\r\\n");
    count ++;
}

// Print job count
System.out.println(count.toString() + " jobs found");
}
```

getStatusReport

Integer **getStatusReport** (String **DestinDir**) throws **RemoteException**

The **getStatusReport** method obtains **24x7 Status Report** from the 24x7 Master Scheduler and copies it to the destination directory specified in the **DestinDir** variable.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

DestinDir	The name of the directory into which the 24x7 Status Report files will be copied. The DestinDir can contain either an absolute path to the directory in the format <i>disk:\dir\subdir1\...\subdirX</i> or a relative path in the format <i>subdir1\...\subdirX</i> or a network path name like <i>\\SERVER\VOLUME\dir\subdir1\...\subdirX</i> . Note: The DestinDir must be an existing directory and the directory must be accessible from the computer running 24x7 Scheduler server.
-----------	--

See also:

[getJobLog](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode =
    obj.getStatusReport( "\\WEBSEVER\web\root\24x7\logs" );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Redirect to Status Reports
    response.sendRedirect( "..\24x7\logs\index.htm" );
```

getUserRole

Integer getUserRole (String UserName) throws RemoteException

The **getUserRole** method obtains ID of the security member group (e.g. user role) for the specified user.

Return: The following values can be returned.

SECURITY_OFF – the security system is turned off. All users have unlimited privileges.

ROLE_ADMIN – user is a member of Administrators group.

ROLE_STANDARD - user is a member of Standard Privileges group

ROLE_RESTRICTED - user is a member of Restricted Privileges group

ROLE_GUEST - user is a member of Guest group

-1 – an error has occurred. Use the [getLastError](#) method to obtain the error message.

For more information about returned values see [Constants](#) topic.

Parameters:

UserName	The name of the user as it is specified in the 24x7 Scheduler security settings. Names are case-insensitive.
----------	--

See also:

[openSession](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.getUserRole( "scott" );
if (retCode == -1)
    System.out.println( obj.getLastError() ); // Print error
else
    if (retCode != obj.ROLE_ADMIN)
        System.out.println(
            "You are not authorized to use this method" );
```

getVersion

Integer getVersion (StringHolder CodeBase, StringHolder OSVersion, IntegerHolder MajorVersion, IntegerHolder MinorVersion, IntegerHolder BuildNumber) throws RemoteException

The **getVersion** method obtains version numbers and type of scheduler the API session is connected to.

Return: Multiple values. See function parameter descriptions for more info

Note that the full scheduler version is represented as MajorVersion.MinorVersion.BuildNumber, for example 4.3.288

Parameters:

CodeBase	A StringHolder class variable used as an output parameter. In case of successful method execution, the value of the CodeBase parameter is populated with the scheduler code type. For 24x7 Scheduler Multi-platform Edition, the returned value is "java"
OSVersion	A StringHolder class variable used as an output parameter. In case of successful method execution, the value of the OSVersion parameter is populated with name, type, and version of the operation system running the scheduler.
MajorVersion	An IntegerHolder class variable used as an output parameter. In case of successful method execution, the value of the MajorVersion parameter is populated with major version number.
MinorVersion	An IntegerHolder class variable used as an output parameter. In case of successful method execution, the value of the MinorVersion parameter is populated with minor version number.
BuildNumber	An IntegerHolder class variable used as an output parameter. In case of successful method execution, the value of the BuildNumber parameter is populated with build number.

See also:

[openSession](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
StringHolder codeBase, osVersion;
IntegerHolder major, minor, build;
Integer retCode = obj.getVersion( codeBase, osVersion,
                                major, minor, build );

if (retCode == -1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
```

```
// Print scheduler version
System.out.println( "Version: "
    + major.getValue().toString()
    + "." + minor.getValue().toString()
    + "." + build.getValue().toString() );
```

holdJob

Integer holdJob (Long JobQueueID) throws RemoteException

The **holdJob** method places already queued job on hold. The job must be in awaiting start state. Do not confuse holdJob with [disableJob](#). The latest method can be used to disable a job and prevent it from starting again, while the **holdJob** method can be used to lock an already queued job instance and prevent it from running until it is released. Note that this operation affects only one job instance. Other jobs can continue running in the queue as well as other instances of the same job can be also added to the queue and be run.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobQueueID	Run-time job number in queue.
------------	-------------------------------

See also:

[deleteJob](#)
[disableJob](#)
[killJob](#)
[releaseJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.holdJob( 22465 );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

killJob

Integer killJob (Long JobQueueID) throws RemoteException

The **killJob** method deletes job from the queue. If the job is already running it forcedly terminates the running process. If the job type is JavaScript the script and the job is run as a non-detached process, killJob will attempt to interrupt the script. If the job is SQL Script and the job is run as a non-detached process, killJob will attempt to execute database-specific "Cancel Query" request.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobQueueID	Run-time job number in queue.
------------	-------------------------------

See also:

[deleteJob](#)
[disableJob](#)
[holdJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.killJob( 22465 );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```

killShellCommand

Integer killShellCommand (Long ProcessID) throws RemoteException

The **killShellCommand** method forcedly terminates operation system processes. Although this method can be used with any processes it is recommended that this method is only used for processes started using [runShellCommand](#).

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProcessID	System process ID.
-----------	--------------------

See also:

