



# Contenta S1000D Installation and Upgrade Guide

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***Contenta S1000D 5.11***

**December 2021**

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## **Installing Contenta S1000D**

Information about installing a new instance of Contenta S1000D.

**Important:** The appropriate version of Contenta must be installed before beginning the Contenta S1000D installation.

# Contenta S1000D installation overview

This table lists the tasks you must perform for each component of your Contenta S1000D system.

Component	Actions
Contenta Application server	<p>You install Contenta S1000D on the Contenta Application server.</p> <p>If Contenta Application server and Contenta Web server are on the same system, you only need to install Contenta S1000D once.</p>
Contenta Web server	<p>You install Contenta S1000D on the Contenta Web server.</p> <p>If the Contenta Application server and Contenta Web server are on the same system, you only need to install Contenta S1000D once.</p>
S1000D Database	<p>Once you have installed Contenta S1000D on your servers, you must import the base S1000D database.</p> <p>Now that you have a Contenta S1000D database, you must review the default AppData values and modify them as needed. See the <i>Modifying AppData settings after installing or upgrading Contenta S1000D</i> topic in the <i>Configuring Contenta S1000D</i> section of this documentation.</p>



Component	Actions
Publishing PDFs	<p>You must configure XPP to publish PDFs from Contenta S1000D. If you have not previously installed XPP, first install XPP and XPP RESTful Web Services, then configure XPP as described in the <i>Configuring a new XPP installation to publish PDFs</i> topic in the <i>Configuring Contenta S1000D</i> section of this documentation.</p> <p>If you have previously installed XPP and used it for other purposes, first install XPP RESTful Web Services (unless you have already installed it), then configure XPP as described in the <i>Configuring an existing XPP installation to publish PDFs</i> topic in the <i>Configuring Contenta S1000D</i> section of this documentation..</p> <hr/> <p><b>Important:</b> We recommend that you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta Application server, Contenta Web server, or Contenta clients.</p> <hr/> <p>See the <i>XPP Installation and Upgrade Guide</i> and <i>XPP RESTful Web Services Installation and Release Notes</i>.</p>
Contenta Explorer clients	<p>For clients that will use Contenta Explorer to work with Contenta S1000D, you must install Contenta S1000D.</p> <p>If you install an Arbortext or Oxygen XML editor <i>before</i> you install Contenta S1000D on your clients, the Contenta S1000D installer automatically configures the editor to work with Contenta S1000D. Otherwise, you must configure Contenta Explorer clients manually.</p>

Component	Actions
Contenta Web clients	<p><b>Important:</b> On each workstation that will access Contenta Web, ensure that browser pop-up blocking is turned off and the Contenta Web server address is added to the browser's trusted sites.</p> <p>Contenta Web clients must use the Contenta editor extensions. If using Arbortext Editor, you also need the Contenta S1000D editor plug-in to edit content.</p> <p>RWS recommends that you first install the XML editor on Contenta Web clients, and then configure the web clients to run it.</p>

# Installing Contenta S1000D on a Contenta application server

How to install Contenta S1000D on the system where the Contenta application server is installed.

## Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the Contenta S1000D installation. For more information, see the Contenta installation documentation.

**Important:** We recommend you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta application server, Contenta Web server, or Contenta clients.

## About this task

**Tip:** If the Contenta S1000D and the Contenta application or web server are installed on the same computer, you need to run the Contenta S1000D software installation only once.

## Procedure

1. To install on Linux, do the following:
  - a. Log in as root.
  - b. Mount the installation ISO file by performing the following steps.
    - a. From a command prompt, type: `mkdir /mount-point` (where *mount-point* is the name of the directory where you will mount the ISO).
    - b. Type `mount -t iso9660 -o loop cdrom.iso /mount-point` (Where *cdrom.iso* is the name of the ISO file and *mount-point* is the directory you just created).
  - c. If you are running the installation from a remote system, set the display: `setenv DISPLAY name or IP address of remote system:0`
  - d. Type `./install.bin`, and then press **Enter**.
2. To install on Windows, do the following:
  - a. Log in with administrator privileges.
  - b. Using Windows or a third-party utility, mount the Contenta S1000D installation ISO file.
  - c. Launch `install.exe`.
3. Select **Next**.
4. Select **I accept the terms of the License Agreement**, and then select **Next**.
5. On Linux only, select **Choose** to select the `Contenta_home` directory, and then select **Next**.  
Contenta S1000D must be installed in `Contenta_home` directory. On Windows servers, this value is automatically selected from the registry.
6. Review the Pre-Installation Summary details, and select **Install**.
7. When installation is complete, select **Done**.

## What to do next

Your next step depends on how your environment is set up:

Environment	Action
Contenta application server and Contenta Web server are installed on the same system.	Go to "Installing Contenta S1000D on a Contenta Web server " on page 6 and complete the post-installation steps only (beginning with step 8).
Contenta application server and Contenta Web Server are installed on separate systems.	Install Contenta S1000D on the Contenta Web Server. Go to "Installing Contenta S1000D on a Contenta Web server " on page 6 and complete all the steps.

Environment	Action
If Contenta Web was installed after installing the Contenta server on the same Linux server.	<p>You must create a directory named <code>tmp</code> under the <code>/pdm/clients</code> directory. If Contenta Web was installed first, this manual step is not required.</p> <hr/> <p><b>Note:</b> If this is not done, some S1000D tools may not run when selected.</p> <hr/>

# Installing Contenta S1000D on a Contenta Web server

How to install Contenta S1000D and the LiveContent Preview styles on the server where Contenta Web is installed.

## Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the installation. For more information, see the Contenta installation documentation.

**Important:** We recommend you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta application server, Contenta Web server, or Contenta clients.

## About this task

**Tip:** If the Contenta S1000D and the Contenta application or web server are installed on the same computer, you need to run the Contenta S1000D software installation only once.

## Procedure

1. To install on Linux, do the following:
  - a. Log in as root.
  - b. Mount the installation ISO file by performing the following steps.
    - a. From a command prompt, type: `mkdir /mount-point` (where *mount-point* is the name of the directory where you will mount the ISO).
    - b. Type `mount -t iso9660 -o loop cdrom.iso /mount-point` (Where *cdrom.iso* is the name of the ISO file and *mount-point* is the directory you just created).
    - c. If you are running the installation from a remote system, set the display: `setenv DISPLAY name or IP address of remote system:0`

- d. Type `./install.bin`, and then press **Enter**.
2. To install on Windows, do the following:
  - a. Log in with administrator privileges.
  - b. Using Windows or a third-party utility, mount the Contenta S1000D installation ISO file.
  - c. Launch `install.exe`.
3. Select **Next**.
4. Select **I accept the terms of the License Agreement**, and then select **Next**.
5. On Linux only, select **Choose** to select the `Contenta_home` directory, and then select **Next**.  
 Contenta S1000D must be installed in `Contenta_home` directory. On Windows servers, this value is automatically selected from the registry.
6. Review the Pre-Installation Summary details, and select **Install**.
7. When installation is complete, select **Done**.
8. On Linux Contenta Web servers
  - a. Add `JAVA_HOME` to `Contenta_home/distr/bin/cw.cshrc`
  - b. Update your path to `$JAVA_HOME/bin`
9. On Linux Contenta Web servers that have XPP installed on them, source the following files: `Contenta_home/pdm/bin/cw.cshrc` and `Contenta_home/etcxyvision/xyv.cshrc`.
10. Restart Apache Tomcat.
11. Navigate to the `Contenta_home/web/cw_common/custom/S1000D_Upload` directory and check the file size of the `S1000D_Catalog.prop` file. If this file is zero-length, configure local entities (required to run S1000D Validate). See the *Configuring the Upload Tool and other S1000D tools to Use Local Entities* topic in the Contenta S1000D user documentation for details.
12. If you have XPP on the system, verify that the `Perl_home` directory path contains the `bin` directory. For example, `C:\Perl\bin`.
13. Navigate to the `Contenta_home/web/cw_common/custom/S1000D_Publish` directory and do the following.
  - a. On Windows systems, delete `PublishConfiguration_Unix.xml`.
  - b. On Linux systems, delete `PublishConfiguration.xml`.

---

**Note:** After the installation, you must modify the `PublishConfiguration` file for your particular environment. If you will publish to XPP, refer to the *Configuring a new XPP installation to publish PDFs* topic in the Contenta S1000D installation documentation. If you will publish to LiveContent S1000D, refer to the *Publishing IETPs* topic and its sub-topics in the Contenta S1000D user documentation.

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14. If your Contenta Web server is Linux and you will publish to LiveContent S1000D, edit the `PublishConfiguration_Unix.xml` file, changing the value of the `InstallDir` property to the path of your LiveContent installation, for example: `/XyEnterprise/LiveContent`.

15. If you plan to publish PDFs and you are running XPP 8.1 or XPP 8.2, navigate to the `Contenta_home/web/cw_common/custom/S1000D_Publish` directory and open the `PublishConfiguration.xml` file (or `PublishConfiguration_Unix.xml` file if your Contenta Web server is Linux). Find the `XPP_GraphicFormats` property, and remove the `bmp`, `gif`, and `png` graphics file formats from the value. These three file formats are supported in XPP 8.3 and later.

### What to do next

After completing the installation, you need to create a Contenta S1000D database.

## Installing Contenta S1000D on a Contenta Explorer client

How to install Contenta S1000D on a Contenta Explorer client.

### Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the installation. For more information, see the Contenta installation documentation.
- We recommend you install your editor (for example, Arbortext Editor or FrameMaker) software on the client before you begin the Contenta S1000D installation. Consult the platform requirements for supported versions of editor software. If you install Arbortext Editor or Oxygen XML Author after installing Contenta S1000D, or if the Contenta S1000D installation program failed to configure these editors, post-installation configuration is required. See "Configuring Arbortext Editor integration" on page 45.

---

**Note:** The Contenta S1000D installer configures the latest installed version of the supported editor software. You do not need to run `EditorSetup.jar` to configure Arbortext Editor 8.1 or Oxygen XML Author 23.x.

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**Important:** We recommend you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta application server, Contenta Web server, or Contenta clients.

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### About this task

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**Important:** You do not need to run this task on clients that access Contenta S1000D exclusively through the Contenta Web client.

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You may opt to install one client and create a response file that can be used perform silent installs on identically configured Contenta Explorer clients. See "Installing Contenta S1000D on Contenta Explorer clients - silent mode" on page 10.

## Procedure

1. To install on Windows, do the following:
  - a. Log in with administrator privileges.
  - b. Using Windows or a third-party utility, mount the Contenta S1000D installation ISO file.
  - c. Launch `install.exe`.
2. Select **Next**.
3. Select **I accept the terms of the License Agreement**, and then select **Next**.
4. To install and configure styles and schemas for Arbortext Editor, do one of the following:

---

**Note:** This step is skipped if Arbortext Editor is not installed.

---

- a. Select **Yes, let the installer copy files and configure my system** (recommended)
- b. Select **No, I will manually copy and configure my system later**.

---

**Tip:** Refer to “Adding S1000D schemas and styles to Arbortext Editor ” on page 55 for instructions on how to manually configure styles and schemas after Arbortext Editor is installed.

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5. In the **Choose Web Server/Port Number** panel, do the following:
  - a. Select **https**: if your Contenta Web server is secure (SSL) or **http**: if your Contenta Web server is non-secure.
  - b. Enter the name of your Contenta Web server.
  - c. Enter the port on which the Contenta Web server is running.
  - d. Select **Next**.

---

**Important:** Specifying a Fully Qualified Domain Name (FQDN) is different than specifying only the domain name. Check with your system administrator to obtain the exact information for `Protocol`, `Name`, and `Port Number`.

---

6. Review the installation details and select **Install**.
7. When installation is complete, select **Done**.
8. Ensure that a browser supported by Contenta S1000D is set as the default browser for the client machine.  
Consult the Contenta S1000D Platform Requirements for the list of supported browsers.

# Installing Contenta S1000D on Contenta Explorer clients - silent mode

How to propagate a silent install of Contenta S1000D to identically configured Contenta Explorer clients.

## Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the installation. For more information, see the Contenta installation documentation.

---

**Important:** We recommend you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta application server, Contenta Web server, or Contenta clients.

---

## About this task

A successful silent install requires a preparation and test phase, where you first install on a single computer (your test bed) that is representative of all client computers on the network to be updated. As you run the installer in interactive mode (on the test bed), the output is captured in a response file. Your IT Administrator can then execute the response file in silent mode, over the network, to update each client computer with the latest installation.

## Procedure

1. On your test bed computer, create a new directory.

**Example:** Example: `c:\testbed`

2. Using Windows or a third-party utility, mount the Contenta S1000D installation ISO file.
3. Right-click, and then click **Explore**.  
The file manager lists the contents of the ISO file.
4. Copy `install.exe` from the mounted ISO file to the directory you created on your test bed computer.

**Example:** Example: `c:\testbed\install.exe`

5. On your test bed computer, using your web browser or a command shell, install the program (interactively) and capture a response file.

**Example:** Example: `c:\testbed\install.exe -r "c:\testbed\test.properties"`

---

**Tip:** Instead of naming the response file "`test.properties`," you may want to name it to reflect the type of silent install that you are performing. For example, you may choose to name the Contenta Explorer and editor extensions silent installer response files as follows:

- "`ce_core_test.properties`"
- "`ee_core_test.properties`"



- "ce\_slkd\_test.properties"
- "ee\_slkd\_test.properties"

6. Complete each step of the interactive install.

**Example:** After a moment, the installer creates a response file (for example, `test.properties`) in your installation directory.

7. In a text editor, examine the response file, and edit it as necessary.

**Note:** If you run silent install more than once on a client machine, the machine will reboot. To prevent this from happening, add `RESTART_NEEDED= NO` to your response file (.properties file).

8. Over the network, your IT Administrator can sign in and update each client computer by running the response file script.

**Example:** Example: From a web browser or a command shell, enter `c:\testbed\install.exe -i silent -f "c:\testbed\test.properties"`

9. Verify the install by examining the installation directory depicted in the response file. You can also examine the **install.log** file on each client computer.
10. Continue to the next client.

## Installing editor extensions on Contenta Web clients

How to install the Contenta editor extensions on Contenta Web clients.

### Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the installation. For more information, see the Contenta installation documentation.
- We recommend you install your editor (for example, Arbortext Editor or FrameMaker) software on the client before you begin the Contenta S1000D installation. Consult the platform requirements for supported versions of editor software. If you install Arbortext Editor or Oxygen XML Author after installing Contenta S1000D, or if the Contenta S1000D installation program failed to configure these editors, post-installation configuration is required. See "Configuring Arbortext Editor integration " on page 45.

### About this task

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**Note:** On Windows workstations, you can install Contenta editor extensions in silent mode.

---

**Note:** The Contenta S1000D installer configures the latest installed version of the supported editor software. You do not need to run `EditorSetup.jar` to configure Arbortext Editor 8.1 or Oxygen XML Author 23.x.

---

### Procedure

1. Log on to the client as the Administrator user or a user with administrator privileges.
  2. Mount the installation ISO file.  
To mount an ISO file, you can use Windows to extract the ISO to the file system or use a third-party tool to mount the ISO as a disk.
  3. Navigate to the `editor` folder.
  4. Run the installation program using one of these methods:
    - For interactive mode, launch `install.exe` in the Windows folder.  
A pre-installer screen appears.
    - For silent mode, open a command prompt and enter this command:
- ```
install.exe -i silent
```
5. If you are running the installation program in interactive mode, complete the installation screens. You will need the following info:
  6. When you have finished installing the editor extensions, restart the system.
  7. Define your checkout directory:
    - a. On your browser client workstation, log in to Contenta Web.
    - b. Select **Preferences**.
    - c. Enter a valid path on your local machine in the **Checkout Directory** field.
    - d. Select **OK**.

