



Contenta S1000D Release Notes

Contenta S1000D 5.11

December 2021

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New features and enhancements

This section describes new features, feature enhancements, and other changes introduced in each version of Contenta S1000D since Contenta S1000D 5.1.

Note: If you are upgrading from a release prior to Contenta S1000D 5.3 and you have content in the current `sample` directories, you need to move that content to a different location because the installer will remove the old `sample` structure, and then build a new structure.

What's new and changed in Contenta S1000D 5.11

This section describes new features, feature enhancements and other changes in the 5.11 release of Contenta S1000D.

New features and enhancements in Contenta S1000D 5.11

This section lists features and enhancements that were introduced in Contenta S1000D 5.11.

Publishing LiveContent S1000D Mobile-ready content

Contenta S1000D Publish has been enhanced to enable publishing content for display using the new LiveContent S1000D Mobile app for iPad or Android tablet. A new **Create Mobile Content** check box in the Contenta S1000D Publish UI allows you to include mobile-ready content in the output when publishing to LiveContent S1000D .

Note: The LiveContent S1000D Mobile solution requires a separate license token. For more information, contact RWS Support at <https://gateway.sdl.com> .

For more information about this enhancement, refer to the following topics in the Contenta S1000D documentation.

- *Publishing S1000D Content*
- *Publishing an IETP*

Security updates

This release of Contenta S1000D contains several security updates that address vulnerabilities identified during security testing. Resolving these vulnerabilities involved incorporating upgrades to several third-party components and their dependencies.

Refer to the Contenta S1000D Platform Requirements for specific information on currently supported platforms and OEM component versions delivered with Contenta S1000D 5.11.

Support for Microsoft Edge Chromium

This release of Contenta S1000D adds support for the Microsoft Edge Chromium browser.

Contenta S1000D rebranding

Text, logos, and graphics in the Contenta S1000D user interface and documentation have been updated to reflect RWS branding standards.

Contenta S1000D database upgrade changes There is no Contenta S1000D database upgrade for Contenta S1000D. Customers upgrading from Contenta S1000D 5.8 or earlier must run the Contenta S1000D 5.9 database upgrade program; see the 5.9 Release Notes for more information.

Platform changes in Contenta S1000D 5.11

Contenta S1000D 5.11 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.11

Software for which support was added in the Contenta S1000D 5.11 release.

Operating System

- Red Hat Enterprise Linux 8.1 or later (64-bit)

Database Servers/Clients

- Oracle 19c 64-bit server (Enterprise or Standard) and 64-bit client
- Microsoft SQL Server 2019 (64-bit) server and client

Web Server

- Tomcat 9.0.53 (64-bit) for Windows or Linux

Java

- Oracle JavaJRE 1.8_301 (64-bit) (deprecated)
- Oracle JDK 11.0.12 (64-bit)
- AdoptOpenJDK OpenJDK with Hotspot JRE 11.0.12 (64-bit)

Editor

- Arbortext Editor 8.1.x (64-bit)

Web Browsers

- Mozilla Firefox ESR 91.x (32- or 64-bit)
- Google Chrome 94 (32- or 64-bit)
- Microsoft Edge Chromium 94 (32- or 64-bit)

Miscellaneous

- Omnimark OEM 11.0.2 64-bit (Windows)
- Omnimark OEM 11.0.1 64-bit (Linux)

Deprecated items in Contenta S1000D 5.11

Software deprecated in the 5.11 release. If you use any of these components, upgrade to a supported version before upgrading to this version of Contenta S1000D.

Operating Systems

- Windows 2016 (64 bit) Server
- Red Hat Enterprise Linux 7.9 (64-bit)

Database Servers/Clients

- Oracle 18c 64-bit server (Enterprise or Standard) and 64-bit client

Editor

- Arbortext Editor 8.0.x (64-bit)

Items no longer supported in Contenta S1000D 5.11

Software no longer supported. If you use any of these components, upgrade to a supported version before upgrading to this version of Contenta S1000D.

Operating System

- Red Hat Enterprise Linux 6.x or later (64-bit)

Database Servers/Clients

- Oracle 12c 64-bit server(Enterprise or Standard) and 64-bit client
- Microsoft SQL Server 2016 SP2, 64-bit server and client

Web Server

- Tomcat 8.5.x (64-bit) for Windows or Linux

Java

- Oracle Java 1.8.x (32-bit)

Editor

- Arbortext Editor 7.1 M50 or higher (64-bit)

Web Browser

- Microsoft Internet Explorer 11

What's new and changed in Contenta S1000D 5.10

This section describes new features, feature enhancements and other changes in the 5.10 release of Contenta S1000D.

New features and enhancements in Contenta S1000D 5.10

This section lists features and enhancements that were introduced in Contenta S1000D 5.10.

Important: Before upgrading to Contenta S1000D 5.10, Contenta must be upgraded to version 5.8.1.

S1000D Issue 5.0 Support

Several Contenta S1000D tools have been enhanced to improve support for S1000D Issue 5.0.

- The following enhancements have been made to support the `infoNameVariant` element introduced in Issue 5.0.
 - Upload Content and Arbortext and Oxygen Check In tools populate or update the

Information Name Variant DM property field when uploading or checking in an Issue 5.0 DM that contains an `infoNameVariant` tag.

- A new **Information Name Variant** field has been added to CSV files. The sample CSV file for Issue 5.0, `DMRL-sample_S1000D_50.csv`, includes Information Name Variant examples.
- Upload Codes extracts and imports the Information Name Variant (when present) in a CSV or Issue 5.0 DMRL file.
- The Insert Reference editor plug-in includes `infoNameVariant` in `dmRef` markup if the referencing and referenced DMs are Issue 5.0 and the `infoNameVariant` element exists in the referenced DM.

Note: In Oxygen XML Author, **Title** must be selected on the **Tool panel** Reference tab for `infoNameVariant` to be included in the markup.

