



Astoria 4.7.1 Release Notes

This document contains late-breaking information for Astoria 4.7.1, including enhancements, fixes, and any associated cautions, limitations, and clarifications. Please read this document before running Astoria 4.7.1.

New Features

Astoria 4.7.1 includes the following enhancements:

- **XMetaL Support:** The XMetaL Bridge to Astoria now supports XMetaL Author 5.0.
- **Upgrade to JRE 1.5.0_10:** The latest Java Runtime Environment addresses the Daylight Savings Time change.
- **Upgrade to ObjectStore 6.3, Cumulative Patch 12:** This release of Astoria is redesigned to take advantage of the latest release of ObjectStore.

Previously, the Astoria 4.7 version included the following enhancements:

- **Referential Integrity for ID/IDREF connections:** Importing IDREFs will automatically import the IDs being referenced. Furthermore, it will preserve the connection between those objects across moves. IDs will display as children of IDREFs in the Navigator, ACS browser, and Workbench. Plus, they will appear on operations such as Show Valid Ancestries and Show Where Used. The only caveat is that Editions do not maintain these connections.
- **DITA Support:** Support for DITA document import, edit and export is provided through the Astoria Communications Server (ACS) based applications. DITA document import, edit and export is not supported with the Astoria CMS client-based XML editor bridges or applications.
- **Access Controls Improvements:** A new privilege, All, may be set on an object to permit all appropriate capabilities for that object. In addition, the Export privilege has been deprecated in favor of the View Container privilege, for simplicity and ease of use. Additional privileges have been added so that users can be authorized to perform certain operations which formerly required that they be administrators.
- **Search Upgrade and Consistency Improvements:** Includes improvements in incremental search consistency and overall performance with indexing.
- **ACS Support:** This release includes support for Astoria Communication Server, version 24.
- **SGML/XML Bridge Support:** Bridges to Astoria are upgraded to support the current vendor.

version of the SGML/XML editing tools. Includes support for Blast Radius XMetaL 4.6 SP2, Arbortext 5.2, Adobe FrameMaker 7.2.

- **Upgrade to ObjectStore 6.3, Service Pack 2:** This release of Astoria is redesigned to take advantage of the latest release of ObjectStore.
- **Updated Astoria SDK:** New methods and modified existing methods are detailed in SDK Help. For details on Astoria 4.7.1 SDK improvements, please see the Astoria 4.7.1 Overview topic in the Astoria SDK Help.
- **Customer Patch Incorporation:** This release incorporates all software patches included in all previous Astoria 4.x releases.

Previous versions of Astoria 4.x included the following enhancements:

- **WordML Support:** Changes to support Microsoft Word 2003 document collaboration.
- **Introduction of Roles:** Enables much more flexibility and simplicity in assigning access controls, by grouping multiple capabilities into a single role. Please see the Astoria SDK Help for more information.
- **Improved Access Controls:** Allows the notion of database-wide "backstops" used for determining access controls. Please see the Astoria SDK Help for more information.
- **Search Upgrade and Consistency Improvements:** Astoria supports Verity's VDK 5.5.0 software, which includes improvements in incremental search consistency and performance.
- **Improved Graphics Handling:** Where Used and What Used operations have been enhanced to recognize structured documents with linked graphics.
- **Improved Scalability:** Performance and scalability improvements allow for better handling of cabinets containing large numbers of custom attributes.
- **Enhanced Searching:** Search capabilities allow for better support of international characters as well as support of additional languages.
- **Filtered Access to Cabinets/Folders:** Child Folder items are now filtered based on access to the View Container Contents privilege of each Folder item. Previously, if you had access to the parent folder, you could view all its contents; however, now, any child Folder items will not be displayed unless you have the proper access.
- **Index Control:** New control over indexing enables hierarchical control when searching content, elements and attributes. This means that the entire database, or individual cabinets, folders, or documents can be independently set to be searchable or not searchable.
- **Searching for Folders:** New search types enable searching for folders, by name or description.
- **Improved Version Pruning:** New version pruning capability enables particular versions of files to be set as not prunable, even though the document may allow version pruning.
- **Improved Graphic Linking:** New fine-grained control over graphic linking is provided via a new XDGraphicLinks custom attribute. This allows much more flexibility than the previous method involving the GraphicLink INI entry, which should no longer be used.
- **Date Properties:** Astoria now allows events and other objects to have date properties.
- **Win2003 Server Support:** Astoria 4.2 Server is now supported on Win2003 Server.

