Site Studio Publishing Utility Installation Guide
10*g* Release 3 (10.1.3.3.0)

May 2010

ORACLE®

Site Studio Publishing Utility Installation Guide, 10*g* Release 3 (10.1.3.3.0)

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CHAPTER 1

Introduction

This installation guide describes how to install and configure Site Studio Publishing Utility (SSPU), which is used to publish a Site Studio web site. With Site Studio, you build and manage your web site in Content Server. At some point, you may find that you would like to publish the web site from a Content Server to a web server that is not running a Content Server instance. This process is referred to as publishing.

Site Studio Publishing Utility allows you to publish a Site Studio web site from a Content Server environment to a pure web server environment (that is, one running Microsoft IIS, Apache, etc.).

Site Studio Publishing Utility creates a static snapshot of a dynamic site by traversing all the links in a web site (visiting all of the linked pages) and downloading a copy of each page and all of the resources (images, flash movies, etc.) for each page. Your entire web site (including content picked up by queries, layout pages, fragments, contributor data files, and native documents) will be copied and published to the new server.

Note: You must have Site Studio version 7.5 installed. If you have a previous version of Site Studio, upgrade to version 7.5 before installing Site Studio Publishing Utility.

In this section:

- Installation requirements
- Default port assignments
- Firewall considerations
- Windows FTP Server configuration
- Upgrading from a previous version
- Documentation and online Help

Installation requirements

Operating system, database, and JVM requirments must be met before installilng Site Studio Publishing Utility.

Operating system

Site Studio Publishing Utility is supported on these operating systems:

- Windows: 2000, XP, and 2003.
- UNIX-based: Solaris and Linux.

Database

Site Studio Publishing Utility requires one of these databases:

- Microsoft SQL Server 2000 with Service Pack 2 (SP2) or greater.
- IBM DB2 8.0.1 or greater.
- Oracle9i Database.

Java Virtual Machine (JVM)

Site Studio Publishing Utility requires that JDK/SDK version 1.4.x be installed on your machine. We recommend that you use JDK/SDK 1.4.2 (for example, j2sdk1.4.2). If a supported version is not already installed on your machine, you can download a Java Virtual Machine from the following web site:

http://java.sun.com/

Download the JDK/SDK version 1.4.x for your operating system and install it according to the installation instructions provided.

Important: Do not use Microsoft Jview or the JRE.

Setting the Max Heap Size

The Max Heap Size is the maximum amount of physical memory allocated to the Java Virtual Machine (JVM) running Site Studio Publishing Utility. The default configuration is 128 MB for Site Studio Publishing Utility. For many production Site Studio implementations this setting is too low. As the total number of items in a crawled Site Studio web site increases, the amount of memory used by Site Studio Publishing Utility during the crawl increases. A low memory setting will result in slower crawl times and ultimately out-of-memory messages in the log files.

For production implementations, it is recommended that the default be changed to 256 MB. Changing the Max Heap Size setting must be done in two places:

- **cns.wrapper.conf file** — Change the value for the variable wrapper.java.maxmemory. This file is located in SSPU's conf subdirectory.

- **cns.sqlserver.bat** (or **cns.oracle.sh** depending on database) — Change the value in the command line argument from -mx128m to -mx256m. This file is located in SSPU's installation directory.

It is also recommended that the Max Heap Size for Subscription Client be changed to128mb. The default is 64mb. Changing the Max Heap Size setting must be done in two places for the Subscription Client.

- **sub.wrapper.conf** — Change the value for the variable wrapper.java.maxmemory. This file is located in the Subscription Client install root /conf/ directory.

- **launch-program.bat** (or **launch-program.sh**) — Change the value in the command line argument from -mx64m to -mx128m. This file is located in the Subscription Client install root directory.

  For example:

  C:/j2sdk1.4.2_03/bin/java -mx128m -Djava.security.auth.login.config="./conf/cns_client_jaas.config" bootstrap.SubscriberStart $

Default port assignments

The default port numbers used by Site Studio Publishing Utility are:

Port Number	Uses	Component
8885	push server for SSL	Subscription Client
8886	push server	Subscription Client
8887	administration server	Subscription Client

Port Number	Uses	Component
8880	master server	Publishing Utility
8889	administration server (this is the Publish Server URL port number)	Publishing Utility
8890	ICE server	Publishing Utility
8891	file server	Publishing Utility
8893	ICE server for SSL	Publishing Utility
8894	file server for SSL	Publishing Utility

Firewall considerations

Under normal distribution operations, the Site Studio Publishing Utility administration server communicates only internally, not across the Internet. Thus, if both Site Studio Publishing Utility and the Subscription Client reside behind a firewall, the ports can remain closed.