- The Clip Reference tool inserts the `infoNameVariant` (when present) into the code block for a 5.0 Data Module `dmRef`.
- Manage Programs inserts the Information Name Variant (when present) into the exported CSV or Issue 5.0 DMRL file.
- Manage DMRL contains an Information Name Variant column and displays that data when present. In addition, the export link in the Manage DMRL and Manage IRL user interfaces is now labeled **EXPORT CSV**.
- LiveContent Preview displays the `infoNameVariant` as part of the Data Module title in the Task tab (when displaying a 5.0 DM that includes an `infoNameVariant`).
- When publishing to LiveContent S1000D, S1000D Publish displays the `infoNameVariant` (if it exists) with the `infoName` wherever it appears if the user selects the `TechName` and `InfoName` OR `InfoName Only` option for **ToC Title Display**.
- Before publishing to XPP, updated XPP style files must be extracted from the delivered `s1kdXppCssStyles.zip` and copied to your XPP style library. Then, when publishing to XPP, S1000D Publish displays the `infoNameVariant` (if it exists) as part of the Data Module title in the Publication TOC, LOEDM, and 5.0 Data Modules.
- The following tools have been enhanced to support longer issue numbers introduced in Issue 5.0.
 - PM Builder allows 3-5 digit issue numbers in the **PM Properties** form.
 - Upload Codes allows 3-5 digit issue numbers in an Issue 5.0 DMRL's `identAndStatus-Section` and in `dmRefs` in the content section.
 - Manage Programs allows 3-5 digit issue numbers when validating the **Export DMRL** form for an Issue 5.0 DMRL, and inserts longer issue numbers into the Issue 5.0 DMRL XML file.
- The following tools have been enhanced to support the optional Control Authority Group section introduced in Issue 5.0.
 - PM Builder preserves the `controlAuthorityGroup` section in the `identAndStatus-Section` of Issue 5.0 Publication Modules. PM Builder detects `controlAuthorityRefs` attributes on `pmEntry`, `dmRef`, or `pmRef` tags in the content section of Issue 5.0 PMs and handles these as unsupported markup.

- Upload Codes detects the `controlAuthorityGroup` section in Issue 5.0 DMRLs and stores this XML markup in the CSDB.
- Manage Programs displays a new **Control Authority Group** field in the **Export DMRL** form, pre-populates this field with stored XML markup (when present), and inserts the `controlAuthorityGroup` section into the Issue 5.0 DMRL XML file.
- LiveContent Preview suppresses the `controlAuthorityGroup` section (the same handling as similar sections such as `dataRestrictions`) when displaying an Issue 5.0 Data Module.
- DDN Export displays a new **Control Authority Group** field where a user may enter optional `controlAuthorityGroup` XML markup. DDN Export inserts this markup (when present) into the Issue 5.0 DDN XML file.
- When publishing to XPP, S1000D Publish suppresses the `controlAuthorityGroup` section but resolves `controlAuthorityRefs` attributes on selected tags, displaying several types of controlled data, marked with a yellow flag note symbol per S1000D specification guidelines and examples. Updated XPP style files must be extracted from the delivered `s1kdXppCssStyles.zip` and copied to your XPP style library. Selected tags include `para`, `listItem`, `notePara`, `warningAndCautionPara`, `proceduralStep`, `isolationStep`, and `isolationProcedureEnd`. This work may be extended to additional tags as needed.
- Contenta S1000D Foundation Suite has been updated to create Issue 5.0 Data Modules.

For more information about these enhancements, refer to the following topics in the Contenta S1000D documentation.

- *Data Module Codes for S1000D issue 5.0 or higher*
- *Exporting a program's codes*
- *Preparing a CSV file to upload S1000D codes*
- *Inserting a reference to a data module*

Enhanced CGM support for Oxygen XML Author

Contenta S1000D now provides support for redlining, hotspotting, and enhanced display of CGM graphics in Oxygen XML Author. CGMs exported when a Data Module is checked out for hotspotting or redlining are temporarily converted to SVG format. This temporary conversion has no effect on the source graphic or checkout/checkin.

For more information about these enhancements, refer to *Exporting and displaying graphics when you check out a module* "" on page 0 in the Contenta S1000D documentation.

Enhanced CIR support

Contenta S1000D now supports reuse of the following CIR reference types in Arbortext Editor or Oxygen XML Author for S1000D Issue 4.1 or later.

- Access Point
- Caution (previously supported in Arbortext Editor only)
- Circuit Breaker

- Control Indicator
- Enterprise
- Functional Item
- NATO Stock Number

Note: `NatoStocknumber` is inserted with `partRef` and `supplyRef` elements if they exist in the CIR DM. Also, if the `ID` field (`partNumberValue` or `supplyNumber` attribute from the CIR specification) is missing from this CIR reference, the `natoItemIdentNumberCore` attribute is used as its ID.

- Part
- Supply
- Supply Requirement
- Tool
- Warning (previously supported in Arbortext Editor only)
- Zone

For Issue 4.1 and later, items can be inserted only from a CIR; inserting reusable components from a CSDB reusable component directory is no longer supported for these issues.

To help make locating reusable items stored in CIR DMs easier, the **Insert Reusable Component** tool allows you to enter a search string (consisting of plain text or an XSLT 3.x regular expression) to filter search results, displaying only CIRs whose content or attributes contain the specified value. You can customize the search criteria by CIR type by modifying the `ReusableComponentSearchConfig.xml` configuration file in the `Contenta_home\web\cw_common\custom\S1000D_config` directory on the Contenta Web server.

Important: You must merge the updated `ReusableComponentSearchConfig.xml` and `MatchTextInCir.xsl` files delivered to the `Contenta/distr` directory into your existing files to support this feature.

To customize inserted markup and display of search results by CIR type, contact RWS Professional Services.

For more information about these enhancements, refer to *Inserting items from a CIR or a CSDB reusable component directory* "" on page 0 in the Contenta S1000D documentation.

Contenta S1000D Publish enhancements

Contenta S1000D now supports filtering of available publish configuration files in the S1000D Publish UI. Adding a new, optional `PubConfigFiles` AppData setting (under the **{Global} > Settings > CaS_Publish** key) causes only specified publish configuration files to be displayed in the **Configurations** drop down. If this setting is not present, all available publish configuration files are displayed.

When publishing from Contenta S1000D to LiveContent S1000D, you can now optionally specify custom versions of the LiveContent extra configuration file and front matter XSL file.

To enable this enhancement, the following properties have been added to the delivered `PublishConfiguration.xml` and `PublishConfiguration_Unix.xml` files.

- `LiveContent_ExtraConfig` defines the path of the extra configuration file (`[contenta_view_install_dir]/templates/conf/system/s1000d.xml` by default).
- `LiveContent_FrontMatter` defines the path of the XSL file used to generate IETM front matter (`[Contenta_root_dir]/encaps/S1000D/LiveContent_FrontMatter.xsl` by default).