- **Parameterized Searching:** New search functionality enables Astoria authors to edit a search object, and specify that one or more search fields may be substituted at run-time. Default values may be specified. Later, a user would execute the search, passing in the actual values to be substituted. Parameterized terms are visually distinguishable from normal terms in the search term display window by being enclosed in angle brackets.
- **New Search Operators:** The Search Tool UI has changed to allow searching for Ancestors and Parents. “IN” and “OF” operators have been replaced by the following 4 operators: “Child Of”, “Descendent Of”, “Ancestor Of”, and “Parent Of”.
- **Refined Search Scope:** Search scope can now be set at the folder level as well as the cabinet level.
- **Unicode Searching:** Unicode document content searching is now supported for all structured docs and UTF-8 unstructured docs.
- **Version Pruning:** A new VersionPruningPolicy dialog and Navigator menu command enable users to manage the pruning of old versions of documents from the repository. This is critical as databases store larger documents in larger quantities. Note that Pruning will not shrink the database file; it will free up allocated areas of the database so it can be reused. Usage of Serialize/Deserialize remains the recommended method to shrink the database.
- **Navigator Session Handler Improvements:** The Navigator will now optionally create two sessions: one for read operations and another for write operations. This will reduce contention between the Navigator and other write-intensive processes.
- **Server Side Monitors:** A new Event Queue mechanism is available through the Astoria API. This new queuing process will facilitate centralized tracking of database updates. Centralized monitor handling will be useful for Astoria applications developed by Professional Services and Partners. Astoria Event Queues can handle various tasks such as the following:
 - Publishing -- ToC, Index Generation, PDF rendition, distribution
 - Spawned tasks -- LiveSite publish/preview, Virtual document assembly, etc.
 - Custom tasks -- Developed using the API
 - Graphics conversion

Please see the Astoria SDK documentation for more details on using these monitors.
- **Annotation Enhancements:** Astoria 4.1 provides a new approach to annotations which model the approach used by Custom Attributes. The old method was based on encoding data in the form of hidden custom attributes and lacked flexibility and functionality. The new approach makes use of a new Annotation Definition. Each Definition, defined in the Admin Database, has a name, description, and an associated list of annotation fields. In addition, a new Annotation instance is defined. Each Annotation instance references the Definition from which it was created, the user who created it, and the time it was created.

Please see the Astoria SDK documentation for more details on using annotations.
- **Custom Attributes/Annotations Enhancements:** The same Custom Attribute or Annotation can now be attached to the same object multiple times.
- **Automatic ObjectStore Client Cache:** The Astoria Client Installer now automatically determines the optimum value for the OS_CACHE_SIZE variable based on the RAM available on the PC. For a PC with less than 512 MB of RAM the value is set at 32 MB; for 512 MB of

RAM or more the value is set at 64 MB. Increasing the ObjectStore Cache Size improves performance for document import, a document check-in, and other features.