Important: If Site Studio Publishing Utility and the Subscription Client are separated by a firewall, ports 8890 and 8891must be opened through the firewall to allow the Subscription Client to communicate with Site Studio Publishing Utility.

Windows FTP Server configuration

SSPU supports Windows FTP Servers only in the UNIX Directory Listing Style, not with MS-DOS directory style.

1. Open IIS Manager and select **FTP Sites**.

2. Click **Action > Properties** from the main menu.

3. Select the **Home Directory** tab.

4. Directory Listing Style: enable the **UNIX** option.

5. FTP Site Directory: enable the **Write** option.

6. Click **OK** and select the related child-nodes. The Default FTP Site must be set to writable.

7. Click **OK** and restart the FTP server.

Upgrading from a previous version

Before Site Studio Publishing Utility version 7.5, publishing web pages from a Site Studio web site to a static web site was performed through an integrated interface from the Site Studio Administration page. Site Studio Publishing Utility now provides its own administration interface. The new interface allows an administrator to quickly define the web sites to be published, the publish destinations, and the update schedule.

To upgrade to version 7.5

1. On Content Server, disable the Site Studio Publishing Utility component.

2. You must have Site Studio version 7.5 installed. If you have a previous version of Site Studio, upgrade to version 7.5 before installing Site Studio Publishing Utility.

3. Follow the steps for installing Site Studio Publishing Utility.

If you choose to install Site Studio Publishing Utility version 7.5 on the same machine as Site Studio Publishing Utility version 7.2, you can select **Update a Site Studio Publishing Utility** when you run the installation (see "Installing Site Studio Publishing Utility" on page 9 for more information). However, you must update your database tables.

Documentation and online Help

The documentation for Site Studio Publishing Utility is available in the installation directory.

Documentation	Format	Availability
Release Notes	PDF	Available on the DVD or in the distribution ZIP file.
Installation Guide	PDF	Available on the DVD or in the distribution ZIP file.
Administration Guide	PDF	Available on the DVD or in the distribution ZIP file.

Conventions used in this guide

The User Guide contains the following conventions:

Convention	Definition
Bold	Indicates an item that you select in the Designer or Contributor interface, such as a button or menu, in order to perform a specific task: Click **OK** to confirm the deletion.
>	Indicates a menu choice. For example, "Choose **File > Open**" means "Click the **File** menu, and then click **Open**."
Code	Indicates the actual code used by Designer and code you can enter in Source view in a layout page.

CHAPTER 2

Installation steps

This section describes how to install and configure both Site Studio Publishing Utility and Subscription Client. The Site Studio Publishing Utility is the server side of the system and either a Subscription Client or an FTP server serves as the client side of the system. The Subscription Client is generally installed on every machine that hosts a web server (unless you choose to use an FTP server).

Note: You must have Site Studio version 7.5 installed. If you have a previous version of Site Studio, upgrade to version 7.5 before installing Site Studio Publishing Utility.

In this section:

- Installing Site Studio Publishing Utility
- Installing the Subscription Client
- Configuring Site Studio Publishing Utility
- Configuring the Subscription Client
- Uninstalling Site Studio Publishing Utility and Subscription Client

Installing Site Studio Publishing Utility

Site Studio Publishing Utility may be installed on the same machine as Content Server. However, we recommend that Site Studio Publishing Utility be installed on a dedicated server.

To install Site Studio Publishing Utility

1. Insert the DVD or unbundle the distribution ZIP file.

2. Navigate to the SiteStudioPublishingUtility\\win32\ directory and launch **Setup.exe** (for UNIX, run the /unix/install.sh executable).

3. When the InstallShield Wizard displays, click **Next**.

4. Click **Yes** to accept the license agreement.

5. If this is a new installation, choose the **Install a new Site Studio Publishing Utility** option (Update and Remove options are also available).

6. Click **Next**.

7. Accept the default directory (recommended) or enter a destination folder.

8. Click **Next**.

9. Enter the path to the Java Virtual Machine to use (for example, j2sdk1.4.2). See "Java Virtual Machine (JVM)" on page 6 for more information.