Important: You must merge the updated publish configuration files delivered to the `Contenta/distr` directory into your existing publish configuration files to include these new properties.

In the delivered configuration files, these properties reference the two default LiveContent configuration files; edit their values if you want to use custom files.

For more information about these enhancements, refer to the following topics in the Contenta S1000D documentation.

- *Modifying AppData settings after installing or upgrading Contenta S1000D*
- *Configuring LiveContent publishing settings*

Updated DDN Export user interface

The DDN Export UI has been updated to include all parts of the `identAndStatusSection`. Fields in this UI have been reordered to better match the order in the XML and to place required fields before optional fields. User-entered data in the new fields is validated similarly to validation of existing user-supplied data.

New fields include the following.

- **BREX DM Ref:** required in Issue 4.1 or higher
- **Derivative Class. Ref ID:** optional, available in Issue 4.2 or higher
- **Control Authority Group:** optional, available in Issue 5.0 or higher, enter XML markup: `<controlAuthorityGroup>...</controlAuthorityGroup>`
- **Data Restrictions:** optional, available in Issue 2.0 or higher, enter XML markup: `<dataRestrictions>...</dataRestrictions>` OR `<datarest>...</datarest>`

Note:

In earlier versions of Contenta S1000D, users entered this optional data as text in seven different fields.

- **Remarks:** optional, available in all S1000D Issues, enter XML markup: `<remarks>...</remarks>`

Contenta S1000D database upgrade changes There is no Contenta S1000D database upgrade for Contenta S1000D 5.11. Customers upgrading from Contenta S1000D 5.8 or earlier must run the Contenta S1000D 5.9 database upgrade program; see the 5.9 Release Notes for more information.

Platform changes in Contenta S1000D 5.10

Contenta S1000D 5.10 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.10

Software for which support was added in the 5.10 release.

Editing tool

- Syncro Soft Oxygen XML Author 23.x

Deprecated items in Contenta S1000D 5.10

Software deprecated in the 5.10 release. If you use any of these components, upgrade to a supported version before upgrading to this version of Contenta S1000D.

Web browser

- Microsoft Internet Explorer 11

Items no longer supported in Contenta S1000D 5.10

Software no longer supported. If you use any of these components, upgrade to a supported version before upgrading to this version of Contenta S1000D.

Editing tool

- Syncro Soft Oxygen XML Author 22.x

What's new and changed in SDL Contenta S1000D 5.9

This section describes new features, feature enhancements and other changes in the 5.9 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.9

This section lists features and enhancements that were introduced in Contenta S1000D 5.9.

Important: Before upgrading to Contenta S1000D 5.9, Contenta must be upgraded to version 5.8.1.

New S1000D XML editor

This release introduces a new S1000D XML editor for all supported S1000D issues leveraging Syncro Soft Oxygen XML Author (version 22.1 or later). A delivered editor extension provides integration between Contenta S1000D and the editor, and the following tools for Oxygen have been added to the Contenta Explorer and Contenta Web user interfaces.

- Oxygen (round-trip edit)
- Check Out/Check In
- Insert Reference
- Validate
- Rebuild Table of References
- Manage Internal References
- Manage Hotspots
- Assign Applicability
- Preview

Note: Contenta S1000D Oxygen editing tools support editing multiple documents in one Oxygen editing session if the documents are checked out from the same Contenta S1000D database.

During installation or upgrade, if Oxygen XML Author is present, the Contenta S1000D styles and schemas for the supported S1000D Issues are delivered to an *oxygen_home* directory.

Note: A new license file is required for Oxygen XML Author support. See *Requesting the Contenta license file* in the [Contenta 5.9 documentation](#).

For more information about these enhancements, refer to the following topics in the Contenta S1000D documentation.

- *Configuring Contenta S1000D Web clients to run Arbortext or Oxygen XML editors*
- *Configuring Contenta Oxygen XML Author integration*
- *Sample S1000D data*

- *Editing S1000D modules*

CIR support enhancements

This release includes the following enhancements to Contenta S1000D support for CIRs.

Support for additional types of CIRs

The Contenta S1000D Publish tool now resolves references to items in most types of CIRs during publish. (Previously, the tool resolved only applicability, warning, and caution references.)

Enhancements in this release to Publish tool CIR support include the following.

- Support for implicit CIR references was added. (Only explicit CIR references were supported previously.)
- A new **Resolve CIR References** check box in the tool interface enables publishing with or without resolving CIR references.

By default, the S1000D Publish tool resolves each type of CIR reference in a particular context, such as the Preliminary Requirements section of Procedural, Process, Fault, or Checklist DMs.

Note: If necessary, this default behavior can be overridden in consultation with SDL Professional Services.

Enhanced support for CIR warnings and cautions

In this release, Contenta S1000D improves support for reusing warning and caution elements stored in S1000D Issue 4.1 and later CIR DMs. The **Insert Reusable Component** editor plug-in now allows a user to specify a search string (consisting of plain text or an XSLT 3.x regular expression) by which to filter search results, making it easier to find warnings and cautions in CIR DMs for reuse. A new configuration file allows you to customize search criteria by CIR type. For each CIR type, you can specify the following search criteria.

- Spec Issue
- Tag name under which search can be performed
- Maximum number of hits to be returned

Additional CIR enhancements

The following enhancements to CIR support were also made.

- Contenta S1000D now uses the Saxon PE parser, enabling use of XSLT 3.x regular expressions in search strings.
- The **Insert Reusable Component** user interface has been modified to improve performance and useability.

For more information about these enhancements, refer to *Inserting items from a CIR or a CSDB reusable component directory* in the Contenta S1000D documentation.

S1000D Upload Content enhancements

The following enhancements were made to the S1000D Upload Content tool.