- **Automatic ObjectStore Space Allocation:** Optional automated control over the placement and actual size of the memory reserved for ObjectStore operations is provided. Configuration file settings enable specification of a region of address space in which to allocate between a minimum and a desired amount of space. The software will search within the allowed area for an adequate space.
- **Cabinet Migration Support:** The Deserialize operation now enables a database administrator to move an Astoria cabinet to another directory on the same Astoria server or another Astoria server supporting the Docubase.
- **FLEXIm Removal:** FLEXIm has been replaced by Astoria Software's own licensing.
- **Bridge Licensing:** Bridges to Astoria no longer require passwords and unpacking procedures. Bridges are separately licensed and included as part of Astoria client installation.
- **Irregular Plurals in Search:** Search can now locate irregular plurals such as mice as the plural of mouse.
- **Version Description and Replace Switches:** Optional version description (-V) and replace switches (-R) can be used with the IMPORT FILE command in Automator.
- **Command Line Serialize Tool:** Ability to serialize/deserialize on Solaris with the command line serialize tool (in `/opt/astoria/bin/xdcssrlz` on a Solaris client).
- **Cabinet Cleanup:** Users can clean up a single cabinet rather than the entire database.
- **New User Privileges for Group Insertion:** Users can insert and remove themselves from groups with the Insert Self into Group and Remove Self from Group privileges.
- **New User Privileges for Custom Attribute Definitions:** Users can control custom attribute definitions with Change Custom Attribute Instances and Change Custom Attribute Instance Value. For example, a site might wish to define a group of users that can set a site-specific custom attribute such as "Document Status", but those users should not be authorized to change other custom attributes. On the Document Status custom attribute definition, an administrator could set the Change Custom Attribute Instances capability group to include these users.
- **Case-Independent User Authentication:** New `astoria.ini` file option allows Astoria user authentication independent of case. The `UserCaseSensitivity=1` setting is in the [Database] section of the `astoria.ini` file. The default is 0 which ignores the case.
- **Show History on Locking Units:** The Show History menu item now allows you to view the complete history stored with a locking unit.
- **Parallel Cabinet Searching:** Cabinets on different Astoria servers are searched concurrently, improving search performance. Parallel cabinet searching is most useful when cabinets are spread across multiple Astoria servers.

Release Notes

The following sections contain important notes and cautions concerning this release.

Automator

- Automator statistics may vary slightly for text character, total byte, element, and attribute counts.

Database Administration

- When you create a database using the User Administration tool, XML case-sensitivity is now enabled by default. To prevent SGML parsing errors, your SGML documents and DTDs must contain the following SGML declaration:

NAMECASE GENERAL NO

- If your database will contain SGML documents only and will not contain XML documents, you must ensure that your **astoria.ini** file contains the following setting when the database is created using the User Administration tool:

**[Database]
InitialCaseSensitivity=0**

DITA

- Support for DITA document import, edit and export is provided through the Astoria Communications Server (ACS) based applications. DITA document import, edit and export is not supported with the Astoria CMS Client-based XML editor bridges or applications.

Editors

- Each time you copy components between windows, new elements are created. Accordingly, if you copy a component that contains graphics between windows, you must re-declare an entity to not use a graphic's temporary location. To do this, use Create Entity Object in the target document.
- Invalid caret position error when doing a Show History after paste reusable. This happens because the Show commands do not recognize an object until it gets saved back to the repository.
- When reusing a CDATA or RCDATA element, it is not shared. There will be no "S" placed in Navigator's shared column. If you select the reused CDATA object in Navigator, then select Show Structured Documents from the Object menu, you will find only the current document.
- If you reuse an element within the same locking unit, edits should only be made to the last occurrence of the element or edits will be lost. Consider reusing elements only across locking units.
- You cannot Paste Reusable Object if the object has no ancestry.
- If you want to add a tag as a locking unit (that is not identified as being at a locking unit level), you must first create the tag and an associated file entity before you save to the repository. If you create the tag, then save to the repository before creating a file entity, the tag will be inserted, but not as a locking unit.
- The FrameMaker Bridge uses an element attribute named ASTORIA and the XMetaL

Bridge uses an element attribute named Z. If either of these attributes are declared in the DTD, an error will occur during checkin.

Event Queues

- With new databases, you can create event queues for the first time, such as a pruning event by running **xdverpru.bat**. However, these new event queues don't get recognized by existing open applications. Such applications must be restarted to acknowledge the newly created queues.

Installation

- Astoria 4.4 or later customers may upgrade directly to this current release of Astoria. If you have any other version installed, you must first upgrade to 4.4 before upgrading to the current release.
- After the current release of Astoria is installed on the server and you have upgraded the database using the Clean Up Database function, the database seal is updated. If an earlier version Astoria client attempts to open the database, you will receive a message saying that the database is corrupt. Your database is not corrupt -- you simply must open the database with the current released version of the Astoria client.
- If you attempt to upgrade/reinstall Astoria with the Services applet open, you will receive a "Can't add service" error. You must first close the Services applet window before installing.
- If the MaintainCharRefs entry in the [SGML Import] section of the **astoria.ini** file is set to 0, installation will comment out this entry. Please see the *Astoria Installation, Configuration, and Administration Guide (astorica.pdf)* for details on this entry.
- If you use the **xdcssrlz** command to deserialize your database during upgrade, you may get a Deserialize Completed message before the process has completed. To ensure that deserialization completes successfully, check the deserialize log and make sure that it says "Comment: Finish Deserialization - SUCCESS" at the end of the log.
- If install freezes or if uninstall fails due to problems uncompressing files, delete the following obsolete directories and retry the operation: **c:\windows\temp_ISTMP##.dir**.