10. Click **Next**.

11. Review the settings before copying the files.

12. Click **Next**.

13. Click **Finish**.

Setting up the database

This section explains how to configure Site Studio Publishing Utility for each of the supported database management systems.

Configure Oracle driver

If you have not yet created an Oracle database for use with SSPU, create one first and then run the SQL script syn_server.oracle8.sql to create tables. The script can be found in SSPU's `sql` subdirectory. Refer to your Oracle documentation for information about running SQL scripts.

Note: The database tables owned by the login associated with SSPU must be created in their own dedicated tablespace.

If your database is not set up properly, the following error messages will be returned:

```
database driver could not be loaded
failed to open the database
```

Configure Microsoft SQL Server driver

In SQL Server, create a database. In the new database, use SQL Query Analyzer to load and execute the syn_server.mssql2000.sql creation script located in SSPU's `sql` subdirectory. This script will create the tables within the database. Refer to your Microsoft SQL Server 2000 documentation for information about running SQL scripts.

If your database is not set up properly, the following error messages will be returned:

```
database driver could not be loaded
failed to open the database
```

Configure DB2 driver

The DB2 driver is not included in the SSPU distribution zip file. You must copy syn_server.db2.sql from CNS_HOME/sql/ to a directory on your DB2 host. Then, copy the db2jcc.jar or db2jcc.zip file from the DB2 installation directory sqllib/java/ to the CNS_HOME/lib/ directory. And finally, create database and tables in DB2 (using the DB2 Command Window).

For example:

```
db2 CREATE DB <db anme> ALIAS <db alias>
db2 CONNECT TO <db alias> USER <user> USING <password>
db2 -tvf syn_server.db2.sql
```

Connect Site Studio Publishing Utility to your database

This section describes how to configure your Site Studio Publishing Utility installation for the appropriate database.

To connect to Oracle

1. Using a text-only editor, open the cns.oracle.config file located in the directory where Site Studio Publishing Utility is installed. This is the sample configuration file for Oracle (see below).

```
<database type="oracle">
<driver jdbcURL="jdbc:oracle:thin:@SERVER:1521:NAME"
driver="oracle.jdbc.driver.OracleDriver"/>
<user username="USER" password="PASSWORD"/>
</database>
```

2. Replace SERVER with the name of your Oracle server (e.g., "10.10.1.248" or "server7").

3. The default port is 1521. Change this, if necessary.

4. Replace NAME with the name you have given the database on the server (e.g., "sspu").

5. Replace USER and PASSWORD with the user name and password used to access the database.

For example:

```
<database type="oracle">
<driver jdbcURL="jdbc:oracle:thin:@server7:1521:sspu"
driver="oracle.jdbc.driver.OracleDriver"/>
<user username="administrator" password="administrator"/>
</database>
```

6. Start the server by executing the cns.oracle.bat file.

Note: The default administrator user name and password is administrator / administrator.

To connect to DB2

1. Using a text-only editor, open the cns.db2.config file located in the directory where Site Studio Publishing Utility is installed. This is the sample configuration file for DB2 (see below).

```
<database type="db2">
<driver jdbcURL="jdbc:db2://SERVER:50000/NAME"
driver="com.ibm.db2.jcc.DB2Driver"/>
<user username="USER" password="PASSWORD"/>
</database>
```

2. Replace SERVER with the name of your DB2 server (e.g., "10.10.1.248" or "server7").

3. The default port is 50000. Change this, if necessary.

4. Replace NAME with the name you have given the database on the server (e.g., "sspu").

5. Replace USER and PASSWORD with the username and password used to access the database.

For example:

```
<database type="db2">
<driver jdbcURL="jdbc:db2://server7:50000/sspu"
driver="com.ibm.db2.jcc.DB2Driver"/>
<user username="administrator" password="administrator"/>
</database>
```

6. Save and close the file.

7. Start SSPU by executing the sspu.db2.bat file.

Note: The default administrator user name and password is administrator / administrator.

To connect to MS SQL Server

1. Using a text-only editor, open the cns.sqlserver.config file located in the directory where Site Studio Publishing Utility is installed. This is the sample configuration file for SQL Server (see below).

```
<database type="mssql">
<driver jdbcURL="jdbc:microsoft:sqlserver://SERVER:1433;
DatabaseName=NAME; SelectMethod=cursor"
driver="com.microsoft.jdbc.sqlserver.SQLServerDriver"/>
<user username="USER" password="PASSWOORD"/>
```

2. Replace SERVER with the name of your SQL server (e.g., "10.10.1.248" or "server7").

3. The default port is 1433. Change this, if necessary.

4. Replace NAME with the name you have given the database on the server (e.g., "sspu").

    Refer to your Microsoft (SQL Server) JDBC driver's documentation for more information on using the DatabaseName property in the connection string.