[runShellCommand](#)
[getProcessList](#)
[killJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.killShellCommand( 254 );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastErrorMessage() );
```


logMessage

**Integer logMessage (Integer SourceID,
String SourceName,
Integer EventSeverity,
String Message,
Boolean ForceReportUpdate) throws RemoteException**

The **logMessage** method adds new record to the 24x7 Scheduler event log. If parallel logging to the Windows NT event log is enabled, **logMessage** also writes an entry at the end of the Windows NT application event log.

Note: 24x7 Scheduler does not verify SourceID and SourceName values. Normally you should use them to specify job ID and job name that the logged message belongs to.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

SourceID	ID of the job for which you add the new message. To add a job independent message specify 0 for the SourceID .						
SourceName	Descriptive name of the message source.						
EventSeverity	The event severity. It can be one of the following: <ul style="list-style-type: none">• RC_ERROR• RC_WARNING• RC_INFO For more information about event severity values see Constants topic.						
Message	The message that you want to add to the 24x7 event log.						
ForceReportUpdate	A Boolean whose value indicates whether 24x7 Scheduler must perform an immediate update of the 24x7 Status Report or perform a deferred update. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>update immediately</td></tr><tr><td>False</td><td>don't update immediately</td></tr></tbody></table> Important Notes: <ul style="list-style-type: none">• If the 24x7 Status Report is not enabled, ForceReportUpdate parameter is ignored.• "ForceReportUpdate = True" ensures the report is updated immediately so other people who monitor that report can see this change in a real-time. However, immediate updates have some impact on the performance of the 24x7 Scheduler.	Value	Meaning	True	update immediately	False	don't update immediately
Value	Meaning						
True	update immediately						
False	don't update immediately						

See also:

[getJobLog](#)

[getStatusReport](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.logMessage( "34", "Some job name",
    obj.RC_INFO, "Ready to run job #34",
    new Boolean(true) );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

openSession

**Integer openSession (String ServerLocation,
Integer ServerPort,
String User,
String Password,
String Serial) throws RemoteException**

The **openSession** method establishes new connection between **24x7 Remote Control Java** control and the specified target 24x7 Scheduler running in either Master or Agent mode. The target 24x7 Scheduler can run on the same computer or run on another networked computer.

Notes:

- You must open a session using the **openSession** method before you call other **24x7 Remote Control Java** methods.
- Use the **closeSession** method to close the session after you don't need it anymore.



If you destroy j24x7 class and a session is still open, the j24x7 class automatically calls **closeSession**. In web based applications object clean up and destruction is often left to the web server. In such applications you usually do not need to call **closeSession** explicitly.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

User	The user ID that you want to use for the connection.
Password	The password that you want to use for the connection.
Serial	The Serial Number given for the 24x7 Remote control Java interface
ServerLocation	The location of the 24x7 Scheduler server. Specify either of the following values: <ul style="list-style-type: none">• The IP address (for example, 199.99.99.91)• The host name of the remote computer (network computer name in workgroup)• LocalHost (this indicates that the 24x7 Scheduler resides on the local machine)
ServerPort	The port number for the 24x7 Scheduler server (for example, 1096).

See also:

[closeSession](#)
[Using 24x7 Java API in Your Program](#)

Example:

```
// create j24x7 class
j24x7 obj = new j24x7();
// open session
obj.openSession( "LocalHost", new Integer(1096), "john_doe",
                "password", "00000-00000-00000");

// ... do something here ...

// close session
obj.closeSession();
```

protectJob

Integer protectJob (**String JobID,**
String ProtectionType,
String JobPassword) throws RemoteException

The **protectJob** method can be used to change protection type for an already protected job or setup protection on an unprotected job. If the job is already protected you must specify valid JobPassword that matches current job password.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name
ProtectionType	Job protection code. The following values are supported: F – Full protection – job definition cannot be seen, changed or deleted and the job cannot be run manually. R – Read only protection – job definition can be seen and the job can be run manually, but the job cannot be changed or deleted. E – Execute only – job definition cannot be seen, changed or deleted, but the job can be run manually.
JobPassword	Job password

See also:

[unprotectJob](#)
[disableJob](#)
[createJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.protectJob( "34", "R", "some password" );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

releaseJob

Integer releaseJob (Long JobQueueID) throws RemoteException

The **releaseJob** method releases held jobs job and puts it back to queue according to job priority. The job state changes to "awaiting start". Do not confuse releaseJob with [enableJob](#). The latest method can be used to enable previously disabled job and allow it to be scheduled again, while the **releaseJob** method can be used to unlock a queued job instance and allow that specific instance to run. Note that this affects only single job instance.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobQueueID	Run-time job number in queue.
------------	-------------------------------

See also:

[holdJob](#)
[enableJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.releaseJob( 22465 );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

queueJob

public Long queueJob(String jobID) throws J24x7EJBException

The **queueJob** method submits the specified job to the associated job queue. If the queue is free, the specified job starts running immediately; otherwise, it waits for the queue to become free. As compared to **runJob** method with synchronous parameter set, the submitter job does NOT wait for the submitted child job to complete.

Return: Returns unique run-time job id for the submitted job. This run-time id can be referenced in **killJob**, **holdJob** and other methods dealing with run-time job instances. Return -1, if an error occurs

Parameters:

jobID	Job ID converted to string or job name.
-------	---

See also:

[createJob](#)
[runJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.queueJob( "test job" );  
if (retCode.intValue() == -1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

readFile

Integer readFile(**String** FileName,
StringHolder OutputBuffer) throws **RemoteException**

This method can be used to remotely read small text files and logs.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

FileName	A string whose value is the name of the target file.
Buffer	A StringHolder class variable used as an output parameter. In case of successful method execution, the content of the file is copied to the OutputBuffer .

See also:

[writeFile](#)
[runJob](#)
[runShellCommand](#)
[runScript](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Read remote log file
StringHolder buffer = new StringHolder("");
Integer retCode = obj.readFile( "c:\\log\\somalog.log", buffer );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print log content
    System.out.println( "Log content: " + buffer.getValue() );
```



runJob

**Integer runJob (String JobID,
Boolean Detached) throws RemoteException**

The **runJob** method starts the specified job. The job is executed on the computer where the target 24x7 Scheduler is running.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.						
Detached	Controls how the job is processed. <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>Start the job using a separate instance of 24x7 Scheduler and then immediately return control back to the caller</td></tr><tr><td>False</td><td>Start the job using the main instance of 24x7 Scheduler and wait for the job to complete before returning control back to the caller.</td></tr></tbody></table>  Note: Each method has some advantages and disadvantages. If you want to wait for a job to complete before starting next job use False for the Detached property. This will ensure that jobs will run sequentially. Otherwise, if you run the job Detached (Detached = True) and then run another job, both of these jobs will run concurrently. On the other hand if you run a job non- Detached (Detached=False) and that job takes a long time to run your session may expire before the job completes and this may cause the job to abort prematurely. Always use True for the Detached property for jobs taking a long time to run.	Value	Meaning	True	Start the job using a separate instance of 24x7 Scheduler and then immediately return control back to the caller	False	Start the job using the main instance of 24x7 Scheduler and wait for the job to complete before returning control back to the caller.
Value	Meaning						
True	Start the job using a separate instance of 24x7 Scheduler and then immediately return control back to the caller						
False	Start the job using the main instance of 24x7 Scheduler and wait for the job to complete before returning control back to the caller.						