### What to do next

- Ensure that your browser configuration allows pop-ups. Many Contenta Web tools require pop-ups.

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**Note:** To uninstall the extensions, `Contenta_home/encaps/EditorSetup/EditorSetup.jar` must be run manually to uninstall this configuration. Contenta editor extensions Uninstall will not remove any entries added by `EditorSetup.jar`.

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## Creating a Contenta S1000D database

After installing Contenta S1000D, import a Contenta S1000D database that contains all the appropriate object types and structure, but no content.

### Before you begin

Ensure that Contenta is installed and functioning correctly.

### Procedure

1. Copy the appropriate `s1000d.dmp` from the following location to a temporary directory.

| Database Path<br>Vendor |                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------|
| Oracle                  | <code>Contenta_home/S1000D_samples/databases/Contenta511_Oracle19c_database.Oracle</code> |
|                         | <code>Contenta_home/S1000D_samples/databases/Contenta511_Oracle18c_database</code>        |
| MS SQL Server           | <code>Contenta_home/S1000D_samples/databases/Contenta511_MSSQLServer_database</code>      |

For Oracle, the temporary directory must be on a system that has `pcmadmin` installed. For MS SQL Server, the temporary directory must be on the MS SQL Server system.

### Note:

- Technically, you can also copy the `s1000d.dmp` file for MS SQL Server to a network location accessible via UNC, such as `\\yourmachine\temp`.
- Sample temporary directories include: `c:\temp` on Windows or `/tmp` on Unix.

2. At a command prompt, enter the appropriate command.

| Database Command<br>Vendor |                                                        |
|----------------------------|--------------------------------------------------------|
| Oracle                     | <code>dbimport.pl -dbase dbase@sid -i "tempdir"</code> |
| MS SQL Server              | <code>dbimport.pl -dbase dbase -i "tempdir"</code>     |

| Database Vendor | Command-line option | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oracle          | -dbase              | <p>Name and Oracle SID of the new database.</p> <hr/> <p><b>Note:</b> Include the @sid only when the database you are upgrading is not in the default Oracle SID. To determine the default SID, in the Windows Registry, navigate to: <code>HKEY_LOCAL_MACHINE\SOFTWARE\XyEnterprise\Content@5.0</code>. The default SID is the value of the <code>XYE_PDM_DATABASE_SID</code> key.</p> <p>If upgrading a database in the default SID, use: <code>-dbase ddd</code></p> <p>If upgrading a database in a different SID, use: <code>-dbase ddd@sss</code></p> <hr/> |
|                 | -i                  | <p>Directory path and filename where the <code>s1000d.dmp</code> file is located.</p> <p>Enclose in quotation marks.</p> <hr/>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MS SQL Server   | -dbase              | <p>Name of the new database.</p> <hr/> <p><b>Restriction:</b> The database name cannot contain the word <code>S1000D</code> or an error will occur.</p> <hr/>                                                                                                                                                                                                                                                                                                                                                                                                     |
|                 | -i                  | <p>Directory path and filename where the <code>s1000d.dmp</code> file is located.</p> <p>Enclose in quotation marks.</p> <hr/> <p><b>Important:</b> The directory path and filename must refer to the SQL Server. If you want to run <code>dbimport.pl</code> on a system other than the SQL Server, you must copy the <code>s1000d.dmp</code> file to the SQL Server.</p> <hr/>                                                                                                                                                                                  |

For more information on command-line options for the Database Import Command, refer to *Database Maintenance Commands* in the Contenta Administration documentation.

### What to do next

Now that you have a Contenta S1000D database, modify the default AppData values as needed in the database. See "Modifying AppData settings after installing or upgrading Contenta S1000D" on page 30.

## Java security and signed applets: prerequisites and setup

This section applies to any Contenta Web or Contenta S1000D users who will use tools that check out data, such as **Check Out/Check In**, **Dynamic Import**, **LiveContent Preview**, and **S1000D Upload Content** and are using Internet Explorer with applets.

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**Note:** Applets were deprecated with the Contenta and Contenta S1000D 5.8 release and are supported only with Internet Explorer and Java 8.

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**Important:** You must use a signed applet for uploading files through your Web Browser. Additionally, the Java Runtime Environment (JRE) must be installed. See the Contenta S1000D *Platform Requirements* for the recommended version of the JRE.

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Java security impacts the behavior of applets such as those used with Contenta Web **Check Out/Check In** and **Dynamic Import** and Contenta S1000D **Check Out/Check In**. The Java changes result in security warnings being presented to the user in new dialog boxes, making it more challenging to use the applets. In addition, after certain Java 7 updates, the Java security level must be changed from High to Medium; otherwise, the applets will be blocked from working.

---

**Important:** There are compelling security reasons to upgrade to the most current Java update and install the latest available patched RWS applets, which are patched with updated certificates on a regular basis.

---

### Add the Contenta Web server URLs to the Java Exception Site List

Perform the following steps to prepare Java for using Contenta Web applets.

1. Install the applet patches provided by RWS on your Contenta Web servers.
2. Upgrade all clients to Java 1.7.0\_80 or later.
3. Add the Contenta Web server site URLs to the Java Exception Site List, a new feature starting with Java 1.7.0\_80. Access the **Exception Site List** on the client as follows (or, alternatively, create or update the **Exception Site List** as follows).
  - a. Open the **Java Control Panel**.
  - b. Click **Security**.
  - c. Click **Edit Site List**.
  - d. Click **Add** in the **Exception Site List** dialog.
  - e. Enter the Contenta Web server site URL, and then press **Enter**.  
Site URL examples:  
`http://beagle:8080`  
`https://bulldog.com`
  - f. Click **OK**.
  - g. Click **OK** again.

In the security directory, create or update a file named `exception.sites` with URL sites listed in the following format (note the trailing slash).

- `http://beagle:8080/`
- `https://bulldog.com/`

## 1 Installing Contenta S1000D

---

4. Add the Contenta Web server site URLs to the **Trusted Sites** list in Internet Explorer (consult [www.microsoft.com](http://www.microsoft.com) on how to edit IE security zones).
5. Make sure that the Web server name in the registry path `HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\XyEnterprise\Contenta\Settings\Web` is set to the Contenta Web server you are using.

---

**Note:** The Contenta Web server path set in the Java Exception Site List, IE Trusted Sites, and the registry must be identical.

---

For customers who cannot immediately upgrade to Java 1.7.0\_80, note the following.

- You can still install the patched applets on the Contenta Web server. Installing these patches will not cause any problems and, when Java is upgraded to 1.7.0\_80 or higher, the patches will correct the security warning problem.
- Security warnings will pop up every time the applets run on the clients until Java is upgraded. Starting with Java 1.7.0\_25 and stopping with Java 1.7.0\_51, whether or not the patched applets are installed, you will need to set the Java security level to Medium; otherwise, the applets will be blocked from working. For example, you can run the Contenta Web **Check Out** tool successfully, but when you run Contenta Web **Check In**, the applet's ellipsis button will not work, preventing you from selecting anything to check in.

### Setting the Java security level on the client

To set Java security level to Medium on clients, use the Java Control Panel or modify the `deployment.properties` file as follows.

1. Navigate to the directory containing the `deployment.properties` file.  
On Windows clients: `<User Application Data Folder>\LocalLow\Sun\Java\Deployment`
2. Edit this file and add or modify the security level line, setting it to medium:  
`deployment.security.level=MEDIUM`

---

**Note:** After upgrading Java on clients, set the Java security level to High again. For instructions about setting Java security, refer to your Java vendor documentation.

---

### Setting character encoding on the client

To ensure applets can handle Unicode (UTF-8) characters, modify the Java settings on the client as follows.

1. Open the **Java Control Panel** while logged in as an Administrator.
2. Select the **Java** tab.
3. In the **Runtime Parameters** field for the installation of Java, add the following argument.  
`-Dfile.encoding=utf-8`
4. Click **OK**.

**2**

## **Upgrading Contenta S1000D**

Information about upgrading an existing instance of Contenta S1000D.

## Contenta S1000D upgrade overview

This table lists the tasks you must perform for each component of your Contenta S1000D system.

**Important:** The Java Runtime Environment (JRE) must be installed. See the "" on page 0 for the recommended version of the JRE.

**Important:** Java 7 updates include security changes that impact the behavior of applets such as those used with Contenta Web Check Out and Check In. Refer to "Java security and signed applets: prerequisites and setup" on page 14 for instructions on installing and configuring applet patches from RWS.

| Component                   | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contenta Application server | <p>You must upgrade the Contenta S1000D software on the Contenta Explorer Application server.</p> <p>If the Contenta Explorer Application server and the Contenta Web server are on the same computer, you need to install the software only once.</p>                                                                                                                                                                                                                                                                                               |
| Contenta Web server         | <p>You must upgrade the Contenta S1000D software on the Contenta Web server.</p> <p>If the Contenta Explorer Application server and the Contenta Web server are on the same computer, you only need to install the software once.</p>                                                                                                                                                                                                                                                                                                                |
| S1000D Databases            | <p>To check whether your Contenta S1000D CSDB contains any duplicate modules or graphics, run the Database Check utility.</p> <p>Before you upgrade your existing databases, you must upgrade at least one Contenta Explorer client that has pcadmin, your Contenta Explorer Application server, and your Contenta Web server. Once you have upgraded Contenta S1000D on your servers, you can upgrade your S1000D databases.</p> <p>After upgrading your databases, you must review new and updated AppData settings and modify them as needed.</p> |



| Component                 | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Publishing PDFs           | <p>If you are already publishing PDFs from Contenta S1000D, you do not need to do any further configuration. If you are planning to start publishing PDFs from Contenta S1000D, first you must configure XPP.</p> <p>If you have not previously installed XPP, first install XPP and XPP RESTful Web Services software, then configure XPP.</p> <p>If you have previously installed XPP but you have not previously published PDFs from Contenta S1000D, first install XPP RESTful Web Services (unless you have previously installed it), then configure XPP.</p> <hr/> <p><b>Important:</b> We recommend that you install XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta Explorer Application server, Contenta Web server, or Contenta Explorer clients.</p> <hr/> |
| Contenta Explorer clients | <p>You must upgrade Contenta S1000D on your Contenta Explorer clients.</p> <p>If you install an Arbortext or Oxygen XML editor <i>before</i> you install Contenta S1000D on your clients, the Contenta S1000D installer automatically configures the editor to work with Contenta S1000D. Otherwise, you must configure Contenta Explorer clients manually.</p> <hr/>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Contenta Web clients      | <p>Contenta Web clients must use the Contenta editor extensions. If using Arbortext Editor, you also need the Contenta S1000D editor plug-in to edit content.</p> <p>RWS recommends that you first install the XML editor on Contenta Web clients, and then configure the web clients to run it.</p> <hr/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Upgrading SDL Contenta S1000D on a Contenta application server

Upgrade SDL Contenta S1000D on the computer where Contenta Application Server is installed.

### Before you begin

Ensure that all users are logged out of Contenta.

### Procedure

1. Use `pcmsessions` to clear all the login sessions.
2. To install on a UNIX server, do the following:
  - a. Log in as root.
  - b. If you are running the installation from a remote system, set the display: `setenv DISPLAY name or IP address of remote system:0`
  - c. Type `./install.bin`, and then press **Enter**.
3. To install on a Windows server, do the following:
  - a. Log in with administrator privileges.
  - b. Using Windows or a third-party utility, mount the Contenta S1000D installation and upgrade ISO file.
  - c. Double-click `install.exe` on the mounted Contenta S1000D installation and upgrade ISO file.
4. In the **Contenta S1000D Found - Upgrade** screen, click **OK**.
5. Click **Next**.
6. Click **I accept the terms of the License Agreement**, and then click **Next**.
7. Review the installation details, and then click **Install**.
8. When installation is complete, click **Done**.

## Upgrading SDL Contenta S1000D on a Contenta Web Server

Install SDL Contenta S1000D and the LiveContent Preview styles on the server where Contenta Web is installed.

### About this task

If you have Contenta Application Server and Contenta Web Server on the same computer, you do not need to install the SDL Contenta S1000D software twice or upgrade the database again.

## Procedure

1. Ensure that you have the correct version of Java.  
At a command prompt, type: `java -version`  
See *SDL Contenta S1000D Platform Requirements* for details.
2. To install on a UNIX Web server, do the following:
  - a. Log in as root.
  - b. Mount the Contenta S1000D ISO file by performing the following steps.
    - a. From a command prompt, type: `mkdir /mount-point` (where *mount-point* is the name of the directory where you will mount the ISO).
    - b. Type `mount -t iso9660 -o loop cdrom.iso /mount-point` (Where *cdrom.iso* is the name of the ISO file and *mount-point* is the directory you just created).
  - c. If you are running the installation from a remote system, set the display: `setenv DISPLAY name or IP address of remote system:0`
  - d. Type `./install.bin`, and then press **Enter**.
3. To install on a Windows Web server, do the following:
  - a. Log in with administrator privileges.
  - b. Using Windows or a third-party utility, mount the Contenta S1000D installation and upgrade ISO file.
  - c. Double-click `install.exe` on the mounted Contenta S1000D installation and upgrade ISO file.
4. In the **SDL Contenta S1000D Found - Upgrade** screen, click **OK**.
5. Click **Next**.
6. Click **I accept the terms of the License Agreement**, and then click **Next**.
7. Review the installation details, and then click **Install**.
8. When installation is complete, click **Done**.

---

**Note:** LiveContent Preview default styles are installed in the `Contenta_home\web\cw_common\custom\S1000D_CVPreview\styles\s1000d` directory. If you have custom LC Preview styles that you want to use instead, see "Using Customized LC Preview Styles" on page 58.

---

9. On UNIX Contenta Web servers that have XPP installed on them, source the following files: `/pdm/bin/cw.cshrc` and `/etc/xyvision/xyv.cshrc`.
10. Restart Apache Tomcat.
11. Navigate to the `Contenta_home/web/cw_common/custom/S1000D_Upload` directory and check the file size of the `S1000D_Catalog.prop` file. If this file is zero-length, configure local entities (required to run S1000D Validate). See the *Configuring the Upload Tool and other S1000D tools to Use Local Entities* topic in the *SDL Contenta S1000D User Guide* for details.
12. If XPP is installed on your Contenta Web server, verify that the path contains the Perl

bin directory. For example, C:\Perl\bin.

13. If you publish PDFs and you are running XPP 8.1 or XPP 8.2, navigate to the `Contenta_home/distr/web/cw_common/custom/S1000D_Publish` directory and open the new `PublishConfiguration.xml` file (or `PublishConfiguration_Unix.xml` if your Contenta Web server is UNIX). Find the `XPP_GraphicFormats` property, and remove the `bmp`, `gif`, and `png` graphics file formats from the value. These three file formats are supported in XPP 8.3 and higher.
14. Whether you are publishing PDFs or IETMs, navigate to the `Contenta_home/web/cw_common/custom/S1000D_Publish` directory and back up your existing publish configuration files: `PublishConfiguration.xml` and similar files.
15. Compare the new `PublishConfiguration.xml` file (or `PublishConfiguration_Unix.xml` if your Contenta Web server is UNIX) with your existing publish configuration files, and merge all of the new and updated settings into your existing publish configuration files. The new `PublishConfiguration.xml` and `PublishConfiguration_Unix.xml` files are delivered to the `Contenta_home/distr/web/cw_common/custom/S1000D_Publish` directory.