5. For the SelectMethod propery, use the "cursor" select method.

6. Append the driver path.

    For example:

    ```
    com.microsoft.jdbc.sqlserver.SQLServerDriver
    ```

7. Replace USER and PASSWORD with the user name and password used to access the database.

    For example:

```
<database type="mssql">
<driver jdbcURL="jdbc:microsoft:sqlserver://server7:1433;
DatabaseName=sspu; SelectMethod=cursor"
driver="com.microsoft.jdbc.sqlserver.SQLServerDriver"/>
<user username="administrator" password="administrator"/>
</database>
```

8. Start the server by executing the cns.sqlserver.bat file.

Note: The default administrator user name and password is administrator / administrator.

Installing as a Windows service

You can install Site Studio Publishing Utility as a service on Windows. This will allow you to keep Site Studio Publishing Utility running after you have logged out, and it will inhibit unauthorized users from tampering with SSPU's operation.

To install as a Windows service

1. Make sure that you are logged into the machine with administrator rights.

2. Using a text-only editor, open the cns.wrapper.config file located in SSPU's `conf` subdirectory.

3. Edit the configuration file (make sure that you have the correct SSPU configuration file specified in cns.wrapper.config):

- For MS SqlServer (default)

  ```
  wrapper.app.parameter.1=cns.sqlserver.config
  ```

- For Oracle

  ```
  wrapper.app.parameter.1=cns.oracle.config
  ```

- For DB2

  ```
  wrapper.app.parameter.1=cns.db2.config
  ```

4. Open a Command Prompt window:

    - In the Start menu, click **Run**.

    - In the Run dialog box, type **cmd**.

    - Click **OK** to open the Command Prompt window.

5. Change to the directory where you installed Site Studio Publishing Utility.

6. Type **cns.service-install.bat**.

This process installs the service; it does not start it. You can start the service from the Control Panel Services applet or by rebooting.

Note: If you choose to remove the service, enter the following on a command line, from the same Site Studio Publishing Utility installation directory: **cns.service-uninstall.bat**.

Installing the Subscription Client

Subscription Client is the client-side component of Site Studio Publishing Utility. The Subscription Client is generally installed on every machine that hosts a web server (unless you choose to use an FTP server). This is the destination for publishing.

To install the Subscription Client

1. Insert the DVD or unbundle the distribution Zip file.

2. Navigate to your Subscription Client `\win32\` subdirectory and launch **Setup.exe** (for UNIX, run the /unix/install.sh executable).

3. When the InstallShield Wizard displays, click **Next**.

4. Click **Yes** to accept the license agreement.

5. If this is a new installation, choose the **Install a new Subscription Client** option (Update and Remove options are also available).

6. Click **Next**.

7. Accept the default directory (recommended) or enter a destination folder.

8. Click **Next**.

9. Enter the path to the Java Virtual Machine (e.g., j2sdk1.4.2). For more information, see "Java Virtual Machine (JVM)" on page 6.

10. Click **Next**.

11. Review the settings before copying the files.

12. Click **Next**.

13. Click **Finish**.

Configuring Site Studio Publishing Utility

Follow these steps to configure Site Studio Publishing Utility to communicate with the installed Subscription Client. Generally, you would create a new publish destination for each Subscription Client you install.

To configure Site Studio Publishing Utility

1. Start Site Studio Publishing Utility by running the startup file for your configuration.

   These batch files for Windows and shell scripts for UNIX are located in the directory where Site Studio Publishing Utility is installed:

   - Windows using SQL Server: **cns.sqlserver.bat**

   - Windows using Oracle: **cns.oracle.bat**

   - Windows using DB2: **cns.db2.bat**

   - UNIX using SQL Server: **cns.sqlserver.sh**

   - UNIX using Oracle: **cns.oracle.sh**

   - UNIX using DB2: **cns.db2.sh**

2. Log in as an administrator (the default user name and password is administrator / administrator).

3. On the Administrator interface, click **Destinations**.

4. Click **Create New Destination**.

5. In the Destination Details section, provide a Destination Name (e.g., "Server7") and enter any appropriate information in the Description field.