See also:

[createJob](#)
[queueJob](#)
[runScript](#)
[runShellCommand](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.runJob( "34", new Boolean(true) );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

runScript

Integer runScript (String Script) throws RemoteException



Important Notes: This method is deprecated and is no longer supported.



runShellCommand

**Integer runShellCommand (String CommandLine,
String Dir,
Boolean Async,
Integer Timeout) throws RemoteException**

The **runShellCommand** method executes the specified Operation System command or program. The command is executed on the computer where the target 24x7 Scheduler is running.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

CommandLine	<p>The full or partial path and filename of the module to execute. The module may be a binary program or a command line script.</p> <p> Notes:</p> <ul style="list-style-type: none">You should always include the full path - don't rely on the PATH environment variable, because this may be different at the time the program runs, depending on what account the program is being run under. Also, keep in mind that other programs can modify the PATH environment variable as well.Program name can be followed by command line parameters.						
Dir	<p>The directory you want to set as a working directory for the started program. Most programs do not require this so that you can specify an empty string (""). Occasionally however, a program will refuse to run properly unless it is specifically told where to find other program files. The 24x7 Scheduler will change to this directory when running the program or document.</p>						
Async	<p>This controls how the 24x7 Scheduler executes the process specified in the CommandLine.</p> <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>True</td><td>Start the specified command and return control back to the 24x7 Scheduler. The Timeout argument is ignored in this case.</td></tr><tr><td>False</td><td>Start the specified command and wait for that command to complete before returning control back to the 24x7 Scheduler.</td></tr></tbody></table> <p> Note: When running the command synchronously (Async=False) 24x7 Scheduler enters an efficient wait state until this command finishes or the Timeout interval elapses. In the latter case, the 24x7 Scheduler forcibly terminates the process created by the specified CommandLine.</p>	Value	Meaning	True	Start the specified command and return control back to the 24x7 Scheduler. The Timeout argument is ignored in this case.	False	Start the specified command and wait for that command to complete before returning control back to the 24x7 Scheduler.
Value	Meaning						
True	Start the specified command and return control back to the 24x7 Scheduler. The Timeout argument is ignored in this case.						
False	Start the specified command and wait for that command to complete before returning control back to the 24x7 Scheduler.						
Timeout	<p>The maximum time interval (in seconds) within which you allow the</p>						

	process (as specified in the CommandLine) to run. Use 0 Timeout to allow infinite waiting. The Timeout parameter is ignored when Async parameter is set to True .
--	---

See also:

[runJob](#)

[runScript](#)

[utilRunScript](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.runShellCommand(
    "h:\\sales\\reports\\month_end.exe",
    "", new Boolean(false), new Integer(30) );
if (retCode.intValue() != 1)
    System.out.println( obj.getLastErrorMessage() ); // Print error
else
    // Reports ran successfully, now redirect to the monthly
    // report menu
    document.location = "../reports/monthly/menu.jsp";
```

setFolderProperty

**Integer setFolderProperty (String FolderID,
String PropertyName,
String NewValue) throws RemoteException**

The **setFolderProperty** method changes value of the specified folder **PropertyName** for the specified **FolderID**. The **PropertyName** must be a valid JDL job property name. The following folder properties are currently supported: "FOLDER_NAME", "DESCRIPTION".

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

FolderID	Folder ID converted to string or folder name.
PropertyName	The folder property name.
NewValue	Then new property value.

See also:

[createFolder](#)
[getFolderProperty](#)


Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
// Change description of folder "Rep12"  
Integer retCode = obj.setFolderProperty( "Rep12", "DESCRIPTION",  
    "This folder is now used for ad-hoc reports" );  
  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

setGlobalVariable

Integer setGlobalVariable (String VariableName,
String NewValue) throws RemoteException

The **setGlobalVariable** method changes the value of the global variable on the target 24x7 Remote Agent or 24x7 Master Scheduler.

 **Important Note:** This method is deprecated and is no longer supported. Global shared memory is no longer available for storing ephemeral variables. Save values to files or databases instead.

setJobProperty

**Integer setJobProperty (String JobID,
String PropertyName,
String NewValue) throws RemoteException**

The **setJobProperty** method changes value of the specified job **PropertyName** for the specified **JobID**. The **PropertyName** must be a valid JDL job property name. For more details, see "Job Property Names" topic in the 24x7 on-line help file.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
PropertyName	The job property name. For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.
NewValue	Then new value converted to string format.

See also:

[getJobProperty](#)
[setJobPropertyEx](#)
[updateJob](#)
[setFolderProperty](#)
[setJobTemplateData](#)


Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
// Change value of QUEUE property for job #235  
retCode = obj.setJobProperty( "235", "QUEUE", "Reports" );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

setJobPropertyEx

**Integer setJobProperty (String JobID,
String PropertyNameList,
String NewValueList) throws RemoteException**

The **setJobPropertyEx** method changes values of job properties specified in the **PropertyNameList** parameter for the job specified by **JobID** parameter. The **PropertyNameList** must contain comma-separated list of valid JDL job property names. For more details, see "Job Property Names" topic in the 24x7 on-line help file.

 **Note:** **setJobPropertyEx** method is an extended version of **setJobProperty** method. **setJobPropertyEx** is capable of updating multiple properties at once while **setJobProperty** can update only one property at a time. **setJobPropertyEx** provides more efficient and faster method for updating multiple properties as it makes just one round-trip to the 24x7 Scheduler server. On the other hand, because new values are passed as a comma-separated list, **setJobPropertyEx** cannot be used to update values that contain commas

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
PropertyNameList	Comma-separated list of job property names. For supported job properties and their JDL names see 24x7 User's Guide. As a quick reference, see Job Properties in JDL Format topic in this manual.
NewValueList	Tab-separated list of new property values converted to string format.

See also:

[setJobProperty](#)
[getJobPropertyEx](#)
[updateJob](#)
[setFolderProperty](#)
[setJobTemplateData](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Change job #235 schedule to daily job to be run on Mondays
// and Wednesdays (SCHEDULE_TYPE=D, MONDAY=Y, WEDNESDAY=Y, all other
// days set to N)
Integer retCode = obj.setJobPropertyEx( "235",
"SCHEDULE_TYPE,SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRIDAY,SATURDAY",
"D,N,Y,N,Y,N,N,N" );
```



```
if (retCode.intValue() != 1)
    System.out.println( obj.getLastError() ); // Print error
```

setJobTemplateData

Integer setJobTemplateData (String JobID,
String TemplateName,
String TemplateFile,
String Data) throws RemoteException