## Upgrading SDL Contenta S1000D on a Contenta Explorer client

This task describes how to upgrade SDL Contenta S1000D on a Contenta Explorer client.

### About this task

You may opt to upgrade one client and create a response file that can be used to perform silent upgrades on identically configured Contenta Explorer clients.

### Procedure

1. Log in to the client computer with administrator privileges.
2. Using Windows or a third-party utility, mount the Contenta S1000D installation and upgrade ISO file.
3. Double-click `install.exe` on the mounted Contenta S1000D installation and upgrade ISO file.
4. In the **Contenta S1000D Found - Upgrade** dialog box, click **OK**.
5. In the **Configure Arbortext Editor** screen, click either:
  - a. **Yes, let the installer copy files and configure my system**
  - b. **No, I will manually copy files and configure my system later**
6. Click **Next**.
7. In the **Choose Web Server Name/Port** screen, enter values for the following:
  - Web Server Protocol
  - Web Server Name
  - Web Server Port Number

---

**Important:** Specifying a Fully Qualified Domain Name (FQDN) is different than specifying only the domain name. Check with your system administrator to obtain the exact information for `Protocol`, `Name`, and `Port Number`.

---

8. Click **Next**.
9. Click **I agree to the terms of the License Agreement**, and then click **Next**.
10. Review the installation details, then click **Install**.
11. When installation is complete, click **Done**.
12. Ensure that a browser supported by Contenta S1000D is set as the default browser for the client machine.  
Consult the Contenta S1000D Platform Requirements for the list of supported browsers.

## Upgrading editor extensions on Contenta Web clients

How to upgrade the Contenta editor extensions on Contenta Web clients.

### Before you begin

- Ensure that latest compatible version of Contenta (including Service Packs) is installed and functioning properly before beginning the upgrade. For more information, see the Contenta upgrade documentation.
- We recommend you install or upgrade editor software (Arbortext Editor, Oxygen XML Author, or FrameMaker) on the client before you begin the Contenta S1000D upgrade. Consult the platform requirements for supported versions of editor software. If you install or upgrade Arbortext Editor or Oxygen XML Author after upgrading Contenta S1000D, or if the Contenta S1000D installation program failed to configure these editors, post-installation configuration is required. See "" on page 0.

### About this task

---

**Note:** On Windows workstations, you can install Contenta editor extensions in silent mode.

---



---

**Note:** The Contenta S1000D installer configures the latest installed version of the supported editor software. You do not need to run `EditorSetup.jar` to configure Arbortext Editor 8.1 or Oxygen XML Author 23.x.

---

### Procedure

1. Log on to the client as the Administrator user or a user with administrator privileges.
  2. Mount the installation ISO file.  
To mount an ISO file, you can use Windows to extract the ISO to the file system or use a third-party tool to mount the ISO as a disk.
  3. Navigate to the `editor` folder.
  4. Run the installation program using one of these methods:
    - For interactive mode, launch `install.exe` in the Windows folder.  
A pre-installer screen appears.
    - For silent mode, open a command prompt and enter this command:
- ```
install.exe -i silent
```
5. If you are running the installation program in interactive mode, complete the installation screens. You will need the following info:
  6. When you have finished installing the editor extensions, restart the system.
  7. Define your checkout directory:
    - a. On your browser client workstation, log in to Contenta Web.
    - b. Select **Preferences**.
    - c. Enter a valid path on your local machine in the **Checkout Directory** field.
    - d. Select **OK**.

### What to do next

- Ensure that your browser configuration allows pop-ups. Many Contenta Web tools require pop-ups.
- If you installed Arbortext Editor or Oxygen XML Author after installing Contenta, or if the Contenta installation program failed to configure these editors, post-installation configuration is required.

---

**Note:** To uninstall the extensions, if `EditorSetup.jar` must be run manually to uninstall this configuration. Contenta editor extensions Uninstall will not remove any entries added by `EditorSetup.jar`.

---

## Upgrading a Contenta S1000D database

This describes upgrading an existing Contenta S1000D database from Contenta S1000D 5.3, 5.4, 5.5, 5.6, 5.7, or 5.8 to Contenta S1000D 5.11. Perform this task on an Contenta Explorer

Administration client that has been upgraded to Contenta S1000D 5.11.

### Before you begin

Before upgrading databases to Contenta S1000D 5.11, you must upgrade the following servers and clients to Contenta S1000D 5.11.

- Contenta application server
- Contenta Web server
- Contenta Explorer clients

In addition, if you haven't already done so, upgrade the Contenta database to Contenta 5.6 by running the `upgrade_56` program. See the Contenta installation documentation for more information.

---

**CAUTION:** The delivered CSDB contains a configuration named `s1000d`; do not delete or rename this configuration; Contenta S1000D requires a configuration with that name.

---

---

**Important:** The Contenta database must be upgraded to version 5.6. There are no Contenta 5.7 or later database upgrades.

---

---

**Note:** An Contenta Explorer Administration client workstation is a workstation that was installed using the **Custom** option and has administrative programs in the `Contenta_home/bin` directory.

---

---

**Restriction:** Your databases must be at Contenta S1000D version 5.3 or later before you can upgrade them to version 5.11 as noted above. To verify this, in Contenta Explorer, select **Tools > Options > Tool Preferences** and navigate to **Global > DB Schema**. The **ContentaS1000D** keyword should be **CaS\_5.3** or later.

---

When adding new templates to an existing database, the upgrade script creates a new container under **S1000D > Templates** and copies the new version of the templates into the new container. The templates in the default **S1000D > Templates** container are not modified or replaced.

- If you have customized your templates, you must edit the new templates to include the customizations.
- To use the new templates as the default, remove the current templates in the default **S1000D > Templates** container and copy the new ones into that container.

### Procedure

1. If your site uses Microsoft SQL Server, set the *MSSQL\_HOME* system environment variable on the client machine to the full path to the MS SQL Server installation, such as `C:\Program Files\Microsoft SQL Server\Client SDK\ODBC4`.

---

**Important:** This environment variable is used to resolve `SQLCMD.EXE` pathing and must be set before running the database maintenance scripts on the client machine.

---

2. On a Contenta Explorer Administration client workstation, from a command prompt, navigate to the *Contenta\_home/bin/Upgrade\_S1000D* directory, and enter the following command, with the appropriate switches for your database:

- For an Oracle database:

```
upgrade_S1000D_59.pl -n node -user user -pw password -dbase  
<dbase>[dbase@sid] -s socket-sid OracleSID [-dbpw dbase_password]  
[-help]
```

where:

- *node* is the name of the Contenta server.
- *user* is `sysadmin`.
- *password* is the Contenta sysadmin password.
- *dbase@sid* is the name of the database and Oracle SID to be upgraded.

---

**Note:** Include the `@sid` only when the database you are upgrading is not in the default Oracle SID. To determine the default SID, in the Windows Registry, navigate to: `HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\XyEnterprise\Contenta\ 5.0`. The default SID is the value of the `XYE_PDM_DATABASE_SID` key.

If upgrading a database in the default SID, use: `-dbasedb_name-sidOracleSID`

If upgrading a database in a different SID, use:

`-dbasedb_name@sid-sidOracleSID`

---

- *socket* is the port number of the portal (PcmPortal).
  - *OracleSID* is the Oracle database SID.
  - *dbase\_password* is the database password. This switch is required only when the database you are upgrading does not use the default database password (`pdmuser`).
- For a Microsoft SQL Server database:

```
upgrade_S1000D_59.pl -n node -user user -pw password -dbase dbase -s  
socket -dsn dsnserver -sqlsrv SQLServerNamedInstance [-dbpw dbase_  
password] [-help]
```

where:

- *node* is the name of the Contenta server.



- *user* is `sysadmin`.
  - *password* is the Contenta sysadmin password.
  - *dbase* is the name of the MS SQL Server database to be upgraded.
  - *socket* is the port number of the portal (PcmPortal).
  - *dsnserver* is the Windows ODBC\_DSN data source name. If not specified, the default is used-as defined in the registry for `XYV_PDM_ODBC_DSN`.
  - *SQLServerNamedInstance* is the SQL Server name with instance, if configured.
  - *dbase\_password* is the database password. This switch is required only when the database you are upgrading does not use the default database password (`pdmuser`).
3. To verify that the database upgrade program completed successfully, do the following:
- a. View the log file, particularly the last line which indicates whether the database upgrade program completed successfully.
    - The log file is in the `Contenta_home/bin/Upgrade_S1000D` directory. The log name is unique to the database: `upgrade_S1000D_59-database.log`
    - If an upgrade step fails, the program continues if possible.
    - The database upgrade program may be run multiple times on a database; it only performs steps that have not already been done.
    - The program detects if a step has already been done and skips it. The log indicates when a step has been skipped.

---

**Note:** Any errors about removing tools may be ignored; these errors may occur when trying to remove a tool that does not exist.

---

- b. In Contenta Explorer, select **Tools > Options > Tool Preferences** and navigate to **Global > DB Schema**. Alternatively, in Contenta Web, as the `sysadmin` user, select **Edit AppData** and navigate to **Global > DB Schema**.

The **ContentaS1000D** keyword should be **CaS\_5.9**.

### What to do next

After upgrading your Contenta S1000D database, modify new or upgraded AppData settings as needed. See “Modifying AppData settings after installing or upgrading Contenta S1000D” on page 30.



# 3

## Configuring Contenta S1000D

Information about configuring Contenta S1000D to work with XML editors, LiveContent S1000D , and XML Professional Publisher ( XPP).

## Modifying AppData settings after installing or upgrading Contenta S1000D

After installing or upgrading Contenta S1000D, review new and updated AppData settings and modify the default values as needed to suit your preferences.

### About this task

Contenta S1000D AppData settings are set to the default values shown below, for the Global user only, when you create a new Contenta S1000D database or upgrade an existing database to Contenta S1000D 5.11. AppData values for other users are not automatically set.

**Note:** See the *Contenta S1000D 5.11 Release Notes* section of this documentation for a list of other S1000D-related AppData settings.

To access AppData, in Contenta Explorer click **Tools > Options > Tool Preferences**. AppData settings in this topic are generally organized by their AppData path location to facilitate finding the settings and modifying them as needed.

### New AppData Settings in Contenta S1000D 5.8

Tool or UI	S1000D Upload Content
AppData Path	{Global} > Settings > CaS_Upload
Value	bytesPerRequest
Use	Specifies the size (in bytes) of data chunks to be transferred when uploading files larger than 200 MB.
Default	104857600
Note	Helps prevent Tomcat out-of-memory and IIS maximum content length issues related to connection speed. Lower this setting for slower connections.

Tool or UI	Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View
AppData Path	{Global} > mimeTypeMappings
Value	application/vds
Use	Maps MIME type to .vds file extension for SAP VDS multimedia files.

<b>Tool or UI</b>	Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View
<b>Default</b>	.vds
<b>Note</b>	

<b>Tool or UI</b>	Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View
<b>AppData Path</b>	{Global} > mimetypeMappings
<b>Value</b>	application/octet-stream
<b>Use</b>	Maps MIME type to .fla file extension for FLA multimedia files.
<b>Default</b>	.fla
<b>Note</b>	

<b>Tool or UI</b>	Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View
<b>AppData Path</b>	{Global} > mimetypeMappings
<b>Value</b>	application/octet-stream
<b>Use</b>	Maps MIME type to .fla file extension for FLA multimedia files.
<b>Default</b>	.fla
<b>Note</b>	

<b>Tool or UI</b>	Manage Internal References
<b>AppData Path</b>	{Global} > Settings > Editors > cw_xml_co > enableManageInternalReferencesOnInsert
<b>Value</b>	off
<b>Use</b>	Determines whether the Contenta Manage Internal References tool launches when a user selects <b>Insert &gt; Markup</b> in Arbortext Editor or Oxygen XML Author.
<b>Default</b>	Defaults to <b>off</b> in an upgraded CSDB; change to <b>on</b> to launch the tool automatically when a user selects <b>Insert &gt; Markup</b> . Defaults to <b>on</b> in a new CSDB.
<b>Note</b>	

## New AppData Settings in Contenta S1000D 5.6

Tool or UI	Contenta Explorer, Contenta Web
AppData Path	{Global} > Settings > CaS_Languages
Value	<b>supportMultipleLanguages</b>
Use	Enables support of S1000D modules in multiple languages.
Default	<b>no</b>
Note	Defaults to <b>no</b> in an upgraded CSDB for backward compatibility; change to <b>yes</b> to enable support for multiple language objects in the CSDB. Defaults to <b>yes</b> in a new CSDB. This setting is global, affecting the entire database, and cannot be set at the user level.

Tool or UI	Contenta Explorer, Contenta Web
AppData Path	{Global} > Settings > CaS_Languages
Value	<b>sourceLanguageCountryCode</b>
Use	Specifies the source language and country of objects.
Default	<b>EN-US</b>
Note	This setting is ignored if <b>supportMultipleLanguages</b> is set to <b>no</b> .

Tool or UI	Contenta Explorer and Contenta Web
AppData Path	{Global} > Settings > CaS_Languages
Value	<b>includeLanguageCountryCodeInSourceObjectNames</b>
Use	Determines whether the value specified for <b>sourceLanguageCountryCode</b> is appended to the names of source objects when they are created.
Default	Defaults to <b>no</b> for upgrades; <b>yes</b> for new installations.
Note	For new databases, the recommended setting is <b>yes</b> . This setting is global, affecting the entire database, and cannot be set at the user level. It is ignored if <b>supportMultipleLanguages</b> is set to <b>no</b> .  <b>CAUTION:</b> Before changing this setting for an existing database, contact SDL Customer Support for assistance in migrating the CSDB.

## Updated AppData Settings in Contenta S1000D 5.6

Tool or UI	Contenta Explorer, Contenta Web
AppData Path	{Global} (or <i>user_desktop</i> ) > Settings > Display

<b>Tool or UI</b>	<b>Contenta Explorer, Contenta Web</b>
<b>Value</b>	listViewPropertyFields
<b>Use</b>	Defines all property fields to be displayed as columns in the list view. This list includes properties from multiple object types. Names are case sensitive and must be comma-separated.
<b>Default</b>	<b>Document Type, Technical Name, Information Name, Information Code, System Difference Code, Language ISO Code, Country ISO Code, Publication Module Title, SCORM Content Package Title</b>
<b>Note</b>	Add or remove property fields from the default list as desired. The <b>Language ISO Code</b> and <b>Country ISO Code</b> property fields have been added to this setting to allow sorting the List View by language or country code.