- **S1000D schema validation**
You can now opt to have the S1000D Upload Content tool parse each XML file specified for upload to validate it against the applicable S1000D schema. You can elect whether content consisting of well-formed XML that fails the schema validation is uploaded. By default, the Upload Content tool uses the path set in an XML's `noNamespaceSchemaLocation` attribute to find the S1000D schemas against which it validates content. If the path in that attribute does not exist or cannot be accessed, you can use the new `XYV_SCHEMA_CATALOG` registry setting (under the `XyEnterprise\Content@\Web\Settings\Upload` key) to specify an alternate schema location to be used.
- **Performing multiple uploads**
When an upload completes, the **Cancel** button in the Upload Content UI is replaced with a **New Upload** button, allowing you to perform another upload to the same configuration or project without closing and reopening the **Upload Content** window.
- **Parallel processing of duplicate files**
When multiple files with identical file names but different extensions are uploaded, the Upload Content tool uses parallel processing. The first such file is uploaded and each of the others is skipped while the system displays the following message.
`This object is already being uploaded as a different type`
- **User interface improvements**
 - **Improved filtering of prior upload information**
Clicking **Prior Uploads** in the **Upload Content** window now displays information only about prior uploads to the current database by the current user.
 - **Improved warning and error messages**
While an upload is in progress, if there are no successful imports and errors are detected, the progress bar displays in red. In addition, if there are errors, the error count is displayed in red.
 - **Improved logging**
Duplicate entries are now deleted from Upload Content log files after each upload.

For more information about these enhancements, refer to the following topics in the Contenta S1000D documentation.

- *Specifying schema locations for Upload Content schema validation*
- *Using the S1000D Upload Content tool*
- *Uploading Content into a Configuration*
- *Uploading Content into a Project*
- *Viewing prior upload information from the S1000D Upload Content window*

S1000D Upload Codes enhancements

The S1000D Upload Codes tool user interface has been enhanced to improve usability and provide better progress feedback. Unneeded fields and links have been removed, and a new progress bar shows upload progress in terms of the number of codes imported.

For more information about these enhancements, refer to *Using the S1000D Upload Codes tool* in the Contenta S1000D documentation.

Support for DMRL (XML or SGML) files

The S1000D Upload Codes tool has been enhanced to allow the import of DMC and ICN codes in a DMRL (XML) file. Information from the DMC codes is parsed based on S1000D Issue and stored in Contenta S1000D data tables. The Manage Programs tool now allows the export of codes into a DMRL file. Previously, codes could be imported and exported only in comma-separated-value (CSV) format. When exporting a DMRL file, you can enter or modify information for its `identAndStatusSection` section (or `dmlc/issno/issdate/security/datarest` sections in pre-Issue 4.0).

Note the following about Contenta S1000D 5.9 support for DMRLs.

- Partial and Complete DMRLs are supported; CSDB Status Lists (CSLs) are not.
- ICN codes are available only in S1000D Issue 4.1 or later DMRL files.
- For Issues 1.8 and 1.9 only, SGML DMRLs can be used for import/export of codes.

For more information about these enhancements, refer to the following topics in the Contenta S1000D documentation.

- *Using the S1000D Upload Codes tool*
- *Uploading codes to a configuration*
- *Exporting a program's codes*

Contenta S1000D publish to XPP using XPP RESTful Web Services

The delivered Contenta S1000D-to-XPP publish script now uses XPP RESTful Web Services version 1.0 to publish content from Contenta S1000D to XPP. The RESTful XPP Web Services API uses newer technology than the legacy, SOAP-based XPP Web Services API used by previous versions of Contenta S1000D, and offers benefits including the following.

- XPP RESTful Web Services is easier to install and does not require that Apache Tomcat and Java be installed on the XPP server.
- Limitations on transferring large output PDF files from the XPP server to the Contenta Web server have been eliminated.

The following are prerequisites for using XPP RESTful Web Services for Contenta S1000D-to-XPP publish.

- XPP 9.3 or later
- XPP RESTful Web Services 1.0 installed on the XPP server

Upgrading customers are encouraged to migrate to XPP RESTful Web Services to take advantage of its benefits. If you have a customized S1000D Publish tool, contact SDL Professional Services for assistance.

Important: If you want to continue using the legacy XPP Web Services API and you currently use the delivered (not customized) S1000D Publish tool, you need to copy the tool to a custom name and modify the tool setup accordingly *before* upgrading to Contenta S1000D 5.9. Contact SDL Professional Services for assistance. If you already have a customized S1000D Publish tool, you do not need to do anything to continue using the legacy XPP Web Services API.

To configure your environment to publish using XPP RESTful Web Services:

- New Contenta S1000D and XPP customers: Refer to the following topic in the Contenta S1000D documentation: *Configuring a new SDL XPP installation to publish PDFs*
- Upgrading Contenta S1000D and XPP customers:
 1. Merge the updated Contenta S1000D publish configuration file with your existing publish configuration files, as the **xppPort** property has changed for XPP RESTful Web Services.
 2. Extract the appropriate `s1000dxppxz.zip` file as described in the *Adding new XPP publish resources from a zip file* topic, as the location of the `modifytoc.pl` file has changed for XPP RESTful Web Services.

Refer to the *SDL XPP RESTful Web Services* documentation for more information.

S1000D Issue Support

Support for S1000D Issue 5.0 is provided throughout the Contenta S1000D tool set, from Upload to Publish, notably the following.

- Pass-through support for Issue 5.0 modules: Available in Upload Content, the Define and Manage tools, Import/Export DMRLs, Arbortext and Oxygen edit (Checkout/Checkin), LiveContent Preview, DDN Export, Validate (References and BREX), PM Builder, and Publish.
- Additionally, Contenta S1000D tools support the following Issue 5.0 functionality.
 - Tools support uploading, creating from template, editing, and validating all 5.0 DM types.
 - PM Builder may be used to create or update Issue 5.0 PMs. PM Builder also preserves optional Issue 5.0 markup in the `identAndStatusSection` and detects optional Issue 5.0 unsupported markup in the content section.
 - Validate BREX, PM Builder, and DDN Export recognize the Issue 5.0 default BREX DM, DMC-S1000D-G-04-10-0301-00A-022A-D, and reference it when needed.
 - The default DDN version in the DDN Export UI has been changed from Issue 4.2 to Issue 5.0
 - Validate References recognizes and skips any references to chapters in the Issue 5.0 specifications—that is, *dmRefs* to DMs found only in the Issue 5.0 specification (not

1 New features and enhancements

in customer CSDBs) in the 5.0 sample `brDoc` DM, DMC-S1000DBIKE-AAA-D00-00-00-00AA-024A-D.

- Insert Reusable Component recognizes Issue 5.0 information codes for Warning CIR DMs (0A4) and Caution CIR DMs (0A5), and continues to recognize `infocode` 012 for either Warning or Caution CIRs.