The **setJobTemplateData** method saves template properties and data used to create or modify the specified job. This data can be later retrieved using the [getJobTemplateData](#) method. If the method succeeds the values of **TemplateName**, **TemplateFile**, and **Data** parameters are saved in a file. The **Data** value is a free text that could be of virtually any size. It is up to the developer to decide which internal format to use for the **Data**.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name.
TemplateName	Name of the template used for the specified job.
TemplateFile	Name of the template file used for the specified job.
Data	Data that you want to save for future references.

See also:

[getJobTemplateData](#)
[setJobProperty](#)
[setTemplate](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

String templateName = "Venus FTP Download";
String templateFile = "venus_ftp.ini";
String templateData = "SRC_DIR=\\daily\\cars\r\n" +
    "SRC_FILE=122003car.zip\r\n" +
    "DEST_DIR=f:\\carinfo";
Integer retCode = obj.setJobTemplateData( "235", templateName,
    templateFile, templateData );
if (retCode.intValue() != 1)
    // Print error message
    System.out.println( "setJobTemplateData error: " +
        obj.getLastErrorMessage() );
```

setTemplate

**Integer setTemplate (String TemplateFile,
String Buffer) throws RemoteException**

The **setTemplate** method updates contents of the specified template file.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

TemplateFile	Template file name.
Buffer	A String variable whose value replaces contents of the specified template file.

See also:

[addTemplate](#)
[getTemplate](#)
[getJobTemplateData](#)
[getTemplateCatalog](#)
[setJobTemplateData](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Obtain template code from the submitted form
String templateCode = request.getParameter("TEMPLATE_CODE");
// Update ftp_reports.ini template
Integer retCode = obj.setTemplate(
    "%HOME%\\Templates\\ftp_reports.ini",
    templateCode );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

test

Integer test (Integer x) throws RemoteException

The **test** method is provided exclusively for your convenience so you can test whether you can load and call **24x7 Java API** methods. The **test** method does not communicate with the 24x7 servers and performs simple computations on the client side only.

Return: The returned value must be the same as the **x** value specified for the method argument.

Example:

```
// Create j24x7 class
j24x7 obj = new j24x7( );

// test it
if (obj.test(5) != 5)
    System.out.println("Error") // Print error
```

unprotectJob

**Integer unprotectJob (String JobID,
String JobPassword) throws RemoteException**

The **unprotectJob** method can be used to remove protection from a protected job. You must specify valid JobPassword that matches the current job password.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

JobID	Job ID converted to string or job name
JobPassword	Job password

See also:

[protectJob](#)
[enableJob](#)
[createJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
Integer retCode = obj.unprotectJob( "34", "some password" );  
if (retCode.intValue() != 1)  
    System.out.println( obj.getLastErrorMessage() ); // Print error
```

updateAgentProfile

**Integer updateAgentProfile(String ProfileName,
String ComMethod,
String Location,
String Port,
String Options) throws RemoteException**

The **updateAgentProfile** method updates properties of an existing 24x7 Remote Agent or 24x7 Master Scheduler profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

For description of **updateAgentProfile** parameters see [addAgentProfile](#) method.

See also:

[addAgentProfile](#)
[deleteAgentProfile](#)
[getAgentProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.updateAgentProfile( "Print Server", "Winsock",
                                         "192.168.100.1", "1096", "");
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

updateCalendar

**Integer updateCalendar (Integer CalendarID,
String Name,
Boolean Exclusive) throws RemoteException**

The **updateCalendar** method updates properties of an existing business calendar.



Important Note: This method is only valid for 24x7 Scheduler Multi-platform Edition.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

For description of **updateCalendar** parameters see [addCalendar](#) method.

See also:

[addCalendar](#)
[getCalendarList](#)
[deleteCalendar](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
// update name for calendar #25  
Integer retCode = obj.updateDatabaseProfile( 25,  
    "Bi-monthly Calendar", new Boolean(false) );  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```

updateDatabaseProfile

**Integer updateDatabaseProfile (String ProfileName,
String DatabaseDriver,
String Server,
String DatabaseName,
Boolean AutoCommit,
String User,
String Password) throws RemoteException**

The **updateDatabaseProfile** method updates properties of an existing database profile.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

For description of **updateDatabaseProfile** parameters see [addDatabaseProfile](#) method.

See also:

[addDatabaseProfile](#)
[getDatabaseProfile](#)
[deleteDatabaseProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
  
Integer retCode = obj.updateDatabaseProfile( "Prod Server",  
      "SQL Server", "Neptune",  
      "warehouse", True, "sa", "*****");  
if (retCode.intValue() != 1)  
    /* Print error */  
    System.out.println( obj.getLastError() );
```


updateJob

Integer updateJob (**String JobID,**
String JobDefinition) throws RemoteException

The **UpdatesJob** method updates properties of an existing job.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Note: **JobDefinition** parameter may contain any combination of job properties and scripts. Only values of referenced properties are updated. Values of all other properties are preserved as is.

Parameters:

JobID	Job ID converted to string or job name
JobDefinition	The Job definition in JDL format. For a wide variety of examples see job templates available in the [24x7 install directory]\Template subdirectory. The default path is <i>C:\Program Files\24x7 Automation 3\Template</i> . For supported job properties and JDL properties see 24x7 User's Guide.

See also:

[createJob](#)
[setJobProperty](#)
[setJobTemplateData](#)
[changeFolder](#)
[disableJob](#)
[protectJob](#)
[runJob](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Get job definition from the submitted form
String jobDefinition = request.getParameter("JOB_DEF");
// Update job #234
Integer retCode = obj.updateJob( "234", jobDefinition );
if (retCode < 0)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print confirmation
    System.out.println("Job updated successfully");
```

updateJobQueue

Integer updateJobQueue (String QueueName, Integer MaxSize) throws RemoteException

The **updateJobQueue** method updates properties of an existing job queue.