#### New AppData Settings in Contenta S1000D 5.5

<b>Tool or UI</b>	<b>Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View</b>
<b>AppData Path</b>	<b>{Global} &gt; mimetypeMappings</b>
<b>Value</b>	<b>application/vnd.openxmlformats-officedocument.wordprocessingml.document</b>
<b>Use</b>	Specifies a Word mime type mapping. This is used to control which file extension is added to a Word (.docx) file when it is exported for content editing or viewing.
<b>Default</b>	<b>.docx</b>
<b>Note</b>	

<b>Tool or UI</b>	<b>Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View</b>
<b>AppData Path</b>	<b>{Global} &gt; mimetypeMappings</b>
<b>Value</b>	<b>application/vnd.openxmlformats-officedocument.presentationml.presentation</b>
<b>Use</b>	Maps MIME type to .pptx file extension.
<b>Default</b>	<b>.pptx</b>
<b>Note</b>	

<b>Tool or UI</b>	<b>Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View</b>
<b>AppData Path</b>	<b>{Global} &gt; mimetypeMappings</b>

<b>Tool or UI</b>	<b>Content Check Out, Content Check In, Content View, Content Fetch, Check Out, Check In, Edit, View</b>
<b>Value</b>	<b>application/vnd.openxmlformats-officedocument.spreadsheetml.sheet</b>
<b>Use</b>	Maps MIME type to .xlsx file extension.
<b>Default</b>	<b>.xlsx</b>
<b>Note</b>	

#### New AppData Settings in Contenta S1000D 5.4

<b>Tool or UI</b>	<b>Contenta Web checkout tools</b>
<b>AppData Path</b>	<b>{Global} (or <i>user desktop</i>) &gt; Settings &gt; Editors &gt; cw_xml_co</b>
<b>Value</b>	<b>customS1000DEditorPath</b>
<b>Use</b>	Specifies the path to a custom S1000D XML editor to be launched with the Contenta S1000D Web <b>Check Out</b> tool.
<b>Default</b>	empty
<b>Note</b>	Defaults to empty for backward compatibility. This AppData setting is not supported in Contenta S1000D 5.8 and later.

<b>Tool or UI</b>	<b>Contenta Web checkout tools</b>
<b>AppData Path</b>	<b>{Global} (or <i>user desktop</i>) &gt; Settings &gt; Editors &gt; cw_xml_co</b>
<b>Value</b>	<b>launchCustomS1000DEditor</b>
<b>Use</b>	Specifies the whether to launch a custom S1000D XML editor with the Contenta S1000D Web <b>Check Out</b> tool.
<b>Default</b>	<b>no</b>
<b>Note</b>	Defaults to <b>no</b> for backward compatibility; change to <b>yes</b> if using a custom S1000D XML editor.  This AppData setting is not supported in Contenta S1000D 5.8 and later.

#### New AppData Settings in Contenta S1000D 5.3

<b>Tool or UI</b>	<b>S1000D Upload Content</b>
<b>AppData Path</b>	<b>{Global} &gt; Settings &gt; CaS_Upload</b>
<b>Value</b>	<b>createSystemDifferenceCodeObjects</b>
<b>Use</b>	Specifies whether the System Difference Code layer should be included in the S1000D hierarchy.



Tool or UI	S1000D Upload Content
Default	Defaults to <b>no</b> for backward compatibility with earlier databases; <b>yes</b> for new databases.
Note	<p>Impacts the following tools:</p> <ul style="list-style-type: none"> <li>• <b>S1000D Upload Content:</b> Uploading DMs and ICN-based graphics.</li> <li>• <b>S1000D Define DRML and IRL:</b> When the option to create a DM or ICN from the code is checked.</li> <li>• <b>S1000D Manage DMRL and IRL:</b> When the create tool is selected for a DM or ICN. Uploading PMs or SCORM Content Packages is not impacted by this change.</li> </ul>

#### New AppData Settings in Contenta S1000D 5.0

Tool or UI	Contenta Web
AppData Path	<b>{Global} (or <i>user_desktop</i>) &gt; content@web &gt; Settings &gt; ObjectViewPrefTools</b>
Value	Six values (Contenta object types): <b>DModule, PModule, Dispatcher, BMP, GIF, JPG</b>
Use	Specifies the default web tool for a Contenta object type.
Default	<p>For <b>DModule</b>: <b>S1000D LiveContent Preview</b></p> <p>For <b>PModule</b>: <b>S1000D Publish</b></p> <p>For <b>Dispatcher</b>: <b>S1000D DDN Export</b></p> <p>For <b>BMP, GIF, JPG</b>: <b>Content View</b></p>
Note	You can change the default web tools as desired, and add default tools for other object types as well. Different users can have different default tools. For example, a writer may have Arbortext (the round-trip edit tool) as their default tool for DModule objects, whereas a reviewer may have or Fetch as their default tool for DModule objects.

Tool or UI	S1000D LiveContent Preview
AppData Path	<b>{Global} &gt; Settings &gt; CaS_LCPreview</b>
Value	<b>stylesFolder</b>
Use	Specifies the name of the LiveContent styles folder.
Default	<b>s1000d</b>
Note	Contenta S1000D delivers default styles to the <b>s1000d</b> folder. If you have your own custom LC styles that you want to use instead, change this value to the name of your LC styles folder. See the <i>Configuring LC Preview to use custom styles</i> topic in the <i>Contenta S1000D Installation and Upgrade Guide</i> .

Tool or UI	Manage Applicability (Contenta S1000D Editor plug-in)
AppData Path	{Global} > Settings > CaS_ManageApplic
Value	applicIdPrefix
Use	Specifies the prefix for system-generated Applicability IDs. This prefix applies across the CSDB, not to a particular ACT file.
Default	app
Use	Change this value to a different value if desired.

Tool or UI	S1000D Validate
AppData Path	{Global} (or <i>user_desktop</i> ) > Settings > CaS_Validate
Value	enableBrexValidation
Use	Indicates whether a user may access the Validate BREX options in the Validate tool interface. When set to <b>no</b> , Validate BREX options do not appear in the UI.
Default	yes
Note	You may want to set the <b>Global</b> value to <b>no</b> for all users by default, then add the <b>enableBrexValidation</b> value under individual users' desktops in the <b>Settings &gt; CaS_Validate</b> path and set this value to <b>yes</b> for users whom you want to have this permission. If the value is not found for a user, the Global setting is used.

Tool or UI	Contenta Explorer, Contenta Web
AppData Path	{Global} (or <i>user_desktop</i> ) > Settings > Display
Value	displayName
Use	Indicates whether to display object names or alternate names in the tree view in Contenta Explorer and Contenta Web.
Default	name
Note	Change this value to <b>alternateName</b> to display alternate names rather than object names in the tree view. An end user may override this AppData setting in Contenta Explorer as follows: Click <b>Tools &gt; Options &gt; Startup</b> to toggle the <b>Display Name in Hierarchy</b> setting (Name or Alternate Name). Whether modifying this AppData setting or the related Startup value, you must log out of Contenta and then log back in before this change will take effect.

Tool or UI	Contenta Explorer, Contenta Web
AppData Path	{Global} (or <i>user_desktop</i> ) > Settings > Display > alternateNames

<b>Tool or UI</b>	<b>Contenta Explorer, Contenta Web</b>
<b>Values</b>	Three values (Contenta object types): <b>DModule</b> , <b>PModule</b> , <b>SCORMContentPackage</b>
<b>Use</b>	Specifies one or more property field names to display as alternate names for different object types in the tree view, and to display as tooltips when hovering over the Name column in the list view. Property field names must be comma-separated.
<b>Default</b>	For <b>DModule</b> : <b>Technical Name, Information Name</b>  For <b>PModule</b> : <b>Publication Module Title</b>  For <b>SCORMContentPackage</b> : <b>SCORM Content Package Title</b>
<b>Note</b>	You can change the existing values to different property field names, or add values for other object types. Do not add values for the following object types, which display code descriptions as alternate names: System, Subsystem, Subsystem, PNumber.

<b>Tool or UI</b>	<b>Contenta Explorer, Contenta Web</b>
<b>AppData Path</b>	<b>{Global} (or <i>user_desktop</i>) &gt; Settings &gt; Display</b>
<b>Value</b>	listViewPropertyFields
<b>Use</b>	Defines all property fields to be displayed as columns in the list view. This list includes properties from multiple object types. Names are case sensitive and must be comma-separated.
<b>Default</b>	<b>Document Type, Technical Name, Information Name, Information Code, System Difference Code, Publication Module Title, SCORM Content Package Title</b>
<b>Note</b>	Add or remove property fields from the default list as desired.

<b>Tool or UI</b>	<b>Contenta Explorer, Contenta Web</b>
<b>AppData Path</b>	<b>{Global} (or <i>user_desktop</i>) &gt; Settings &gt; Display</b>
<b>Value</b>	<b>Sort</b>
<b>Use</b>	Defines the sort order for the list view and tree view in Contenta Explorer and Contenta Web. The default sort order can be changed by modifying this AppData value; the sort column and order for the list view can also be changed by the end user in Contenta Explorer and Contenta Web. After modifying this AppData value, you must log out of Contenta and then log back in before this change will take effect.
<b>Default</b>	<b>Build</b>
<b>Note</b>	<b>Build</b> sorts in build order. Change to <b>Asc</b> to sort alphabetically in ascending order, or <b>Desc</b> to sort alphabetically in descending order.

Tool or UI	Contenta Web
AppData Path	{Global} > Settings > Display
Value	showSensitiveInfo
Use	Specifies whether Contenta API and Contenta Server version information and Database type and schema information will be displayed in the <i>About Contenta Web</i> dialog.
Default	yes
Note	If this setting is changed to <b>no</b> , the <i>About Contenta Web</i> dialog will display only the Contenta Web version. Contenta API and Contenta Server version and platform information and Database type and schema information will be suppressed. The suppressed information will be recorded in Tomcat's stdout log.

Tool or UI	Contenta Web checkout/fetch tools: Arbortext or Oxygen (round-trip edit tool), Arbortext or Oxygen Check Out, Arbortext Fetch
AppData Path	{Global} (or <i>user_desktop</i> ) > Settings > Editors > cw_xml_co
Value	launchArbortext or launchOxygen
Use	Indicates whether the web checkout tools should automatically launch the XML editor.
Default	yes
Note	Change this value to <b>no</b> if Arbortext or Oxygen editor is not installed on Contenta Web clients, or if you don't want it to be automatically launched for other reasons.  This AppData setting is not supported in Contenta S1000D 5.8 and later.

Tool or UI	Contenta Explorer/Contenta Web checkout/fetch tools (Arbortext or Oxygen, Arbortext or Oxygen Check Out, Arbortext Fetch - web tool only), Insert Reference (Contenta S1000D Editor plug-in)
AppData Path	<i>user_desktop</i> > Settings > Graphics
Value	exportReferencedGraphics
Use	Set on a per-user basis to specify whether graphics should be exported for display in the editor when a user checks out a module, and downloaded and displayed when a user inserts a reference to a graphic via <b>Contenta &gt; Insert Reference...</b> in the editor.
Default	None: Because there is no <b>Global</b> user setting for <b>exportReferencedGraphics</b> , this setting is not set in new or upgraded databases.

<b>Tool or UI</b>	<b>Contenta Explorer/Contenta Web checkout/fetch tools (Arbortext or Oxygen, Arbortext or Oxygen Check Out, Arbortext Fetch - web tool only), Insert Reference (Contenta S1000D Editor plug-in)</b>
<b>Note</b>	<p>Set this value to <b>prompt</b> if the user should be asked if they want to export graphics each time they check out or fetch a module. Set this value to <b>yes</b> if graphics should always be exported or downloaded, or <b>no</b> if graphics should never be exported or downloaded. If this value is set to <b>yes</b> or <b>no</b>, the user is not prompted during checkout.</p> <p><b>Tip:</b> You can also add or modify this AppData setting via the <b>Contenta &gt; Set Preference for Graphics Export</b> menu item in the editor.</p>

<b>Tool or UI</b>	<b>Insert Reference (Contenta S1000D Editor plug-in)</b>
<b>AppData Path</b>	<b>{Global} (or <i>user_desktop</i>) &gt; Settings &gt; Graphics</b>
<b>Value</b>	<b>multimediaObjects</b>
<b>Use</b>	Defines which object types will have multimedia (vs. graphic) markup inserted when a user inserts a reference to a graphic via <b>Contenta &gt; Insert Reference...</b> in the XML editor. Names are case sensitive and must be hyphen-delimited.
<b>Default</b>	<b>AVI-MOV-MP3-MP4-MPEG-NGrain_3KO-PDF-RHI-RM-SWF-WAV-WMA-WMV</b>
<b>Note</b>	Add or remove object types from this list as needed. For example, if your content includes FLA multimedia files, add <code>FLA</code> to the hyphen-delimited list. Likewise, if your content includes VDS multimedia files, add <code>VDS</code> to the list.

#### Updated AppData Settings in Contenta S1000D 5.0

<b>Tool or UI</b>	<b>Search (Contenta Web tool)</b>
<b>AppData Path</b>	<b>{Global} &gt; content@web &gt; Settings</b>
<b>Value</b>	<b>cw_searchObjectTypes</b>
<b>Use</b>	Specifies which object types you want the Search tool (Contenta Web) to include in searches. Names are case sensitive and must be hyphen-delimited.
<b>Default</b>	<b>DModule-PModule-SCORMContentPackage-AVI-BMP- CGM-EPS-GIF-JPG-MOV-MP3-MP4-MPEG-NGrain_3KO- PNG-RHI-RM-SVG-SWF-TIF-WAV-WMA-WMV</b>

Tool or UI	Search (Contenta Web tool)
Note	<p><b>Important:</b> If your content contains SVGZ graphics (compressed SVG files), add <code>svgz</code> to the hyphen-delimited list of object types available for Advanced Search in this AppData setting. If your content contains SAP VDS multimedia files, add <code>vds</code> to this list. If your content contains FLA multimedia files, add <code>fla</code> to this list. If your content contains CSS files, add <code>css</code> to this list. If your content contains JavaScript (JS) files, add <code>js</code> to this list.</p> <p>Several new object types were added in Contenta S1000D 5.0, and the graphics types were reordered alphabetically. Remove any object types that you do not want included in Contenta Web searches.</p>

#### New AppData Settings in Contenta S1000D 4.1

Tool or UI	Contenta Explorer/Contenta Web checkin tools (Arbortext or Oxygen, Arbortext or Oxygen Check In)
AppData Path	<p>For all S1000D programs (models): <b>{Global} &gt; S1000D Programs &gt; DEFAULT</b></p> <p>For a specific program (model): <b>Global &gt; S1000D Programs &gt; <i>program_name</i></b></p>
Value	<b>autoUpdateTableOfReferences</b>
Use	Indicates whether to automatically update the table of references when a DM is checked in.
Default	<b>no</b>
Note	Change values to <b>yes</b> if you want the table of references to be rebuilt each time you check in an updated DM. If a program name is not set, the value for the <b>DEFAULT</b> program is used.

Tool or UI	S1000D Upload Content
AppData Path	<b>{Global} (or <i>user_desktop</i>) &gt; Settings &gt; CaS_Upload</b>
Value	<b>allowUploadToOverwriteStableData</b>
Use	Indicates whether a user is allowed to overwrite stable data when they run S1000D Upload Content.
Default	<b>yes</b>
Note	You may want to set the <b>Global</b> value to <b>no</b> for all users by default, then add the <b>allowUploadToOverwriteStableData</b> value under individual users' desktop names in the <b>Settings &gt; CaS_Upload</b> path and set this value to <b>yes</b> for users whom you want to have this permission. If the value is not found for a user, the Global setting is used.

<b>Tool or UI</b>	<b>S1000D DDN Export, S1000D Upload Content</b>
<b>AppData Path</b>	<b>{Global} (or <i>user_desktop</i>) &gt; Settings &gt; DDNExport</b>
<b>Value</b>	<b>allowLockObjectsOnDDNExport</b> <b>allowUnlockObjectsOnDDNUpload</b>
<b>Use</b>	Indicates whether a user is allowed to lock objects when using the DDN Export tool and/or to unlock objects when using the Upload Content tool to upload a DDN.
<b>Default</b>	<b>no</b>
<b>Note</b>	You may want to set the <b>Global</b> value to <b>no</b> for all users by default, then add the <b>allowLockObjectsOnDDNExport</b> and <b>allowUnlockObjectsOnDDNUpload</b> values under individual users' desktop names in the <b>Settings &gt; DDNExport</b> path and set these values to <b>yes</b> for users whom you want to have this permission. If the value is not found for a user, the Global setting is used.