Note: In Contenta S1000D 5.9, SDL delivers the following for S1000D Issue 5.0.

- schemas and Catalog files
- Arbortext Editor 7.1 and 8.0 style files
- Oxygen XML Author style files
- data module templates

Note: In new Contenta S1000D 5.9 CSDBs, the Issue 5.0 templates are the default templates.

- SAMPLEBIKE data
 - a sample DMRL/CSV file
 - PubManager sample/template objects
-

Contenta S1000D database upgrade changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.9. If you are upgrading a database from a release earlier than 5.6, contact SDL Professional Services at <mailto:ProServRequest@sdl.com> to discuss upgrade services for your implementation. The Contenta Core database upgrade should be performed before upgrading the Contenta S1000D database. For more information about performing the Contenta Core database upgrade, refer to the *Contenta 5.9 Release Notes*, available at <https://docs.sdl.com>.

- Added 21 Issue 5.0 data module templates in the `s1000d/ Templates/ 5.0` container.
- Added the following Issue 5.0 PubManager templates.
 - S1000D/Publication Management/PubMan-SAMPLEBIKE-XYENT-00050-01_002
 - S1000D/Publication Management/PubMan-SAMPLEBIKE-XYENT-00050-01_002_EN-US
- Added an `Information Name Variant` property to DModule objects.
- Added new database tables and modified existing tables in the schema to support importing and exporting DMRLs and new Issue 5.0 functionality.
- Added Oxygen Editor tools to DModule, PModule, PubManager, and SCORMContent-Package object types, for ProjMan, SysAdmin, and writer roles. These tools include Oxygen (short-term/round-trip edit), Oxygen Check Out, and Oxygen Check In, for both Contenta Web and Contenta Explorer.

- Added GetDoc/PutDoc adapter mappings for all of the Oxygen Editor tools to all S1000D document types in AppData.

Important: You must have a recent backup of your CSDB before upgrading it to Contenta S1000D 5.9.

For customers upgrading from Contenta S1000D version 5.6, there is no Contenta core database upgrade program; customers upgrading from previous versions must run the Contenta `upgrade_56` database program before running the Contenta S1000D `upgrade_s1000d_59.p1` database program to upgrade their Contenta S1000D databases. Refer to the *Contenta 5.8.1 Release Notes* for the latest information about database support.

Platform changes in Contenta S1000D 5.9

Contenta S1000D 5.9 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.9

Contenta S1000D 5.9 added support for the following software component.

Editing Tools

- Oxygen XML Author 22.1

Deprecated items in Contenta S1000D 5.9

No platform support was deprecated in the 5.9 release of Contenta S1000D.

Items no longer supported in Contenta S1000D 5.9

A list of software that is no longer supported. If you use any of the listed software components, upgrade to a supported version before your upgrade to Contenta S1000D 5.9.

Operating System

- Microsoft Windows 2012 R2 64-bit

What's new and changed in SDL Contenta S1000D 5.8.1

This section describes new features, feature enhancements and other changes in the 5.8.1 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.8.1

Contenta S1000D 5.8.1 includes no new features or enhancements.

Platform changes in Contenta S1000D 5.8.1

Contenta S1000D 5.8.1 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.8.1

In this release, Contenta S1000D added support for these software components.

Operating Systems

- Red Hat Enterprise Linux 8.1 (64-bit)

Web and Application Servers

- Apache Tomcat 9.0.38 (64-bit)

Java

- Oracle Java JRE 1.8_261 (64-bit) (32-bit for Contenta Web)
- Oracle JDK 11.0.8 (64-bit)
- AdoptOpenJDK with Hotspot JRE 11.0.8 (64-bit)

Editing Tools

- Arbortext Editor 8.0.0 (64-bit)

Web Browsers

- Mozilla Firefox ESR 78.3
- Google Chrome 85

Deprecated items in Contenta S1000D 5.8.1

No platform support was deprecated in the 5.8.1 release of Contenta S1000D.

Items no longer supported in Contenta S1000D 5.8.1

A list of software that is no longer supported. If you use any of these software components, upgrade to a supported version before your upgrade to Contenta S1000D 5.8.1.

Operating Systems

- Microsoft Windows 2012 R2 (64-bit) Server

Web and Application Servers

- Microsoft IIS 8.5

What's new and changed in SDL Contenta S1000D 5.8

This section describes new features, feature enhancements and other changes in the 5.8 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.8

This section lists features and enhancements that were introduced in Contenta S1000D 5.8.

64-bit Contenta S1000D

This release introduces the Contenta S1000D as a 64-bit application, offering enhanced performance and scalability, and streamlining the installation process. By default, new installations of Contenta S1000D on Windows are installed in the `Program Files` directory (instead of `Program Files (x86)` as with previous versions). For upgrades, the installation program detects the path of the existing `Contenta_home` directory and installs Contenta S1000D.

Note: In this release, Contenta Explorer and the Contenta COM API remain 32-bit applications. Support for 64-bit Contenta Web and 64-bit Crawler was added in Contenta S1000D 5.7.

Contenta Web security updates to allow for no applet

Prior to Contenta Web 5.8, certain Contenta Web tools (Dynamic Import, and Check In/Check Out/Fetch tools) allowed the use of an applet to enhance functionality when transferring content to and from the Web Server. By default, the applet was turned on for all these tools. For security reasons, in 5.8 and forward, the applet is no longer supported for any Contenta Web tools, except Dynamic Import and FrameBook tools (with Internet Explorer only). For Contenta S1000D, changes were made to the Arbortext editing tools to allow for graphics to be transferred to the client (if requested) without 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. See *Notes on limitations when not using applets* in the Contenta S1000D documentation for information about working with Contenta tools without applets.

Note: Custom tools that use the SDL applet must be modified by the customer to use an alternative method for uploading and downloading files.

S1000D Upload Content tool

Contenta S1000D 5.8 includes a new S1000D Upload Content tool for Contenta Web and Contenta Explorer. The new tool provides an improved user interface and improves support for uploading large batches of files to your SDL Contenta S1000D CSDB. The new Upload Content tool uploads only content files to the CSDB. The Upload tool delivered in previous versions has been modified to upload only CSV codes, and has been renamed S1000D Upload Codes.

The new Upload Content tool enhances performance, increasing the size and number of files that can be uploaded in a session. In addition, the Upload window can now be closed while the upload is in progress, providing greater flexibility when uploading large amounts of content. Other enhancements include the following features.