Note: This method has been deprecated. Use [updateJobQueueEx](#) method.



Note: The changes are effective immediately.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Name of the Job Queue whose properties will be modified.
MaxSize	Maximum queue size in Mbytes. 1 Mbytes should be sufficient in most cases.

See also:

[addJobQueueEx](#)
[updateJobQueueEx](#)
[deleteJobQueue](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.updateJobQueue( "Payroll jobs",
                                     new Integer(5));

if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

updateJobQueueEx

**Integer updateJobQueue (String QueueName,
Integer MaxSize,
Integer MaxJobs,
Boolean NearCapacityAlerts,
String EmailSender,
String EmailPassword,
String EmailRecipients) throws RemoteException**

The **updateJobQueue** method updates properties of an existing job queue.



Note: The changes are effective immediately.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

QueueName	Name of the Job Queue whose properties will be modified.
MaxSize	Maximum allowed disk space usage in Mbytes. 1 Mbytes should be sufficient in most cases. Specify zero value for unlimited disk space usage.
MaxJobs	Maximum number of jobs allowed in a queue at any moment in time. The count includes both running and queued jobs, including jobs placed on hold. Specify zero value for unlimited number of jobs.
NearCapacityAlerts	Enables sending email alerts in case a queue is at or near its maximum capacity. The capacity is controlled by MaxSize and MaxJobs parameters
EmailSender	Email account (for MAPI email protocol) or email address (for SMTP email protocol) to use for sending "near capacity" and "over capacity" email alerts.
EmailPassword	Email password to use for authenticating email sender to the email server. Specify an empty string or null value if password is not required.
EmailRecipients	Comma-separated list of email recipient addresses for "near capacity" and "over capacity" email alerts.
QueueName	Name of the new Job Queue. This name should be unique.
MaxSize	Maximum queue size in Mbytes. 1 Mbytes should be sufficient in most cases.

See also:

[AddJobQueueEx](#)
[deleteJobQueue](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...
Integer retCode = obj.updateJobQueue( "Payroll jobs",
    new Integer(1), new Integer(200), new Boolean(true)
    "alerter@domain.com", null, "helpdesk@domain.com" );
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

updateMQProfile

**Integer updateMQProfile(String ProfileName,
String Endpoint,
String VirtualHost,
String Account,
String Region,
String QueueOrTopicName,
String UserOrKey,
String Password,
String OtherProperties) throws RemoteException**

The **updateMQProfile** method updates properties of an existing MQ profile.



Note: The changes are effective immediately.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

ProfileName	Name of the new profile. This name should be unique.
EndPoint	The endpoint value format is MQ type specific. See MQ profiles created using 24x7 consoles for sample values.
VirtualHost	RabbitMQ's virtual host. This value isn't used with other MQ types and can be set to an empty string.
Account	An account number required for Azure Queue Storage and Amazon SQS. This value isn't used with other MQ types and can be set to an empty string.
Region	AWS region in which the endpoint is located. This value isn't used with other MQ types and can be set to an empty string.
QueueOrTopicName	Topic name for Apache Kafka, and queue name for all other MQ types.
UserOrKey	Either a user name or an authentication key, the usage depends on MQ type.
Password	Either a password or a secret key, the usage depends on MQ type.
OtherProperties	Multi-line key-value list of other properties. Key names are MQ type specific.

See also:

[addMQProfile](#)
[deleteMQProfile](#)
[getMQProfile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...  
// ... For more details, see openSession topic ...  
• Integer retCode = obj.updateJobQueue( "KafkaSampleProfile",  
    "kafka.us-east-2.amazonaws.com", "", "",  
    "", "SampleTopic", "my_user_name", "my_password", "");
```

```
if (retCode.intValue() != 1)
    /* Print error */
    System.out.println( obj.getLastErrorMessage() );
```

utilRunScript

Integer utilRunScript (String Script,
StringHolder OutputBuffer) throws RemoteException



Important Note: This method is deprecated and is no longer supported.

writeFile

Integer writeFile(**String** FileName,
String Buffer) throws RemoteException

This method can be used to remotely create and update small batch and configuration files which can later be scheduled using [createJob](#) and similar methods.

Return: Returns 1 if it succeeds or a negative number if an error occurs. Use the [getLastError](#) method to obtain the error message.

Parameters:

FileName	A string whose value is the name of the target file.
Buffer	A string whose value is the text to write to the target file.

See also:

[createJob](#)
[runShellCommand](#)
[runScript](#)
[readFile](#)

Example:

```
// ... create j24x7 class (obj) and open session here ...
// ... For more details, see openSession topic ...