## Optimizing S1000D Upload Content performance

This topic provides guidelines to help determine the optimal values of registry settings related to multithreading for the S1000D Upload Content tool.

Use of multiple threads helps to increase the overall performance of the S1000D Upload Content tool, but caution should be used when configuring the various thread-related registry settings. Before modifying these registry settings, it is critical to have a clear understanding of how the number of executing processes relative to available system resources impacts performance. Refer to Amdahl's Law to understand more on threading and system resources.

**Important:** These guidelines are based on research done by RWS and are for information purposes only. The values of the registry entries that you should use may vary, based on available system resources and consideration of the other software processes that may be running during the execution of the Upload Content tool. The default registry values set by the Contenta Web installer are generally optimal for an environment in which users are actively using Contenta Web alongside the execution of the S1000D Upload Content tool.

## How S1000D Upload Content performance was tested

To find the optimal settings for S1000D Upload Content tool performance, the relationship among the following registry values under the key path `HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\XyEnterprise\Contenta\Web\Settings\UploadWas` was examined.

- **MAX\_UPLOAD\_THREADS:** The number of upload threads that will be immediately created. This value does not limit the maximum number of threads created by the tool over time.
- **MAX\_POOL\_SIZE:** The maximum number of threads used by tool that can be created.
- **MAX\_CS\_PROCESSES** (Contenta Server Processes): The maximum number of connections to Contenta Server (i.e. portal processes) by the tool. An upload thread must have a connection to a portal process in order to import a data file.
- **MAX\_QUEUE\_SIZE:** The maximum number of S1000D Upload Content import tasks that can be queued.

These settings control both the number of upload threads and the number of Contenta Server processes available for use by those threads.

The following system configuration was used during the research.

- **Processor:** Intel® Core™ i7 CPU 2.11GHz
- **Number of Processors:** 6
- **Memory:** 16 GB
- **Disk:** 500 GB SATA
- **Products Installed:** Contenta Web, Contenta server, and Oracle Database server.

Only the Upload Content tool was executed to gather the various data points.

## Findings and guidelines

Performance testing of the S1000D Upload Content tool yielded the following results.

- **MAX\_UPLOAD\_THREADS**  
Setting **MAX\_UPLOAD\_THREADS** to the number of processors plus one improved performance by 50% over the default value of 2. The optimal value for this setting can be the number of processors plus one.
- **MAX\_POOL\_SIZE**  
Upload Content performed best when **MAX\_POOL\_SIZE** was set to double the value set for **MAX\_UPLOAD\_THREADS**.
- **MAX\_CS\_PROCESSES**  
In general, it was found that for best performance, the value set for **MAX\_CS\_PROCESSES** should always be equal to or greater than that of **MAX\_QUEUE\_SIZE**. Setting the value of **MAX\_CS\_PROCESSES** to at least five more than that of **MAX\_QUEUE\_SIZE** ensures there will be no thread waiting for a Contenta Server (portal) process to be available for use.
- **MAX\_QUEUE\_SIZE**  
The value of **MAX\_QUEUE\_SIZE** should be based on how much memory is allocated for Java on the Tomcat server. Setting this value too high could cause an out-of-memory error or slow down system performance. Also remember that this value has a direct relation to **MAX\_CS\_PROCESSES**. RWS recommends that the value of **MAX\_QUEUE\_SIZE** be set to five times the value of **MAX\_POOL\_SIZE**.



## Registry settings for S1000D Upload Content parallel processing

This topic describes the registry settings that control S1000D Upload Content parallel processing.

The registry settings that control parallel processing for the S1000D Upload Content tool are located at the following path.

- `\SOFTWARE\Wow6432Node\XyEnterprise\Contenta\Web\Settings\Upload`

Adjust the values for the following registry settings to optimize S1000D Upload Content parallel processing.

### **MAX\_UPLOAD\_THREADS**

Number of threads to keep in the pool during upload. Default is 2.

### **MAX\_POOL\_SIZE**

Maximum number of threads to allow in the pool during upload. Default is 4.

### **MAX\_QUEUE\_SIZE**

Maximum number of tasks in the queue of upload tasks. Default is 25.

### **MAX\_CS\_PROCESSES**

Maximum number of Contenta Application Server processes kept connected per upload job. Default is 5.

### **THREAD\_KEEP\_ALIVE\_TIME**

When the number of threads is greater than the number of active tasks, the maximum time (in milliseconds) that idle threads will wait for new tasks before terminating. Default is 2000.

### **THREAD\_DELAY**

Time (in milliseconds) to pause the main thread when maximum number of tasks are queued before scheduling the next task. Default is 2000.

### **READ\_STOP\_SIGNAL\_INTERVAL**

Time (in seconds) to verify the interrupt signal for the upload job. By setting AppData value `{user} /UploadContentStatus/{uploadJobName}` to `STOP`, triggers upload job to cancel. Default is 300.

### **MULTI\_PROCESSING\_MIN\_FILE\_SET**

Minimum number of files selected for upload to enable multi-processing. Default is 25.

---

**Note:** Setting this value to a lower number may adversely affect performance because multi-processing takes time to set up threads and Contenta Application Servers, which has little to no benefit for a low file set.

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### **SET\_OF\_FILES\_TO\_UPLOAD**

Number of files uploaded by each Contenta Application Server process. If this number is reached, the Contenta Server connection is reset. Default is 2000.

#### MAX\_PORTAL\_CONNECTION\_RETRIES

Maximum number of times that S1000D Upload Content will try to connect to the Contenta Application Server to upload. Default is 10.

#### CONNECTION\_RETRY\_SLEEP

Time (in milliseconds) that S1000D Upload Content will wait after a failed connection attempt before retrying to connect to Contenta Server. Default is 2000.

## Configuring Contenta S1000D web clients to run custom XML editors

How to configure Contenta S1000D web clients to use any XML editor to edit Contenta S1000D objects.

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**CAUTION:** This configuration should be performed by a Contenta administrator who is familiar with using the Contenta Administration utility, `pcadmin`, to configure databases as explained in the Contenta Administration documentation.

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**Note:** This configuration does not need to be done at sites that are using Arbortext Editor or Oxygen XML Author or at sites that are not using Contenta S1000D web clients. Extended XML editor support is available only for web clients.

---

Contenta S1000D includes **Check Out** and **Check In** web tools for long-term check out and check in using any XML editor. These two web tools are attached to DModule, PModule, and SCORMContentPackage objects but are not initially assigned to any toolboxes.

Administrators first need to decide whether they want to use these **Check Out** and **Check In** tools or if they want to create new tools based on these tools but named for the editor in use, for example, **XML Spy Check Out** and **XML Spy Check In**.

To use the **Check Out** and **Check In** tools, run `pcadmin` in single-user mode and add these tools to the toolboxes (roles) for the users who will be editing with these tools.

To create new tools, run `pcadmin` in single-user mode and note the content of the following fields in the **Check Out** and **Check In** tool configuration:

- Tool Type
- Command Line
- Tool also exists in these Objects Create two new tools that are identical to the existing **Check Out** and **Check In** tools except for the contents of these three fields:
  - Menu Label
  - Description
  - In Tool Boxes

When prompted to assign the new tool to toolboxes, select toolboxes (roles) for the users who will be editing with this tool. After that, when prompted to assign the new tool to objects, assign it to DModule, PModule, and SCORMContentPackage objects.

Administrators at sites that are not using the Arbortext or Oxygen editor may delete the Arbortext- or Oxygen-related client and tools via `pcadmin`. Client tools include:

- Arbortext
- Arbortext Check Out
- Arbortext Check In
- Oxygen
- Oxygen Check Out
- Oxygen Check In

Web tools include:

- Arbortext
- Arbortext Check Out
- Arbortext Check In
- Arbortext Fetch
- Oxygen
- Oxygen Check Out
- Oxygen Check In
- Oxygen Fetch

Finally, administrators must modify two AppData settings that are initially located under the **{Global} > Settings > Editors > cw\_xml\_co** key but may also be associated with individual users as needed, where the individual user's setting overrides the related setting for the {Global} user.

- Set the **customS1000DEditorPath** value to the path of your XML editor.
- Set the **launchCustomS1000DEditor** value to **yes**.

## Configuring Arbortext Editor integration

How to configure Arbortext Editor integration with Contenta S1000D.

In most cases, the Contenta S1000D installation or upgrade program configures the editor extensions for your XML editor software automatically. However, if the program fails to configure the extensions, or if you upgrade or install your XML editor software after the Contenta S1000D installation or upgrade, you can configure the editor extensions by performing the following steps.

1. Optionally, modify the editor setup configuration file.

2. Run the `Contenta_home/encaps/EditorSetup/EditorSetup.jar` file. The following topics describe these steps.

## Modifying the editor extension configuration file

Follow these steps to modify the `EditorSetup.cfg` editor extensions setup configuration file for Arbortext Editor integration.

### About this task

The `EditorSetup.cfg` file can be modified to configure various versions of Arbortext Editor. In most cases, many values will not need changes, except the editor software version, executable file path and name, etc.

**Attention:** Before you modify this file, be sure you fully understand its keys and values.

### Procedure

1. Copy and rename the configuration file, `Contenta_home/encaps/EditorSetup/EditorSetup.cfg`.
2. Edit the key/value pairs in the file as needed in the Contenta section.

Key	Value
<b>Contenta</b>	
<code>cc_DirsKey</code>	Registry path to Contenta <b>D</b> irectories key.
<code>cc_DirsKey64</code>	Registry <b>wow6432Node</b> path to Contenta <b>D</b> irectories key.
<code>cc_ProdSubKey</code>	Registry path to Contenta <b>P</b> roducts key.
<code>cc_ProdSubKey64</code>	Registry <b>wow6432Node</b> path to Contenta <b>P</b> roducts key.
<code>cc_VersionLookup</code>	Registry values from which Contenta version information can be extracted.
<code>cc_LinuxVersionEE</code>	Path to the Contenta editor extension version file on Linux.
<code>cc_Silent</code>	Whether to execute the setup in silent mode.
<code>cc_EnvKey64</code>	Registry path to <b>E</b> nvironment key.

Generally, users do not need to modify the entries in this section.

3. Edit the key/value pairs as needed in the remaining sections, which are specific to your editor.

For more information, see *Arbortext Editor configuration items*, which follows.

4. Save the modified file to *Contenta\_home/encaps/EditorSetup*.
5. Navigate to the *Contenta\_home/encaps/EditorSetup* directory.
6. As an Administrator, execute the setup program using the following syntax.

```
java -jar EditorSetup.jar -f directory_path/configuration_file
```

- Use quotation marks around path/file names that contain spaces.
- If the `EditorSetup.jar` file is located in the current working directory, the path to the configuration file is optional.
- If command line parameters are specified when using a configuration file, the command line values supersede those in the configuration file.

## Arbortext Editor configuration items

Configuration items specific to Arbortext Editor in the `EditorSetup.cfg` configuration file.

The following table describes configuration items in the `EditorSetup.cfg` configuration file specific to Arbortext Editor.

Key	Value
<b>Supported Editors and Prefixes</b>	
<code>prefix_arbortext</code>	<code>ae_</code> prefix value for Arbortext Editor.
<b>Arbortext</b>	
<code>ae_home</code>	Path to editor install location.
<code>ae_name</code>	Name of the editor to compare against the value of <code>ae_NameRegValue</code> .
<code>ae_avoid</code>	Values to ignore when comparing against the value of <code>ae_NameRegValue</code> .
<code>ae_ver</code>	Version of the editor to compare against the value of <code>ae_VerRegValue</code> .
<code>ae_aclfilepath</code>	Path to the <code>_main.ac1</code> file relative to the <code>ae_home</code> location.
<code>ae_epiceditpath</code>	Path to the Contenta Arbortext Editor plugin files relative to the <i>Contenta_home</i> directory.
<code>ae_S1000DSpecVersions</code>	Comma-delimited list of the S1000D Spec Issues that will be edited with Arbortext Editor.
<code>ae_InstallType</code>	Default <code>tool</code> .
<b>HomeLookup</b>	
<code>ae_VerLookupRegKey</code>	Registry path to <code>uninstall</code> key.

Key	Value
ae_VerLookupRegKey64	Registry <b>wow6432Node</b> path to <b>Uninstall</b> key.
ae_NameRegValue	Registry value from which the editor name can be extracted to compare against the value of <b>ae_name</b> .
ae_VerRegValue	Registry value from which the editor version can be extracted to compare against the value of <b>ae_ver</b> .
ae_LocationRegValue	Registry value from which the editor install location can be extracted.
<b>AppPath</b>	
ae_AppPath	Registry path to <b>AppPath</b> key.
ae_AppPath64	Registry <b>wow6432Node</b> path to <b>AppPath</b> key.
ae_AppPathKey	Key name to be created under <b>AppPath</b> key.
ae_ExeLocation	Relative path to the editor's executable parent from the editor install location.
ae_Executable	Editor executable name. If <b>&lt;ae_ver&gt;</b> exists in the executable name, it will be replaced with the Arbortext editor version value.
<b>EnvironmentEntries</b>	
ae_CoreAPTCLASSPATH	Path relative to the Contenta install location for the editor plugin framework directory.
ae_CaSAPTCLASSPATH	Path relative to the Contenta S1000D install location for the editor plugin framework directory.
ae_CaSAPTCATPATH	Path to the directory containing S1000D schemas.
<b>StylesDistribution</b>	
ae_configurestyles	Whether the installer will configure Arbortext Editor styles. Default is <b>true</b> .
ae_SchemaDirBase	Path to the Arbortext Editor schema directory.
ae_StyleDir	Path to the Arbortext Editor style directory.

## Running the EditorSetup.jar file

Follow these steps after installing or upgrading Contenta S1000D to configure Arbortext Editor integration.

### Before you begin

Java Runtime version 1.8 or greater is a prerequisite for running `EditorSetup.jar` on Contenta Explorer clients.

---

**Attention:** On 64-bit clients, do not install Java under the `Program Files (x86)` directory, as that will cause the `EditorSetup.jar` program to fail.

---

### About this task

- The log file for the program in these procedures is written to the `Contenta_home/logs` directory and named `EditorSetup.log` unless an alternate file name is specified at the command line.
- To specify options in a configuration file to override the defaults, see *Modifying the editor setup configuration file* in this section.
- To uninstall editor extensions, see *Uninstalling editor extensions* in this section.

To run the program using the defaults on Windows systems, follow the procedure below.

### Procedure

1. As an Administrator, at a command prompt, access the `Contenta_home/encaps/EditorSetup` directory.
2. Enter the following command: `java -jar EditorSetup.jar -f directory_path/configuration file`  
You are prompted to confirm you want to run the setup with the default options as specified in the `EditorSetup.cfg` configuration file.
3. Enter one of the following.
  - **y** to continue
  - **n** to display the default options and exit the program
4. Optionally, specify one or more options on the command line to override the defaults as in the following example.

```
java -jar EditorSetup.jar -it TOOL -en Editor_name -ev Editor_version -silent
```

The following table describes the available command line options.