6. For Destination Type, enable the **Subscription Client** option.

7. Enter a Destination Login and Password for this subscription.

8. In the Subscription Client Details section, enter the Destination Push URL. This is the address of the Subscription Client instance (for example, http://server7:8886).

9. Click **Save**.

Note: For information on publishing a Site Studio web site, see the Site Studio Publishing Utility Administration Guide (PDF).

Configuring the Subscription Client

Follow these steps to configure the Subscription Client to communicate with Site Studio Publishing Utility.

To configure the Subscription Client

1. Start the Subscription Client by running the startup file for your configuration.

   The batch file sub_agent.bat (for Windows) and the shell script sub_agent.sh (for UNIX) are located in the directory where the Subscription Client is installed.

2. Access the Subscription Client Administration interface (e.g., http://localserver:8887) and log in as an administrator (the default user name and password is administrator / administrator).

3. On the Subscription Client Administration interface, click **Content Providers**.

4. Click **Add Content Provider**.

5. Enter these values:

    ■ **Connection Server URL:** The URL for your SSPU instance
       (e.g., http://mainserver).

    ■ **Subscription Client UUID:** The UUID can be found on the SSPU administration
       interface by clicking **Destinations**.

    ■ **Connection Server Password:** Enter your SSPU password. This password can be
       found on the SSPU administration interface by clicking **Destinations** and then
       clicking the destination name (for example, "Server7").

    ■ **Local Directory:** Enter a directory (or browse to a location) where the delivered
       content will reside.

6. Click **Save**.

Note: For information on publishing a Site Studio web site, see the Site Studio Publishing
Utility Administration Guide (PDF).

Uninstalling Site Studio Publishing Utility and Subscription Client

If you no longer want to use Site Studio Publishing Utility or the Subscription Client, you can
uninstall them by following the steps below.

To uninstall Site Studio Publishing Utility

1. Insert the Site Studio Publishing Utility DVD.

2. Navigate to SSPU's `win32` subdirectory.

3. Double click **Setup.exe.**

    Note: For UNIX, run the /unix/install.sh executable.

4. Choose the **Remove a Site Studio Publishing Utility** option.

5. Follow the instructions on the screen to uninstall Site Studio Publishing Utility.

To uninstall the Subscription Client

1. Insert the Site Studio Publishing Utility DVD.

2. Navigate to your Subscription Client `\win32` subdirectory.

3. Double click **Setup.exe.**

    Note: For UNIX, run the /unix/install.sh executable.

4. Choose the **Remove a Subscription Client** option.

5. Follow the instructions on the screen to uninstall Subscription Client.

CHAPTER 3

Subscription Client administration

Subscription Client is the client-side component of the Publishing Utility. The Subscription Client is generally installed on every machine that hosts a web server (unless you choose to use an FTP server).

In this section:

- Subscription Client administration interface
- Subscription Client general settings
- Subscription Client configuration file

Subscription Client administration interface

Start the Subscription Client by running the startup file for your configuration. The batch file sub_agent.bat (for Windows) and the shell script sub_agent.sh (for UNIX) are located in the directory where the Subscription Client is installed.

Access the Subscription Client Administration interface (e.g., http://localserver:8887) and log in as an administrator (the default user name and password is administrator / administrator).

Controlling the browser display

Important: The software must be shut down for any edits to the configuration file to take effect. If you edit while the software is running, a warning dialog will display the next time you shut down, stating that the changes you made to the file will be overwritten.

You can control whether the Status window or the Subscription Client administration interface displays at startup by changing the Startup Options in the Settings page of the administration interface, or by changing the following <options> elements in the Subscription Client configuration file (siclone.config):

- **run-interactive** — To display the Status Window at startup, set to true; to prevent it from displaying at startup, set to false.
- **start-browser** — To display the administration interface at startup, set to true; to prevent the interface from displaying at startup, set to false

Example:

```
<options run-interactive="true" start-browser="true">
```

Stopping the Subscription Client

When you stop the Subscription Client, you may shut it down completely or you may shut it down and immediately restart it. If you are using the administration interface and Status Window, always close Subscription Client using the Shutdown option in the Subscription Client navigation bar.

Subscription Client general settings

The following settings identify your Subscription Client and determine its operational properties:

- **Identity** — Provides security for the Subscription Client administration interface. You can specify an identity name and password to prevent non-administration users from changing important settings. The identity name and password strings are case-sensitive.