// Create batch job on the server to count all .CSV files
String batchScript = "dir /S /B c:\\data\\*.csv > files.log\r\n" +
    "c:\\bin\\linecount files.log | c:\\bin\\tail -n 2 | " +
    "c:\\bin\\cut -f2 \":\\" > filecount.txt";
Integer retCode = obj.writeFile( "c:\\jobs\\csv_count.bat", script );
if (retCode.intValue() != 1)
    // Print error
    System.out.println( obj.getLastErrorMessage() );
else
    // Print results
    System.out.println( "File c:\\jobs\\csv_count.bat has been " +
        "written to the remote system" );
```


Additional Classes

The *com.sybase.dpb* package contains additional Java classes required to implement applications that use the **24x7 Remote Control Java** interface.

Class index

[BooleanHolder](#) -- Use this class for passing Boolean values for output parameters.

[IntegerHolder](#) -- Use this class for passing Integer values for output parameters.

[StringHolder](#) -- Use this class for passing String values for output parameters.

Exception index

[RemoteException](#) exception

BooleanHolder Class

Description

Holder class to contain the Boolean class. Use this class to pass Boolean values by reference. This class is part of com.sybase.dpb package.

Specification

```
public class BooleanHolder extends Holder
```

Dependencies

```
java.lang.Boolean
```

Constructors

```
public BooleanHolder( Boolean f ) -- Creates an instance containing the specified Boolean value.
```

Methods

```
public void setValue( Boolean f ) -- Sets the boolean instance contained in the holder class.
```

Inherited methods

```
public Object getValue -- Retrieves the instance contained in the holder class.
```

IntegerHolder Class

Description

Holder class to contain the Integer class. Use this class to pass Integer values by reference. This class is part of com.sybase.dpb package.

Specification

```
public class IntegerHolder extends Holder
```

Dependencies

```
java.lang.Integer
```

Constructors

```
public IntegerHolder( Integer f ) -- Creates an instance containing the specified Integer instance.
```

Methods

```
public void setValue( Integer f ) -- Sets the Integer instance contained in the holder class.
```

Inherited methods

```
public Object getValue -- Retrieves the instance contained in the holder class.
```

StringHolder Class

Description

Holder class to contain the String class. Use this class to pass String values by reference. This class is part of com.sybase.dpb package.

Specification

```
public class StringHolder extends Holder
```

Dependencies

```
java.lang.String
```

Constructors

```
public StringHolder( String f ) -- Creates an instance containing the specified String instance.
```

Methods

```
public void setValue( String f ) -- Sets the String instance contained in the holder class.
```

Inherited methods

```
public Object getValue -- Retrieves the instance contained in the holder class.
```

RemoteException Class

Description

All 24x7 Java API methods throw the RemoteException exception. This class is part of com.sybase.dpb package.

Specification