Licensing

- Administrators must not edit **license.dat** in the bin directory. If it's necessary to update this file, Astoria Support will inform you of the proper steps.

Navigator

- Astoria only supports XML documents encoded in and explicitly declared as ISO-8859-1 (Latin 1). Please see the *Astoria Installation, Configuration, and Administration Guide (astorica.pdf)*, in the Tips section, for details on how to configure Astoria to work with UTF-8/UTF-16 encoded documents.

SDK

- If an edition is made specifying a time other than 0, the DTD in the edition will not have a root element designated. This is visible in API applications.
- Astoria does not support http:// system IDs.

Search

- If you create an edition and then delete the original source document, you will not be able to search for the edition by Doc Name.
- If you are searching for a string that includes the content ", or" or the content ", and", surround the entire string in quotes. For example, if you search for the string medical, dental, or surgical procedures, you will receive zero hits and the Astoria Server's xd_err.txt log will contain an error message. If you surround the string in quotes, or if you remove the comma from the string, your search will work properly.
- Do not mix the operators "is" and "is not" within the same criteria group. You may get unexpected results. Instead, restructure the search so the "is" and "is not" operators are in different criteria groups. For example, when searching for Structured Doc content contains baseball AND (Element name is Para OR Element name is not Title), additional elements are returned. The additional elements returned correspond to those whose descendants contain the word "baseball". Rearranging the search as (Structured Doc content contains baseball AND Element name is Para) OR (Structured Doc content contains baseball AND Element name is not Title) returns only the lowest-level elements that contain the word "baseball".
- If you see the message "The 'Search' service at 'C:\Astoria\Database' is not responding." then the search client was unable to contact the search daemon for that DB. Check the following: 1) Verify that the CMS server's **astoria\daemons.ini** entry has a [Databases] section with an entry for the database specified in the error message. If you have to add the entry manually, then restart Astoria Task Server to make the changes take effect. 2) View the astoria\logs\astserver*.log files for descriptive error messages. 3) Ensure that there are no firewalls blocking the required ports.

SGML Import/Export

- Astoria only supports XML documents encoded in and explicitly declared as ISO-8859-1 (Latin 1). Please see the *Astoria Installation, Configuration, and Administration Guide* (**astorica.pdf**), in the Tips section, for details on how to configure Astoria to work with UTF-8/UTF-16 encoded documents.

SGML Parser

- Although a structured document without an SGML declaration may import successfully, export of the same structured document may produce errors. To prevent errors during export, change the astoria.ini file by increasing the value of the PLength entry in the [SGML Quantities] section or setting the ExportSGMLDecl entry in the [SGML Export] section to "0".

Viewer

- If your screen resolution is set to 1024 x 768 and you are viewing or printing a landscape-oriented page, some text might be clipped off the right side of the page.
- Viewer does not translate character entities.

Fixed Reported Problems

The following problems reported by users were incorporated in Astoria 4.7.1:

- DTD import fails when sub-elements differ only by case (CID# 5247)
- Version Name search property not documented (CID# 5319)
- Error in Astoria ICA - ossvxnt.log was renamed (CID# 5365)

The following problems reported by users were incorporated in Astoria 4.7:

- Case of database directory causes an error (CID# 4123)
- Undocumented Logfile settings should be described (CID# 4149)
- Javadoc needs to include XD_SGMLEditManager (CID# 4188)
- Inserting SVG graphics causes problems when saving with XMetaL Bridge (CID# 4204)
- Search Descendant of results are incomplete (CID# 4320)
- Received xd_err: 309 during "Check In" of a workunit (CID# 4344)
- No indexing on attribute change via XD_WorkUnit::Checkin (CID# 4395)
- Create edition and structural index (CID# 4404)
- EnableGraphicEntityPropogation should be improved (CID# 4411/4511)
- CMS services exit when database pathname contains spaces (CID# 4492)
- Running Automator commands during upgrade needs to be described (CID# 4492)
- Lucene syntax should support old functionality (CID# 4514)
- Stop words need to be documented for Search (CID# 4514)
- ObjectStore server crashes when Astoria Task Server is run on a client (CID# 4525)
- Need method to Convert UTF-8 Encoded CNode Data to ISO-8859-1 (CID# 4552)
- XD_Database::GetSystemObject should not be case-sensitive (CID# 4623)
- Linked graphics are exported into incorrect directory (CID# 4645)
- Arbortext bridge works incorrectly when "Remove Arbortext PIs on Save" is set (CID# 4818)
- Where Used doesn't appear in XMetaL Bridge (CID# 4969)

The following problems reported by users were incorporated in Astoria 4.6.x:

- Content indexing needs improvements for large, complex SGML/XML documents
- Save performance needs improvement in XMetaL Bridge
- User not notified when serialize fails
- Need more documentation for GetExtFileNameTableMap
- Search Tool significantly slower in 4.4
- Some searches result in error 422
- XD_ListNode::GetContent fails with an empty XD_CNode

The following problems reported by users were incorporated in previous Astoria 4.x releases:

- Import File displays an unwanted session cookie dialog during file uploads
- Create Edition sends an email to the user with a typo in the subject
- Search doesn't find hits depending on the scope
- What/Where Used disabled on existing documents
- Index queues not destroyed when copy/move database
- Mutexes fail under Windows Remote Desktops
- User rights for service not documented for upgrade
- Astoria menu disappears when selecting "Edit Selection as..." in Epic Bridge
- Frame Bridge does not check the default XML/SGML applications when opening docs
- Resulting XML instance does not contain XML declaration when using Frame Bridge
- Table-Footer problems with Frame Bridge
- Out Of Address Space when editing a document with many graphics
- User cannot delete an Edition they just created
- Astoria Server fails to start due to logon error
- Undocumented loss of XMetaL plain text view
- State of XD_Edition IsLocked not saved by serialize
- Automator incorrectly handles Date type custom attributes
- Automator switch -IR doesn't work properly
- XML parser does not always report missing children at import
- XML parser does not report errors in attribute name case change
- No error when opening a non-editable sxr in FrameMaker
- Searching on folder names is not supported
- Need a setup tool to configure ObjectStore
- Bad Astoria license file
- Problems with Astoria license server in conjunction with ObjectStore server
- Multiple entity declaration created at export
- Error when doing Show History on locking units

- Missing library file: xdentupd.lib
- Documentation needed for Astoria's use of TCP ports
- OS_SCHEMA_PATH is not set correctly on the server
- The server.ini file is not updated correctly with OS_SCHEMA_PATH location
- Core dumps occur on Solaris Server when running an Automator script on a Windows client
- Can't delete a user that has imported an object
- When saving changes to the names of elements, the histories of these elements in the database are replaced with new elements
- Stemmer does not find irregular plurals (e.g., mouse and mice)
- Some of the SDK sample apps are not listed in the SDK Help
- Uninstall removes the astoria.ini file
- Cannot launch an .sxr file to Epic Editor or FrameMaker if the sxr file is in a directory with a space
- Bad error message when "src" attribute of linked graphic has invalid path
- Multiple entity declarations created at export
- get_unique_entity is limited to 25 generated entities
- CustAttr Object map warnings should include Database name
- Extra spaces appear when exporting XML from Astoria
- Problems reusing objects containing external PUBLIC graphic
- Reused object containing external PUBLIC graphics loses PUBLIC identifier
- Declaration subset not automatically updated when reusing object containing text entities not declared in target document
- Custom Attribute Object map warnings should include database name
- Receive errors during client install with large server.ini file sections
- External reference created by an edit/save is different from the one created by Navigator
- Cannot add new linked graphics via edit import
- Graphic linking through element attributes incomplete
- Receive "NotCheckedOut" error reusing internal graphic in SGML document
- Crash when showing annotations on a folder item with a strange name
- Crash when handling special characters (quotes, etc.) for annotation field names and choice values in Advisor