- **Proxy Server** — An intermediate server in your network that receives requests for Internet access. If a proxy server is in use at your site, configure the Subscription Client to use it. See a network administrator at your site for information about proxy servers in your environment.

  For a proxy server, you specify its IP address and port number; if your proxy server is secure, you must provide the port number on which the proxy server listens for SSL authentication.

- **Log Settings** — While the Subscription Client is running, it automatically generates a log file named subscriber.log.

  By default, the Subscription Client uses a rotation method to manage its log file. Additional log files are created when the current one reaches its maximum configured size. The Subscription Client continues to generate log files of a constant size until it has generated the number configured. After the specified number of files is reached, the Subscription Client deletes the oldest log file each time it creates a new one. Thus, the most recent logging information is always retained. Using a rotating scheme controls the amount of disk space used for storing log messages.

  The file size for subscriber.log is 1024 KB (maximum size allowed). The default number of files to rotate is 7; the maximum number is 100.

- **Startup Options** — Determine the components of Subscription Client that display at startup. If you have a Windows version of the Subscription Client, both the browser-based Subscription Client Administrator and the Subscription Client Status Window display on initial startup. If you have a UNIX-based version of Subscription Client, neither element displays on initial startup.

- **Auto Upgrade** — Keeps the Subscription Client application up-to-date with the latest software releases. If this option is enabled, application updates released are automatically applied to the Subscription Client. The Subscription Client briefly stops, applies the upgrade, then restarts, with minimal downtime. By default, auto upgrade is enabled.

Subscription Client configuration file

The entries in the Subscription Client configuration file (siclone.config) control the operation of the software. The configuration file also stores entries related to extension and customization of the Subscription Client functions.

The configuration file contains these elements: siclone, options, log, proxy, ssl, extensions, and extension.

siclone element

The siclone element is the root element of the configuration file; it is the beginning and ending statement in the file. The siclone element contains a set of global operating settings for the Subscription Client and has these child elements: options (1), defaults (1), extensions (1), and job (any number, including none). It has the following attributes:

Attribute	Purpose	Default
last-run-product-code	name of the component that created the configuration file	subscriber
last-run-version	release level of the Subscription Client that last ran on the PC	none
last-run-os	operating system on the PC where the Subscription Client last ran	none

options element

The options element contains the Subscription Client's global settings and has these child elements: log (1), proxy (1), and ssl (1). It has the following base attributes:

Attribute	Purpose	Values and Default
run-interactive	controls the display of the Status window at startup	**true** displays the Status window at startup **false** disables display of the Status window at startup Default: true
start-browser	controls starting the web browser at startup (with the Subscription Client main menu displayed)	**true** enables startup of a web browser with the Subscription Client main menu page **false** disables startup of a web browser Default: true
browser-path	fully-qualified path name to the web browser you want to use for the Subscription Client; this setting overrides auto-detection of the default web browser; for example: C:\Program Files\NetscapeCommunicator\netscape.exe or /usr/local/bin/netscape	Default: none
max-retries	maximum number of times to retry a failed download	Default: 3
ui-port	port to be monitored for the HTML administration interface	valid port number Default: 8887
admin-username	name required to pass the Administration module's authentication	Default: administrator
admin-password	password for the admin-username above; used to pass the Administration module's authentication; base-64 encoded	Default: administrator
push-port	port where the Subscription Client listens for non-SSL push-mode messages	valid port number Default: 8886

Attribute	Purpose	Values and Default
push-ssl-port	port where the Subscription Client listens for push-mode messages using SSL	valid port number Default: 8885
download-timeout	specifies in milliseconds the amount of time the Subscription Client will wait for a download to commence before timing out.	Default: 300000
max-retries	specifies maximum number of times the Subscription Client will attempt to download a file	Default: 3
min-requestor-check	specifies the amount of time in milliseconds that the requester will check for any messages	Default: 30000

log element

The log element contains information about Subscription Client logging. The log element has no child elements It has the following attributes:

Attribute	Purpose	Values and Default
filesize	maximum size, in KB, of the log file	Default: 1024 (largest size allowed)
numfiles	maximum number of log files to create for rotation	Default: 7 (may be as large as 100)
filepath	fully qualified name of the default log file. If only the filename is specified, it is written in the directory where the Subscription Client is installed	Default: subscriber.log
default	default priority level of log messages	priority levels are (in order of decreasing severity); **critical**—serious error or crash **error**—an operation has failed **warning**—unusual conditions **verbose**—detailed progress messages **info**—informational messages **debug**—for programmer use only; includes all levels Default: error
logtofile	specifies where the log information is written	**true**: outputs to log file **false**: outputs to console Default: true
overwrite	specifies whether log files will be overwritten in rotation	**true**: overwrites old log files as defined in the rotation (see numfiles atttribute) **false**: used single log file (non-rotation) Default: true

Logging by facility

You can set the level of severity for events logged from various component facilities of the Subscription Client. The higher the severity level, the fewer the log messages generated.