```
public class RemoteException extends java.lang.Exception
```

Dependencies

```
java.lang.Exception
```

Constructors


public RemoteException() -- Creates an exception.




public RemoteException(String s) -- Creates an exception using the specified message text. Call the ancestor **getMessage** method to retrieve the message text.




Job Properties in JDL Format





All job properties are documented in the 24x7 Scheduler User's Guide. This topic can be used as a quick reference for supported job properties and their JDL names.



Job Definition Language (JDL) supports the following property names:




Property Name	Meaning
ACCOUNT	E-mail Account such as user ID, profile, or e-mail address (e-mail watch job). The actual value may differ for different e-mail interfaces. For a MAPI interface you should use the name of the MAPI profile you use when logging on to the e-mail system. For Lotus Notes you should use the name of the user (or ID) you use when logging on to the Lotus Notes. For SMTP you should use your e-mail address.
AGENT	Same as Host (see Host description)
ALL_DAY_TYPE	All Day Schedule Type, one of the following: R , L (R - recursive, repeat at specified intervals; L - fixed time list)
ARCHIVE_OUTPUT	Capture and archive job output, one of the following: Y , N (yes, no)  Note: This property is not used in 24x7 Scheduler Windows-only Edition.
AS_GROUP	Name of Auto-scaling group assigned to the job
ASYNC	Asynchronous Process, one of the following: Y , N (yes, no)
BACKUP_AGENT	Same as Backup Host (see Backup Host description)
BACKUP_HOST	Backup Remote Host (e.g. Backup Remote Agent name)
CALENDAR	Name of the Calendar object assigned to the job
COMMAND	Program Command Line
DAY_END_TIME	Daily End Time for "all day" jobs with limited run-time interval
DAY_LIST	Monthly Schedule List of fixed Day Numbers, numbers must be in 1..31 range. Example: 1,3,5,7,14. This property is shared with TIME_LIST property for All Day Schedule.
DAY_NAME	Monthly Schedule Day Name, one of the following: Monday , Tuesday , Wednesday , Thursday , Friday , Saturday , Sunday , Weekend, Weekday
DAY_NUMBER	Monthly Schedule Day Number, a number from 1 - 31 range
DAY_START_TIME	Daily Start Time for "all day" jobs with limited run-time interval
DELAY	Allowed Job Delay Interval (minutes)
DELETE_RULE	Delete, Move, and Rename Semaphore File Rules, one of the following: D , A , B , M , E , R , C , F , G (D - do not delete, move, rename; A - delete after job run; B - delete before job run; M - move before job run; E - move after job run; R - rename before job run; C - rename after job run; F -move and rename before job run; G - move and rename after job run)
DESCRIPTION	Job Description
DISABLE_ON_ERROR	Disable Job on Error, one of the following: Y , N (yes, no)
DISABLED	Job Disabled Status, one of the following: Y , N (yes, no)

DETACHED	Detached Job, one of the following: Y, N (yes, no)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
END_DATE	Last Job Start Date
END_TIME	Last Job Start Date
EXIT_CODE	Exit Code Condition (as a string expression)
FILE	Semaphore File Names(s) for file-watch jobs; Module Name for process-watch job
FOLDER	Job Folder ID. This is read-only property. It may not be changed using SET command. It can be retrieved using GET command
FOLDER_NAME	Job Folder Name. This is read-only property. It may not be changed using SET command. It can be retrieved using GET command
FRIDAY	Execute Job On Fridays, one of the following: Y, N (yes, no)
HOST	Remote Host (Remote Agent Name)
ID	Job ID, This is read-only property. It may not be changed using SET command. It can be retrieved using GET command with Job Name parameter.
IGNORE_ERRORS	Ignore Errors, one of the following: Y, N (yes, no)
INIT_TIMEOUT	Initial Timeout before sending keystroke (seconds)
INTERVAL	Repeat Interval for Job having Schedule Type T
JOB_PASSWORD	Job Protection State and Password. Sets or removes job protection state and password. This is a write-only property. It can be changed using SET command, but it cannot be retrieved using GET command. The value in this property must be specified in the following format : [old password][tab character][new password][tab character][protection state] If the job is not protected, the [old password] is ignored, otherwise a valid password must be specified in order to remove or change job password or protection state. If the protection exists and the new protection state is specified as an empty string the protection will be removed. The protection code must one of the following: F, E, R , an empty string (F -full protection; E - execute only; R - read only; an empty string indicates that a job is not protected).
JOB_TYPE	Job Type, one of the following: P, D, S (program, database, script)
KEYSTROKE	Keystroke to send to the launched program.  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
LOG	Log Job Execution, one of the following: Y, N (yes, no)
MESSAGE	E-mail Message Text (e-mail watch job).  Note: This is used in email-watch jobs only. Do not confuse this with Message triggers. The legacy property named Message is preserved for backward compatibility reasons.
MESSAGE_ACTION_TYPE	Type of Action that the job should perform after being triggered by a Message, one of the following D, B, A (do nothing, delete message before starting job execution,

	delete message after job executions completes.
MESSAGE_ID	Message ID of the Message to monitor. This is used in Message-watch job triggers. Do not confuse this with email messages.
MODIFY_TERMINAL	Network name of the computer from which the job was last modified. This is a read-only property. It cannot be changed using SET command. It can be retrieved using GET command.  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MODIFY_TIME	Date and time when the job was modified. This is a read-only property. It cannot be changed using SET command. It can be retrieved using GET command.  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MODIFY_USER	Name of the user who last modified the job. This is a read-only property. It cannot be changed using SET command. It can be retrieved using GET command.  Note: This property is not used in 24x7 Scheduler Multi-platform Edition
MONDAY	Execute Job On Mondays, one of the following: Y , N (yes, no)
MONTHLY_TYPE	Monthly Schedule Type, one of the following: D , T , L (D - by day number; T - by day name; L - fixed day list)
MOVE_DIR	Name of the destination directory for semaphore file move and rename operations.
MSG_ACCOUNT	E-mail Account for Notification Action of E-mail Type E-mail (user ID, profile, or e-mail address). The actual value may differ for different e-mail interfaces. For the MAPI interface you should use the name of the MAPI profile you use when logging on to the e-mail system. For Lotus Notes you should use the name of the user (or ID) you use when logging on to Lotus Notes. For SMTP you should use your e-mail address.
MSG_ACTIONS	Map of Notification Actions and Events in text format. The map is represented as a comma-separated list of 2-character values where in every list item the first character represents Notification Event Type and the second character represents Notification Action Type. The following characters can be used for the event type: S - job start, F - job finish, E - job error, N - job file not found, L - job is late. The following characters can be used for the action type: E - send email, P - send page, N - send network popup message, D - execute database commands, F - create semaphore files, M - send Message; T - send SNMP trap, J - run job, R - run program, S -run script. Example map: SE,FE,EE,FD This example map represents the following Notification Events and Events: 1. Send notification email on job start. 2. Send notification email on job finish. 3. Send notification email on job error.

	4. Execute database commands on job finish.
MSG_DATABASE	Execute Notification Action of Database Type, one of the following: Y, N (yes, no)
MSG_EMAIL	Execute Notification Action of E-mail Type, one of the following: Y, N (yes, no)
MSG_ERROR	Execute Notification Action on Job Execution Error, one of the following: Y, N (yes, no)
MSG_FILE	Execute Notification Action of Semaphore File Type, one of the following: Y, N (yes, no)
MSG_FILE_NAME	File name(s) for Notification Action of Semaphore File Type
MSG_FINISH	Execute Notification Action on Job Finish, one of the following: Y, N (yes, no)
MSG_JOB	Execute Notification Action of Run Job Type, one of the following: Y, N (yes, no)
MSG_JOB_ID	Job name or job id for Notification Action of Run Job Type
MSG_MESSAGE	Execute Notification Action of Message Type, one of the following: Y, N (yes, no)
MSG_MESSAGE_DATA	The data to send in Notification Action of Message Type. The data format is user defined. The size of the data shouldn't exceed 1 MByte
MSG_MESSAGE_ID	Message ID of the Message sent in Notification Action of Message Type
MSG_LATE	Execute Notification Action on Job Late Start, one of the following: Y, N (yes, no)
MSG_NET	Execute Notification Action of Network Message Type, one of the following: Y, N (yes, no)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MSG_NET_RECIPIENT	Message Recipient for Notification Action of Network Message Type  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MSG_NOTFOUND	Execute Notification Action on Job Executable Not Found Error, one of the following: Y, N (yes, no)
MSG_PAGE	Execute Notification Action of Page Type, one of the following: Y, N (yes, no)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MSG_PAGER	Page Recipient's Pager Number  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
MSG_PASSWORD	E-mail Password for Notification Action of E-mail Type
MSG_PROFILE	Database Profile for Notification Action of Database Type
MSG_PROGRAM	Execute Notification Action of Run Program Type, one of the following: Y, N (yes, no)
MSG_PROGRAM_NAME	Program name for Notification Action of Run Program Type
MSG_PROGRAM_TIMEOUT	Process Timeout (seconds) for Notification Action of Run Program Type

MSG_RECIPIENT	E-mail Recipient for Notification Action of E-mail Type
MSG_SCRIPT	Execute Notification Action of Run Script Type, one of the following: Y, N (yes, no)
MSG_SCRIPT_CODE	JavaScript script for Notification Action of Script Type
MSG_SCRIPT_TYPE	Type of Script for Notification Action of Script Type, Only JS (JavaScript) is supported in 24x7 Scheduler Multi-platform Edition for notification actions.
MSG_START	Execute Notification Action on Job Start, one of the following: Y, N (yes, no)
MSG_TRAP	Execute Notification Action of Send SNMP Trap Type, one of the following: Y, N (yes, no) NAME Job Name
MSG_SQL	SQL script for Notification Action of Database Type
MQ_PROFILE	MQ broker profile
MQ_SAVE_DIR	The output directory in which to save messages downloaded from MQ broker
MULTI_INSTANCE_CONTROL	Job queuing rule for handling multiple job instances, one of the following: R – always queue and run, T – terminate already running and queued job instances if any, and add new instance, S – if there are already running or queued job instances, skip new instance and do nothing, E – if there are already running or queued job instances, skip new instance and raise an error.
NAME	Job Name
OUTPUT_PATTERN	Job Output evaluation pattern This property is not used in 24x7 Scheduler Windows-only Edition.
PASSWORD	E-mail Password (e-mail watch job)
POLLING_INTERVAL	Polling Interval (minutes)
PRIORITY	Job Priority, one of the following: -1 – low, 0 – normal, 1 – high
PROFILE	Database Profile
PROTECTION	Job Protection State, one of the following: F, E, R , an empty string (F – full protection; E – execute only; R – read only; an empty string indicates that a job is not protected). This is a read-only property. It cannot be changed using SET command. It can be retrieved using GET command.
QUEUE	Job Queue
REBOOT	Reboot Computer After Job Finished, one of the following: Y, N (yes, no)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
RETRY_INTERVAL	Retry Interval (seconds)
RENAME_SUFFIX	Retry Interval (seconds)
RETRY_ON_ERROR	The name suffix used in semaphore file names for rename operations.
RUNAS_DOMAIN	Domain Name for authentication of jobs to be run using another user account.  Note: This property is not used in 24x7 Scheduler Multi-platform Edition. In that version the RUNAS_USER must contain both the domain and user names in

	domain\user format.
RUNAS_PASSWORD	Password for authentication of jobs to be run using another user account.
RUNAS_USER	User Name for authentication of jobs to be run using another user account.
SATURDAY	Execute Job On Saturdays, one of the following: Y, N (yes, no)
SAVE_ATTACHMENT	Save E-mail Attachments (e-mail watch job), one of the following: Y, N (yes, no)
SCHEDULE_TYPE	Schedule Type, one of the following: O, D, T, M, F, P, A, E, I, L, S (Time trigger: O – run once, D – repeat daily, T – repeat at specified time interval, M – repeat monthly; File trigger: F – check semaphore files; Process trigger: P – check process presence, A – check process absence; E-mail trigger: E - check e-mail message; User trigger: I – wake up on "user idle" event, L - wake up on log-off event, S – wake up on shutdown event)
SCRIPT	Job Script
SCRIPT_TYPE	Job Script Type, one of the following: JAL, VBS, JS (Job Automation Language, Visual Basic Script, JavaScript)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
SEND_KEYSTROKE	Send Keystroke, one of the following: Y, N (yes, no)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.
SIZE_CHECK_INTERVAL	File Size Stability Check Interval (used in File-watch jobs)
SKIP	Skip Late Job, one of the following: Y, N (yes, no)
SKIP_HOLIDAY	Skip Job on Holiday, one of the following: Y, N (yes, no)
SLIDE_HOLIDAY	Slide Job Execution Time on the next non-holiday if it falls on holiday, one of the following: Y, N (yes, no)
SQL	SQL Command(s)
START_DATE	First Start Date
START_IN	Program Start-up Directory
START_TIME	First Start Time
SUBJECT	E-mail Message Subject for (e-mail watch job)
SUNDAY	Execute Job On Sundays, one of the following: Y, N (yes, no)
TIME_LIST	All Day Schedule List of fixed Times, values must be in valid 24-hour time format. Example: 11:10,12:10,17:10,18:10. This property is shared with DAY_LIST property for Monthly Schedule.
THURSDAY	Execute Job On Thursdays, one of the following: Y, N (yes, no)
TIMEOUT	Timeout (seconds)
TUESDAY	Execute Job On Tuesdays, one of the following: Y, N (yes, no)
WEDNESDAY	Execute Job On Tuesdays, one of the following: Y, N (yes, no)
WINDOW	Window Style, one of the following: N, M, I, H (normal, maximized, iconic, hidden)  Note: This property is not used in 24x7 Scheduler Multi-platform Edition.

Installation

Minimal System Requirements

1. 24x7 Scheduler Multi-platform Edition v7.0 or later
2. 1.8 Mbytes free disk space
3. JDK 1.8 or later

Installation Steps

Run 24x7 Scheduler installation program. Follow instructions provided by the installation program.

Post-installation Steps

In order to start using 24x7 Java API you must add *jdpb24x7.jar* and *jdl3.1.0.jar* file names to the ClassPath option. You must also add import statements for *com.sybase.dpb* and *com.softtreetech.scheduler* as needed in your Java classes.