- Validation of XML files to confirm they are well-formed and not already in the CSDB
- Reporting on files not uploaded because they are too large or of an unsupported file type
- Downloading files that cannot be uploaded
- Ability to monitor the upload in real-time via the Upload Content window or later via log files
- Access to information about prior uploads via a **Prior Uploads** button, which displays a window allowing you to display and delete log files for all previous uploads
- Improved upload statistical information

S1000D Upload Content uses parallel processing to enhance performance when uploading a large number of files. New registry settings allow you to configure S1000D Upload Content to optimize parallel processing.

In addition, the S1000D Upload Content tool has been enhanced to support pre-2.2 S1000D issues. For more information about support for these additional issues, refer to the *Support for legacy S1000D spec issues* section later in this topic.

Note: The Upload Content tool is designed to allow for upload of batches of 20K or less via the browser. Larger batches may cause unpredictable behavior in the browser. Larger batches can be uploaded via the server upload function.

For more information about this enhancement, refer to the following topics in the Contenta S1000D documentation.

- *Modifying AppData settings after installing or upgrading Contenta S1000D*
- *Optimizing S1000D Upload Content performance*
- *Registry settings for S1000D Upload Content parallel processing*
- *Viewing prior upload information from the S1000D Upload Content window*

New Contenta Manage Internal References tool

Contenta S1000D 5.8 introduces the new Contenta Manage Internal References tool for Arbortext Editor, which streamlines the process of creating internal references within a DM to elements in the DM (such as figures, warnings, and tables). The tool can be configured to launch automatically when you use the Arbortext menu (**Insert > Markup**) to insert an `<xref>` element (S1000D Issue 3.0 or earlier) or an `<internalRef>` element (Issue 4.0 or later). Alternatively, you can launch the tool manually by selecting **Contenta > Manage Internal References**.

The tool generates the required markup and assigns an element ID to the reference target (if one does not already exist).

For more information about setting up and using this enhancement, see the following topics in the Contenta S1000D documentation.

- *Configuring the Manage Internal References tool*
- *Customizing the Manage Internal References tool target list*
- *Modifying AppData settings after installing or upgrading Contenta S1000D*
- *AppData settings for SDL Contenta tools*
- *Inserting internal references in Arbortext Editor*

New Contenta Hotspot Manager tool

Contenta S1000D 5.8 introduces the new Contenta Hotspot Manager tool for Arbortext Editor, which streamlines the process of linking hotspots in a CGM or SVG graphic to text elements in the DM. You launch the tool using the new **Hotspot Manager** item on the **Contenta** menu in Arbortext Editor.

For more information about setting up and using this enhancement, see *Creating hotspot links in Arbortext Editor* in the Contenta S1000D documentation .

Support for legacy S1000D Issues

Contenta S1000D now supports legacy S1000D Issues 1.6, 1.7, 1.8, 1.8.1, 1.9, 2.0, and 2.1. Support for Issue 1.6 and 1.7 DMs includes support for both the Aircraft Ground Equipment (AGE) and Air Vehicle, Engines, and Equipment (AVEE) schemas, which were merged in subsequent issues. To use AGE DMs, several AppData keys, representing AGE-specific Document Types, have been added. For details, refer to the *Contenta S1000D database upgrade changes* section at the end of this topic. LiveContent S1000D 5.8 does not support AGE DMs.

Issue 1.6, 1.7, 1.8, 1.8.1, and 1.9 SGML files are converted into XML before being uploaded to the CSDB, and Issue 1.x XML files may optionally be converted back to SGML during DDN Export.

For more information about this enhancement, see *Contenta S1000D support for legacy S1000D Issues* in the Contenta S1000D documentation.

Enhanced CSS sample styles and updated XSL files for XPP Publish

CSS styles can now be used as starting point XPP styles for customers who publish S1000D Issue 4.0 and later content from Contenta S1000D to XPP for PDF output. Additional XML tags have been styled, CSS has been normalized, style issues have been fixed, and CSS rules have been organized into logical categories.

Note: These styles are sample styles only. Additional CSS rules may be needed to achieve the desired output.

An issue with table numbering that was introduced with a newer version of XSL has also been fixed. Updated XSL files are available with both the XPP proprietary and CSS style library zip files delivered with Contenta S1000D. Extract the appropriate zip file as described in the following.

If you publish to XPP using CSS styles, copy the updated CSS XPP style library zip, `s1kdXppCssStyles.zip`, from the Contenta server to the CSS XPP style library, `ls1kd_css`, or to your custom XPP style library, on the XPP server, as follows.

1. Navigate to the `s1000d_samples/xpp/` subdirectory of the Contenta home directory on the Contenta Web server.
2. Copy `s1kdXppCssStyles.zip` from the Contenta Web server to the `sd_1iz` subdirectory of the XPP home directory on the XPP server, and extract its contents to a directory named `ls1kd_css` or to the directory that contains your custom XPP style library.

If you publish to XPP and use proprietary styles, copy the updated XPP proprietary style library zip, `s1000dstyles.zip`, from the Contenta server to the XPP proprietary style library, `ls1000d`, or to your custom XPP style library on the XPP server, as follows.

1. Navigate to the `s1000d_samples/xpp/` subdirectory of the Contenta home directory on the Contenta Web server.
2. Copy `s1000dstyles.zip` from the Contenta Web server to the `sd_1iz` subdirectory of the XPP home directory on the XPP server, and extract its contents to a directory named `ls1000d` or to the directory that contains your custom XPP style library.

Important:

- If your XPP server runs on Linux, ensure that the files you extract have read and write permissions.
- If you have custom XPP styles, your customized styles must be merged with the new styles in the latest release of Contenta S1000D.

Enhanced XPP Publish handling of non-displayed Data Modules

If the content section of a PM includes DMs that are not typically printed and displayed (such as applicability, BREX/brDoc, and CIR/TIR DMs), XPP Publish no longer sends these DMs to XPP to be composed, paginated, and rendered in PDF output. Also, XPP Publish no longer sends Title Page, List of Effective Data Modules (LOEDM), and Table of Contents (TOC) DMs (infocodes 001, 002, and 009, respectively) to XPP because XPP auto-generates those three sections of the publication for the PDF.