Option	Description
-?, -h, or --	Displays <code>EditorSetup.jar</code> usage.
-en <i>Editor_name</i>	Editor software name. If not provided, <code>EditorSetup.jar</code> will run using the options specified in the configuration file.  This option is required if some of the other options are used as noted below.
-eh <i>Editor_home</i>	Editor software home directory. Overrides the editor home value specified in the configuration file. This option can be used only if a value is provided with the -en option.
-ch <i>Contenta_home</i>	Contenta S1000D home directory.  Not required if <code>EditorSetup.jar</code> is run in the <i>Contenta_home/encaps/EditorSetup</i> directory.
-it TOOL	TOOL or CLIENT  <b>Note:</b> The <code>CLIENT</code> value is obsolete; the default, <code>TOOL</code> , is used regardless of the value you assign to this option.
-ev <i>Editor_version</i>	Editor software version. Overrides the editor version value specified in the configuration file. This option can be used only if a value is provided with the -en option.  Default is 8.1
-ex <i>Editor_executable</i>	Editor executable file. Overrides the executable file value specified in the configuration file. This option can be used only if a value is provided with the -en option.
-styles	If present, configures the delivered S1000D style files for the editor. This option can be used only if a value is provided with the -en option.
-gethome	If present, returns the install location of the editor software. This option can be used only if a value is provided with the -en option.
-getinfo	If present, returns the install location and version of the editor software. This option can be used only if a value is provided with the -en option.
	If present, verifies that the specified editor software is installed. This option can be used only if a value is provided with the -en option.
-silent	When present, runs <code>EditorSetup.jar</code> in silent mode and writes output to the log file.



Option	Description
-uninstall	If present, backs up the Contenta S1000D tools' current configuration for the editor and removes the integration between the tools and the editor.

When the process completes, a confirmation message is displayed.

## Removing editor extension integration

Run the `EditorSetup.jar` file to remove the integration between Contenta S1000D tools and the editor extensions.

### Procedure

1. As the Administrator user, at a command prompt, navigate to the `Contenta_home/encaps/EditorSetup` directory.
2. Execute the following command.

```
"$JAVA_HOME$/bin/java" -jar ./EditorSetup.jar -uninstall -en Editor_name
-ev Editor_version
```

where *Editor\_name* and *Editor\_version* describe the editor software to be uninstalled. The `-ev` option is required only if you are uninstalling a version of the editor software other than the latest supported version.

### Results

Integration with the editor extensions is removed from all Contenta S1000D tools.

## Uninstalling editor extensions on Windows

Use Windows Control Panel to uninstall editor extensions.

### Procedure

1. Access the Windows Control Panel as an Administrator.
2. Use the Windows Control Panel to uninstall the editor extensions as follows.
  - a. In the Windows Control Panel, select **Programs > Programs and Features** to see a list of installed software applications on this machine.
  - b. Select **Editor Extension** from the list of programs displayed.
  - c. Select **Uninstall/Change**.  
The system displays a dialog prompting you to confirm that you want to continue uninstalling the software.
  - d. Select **Yes** to continue uninstalling the software.  
The system uninstalls the Contenta Client software.

3. If the uninstalled Contenta Client was the last Contenta product on the system, use Windows Explorer to delete the *Contenta\_home* directory, if it still exists.
4. Use the Windows Control Panel to update the *Path* system variable as follows.
  - a. From the **Control Panel**, select **System and Security** > **System** > **Advanced system settings** to access the **System Properties** dialog.
  - b. In the **System Properties** dialog, select **Environment Variables** to access the **Environment Variables** dialog.
  - c. In the **System variables** section of the window, select the *Path* system variable and select **Edit** to access the **Edit environment variable** dialog.
  - d. In the **Edit environment variable** dialog, select **edit** and delete any paths associated with the variable.
  - e. Select **OK** to close the **Edit environment variable** dialog.
  - f. Select **OK** to close the **Environment Variables** dialog.
  - g. Select **OK** to close the **System Properties** dialog.
5. Close the Windows Control Panel.
6. Verify required changes to the Windows registry as follows.
  - a. From the Windows **Start** menu, select **Run**.
  - b. In the **Open** field of the resultant **Run** window, type `regedit` to launch the Windows Registry Editor.
  - c. If the following key exists, delete it.
    - `HKEY_LOCAL_MACHINE\software\xyenterprise` (Remove this key only if no other Contenta software is installed on this machine, or if you intend to uninstall it too.)

## Results

The Contenta editor extensions are uninstalled.

# Notes and limitations when not using applets

Prior to Contenta S1000D 5.8, certain Content a Web tools (Dynamic Import, and Check In/Check Out/Fetch tools) allowed use of an applet to enhance functionality when transferring content to and from the Web Server. Beginning with version 5.8, the applet is no longer supported for Contenta Web for all tools except Dynamic Import and Framebook tools (with Internet Explorer only).

Note the following about using the Contenta Web tools that transfer files to and from the Web Server without applets.

- Customers using the FrameBook editing tools with Contenta Web for non-leaf nodes must use the applet and enable the applet in the registry on the Contenta Web server. See *Configuring applet support* in the Contenta documentation for more information.

- **Dynamic Import**

- By default, the applet is not enabled for Dynamic Import. If your browser does not support applets or you cannot use applets, you must disable applet support for Dynamic Import on the Contenta Web Server. When the applet is not used, only single files can be uploaded. See *Configuring applet support* in the Contenta documentation for more information.
- For Contenta S1000D, the XML editing tools allow for graphics to be transferred to the client (if requested) without the use of an applet. The graphics are transferred when the user launches the editor by the Contenta S1000D editor plugin, and the user sees an indicator while the graphics are transferred and loaded in the editor.
- Custom tools that make use of the Contenta applet must be modified by the customer to use an alternative method for uploading and downloading files.

- **Checkout Tools**

- Without applets, only single files can be transferred to the web browser client, and editors cannot be launched automatically.
- Browsers behave differently when downloading files. Generally, you get options to **Save**, **Save as**, and **Open with**. The default location for files for these choices varies (e.g. `temp` directory, `download` directory). Similarly, **Open with** behaves differently depending on the browser. Refer to your browser documentation for specifics.
- In Firefox, **Open with** is not a good option since for some reason, it always renders the files as read-only.
- Setting default file association in Windows for XML files to launch the correct editor (such as Arbortext Editor) can make downloading and editing files easier. Refer to Microsoft documentation for information on XML file associations and Internet Explorer.
- It is important to not change the file name of a document when saving it during checkout. When you perform **Save as**, it is possible to either edit the file name before saving or to accidentally click on a file or folder in the browse dialog, changing the file name to whatever was last clicked. Check In won't work if the file name is changed.
- If you change your mind after being presented with the browse dialog during checkout and click the dialog's **Exit** button, the selected object(s) are left locked. You must unlock them by using the Unlock tool on each object or by using `pcmsessions`.

- **Check in Tools (Long-Term)**

- Use caution when selecting the file to check in. First determine which folder it is in. Then, be sure to select the correct file. The Check In dialog provides the name of the file that should be selected.
- It is important to keep the "checkout" directory cleaned up. The long-term checkout tool tools cannot delete files on the web browser machine.

## Configuring the Manage Internal References tool

You can enable the Manage Internal References tool and then customize its behavior by editing its configuration files.

When enabled, the Manage Internal References tool launches automatically in the Arbortext or Oxygen XML editor when a user navigates to a location within a document where an internal reference can be inserted and selects **Insert > Markup**. To enable this functionality, set the following AppData value to `on`.

```
{Global}/Settings/Editors/cw_xml_co/enableManageInternalReferencesOnInsert
```

The Contenta S1000D installation program delivers the following configuration files to the `Contenta_home\encaps\S1000D\XYArborTextPulugin\projects` directory.

- `xref_targets_all_XXX.txt`  
This file lists all of the element types within a spec issue to which you can create an internal reference.
- `xref_targets_dflt_XXX.txt`  
This file lists a subset of the element types within a spec issue you can reference, and is used to populate the list of potential reference targets displayed in the **Select Xref target** dialog that is displayed when the tool is launched.

---

**Note:** In the preceding file names, `xxx` represents the S1000D spec issue. The spec issue is included in the file name in three digits without decimals; for example, 420 represents issue 4.2. RWS delivers a version of each of these files for each supported issue.

---

The following file contains the attributes the tool needs to generate internal reference markup and element IDs for the spec issue. It informs and controls target ID generation and assignment of `xidtype` (issue 3.0 or earlier) and `internalRefTargetType` (issue 4.0 and later) values.

`xref_targets_fmt.xml`

## Customizing the Manage Internal References tool target list

Customize the list of potential internal reference target element types for the Contenta Manage Internal References tool by editing the default configuration file associated with the S1000D issue with which you will work.

### About this task

The list of potential internal reference target element types displayed in the Contenta Manage Internal References tool dialog is populated with the values specified in the default configuration file associated with the S1000D issue which you are working. SDL delivers a version of the default configuration file named `xref_targets_dflt_XXX.txt` (where `XXX` is the S1000D spec issue), for each supported S1000D issue to the `Contenta_home\encaps\S1000D\XYArborTextPulugin\projects` directory.

### Procedure

1. Open the applicable default configuration file for editing.
2. Add or delete items from the list as desired.  
For your convenience, SDL delivers a file named `xref_targets_all_XXX.txt` (where `XXX` is the S1000D issue), for each supported S1000D issue to the `Contenta_home\encaps\S1000D\XYArborTextPulugin\projects` directory, containing all the element types to which you can create an internal reference in the spec issue.
3. Save and close the default configuration file.

### What to do next

The XML editor must be restarted for your changes to take effect.

## Adding S1000D schemas and styles to Arbortext Editor

This task explains how to configure Arbortext Editor to use the Contenta S1000D plug-in and refer to S1000D styles and schemas.

### Before you begin

The Java Runtime Environment must be installed.

---

**CAUTION:** On 64-bit clients, do not install Java under the `Program Files (x86)` directory, since that causes the Arbortext Editor Setup program to fail.

---

You need to perform this task only (1) if you installed or upgraded the editor software after installing the Contenta S1000D client, or (2) if you clicked **No, I will manually copy and configure my system later** when asked if you wanted the Contenta S1000D installer to copy and configure styles and schemas for the editor. Perform this task whether the client will be accessing Contenta S1000D through Contenta Explorer or Contenta Web.

### About this task

Before you can edit content in the XML editor, you must configure it to work with Contenta S1000D.

### Procedure

1. Run the editor setup program.
  - a. Navigate to the `EditorExtensions_installldir/encaps/EpicEdit/Setup` directory.
  - b. As an Administrator execute the `EditorSetup.jar` file.
  - c. Select `No` to see usage or `Yes` to set up Arbortext Editor to work with Contenta S1000D. If you want to install the default S1000D styles, you need to run from the command line prompt with the `-styles` option as described in usage.

Using the `-styles` option copies the appropriate version of editor styles to the appropriate `xml_schema_flat` directory. For example, if you have installed Arbortext Editor 7.0, it copies AE 7.0 styles for S1000D Issues 2.3, 3.0, 4.0, 4.1, 4.2, and 5.0 to the `Contenta_home/S1000D_Samples/Schemas/2.3` (or `3.0` or `4.0` or `4.1` or `4.2` or `5.0`) `/xml_schema_flat` directories.

---

**Note:** Contenta S1000D delivers schemas for major S1000D Issues only. If you want to use schemas for minor S1000D Issues such as 3.0.1 or 4.0.1, you must download them from the [s1000d.org](http://s1000d.org) web site and configure Arbortext accordingly. See “Configuring the XML editor to use other S1000D schemas” on page 56.

---

---

**Note:** If `EditorSetup.jar` is run manually to configure Arbortext, it must be run manually to uninstall this configuration. Uninstalling Contenta editor extensions does not remove any entries added by `EditorSetup.jar`.

---

## Configuring the XML editor to use other S1000D schemas

Contenta S1000D delivers schemas for S1000D Issues such as 1.6, 1.7, 1.8, 1.8.1, 1.9, 2.0, 2.1, 2.2, 2.3, 3.0, 4.0, 4.1, 4.2, and 5.0, and provides mechanisms to configure Arbortext Editor or Oxygen XML Author or to use those schemas. This task explains how you can configure the editor to use other S1000D schemas, for example, schemas for minor S1000D Issues such as 3.0.1 or 4.0.1.

### About this task

If the schemas that you require are not delivered with Contenta S1000D in the `Contenta_home/S1000D_samples/schemas` directory, the following procedure explains one way to add them to your environment.

## Procedure

1. Download the desired S1000D schemas from the s1000d.org web site to a safe location on the client.  
For example, download the 3.0.1 schemas to the following directory: `c:/s1000d/schemas/3.0.1`
2. Create a catalog file in the schema revision's parent folder, in this example, 3.0.1.  
The contents of the catalog file must include one identifying record for each schema. The record specifies the relative file path of the schema to the XML editor. The editor matches the value of the `xsi:noNamespaceSchemaLocation` attribute in the root element of the document being edited to the identifier in quotes immediately after "URI". Then it uses the corresponding relative path to locate the schema and parse the document.  
Sample record: URI  

```
"http://www.s1000d.org/S1000D_3-0-1/xml_schema_flat/crew.xsd" ". /xml_schema_flat/crew.xsd"
```
3. Use one of the following methods to configure the editor to find the newly created catalog file.  
Add the catalog file path to the Catalogs entry under the editor's Preferences "File Locations": In the editor do the following:
  - a. Select **Tools > Preferences**.
  - b. In the Preferences dialog, click **File Locations**.
  - c. Click in the **Catalogs** field and go to the end of the field.
  - d. If there is not a semicolon (;) add one.
  - e. Enter the path to the directory that contains the catalog file you just created, which in this example is: `C:\S1000D\schemas\3.0.1`
  - f. Click **OK**.

Alternatively, create or modify a secondary catalog file in order to reference the primary catalog file that you created in step 2:

  - a. Navigate to the `Editor_home/custom/doctypes` directory.
  - b. Create a file named `catalog` if this file does not already exist. Open the catalog file for editing.
  - c. Add one record to this catalog file to specify the location of the primary catalog file.  
For example: `CATALOG "C:/S1000D/schemas/3.0.1/catalog"`  
Using this two-file approach protects the primary catalog file from changes to your XML editor installation that might cause it to be deleted.
  - d. Save the catalog file and exit.

## Specifying schema locations for Upload Content schema validation

By default, the S1000D Upload Content tool uses the path set in an XML file's `noNamespaceSchemaLocation` attribute to find the S1000D schemas against which to validate the file's content. Use the `XYV_SCHEMA_CATALOG` registry setting to specify an alternate schema location to be used if the path in that attribute does not exist or cannot be accessed.

On Windows, you specify the alternate location of the S1000D schemas for Upload Content in the `XYV_SCHEMA_CATALOG` registry setting located at the following path.

```
\SOFTWARE\Wow6432Node\XyEnterprise\Content@\Web\Settings\Upload
```

On Linux, use the Contenta `fileregedit` utility to specify the alternate location of the S1000D schemas for Upload Content in the `XYV_SCHEMA_CATALOG` setting in the following location in the `unixuser.dat` file.

```
HKEY_LOCAL_MACHINE\Software\XyEnterprise\Content@\Web\Settings
```

Specify one of the following in this setting.