For any level, log messages for all levels above it are also generated. For example, if the logging level is set to error, messages at the critical level are also generated.

Here is an example of a log element:

```
<options>
<log default="warning" ice="verbose" replicator="debug"/>
</options>
```

This example sets the default logging level to warning, suppressing messages of lower severity and returning messages of higher severity. Messages from the ICE facility are set at the verbose level, while all events, including debugging information, are logged for the replicator facility.

Note: Do not use debug logging level unless specifically instructed to.

These are the facilities for which event logging can be specified:

- **analyzer** — messages from the web server related to analysis of content provider information
- **filter** — messages generated by content filtering
- **httpd** — connection and networking messages
- **ice** — ICE server (ice requests exchanged)
- **replicator** — component that copies web pages to local directories
- **scheduler** — records of times of content distribution
- **SKITL** — messages generated by the Kinecta Transformation Language
- **XMLParser** — XML processing messages

proxy element

The proxy element contains information about using a proxy server, if it exists at your site. The proxy element has no child elements. It has the following attributes:

Attribute	Purpose	Values and Default
proxyset	specifies whether proxy server settings are defined	**true**: proxy server settings are defined
		false: proxy server settings are not defined
		Default: false
host	IP address or host name of the proxy server	valid IP address or host name of the proxy server.
port	port number of the proxy server	Default: null (-1)
ssl-port	port number of the Secure Sockets Layer (SSL) security enabled proxy server port.	valid port number
		Default: null (-1)

Attribute	Purpose	Values and Default
username	user ID for logging into a proxy server that performs authentication	valid user ID for secure proxy server.
password	password associated with the proxyUsername. May be plain text or base-64 encoded; use an @ as the first character of a base-64 encoded password specification	valid password for secure proxy server

ssl element

The proxy element contains information about using Secure Socket Layer. The ssl element has no child elements. It has the following attributes:

Attribute	Purpose	Values and Default
enable	Specifies whether SSL security will be used by the Publishing Utility. Set this attribute to "true" to enable SSL.	**true**: The Publishing Utility will use SSL security to connect to the Administration user interface and the ICE server. **false**: The Publishing Utility can only use non-SSL ports. Default: false
required	Specifies whether only SSL security can be used and prohibits the use of other protocols.	**true**: Only SSL can be used. Non-SSL connection are not supported. **false**: Both SSL and non-SSL connections are supported. Default: false
admin	Specifies whether the Administration user interface is enabled over SSL. Set this attribute to "true" to enable this web-based interface.	**true**: The Administration user interface is enabled. **false**: The Administration user interface is not enabled. Default: false
keystorefilename	The SSL certificate file name.	**yourfilename**: Provide your actual certificate file name.
keystorepass	The SSL Keystore password.	**yourpassword**: Provide your actual password.

Site Studio Publishing Utility no longer provides Secure Sockets Layer (SSL) certificates. You must create a SSL certificate and edit the configuration file to enable SSL. The configuration file for your instance will be "cns.sqlserver.config", "cns.oracle.config", or "cns.db2.config" (depending on your database). An example ssl element would look like this:

```
<ssl enable="true" required="false" admin="true"
    keystorefilename="yourfilename" keystorepass="yourpassword"/>
```

extensions element

The extensions element contains the set of extension entries that implement additional functionality in the Subscription Client. The extensions element has a single child element: extension (this takes any number, including none).

extension element

The extension element specifies a class that implements "com.kinecta.subscriber.Extension". The extension element has no child elements. It has the following attributes:

Attribute	Purpose	Values
class	Java class name to be invoked for an extension	valid Java class name for this extension
param	information to be passed to the Java class when invoked	any string you wish to pass to the extension

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ZLIB LICENSE

* zlib.h -- interface of the 'zlib' general purpose compression library

  version 1.2.3, July 18th, 2005

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