Note: CIR/TIR and applicability DMs do not need to be listed in the content section of the PM being published for S1000D Publish to resolve content references and filter by applicability; these DMs are retrieved by CIR/TIR/applicability-specific references elsewhere in the PMs/DMs. By the time XPP Publish sends "ordinary" Data Modules to XPP, they are self-contained Data Modules, no longer dependent on CIR/TIR or applicability DMs. As far as XPP Publish is concerned, only the Data Modules to be printed and displayed need to be listed in the content section of the PM.

Added Issue 4.2 support to SDL S1000D Foundation Suite

The SDL S1000D Foundation Suite has been updated to generate Issue 4.2 modules. The S1000D Foundation Suite is a separate product from Contenta S1000D that generates initial data modules (DMs) that can be uploaded into a Contenta S1000D CSDB. It simplifies the process of beginning a new Issue 4.0.1, 4.0.2, 4.1, or 4.2 S1000D project by creating all the starting-point data modules required for a new S1000D project, effectively defining the structure of the project.

For further information about this enhancement, refer to *Using the SDL S1000D Foundation Suite* in the Contenta S1000D documentation.

Support for VDS multimedia files Contenta S1000D databases and tools have been enhanced to support SAP Visual Data Stream (VDS) multimedia files. If your content will include VDS multimedia files, add `vds` to the hyphen-delimited list of multimedia object types in the *multimediaObjects* AppData setting under the **{Global} > Settings > Graphics** path.

In addition, to enable search of VDS files, add `VDS` to the hyphen-delimited list of object types available for Advanced Search in the `cw_searchObjectTypes` AppData setting under the **{Global} > content@web > Settings** path.

Support for SCORM runtime files: FLA, CSS, JS

Contenta S1000D databases and tools have been enhanced to support FLA multimedia files that, in conjunction with CSS and JS files, may comprise SCORM runtime files. SDL is providing pass-through support so that, for example, you can publish a publication containing SCORM runtime files to the file system and create a `.zip` file for delivery to a SCORM system.

If your content will include FLA multimedia files, add `FLA` to the hyphen-delimited list of multimedia object types in the `multimediaObjects` AppData setting under the **{Global} > Settings > Graphics** path.

In addition, to enable search of FLA files, add `FLA` to the hyphen-delimited list of object types available for Advanced Search in the `cw_searchObjectTypes` AppData setting under the **{Global} > content@web > Settings** path.

To enable search of CSS and JavaScript files, add the values `CSS` and `JS` to the hyphen-delimited list of object types available for Advanced Search in the `cw_searchObjectTypes` AppData setting.

For more information about this enhancement, refer to the following topics in the Contenta S1000D documentation.

- *AppData settings for SDL Contenta tools*
- *AppData settings for editing S1000D modules with Arbortext Editor*
- *Video file formats*

Application upgrade information

Application upgrades are supported from Contenta S1000D 5.6 and later. For other scenarios, a new, full installation is required. For more information, contact SDL.

Note: During the upgrade, files in the `distx` directory are not overwritten, but must changes still be merged. Customized versions of other delivered files should also be backed up and merged.

Contenta S1000D database upgrade changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.8. If you are upgrading a database from a release earlier than 5.5, contact SDL Professional Services at <mailto:ProServRequest@sdl.com> to discuss upgrade services for your implementation. The Contenta Core database upgrade should be performed before upgrading the Contenta S1000D database. For more information about performing the Contenta Core database upgrade, refer to the *Contenta 5.8 Release Notes*,

available at <https://docs.sdl.com>

- The following AGE-specific AppData keys have been added under **{Global} > Document Types**.

- *descript_age*
- *proced_age*
- *schedul_age*

The keys and values that exist under all document types to facilitate Checkout, Checkin, and Edit have been added under these keys.

- A new AppData value is added under the **{Global} > Settings > Editors > cw_xml_co** key: *enableManageInternalReferencesOnInsert*, set to *no* by default.
- A new AppData value is added under the **{Global} > Settings > CaS_Upload** key: *bytesPerRequest* specifies (in bytes) the size of data chunks to be transferred when uploading large files. The default for this new value is *104857600*.
- The following new object types are created, based on the Graphic object type.
 - VDS
 - The **MIME Type** property sheet field for VDS objects has been set to *application/vds*.
 - The *mimetypeMappings* AppData setting has been updated to add a Name/Value pair with Name set to *application/ vds* and Value set to *.vds*.
 - FLA
 - The **MIME Type** property sheet field for FLA objects has been set to *application/octet-stream*.
 - The *mimetypeMappings* AppData setting has been updated to add a Name/Value pair with Name set to *application/ octet-stream* and Value set to *.fla*.
 - CSS
 - The **MIME Type** property sheet field for CSS objects has been set to *text/css*.

Note: The *mimetypeMappings* AppData setting already includes a Name/Value pair with Name set to *text/css* and Value set to *.css*.

- JS
 - The **MIME Type** property sheet field for JS objects has been set to *application/javascript*.
 - The *mimetypeMappings* AppData setting has been updated to add a Name/Value pair with Name set to *application/ javascript* and Value set to *.js*, and to remove the obsolete Name/Value pair with Name set to *application/ x-javascript* and Value set to *.js*.

Note:

- **New VDS, New FLA, New CSS, and New JS** creation tools have been added to the Container, Group, Model, SystemDifferenceCode, System, Subsystem, Subsubsystem, Project, ContentRoutingProject, and Dispatcher objects, but were not added to any Group toolboxes.

- CSS and JavaScript files are supported to work in conjunction with FLA multimedia files in SCORM packages.
-
- The **S1000D Upload Content** tool is added to Configuration, Project, and ContentRoutingProject objects in Contenta Web and Contenta Explorer, and added to SysAdmin and ProjMan toolboxes.
 - The **S1000D Upload** tool is removed from SysAdmin and ProjMan toolboxes. This tool has been replaced by the **S1000D Upload Content** tool.
 - The following indexes were added to the linkends database table: `linkends_4` and `linkends_5`.
-

Important: You must have a recent backup of your CSDB before upgrading it to Contenta S1000D 5.8.

For customers upgrading from Contenta S1000D version 5.6, there is no Contenta core database upgrade program; customers upgrading from previous versions must run the Contenta `upgrade_56` database program before running the Contenta S1000D `upgrade_s1000d_58.pl` database program to upgrade their Contenta S1000D databases.