```
import com.sybase.dpb.*;  
import com.softtreetech.scheduler.*;
```

Security Issues

To secure access to the remote 24x7 Scheduler servers enable security options on these servers. For more information please see "Security" topic in the 24x7 Automation Suite User's Guide and on-line help files.

Licensing

1. **Single installation license:** A separate single installation license is required for every 24x7 Remote Control Java installation. That's it, you need at least 2 single licenses (or a site license) for using 24x7 Remote Control Java to control and manipulate 24x7 Scheduler or 24x7 Remote Agent. In case of 2 single licenses, one license is applied to the 24x7 Scheduler server or 24x7 Remote Agent and another license is applied to the 24x7 Remote Control Java.
2. **Site license:** 24x7 Scheduler site license covers unlimited usage of 24x7 Remote Control Java. Site license users can use 24x7 Remote Control Java just as they use other components of the 24x7 Automation Suite. The usage of 24x7 Scheduler, 24x7 Remote Agents, 24x7 Remote Control, 24x7 Remote Control Java and 24x7 Remote Control COM is governed by their site license agreement. The site license also allows installing and using 24x7 Remote Control Java on **one** Web server. You may not install or run it on multiple servers using the same license.

3. **Web server usage:** You must obtain 24x7 Scheduler site license before you can use 24x7 Remote Control Java on your server. A separate site license is required for every web server utilizing 24x7 Remote Control Java.
4. **Redistribution:** You must obtain 24x7 Remote Control Java redistribution license before you can redistribute it with your program.



Important note about third party packages provided with the 24x7 Java API:

24x7 Java API license includes installation and usage for *com.sybase.dpb* and *com.objectspace.jdl* packages. You may not use or redistribute these packages separately from 24x7 Java API.

The LICENSE.TXT file can be found in the 24x7 Scheduler installation directory. If you would like to obtain the redistribution license, please email your request to sales@softtreetech.com.