- The path to a schema catalog file such as the default, `Contenta_home/S1000D_samples/schemas/Catalog`.  
If a relative path is specified, the parent directory for the main catalog file is treated as the parent for the relative path. For example, the value `CATALOG '4.1/catalog'` points to `Contenta_home/S1000D_samples/schemas/4.1/catalog` because the main catalog file resides in the `Contenta_home/S1000D_samples/schemas` directory.
- A semicolon-delimited list of schema catalog files such as `Contenta_home\S1000D_samples\schemas\4.0\Catalog;Contenta_home\S1000D_samples\schemas\4.1\Catalog`

---

**CAUTION:** When entering a delimited list, the value specified must not include a leading space or a space after a semicolon.

---

## Configuring LiveContent Preview to use custom styles

How to configure LiveContent Preview to use your custom LiveContent S1000D styles.

### Before you begin

- The Contenta Web server must be installed.
- You must have created custom styles for LiveContent S1000D .

### About this task

When you install Contenta S1000D, default styles for LiveContent Preview are installed to a specific location on the Contenta Web server. If you want to use customized styles, you must configure LiveContent Preview to access them.



**Procedure**

1. On the Contenta Web, at a command prompt, navigate to the following folder:  
`Contenta_home/web/cw_common/custom/S1000D_CVPreview/styles`
2. In the existing `styles` folder, create a new folder for your custom styles.
3. Copy the default LiveContent Preview styles from the `Contenta_home/web/cw_common/custom/S1000D_CVPreview/styles/s1000d` folder to the folder you just created.
4. Copy your custom style files into the new folder, overwriting the default style files as desired.

---

**Note:** The `tree-view.css` and `tree-view.xsl` files are used to preview PMs and SCPMs (not DMs). Only overwrite these two files if you have custom styles for PMs and SCPMs.

---

5. In Contenta Explorer, select **Tools > Options > Tool Preferences** to access AppData.
6. In AppData, navigate to `{Global} > Settings > CaS_LCPreview`.
7. Change the **stylesFolder** setting from **s1000d** to the name of the new folder that contains your custom styles.

## Updating resources after an upgrade if you publish to XPP

If you upgraded Contenta S1000D, and if you publish (or intend to publish) to XPP, add resources on the XPP server by extracting a zip file. If you do not use XPP Pub in another way (through custom publish tools), you can also remove a number of resources on the Contenta Web server and XPP server. Performing this task requires that you have XPP RESTful Web Services 1.0 installed.

## Adding new XPP publish resources from a zip file

Add resources from the `s1000dXppXz.zip` (Windows) or `s1000dXppXz_Unix.zip` (Linux) file as follows.

**Procedure**

1. Access the Contenta Web server and navigate to the Contenta home directory.
2. Navigate to the `s1000d_samples/xpp/` subdirectory of the Contenta home directory.
3. Access the XPP server and navigate to the XPP home directory.
4. Copy the appropriate file from the Contenta Web server to the XPP server.
  - For a Windows XPP server, copy `s1000dXppXz.zip`.
  - For a Linux XPP server, copy `s1000dXppXz_Unix.zip`.

5. Extract the file on the XPP server.

The following files are extracted into the existing subdirectories indicated (relative to the XPP home directory):

- `xz/procs/citi/pgcnt.pl`
- `xz/xpprest/user/modifytoc.pl`

6. Linux only: Set permissions on the extracted `pgcnt.pl` and `modifytoc.pl` files to make them executable as well as read and write.

## Removing unused XPP Pub resources

Only if you have no custom publish tools that use XPP Pub, remove a number of resources that are no longer needed. If you are unsure whether you have such tools or not, leave these resources be: removing them is not mandatory. RWS Customer Support can help you determine if you need them or not.

### Procedure

1. Access the Contenta Web server and navigate to the Contenta home directory.
2. Delete the `xppPub/` subdirectory with all of its files and subdirectories.
3. In the `encaps/S1000D/` subdirectory, delete the following files:
  - `process_xpp_buildlist.xml`
  - `process_xpp_division.xml`
  - `process_xpp_job.xml`
4. Remove the `XYV_XENA_DIR` environment variable.
5. Access the XPP server and navigate to the XPP home directory.
6. In the `xz/xppws/` subdirectory, delete the file `mkgrlib.pl`.

## Configuring a new XPP installation to publish PDFs

This task includes instructions for those installing XPP for the first time. It describes how to configure your environment as required to publish PDFs from Contenta S1000D.

### About this task

You can create PDFs from Contenta S1000D using XPP. For more information about PDF creation in XPP, see *XML Professional Publisher: PDF Support in XPP*.

**Note:** These instructions refer to the Contenta Web server and the XPP server. Contenta Web server and XPP server software may be installed on the same computer or on different computers. If they are installed on the same computer, perform the instructions on that computer in the directories indicated in the step.

## Procedure

1. Install XPP server.  
You can install XPP on a completely different server (recommended), your Contenta Web server, or your Contenta application server. See *XML Professional Publisher Installation and Upgrade Guide*.
2. On the XPP server, install XPP RESTful Web Services.  
See *XPP RESTful Web Services Installation and Release Notes Chapter 1: Installing XPPRESTful Web Services*.
3. On the XPP server, do the following.
  - a. In XyAdmin, click **File > Graphics Configuration**.
  - b. Add a rule.
  - c. In the Library Name field, type a name for your graphics library. This name must match the `xppImageLibrary` setting in `PublishConfiguration.xml`, located in the `web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory on the Contenta Web server, which is set to `graphics` by default.
  - d. In the Library Path field, type `../graphics` (or other name as needed to match your `xppImageLibrary` setting value)

**Note:** When publishing to XPP from Contenta S1000D, the XPP graphics library must be at the XPP job level because this library is dynamically created each time XPP Publish is run. Setting the Library Path to `../<XPP_graphics_library_name>` specifies a job-level graphics library.

- e. Optionally, in the Comment field, type `Job-level graphics library for S1000D XPP Publish`.
  - f. Store and exit the spec.
4. On the XPP server, do the following.
  - a. In XyAdmin, click **File > Document Paths**.
  - b. In the Handle text box, type the name of the handle where you want S1000D jobs and divisions to go.
  - c. In the Path text box, type the path to the directory where the handle, jobs, and division files will be stored.
  - d. Click **OK**.

Windows XPP servers have a default handle called `first` and Linux XPP servers have a default handle called `host-name1` (for example, `neptune1`). You may choose to use the

default handle to store your S1000D jobs. The handle name is case sensitive and must match the value specified for `xppHandle` in the `PublishConfiguration_Unix.xml` file, which is located in the `web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml` subdirectory of the `Contenta_home` directory on the Contenta Web server.

---

**Note:** If you create a new document root handle, you must stop and restart XPP RESTful Web Services to see the change when you publish.

---

5. Navigate to the `s1000d_samples/xpp/` subdirectory of the `Contenta_home` directory on the Contenta Web server.

In the following steps, you will copy zip files from this directory to various locations in the `XPP_home` directory on your XPP server and extract their contents.

---

**Important:** If your XPP server runs on Linux, ensure that the files you extract in the following steps have read and write permissions.

---

6. Copy `s1kdXppCssStyles.zip` from the `Contenta/S1000d_samples/xpp/` directory on the Contenta Web server to the `sd_liz/` subdirectory of the `XPP_home` directory on the XPP server, and extract its contents to a directory named `Ls1kd_css`.

If you have custom XPP styles, contact RWS Customer Support for assistance on merging old and new styles in this release of Contenta S1000D.

7. Copy `s1kdXppCssJob.zip` from the `Contenta/S1000d_samples/xpp/` directory on the Contenta Web server to the `std_jobz/alljobz/` subdirectory of the `XPP_home` directory on the XPP server, and then extract its contents to a directory named `CLS_SAMPLEBIKECSS`.

This extracts the following sample XPP jobs: `CLS_SAMPLEBIKECSS/GRP_XYENT/JOB_00030-01`, `JOB_00040-01`, and `JOB_00041-01`.

8. Copy the appropriate file for your XPP server from the `Contenta/S1000d_samples/xpp` directory on the Contenta Web server to the `XPP_home` directory on the XPP server, and then extract its contents.

- For a Windows XPP server, copy and extract `s1000dXppXz.zip`.
- For a Linux XPP server, copy and extract `s1000dXppXz_Unix.zip`.

This extracts the `xz/procs/citi/pgcnt.pl` and `xz/xpprest/user/modifytoc.pl` files to existing directories, which already contain other files.

9. Linux only: Set permissions on the extracted `pgcnt.pl` and `modifytoc.pl` files to make them executable as well as read and write.
10. On the Contenta Web server, do the following.
  - a. Navigate to the `web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory.
  - b. Open `PublishConfiguration.xml` for editing.
  - c. Change the `xppHost` and `xppPort` settings to point to the XPP RESTful Web Services host and port (typically 2995 by default).
  - d. Edit the following line:

```
<property name="xppHandle" value="name of handle"/>
```

where *name of handle* is the name of the XPP handle where S1000D jobs and divisions will go. By default, the value is `first`. If XPP is installed on Windows, you will have a handle named `first` and do not need to modify this line if you want to use this handle. However, if XPP is installed on Linux, you must change `first` to another value.

- e. Edit the following line:

```
<property name="xppServerOS" value="XPP server operating system"/>
```

where *XPP server operating system* is `WINDOWS` or `UNIX`. If your XPP server is the same OS as your Contenta Web server, you do not need to edit this line.

11. If you are publishing multiple languages to XPP, do the following.
  - a. Obtain all fonts you will be using in various languages.
  - b. Use XPP Font Copy and Build FAST utilities to add these fonts to XPP.
  - c. Add the new FASTs to XPP Font Variant spec that is used when publishing from Contenta S1000D, `fv_sys`, located in the `Ls1kd_css` XPP style library if using CSS styles.

**Note:** The delivered styles use the Helvetica font family, which is Font Family 1 in `fv_sys`. If possible, add your new FASTs to Font Family 1, which can reference up to three FASTs: primary, secondary, and default. See the XPP documentation for more information.

## Resolving entities when publishing to XPP

If you do not have Internet access and use ISOEntities declarations, you will need to configure XPP to resolve character entities when publishing to XPP to create PDFs.

### Procedure

1. On the Contenta S1000D web server, extract the zip file, `s1kdXppCssStyles.zip`, located in `Contenta_home/S1000D_samples/xpp`.
2. On the XPP server, copy the `identity.xml` file, which was extracted from `s1kdXppCssStyles.zip` in the previous step, to the `XPP_home/sd_liz/Ls1kd_css` directory.

**Note:** The following steps are to be done on the XPP server.

3. Create a directory that contains local entities and an ISOEntities file for local entities. For example:

On Windows: `c:/ENTITIES/schemas/3.0/ent/xml`

On Unix: `/xz/ENTITIES/schemas/3.0/ent/xml`

4. Create a `catalog.xml` file if it does not exist, using the template file as a starting point. For example:

Copy `XPP_home/xz/sys/ml/catalog.tmpl` to `XPP_home/xz/sys/ml/catalog.xml`

5. Update the `catalog.xml` file with the path to the ISOEntities file. For example:

On Windows:

```
<?xml version="1.0" encoding="UTF-8"?>
<catalog prefer="public"
xmlns="urn:oasis:names:tc:entity:xmlns:xml:catalog">
  <public publicId="ISO 8879-1986//ENTITIES
ISO Character Entities 20030531//EN//XML" uri="file:///C:/ENTITIES/
schemas/3.0/ent/xml/ISOEntities"/>
</catalog>
```

On Unix:

```
<?xml version="1.0" encoding="UTF-8"?>
<catalog prefer="public"
xmlns="urn:oasis:names:tc:entity:xmlns:xml:catalog">
  <public publicId="ISO 8879-1986//ENTITIES ISO Character Entities
20030531//EN//XML"
uri="file:///xz/ENTITIES/schemas/3.0/ent/xml/ISOEntities"/>
</catalog>
```

## Configuring an existing XPP installation to publish PDFs

This task includes instructions for those who have previously installed and used XPP and who plan to publish PDFs from Contenta S1000D for the first time. This task covers how to configure your environment as required to publish PDFs from Contenta S1000D.

### Before you begin

---

**Important:** We recommend that you upgrade XPP and XPP RESTful Web Services on a server before you install Contenta S1000D on a Contenta application server, Contenta Web server, or Contenta clients.

---

### About this task

#### Note:

- Formulate your upgrade plan before you perform these procedures. If you are unsure about your particular upgrade plan, contact RWS Professional Services.

- These instructions refer to the Contenta Web server and the XPP server. Contenta Web server and XPP server software may be installed on the same computer or on different computers. If they are installed on the same computer, perform the instructions on that computer in the directories indicated in the step.

## Procedure

1. Do one of the following:
  - If you want to migrate XPP from your Contenta Web server to a different server, see “Migrating XPP to another server” on page 68 and then return to this topic at step 2.
  - If you choose to leave XPP installed on your Contenta Web server, install the new license file.
2. On the XPP server, install XPP RESTful Web Services.  
See *XPP RESTful Web Services Installation and Release Notes Chapter 1: Installing XPP RESTful Web Services*.
3. On the XPP server, back up your existing `std_jobz/ alljobz/` subdirectory of your `XPP_home` directory.
4. On the XPP Server, back up your existing `XPP_home` directory.
5. On the XPP server, do the following:
  - a. In XyAdmin, click **File > Document Paths**.
  - b. In the Handle text box, type the name of the handle where you want S1000D jobs and divisions to go.
  - c. In the Path text box, type the path to where the handle, jobs, and division files will be stored.
  - d. Click **OK**.

Windows XPP servers have a default handle called `first` and Linux XPP servers have a default handle called `host-name1`, for example, `neptune1`. You may choose to use these handles to store your S1000D jobs. The handle name is case sensitive and must match the value specified for `xppHandle` in the `PublishConfiguration_Unix.xml` file, which is located in the `web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory on the Contenta Web server.

**Note:** If you create a new document root handle, you must stop and restart XPP RESTful Web Services to see the change when you publish.

6. On the XPP server, do the following:
  - a. In XyAdmin, click **File > Graphics Configuration**.
  - b. Add a rule.
  - c. In the Library Name field, type a name for your graphics library. This name must match the `xppImageLibrary` setting in the `PublishConfiguration.xml`, located in the `/web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory on the Contenta Web server, which is set to `graphics` by default.

- d. In the Library Path field, type `../graphics` (or other name as needed to match your `xppImageLibrary` setting value)

---

**Note:** When publishing to XPP from Contenta S1000D, the XPP graphics library must be at the XPP job level because this library is dynamically created each time XPP Publish is run. Setting the Library Path to `../<XPP_graphics_library_name>` specifies a job-level library.

---

- e. Optionally, in the Comment field, type `Job-level graphics library for S1000D XPP Publish.`
- f. Store and exit the spec.
7. Copy the appropriate file for your XPP server from the `Contenta/S1000D_samples/xpp` directory on the Contenta Web server to the `XPP_home` directory on the XPP server, and then extract its contents.
  - For a Windows XPP server, copy and extract `s1000dXppXz.zip`.
  - For a Linux XPP server, copy and extract `s1000dXppXz_Unix.zip`.

This extracts the `xz/procs/citi/pgcnt.pl` and `xz/xpprest/user/modifytoc.pl` files to existing directories, which already contain other files.
8. Linux only: Set permissions on the extracted `pgcnt.pl` and `modifytoc.pl` files to make them executable as well as read and write.
9. On the Contenta Web server, make sure the `xppImageLibrary` setting in `PublishConfiguration.xml`, located in the `/web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory, matches the graphics library name in XyAdmin on the XPP server.
10. If you are publishing multiple languages to XPP, do the following.
  - a. Obtain all fonts you will be using in various languages.
  - b. Use XPP Font Copy and Build FAST utilities to add these fonts to XPP.
  - c. Add the new FASTs to XPP Font Variant spec that is used when publishing from Contenta S1000D, `fv_sys`, located in the `Ls1kd_css` XPP style library if using CSS styles.

---

**Note:** The delivered styles use the Helvetica font family, which is Font Family 1 in `fv_sys`. If possible, add your new FASTs to Font Family 1, which can reference up to three FASTs: primary, secondary, and default. See the XPP documentation for more information.

---

11. On the Contenta Web server, do the following:
  - a. Navigate to the `web/cw_common/custom/S1000D_Publish/` subdirectory of the `Contenta_home` directory.
  - b. Open `PublishConfiguration.xml` for editing.
  - c. Change the `xppHost` and `xppPort` settings to point to the XPP RESTful Web Services host and port.
  - d. Edit the following line:



```
<property name="xppHandle" value="name of handle"/>
```

where *name of handle* is the name of the XPP handle where S1000D jobs and divisions will go. By default, the value is `first`. If XPP is installed on Windows, you will have a handle named `first` and do not need to modify this line if you want to use this handle. However, if XPP is installed on Linux, you must change `first` to another value.

- e. Edit the following line:

```
<property name="xppServerOS" value="XPP server operating system"/>
```

where *XPP server operating system* is `WINDOWS` or `UNIX`. If your XPP server is the same OS as your Contenta Web server, you do not need to edit this line.

## Switching to CSS for publishing to XPP for PDF output

If you previously published content from Contenta S1000D to XPP using XPP proprietary styles for PDF output, configuration is required to begin using Cascading Style Sheets (CSS).

### About this task

When Contenta S1000D is installed, it is configured to use CSS to format content when publishing to XPP for PDF output. Upgrading customers who previously used XPP proprietary styles must perform the following configuration steps to enable use of CSS.

---

**Important:** Upgrading customers who want to continue using XPP proprietary styles must add the *xppStyleType* configuration item to their publication configuration files, setting its value to `proprietary`.

---

### Procedure

1. Navigate to the `s1000d_samples/xpp/` subdirectory of the Contenta home directory on the Contenta Web server.  
In the following steps 2 and 3, you will copy zip files from this directory to various locations on your XPP server.
2. Copy `s1kdXppCssStyles.zip` from the Contenta Web server to the `sd_liz` subdirectory of the XPP home directory on the XPP server, and then extract its contents to a directory named `ls1kd_css`. If your XPP server runs on Linux, ensure that the files you extract have read and write permissions.

---

**Note:** If you have custom XPP styles, contact RWS Customer Support for assistance with merging old and new styles in the latest release of Contenta S1000D.

---

3. Copy `s1kdXppCssJob.zip` from the Contenta Web server to the `std_jobz/alljobz`

subdirectory of the XPP home directory on the XPP server, and then extract its contents to a directory named `CLS_SAMPLEBIKECSS`. If your XPP server runs on Linux, ensure that the files you extract have read and write permissions.

This extracts three sample XPP jobs: `CLS_SAMPLEBIKECSS/GRP_XYENT/JOB_00030-01`, `JOB_00040-01`, and `JOB_00041-01`.

4. Merge the `PublishConfiguration.xml` file delivered to the `Contenta_home/distr` directory on the CW server with your existing publication configuration files. Be sure to include the `xppStyleType` configuration item with its value set to the default, `CSS`.
5. If your XPP style library was named `s1000a` ensure the value of the `xppStyleLibrary` configuration item is set to the default, `s1kd_css`.

---

**Note:** If you use a custom XPP style library or custom XPP style bundles, contact RWS Customer support for assistance.

---

6. If your XPP style bundle for S1000D issue 3.0 was named `s1000a30`, ensure the value of the `xppStyleBundle30` configuration item is set to the default value of `s1kd31et` to publish to 8.5 x 11 pages, or change it to `s1kd3a4` to publish to A4 pages.
7. If your XPP style bundle for S1000D Issues 4.0, 4.1, 4.2, and 5.0 was named `s1000a40`, ensure the value of the `xppStyleBundle40` configuration item is set to the default value of `s1kd41et` to publish to 8.5 x 11 pages, or change it to `s1kd4a4` to publish to A4 pages.
8. To publish SAMPLEBIKE data using CSS styles to the new `SAMPLEBIKECSS` XPP job (rather than overwriting the existing `SAMPLEBIKE` XPP job):
  - a. Navigate to the `Contenta_home/S1000D_samples/publish_samples/sample_data` directory on your Contenta Web server.  
You will see a new PM file in each subdirectory, named `PMC-SAMPLEBIKECSS- . . .`
  - b. Run S1000D Upload Content to upload the new `SAMPLEBIKECSS` PMs into your Contenta S1000D database.
  - c. Run S1000D Publish and select the new PMs to publish the SAMPLEBIKE data to a new, CSS-specific location on the XPP server.

## Migrating XPP to another server

This task describes how you can migrate XPP from your Contenta Web server.

### About this task

Perform this task if you currently have XPP installed on your Contenta Web server but want to migrate it to your Contenta application server or a completely separate XPP server.

## Procedure

1. Obtain new license files for the Contenta Web server and the new XPP server, with the XPP-related license tokens removed from the Contenta Web server license file, and added to the new XPP server license file.
2. On the new XPP server, install XPP.  
See *XML Professional Publisher Installation and Upgrade Guide*.
3. Copy customized files from your old XPP installation to the appropriate location on new XPP server.
  - `xz/perl`
  - `xz/sys/ml`
  - `xz/sys/od/ps_dlf/tables`
  - `xz/sys/od/ps_dlf/encodings`
  - `xz/sys/config`
  - `xz/psres` (if you've added fonts)

For the most part, these files are independent of XPP version and platform. However, consult with RWS Customer Support for advice before you overwrite any files.
4. Copy `<XPP_home>/sd_liz/*` to new server.
5. Copy `<XPP_home>/alljobz/*` to new server.
6. Uninstall the XPP software, and remove style libraries and jobs from the Contenta Web server.
7. See “Configuring an existing XPP installation to publish PDFs ” on page 64 beginning at step 2, to complete XPP configuration.



# 4

## **Troubleshooting Contenta S1000D Installations and Upgrades**

Solutions to some issues you may encounter when installing or upgrading Contenta S1000D.

Problem	Solution
I need to check the installation/upgrade logs for any warnings or errors.	<p>Contenta S1000D install/upgrade log files are named:</p> <p><code>ContentaS1000D_InstallLog_YYMMDD.log</code>  On Windows, these log files are located in:  <code>Contenta_home/logs</code></p> <p>On Unix, these log files are located in:  <code>/pdm/logs</code></p>
I received an error when I ran the database upgrade program on my database.	<p>The following error occurs when you do not specify the SID in the command line to run the database upgrade tool.</p> <p>ERROR: ORA-12154: TNS:could not resolve the connect identifier specified</p>
When installing, I got an error about not enough room to install.	<p>On Windows, you may get this error message:</p> <p>Not enough room for a complete install.</p> <p>On Unix, you may get this error message:</p> <p>WARNING: /tmp does not have enough disk space! Attempting to use / for install base and tmp dir.</p> <p>The installer requires about 1GB free in a temporary directory to write files to while installing.</p>
I need to start over with a new S1000D database.	<p>The base S1000D database (<code>s1000d.dmp</code>), which has all Contenta S1000D objects and populated Data Module template objects (one set for each of the S1000D Issues, 2.3, 3.0, 4.0, 4.1, 4.2, and 5.0), on Contenta servers and clients is located at:</p> <ul style="list-style-type: none"> <li>• <code>Contenta_home/S1000D_samples/databases/Contenta56_Oracle11g_database</code></li> <li>• <code>Contenta_home/S1000D_samples/databases/Contenta56_Oracle12c_database</code></li> </ul> <p>See "Creating a Contenta S1000D database" on page 13.</p>

Problem	Solution
Do I need to perform any Contenta S1000D-related regular system maintenance?	RWS recommends that the ResetLinkendSequence.pl script be scheduled and run quarterly in verify mode to check the current sequence number and determine if that number needs to be reset. Refer to the <i>Database Maintenance Commands</i> in the <i>Contenta Administration</i> section of this documentation.





# 5

## Uninstalling Contenta S1000D

How to uninstall Contenta S1000D from a server or a client computer.

### About this task

Perform this task on any computer where Contenta S1000D is installed ( Contenta Explorer, Contenta Server, Contenta Web). If both Contenta Server and Contenta Web are installed on the same computer, you only need to perform this task once.

### Procedure

1. To uninstall from a Unix server, do the following:
  - a. Log in as root.
  - b. If you are running the installation from a remote system, set the display: `setenv DISPLAY name or IP address of remote system:0`
  - c. In the `Contenta_home` directory, type `./ Uninstall_ContentaS1000D` then press **Enter**.

---

**Note:** The Contenta S1000D uninstaller on Unix removes the `/pdm` link. To use Contenta Web you must recreate the `/pdm` link.

---

2. To uninstall from a Windows server, do the following:
  - a. Log in with administrator privileges.
  - b. In the Control Panel, in Add or Remove Programs, select **Contenta S1000D**, and then select **Change/Remove**.
  - c. In the Uninstall Contenta S1000D panel, select **Next**.
  - d. When the uninstall is complete, select **Finish**.



# Acknowledgments

Contenta S1000D includes open source or similar third-party software.

### [Adobe FrameMaker](#)

Adobe FrameMaker is an XML editor for structured authoring.

### [Apache Commons Codec](#)

Apache Commons Codec (TM) software provides implementations of common encoders and decoders such as Base64, Hex, Phonetic and URLs.

### [Apache Commons FileUpload](#)

The Commons **FileUpload** package makes it easy to add robust, high-performance, file upload capability to your servlets and web applications.

### [Apache Commons Logging](#)

The Logging package is an ultra-thin bridge between different logging implementations. A library that uses the commons-logging API can be used with any logging implementation at runtime. Commons-logging comes with support for a number of popular logging implementations, and writing adapters for others is a reasonably simple task.

### [Apache HTTP Server](#)

Apache HTTP Server is an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

### [Apache Log4j](#)

Apache Log4j 2 is an upgrade to Log4j that provides significant improvements over its predecessor, Log4j 1.x, and provides many of the improvements available in Logback while fixing some inherent problems in Logback's architecture.

### [Apache Lucene, SOLR](#)

The Apache Lucene™ project develops open-source search software.

### [Arbortext](#)

PTC Arbortext is an XML editor for structured authoring.

### [DWR \(Direct Web Remoting\)](#)

DWR is a Java library that enables Java on the server and JavaScript in a browser to interact and call each other as simply as possible.

### [ICU \(International Components for Unicode\)](#)

ICU is a mature, widely used set of C/C++ and Java libraries providing Unicode and Globalization support for software applications. ICU is widely portable and gives applications the same results on all platforms and between C/C++ and Java software.

### [InstallAnywhere](#)

InstallAnywhere is the leading multi-platform development solution for application producers who need to deliver a professional and consistent cross installation experience for physical, virtual and cloud environments. From a single project file and build environment, InstallAnywhere creates reliable installations for on-premises platforms - Windows, Linux, Apple OS X, Solaris, AIX , HP-UX, and IBM iSeries - and enables you to take existing and new software products to a virtual and cloud infrastructure.

**InstallShield**

Flexera InstallShield delivers a seamless user install, allowing you to develop MSI and EXE installers, and create Windows Server App and MSIX packages with minimal scripting, coding and rework.

**jacORB**

The free Java implementation of the OMG's CORBA standard.

**JDOM**

JDOM's mission: to provide a complete, Java-based solution for accessing, manipulating, and outputting XML data from Java code.

**jQuery**

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

**jQuery Splitter**

A splitter plugin for jQuery.

**jQuery UI**

jQuery UI is a set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library.

**jQuery.jstree**

jsTree is a jquery plugin, that provides interactive trees. jsTree is easily extendable, themable and configurable, it supports HTML & JSON data sources, AJAX & async callback loading.

**JustSystems XMetaL**

JustSystems XMetaL is an XML editor for structured authoring.

**LDAP C SDK**

The C LDAP Application Program Interface Internet Draft defines a set of API functions that you can use to build LDAP-enabled clients. The functionality implemented in this SDK closely follows the interfaces outlined in the Internet Draft, which should become an RFC someday. Using the functionality provided with this SDK, you can enable your clients to connect to LDAPv3-compliant servers and perform standard LDAP functions.

**Microsoft Internet Explorer**

Microsoft Internet Explorer is a series of graphical web browsers developed by Microsoft and included in the Microsoft Windows line of operating systems, starting in 1995.

**Microsoft SQL Server**

Microsoft SQL Server is a SQL-based relational database management system designed for use in corporate applications, both on premises and in the cloud.

**Visual C++ 2017 Redistributable**

These are packages which install run-time components required to run C++ applications built in Visual Studio.

### [Microsoft Visual Studio \(C++\)](#)

Microsoft Visual Studio is a fully featured IDE for Android, iOS, Windows, web, and cloud

### [Omnimark](#)

OmniMark allows developers to build efficient content conversion pipelines that support the rapid insertion of multiple content filter elements without loss of processing speed.

### [OpenSSL](#)

OpenSSL is an open source project that provides a robust, commercial-grade, and full-featured toolkit for the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols. It is also a general-purpose cryptography library.

### [Oracle DB](#)

Oracle Database is a multi-model database management system produced and marketed by Oracle Corporation.

### [Oracle Java](#)

Java offers developers a contemporary language and platform to create the next generation of rich, scalable, and secure enterprise applications.

### [Red Hat Linux](#)

Red Hat Enterprise Linux OpenStack Platform delivers an integrated foundation to create, deploy, and scale a secure and reliable public or private OpenStack cloud. Red Hat Enterprise Linux OpenStack Platform combines the world's leading enterprise Linux and the fastest-growing cloud infrastructure platform to give you the agility to scale and quickly meet customer demands without compromising on availability, security, or performance.

### [Reprise License Manager](#)

The Reprise License Manager (RLM) is a flexible and easy-to-use license manager with the power to serve enterprise users, and it comes to you from the creators of FLEXlm.

### [Stingray Studio](#)

Stingray Studio provides tools for developing complex GUI applications that are easy to build, maintain, and evolve as new technologies improve the look and feel of user interfaces.

### [Strawberry Perl](#)

Strawberry Perl is a perl environment for MS Windows containing all you need to run and develop perl applications. It is designed to be as close as possible to perl environment on UNIX systems.

### [Syncro Soft Oxygen XML Author](#)

XML editor for structured authoring.

### [Windows](#)

**Microsoft Windows** is a group of several graphical operating system families, all of which are developed, marketed, and sold by Microsoft.

### [Xalan-Java](#)

Xalan-Java is an XSLT processor for transforming XML documents into HTML, text, or other XML document types. It implements XSL Transformations (XSLT) Version 1.0 and XML Path Language (XPath) Version 1.0 and can be used from the command line, in an applet or a servlet, or as a module in other program.

---

**Xerces-C++**

Xerces-C++ is a validating XML parser written in a portable subset of C++.

**Xerces Java Parser**

The Xerces Java Parser 1.4.4 supports the XML 1.0 recommendation and contains advanced parser functionality, such as support for the W3C's XML Schema recommendation version 1.0, DOM Level 2 version 1.0, and SAX Version 2, in addition to supporting the industry-standard DOM Level 1 and SAX version 1 APIs.