Platform changes in Contenta S1000D 5.8

Contenta S1000D 5.8 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.8

Contenta S1000D 5.8 added support for a number of software components.

Operating Systems

- Microsoft Windows 2019 (64-bit)

Database Servers

- Oracle 18c version 12.2.0.2, 64-bit server (Enterprise or Standard) and 64-bit client
- Microsoft SQL Server 2016 SP 2

Perl

- Strawberry Perl 5.28.1 (64-bit) for Windows
- CPAN Perl 5.28.1 (64-bit) for Linux

Java

- Saxon-Java 9.9.0

Editing Tools

- Adobe FrameMaker 2019
- Arbortext Editor 7.1 M50 or later, 64-bit

Note: Arbortext Editor 7.1 M050 and later requires a Java Runtime Environment. Refer to Arbortext documentation for more information.

Web Browsers

- Google Chrome 78

Miscellaneous

- Slicwave 5.3 SP 9

Deprecated items in Contenta S1000D 5.8

This topic lists platform support that was deprecated in the 5.8 release of Contenta S1000D.

The following software is deprecated.

Operating Systems

- Microsoft Windows 2012 R2 (64-bit) Server
- Red Hat Enterprise Linux 6

Web and Application Servers

- Microsoft IIS 8.5
- Apache Tomcat 8.5.x

Database Servers and Clients

- Oracle 12c 64-bit server and client

Java

- Oracle Java 8 (32-bit)
- Oracle Java 8 (64-bit)

Items no longer supported in Contenta S1000D 5.8

A list of software that is no longer supported. If you use any of these software components, upgrade to a supported version before your upgrade to Contenta S1000D 5.8.

Database Servers and Clients

- Microsoft SQL Server 2016 SP 1 server and client
- Oracle 12c version 12.1.0.2, 64-bit server (Enterprise or Standard) and 32-bit client

Perl

- Strawberry Perl 5.28 (32-bit) for Windows
- CPAN Perl 5.16 (32-bit) for Linux

Editing Tools

- Arbortext Editor 7.1 F00 (64-bit)
- Arbortext Editor 7.0 (64-bit)

Web Browsers

- Mozilla FireFox ESR 60.x

Miscellaneous

- Slicwave 5.3 SP7

What's new and changed in SDL Contenta S1000D 5.7.1

This section describes new features, feature enhancements and other changes in the 5.7.1 release of SDL Contenta S1000D.

Important: To optimize publish performance in certain use cases, SDL recommends adding additional indexes to the linkends table. Confirm that these indexes are missing, and if necessary, add them using the following procedure applicable to your database type.

Adding linkends table indexes on an Oracle database

Perform the following steps to confirm that the required linkends table indexes `linkends_4` and `linkends_5` are missing and, if necessary, add them for an Oracle database.

1. In Windows, open a command prompt.
2. Open a SQL*Plus prompt by entering the following at the command prompt.
`sqlplus database/password@SID`
 where *database* is the name of the database, *password* is the password to access it, and *SID* is its Oracle SID.
3. At the SQL*Plus prompt, enter the following.
`select index_name from user_indexes where table_name='LINKENDS';`
4. Press **Enter**. SQL*Plus searches for indexes whose names contain the string `LINKENDS`.
5. If the SQL*Plus output does not contain the string `linkends_4`, at the SQL*Plus prompt, enter `create index linkends_4 on linkends(linkendstitle);` and press **Enter** to add the index.
6. If the SQL*Plus output does not contain the string `linkends_5`, at the SQL*Plus prompt, enter `create index linkends_5 on linkends(linkendstitle);` to add the index and press **Enter** to add the index.
7. To close the SQL*Plus window, enter `EXIT` and press **Enter**.
8. Close the Windows command prompt.

Adding linkends table indexes on a SQL Server database

Perform the following steps to confirm that the required linkends table indexes `linkends_4` and `linkends_5` are missing and, if necessary, add them for a SQL Server database.

1. In Windows, open a command prompt.
2. Execute the following at the command prompt.
`sqlcmd -S SQL Server Name -U database -P password -Q "select name from sysindexes where name like %linkends%;"` and press **Enter** to execute the command.
 where *SQL Server Name* is the name of the SQL server, *database* is the name of the database, and *password* is the password to access the database.
3. If the `sqlcmd` output does not contain the string `linkends_4`, at the command prompt, enter `sqlcmd -S SQL Server Name -U database -P password -Q "CREATE INDEX [LINKENDS_4] ON [dbo].[linkends] ([LINKENDTITLE]);"` and press **Enter** to add the index.
4. If the `sqlcmd` output does not contain the string `linkends_5`, at the command prompt, enter `sqlcmd -S SQL Server Name -U database -P password -Q "CREATE INDEX [LINKENDS_5] ON [dbo].[linkends] ([LINKENDTITLE]);"` and press **Enter** to add the index.
5. Close the Windows command prompt.

New features and enhancements in Contenta S1000D 5.7.1

Contenta S1000D 5.7.1 includes no new features or enhancements.

Platform changes

Contenta S1000D 5.7.1 includes no changes to platform support.

What's new and changed in SDL Contenta S1000D 5.7

This section describes new features, feature enhancements and other changes in the 5.7 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.7

This section lists features and enhancements that were introduced in Contenta S1000D 5.7.

S1000D BREX support enhancements

The following enhancements were made to the S1000D Validate tool.

- Support of XPath 2.0 to validate S1000D Issue 4.0 and later data modules (DMs)
Contenta S1000D 5.7 supports XPath 2.0 to validate S1000D Issue 4.0 and later DMs against their BREX rules. This version of XPath includes an XPath 1.0 compatibility mode, which is used to validate S1000D Issue 3.0 DMs against their BREX rules.
- Checking for context-sensitive BREX rules
The **Validate BREX** tool now checks for context-sensitive BREX rules, that is, rules that apply only to DMs that use the specified schema. For example, rules that apply only to Issue 4.2 procedural DMs will not be evaluated when validating DMs of other types or issues. This enhancement helps the tool run more efficiently and to report only those results that apply to DMs using the specified schema.
- Improved detection of duplicate XPath expressions in BREX rules
BREX results should no longer contain the same BREX rule reported more than once.

Note: These changes may produce different **Validate BREX** results in Contenta S1000D 5.7 than the tool produced in previous releases.

Issue 4.2 Derivative Classification support

Enhancements were made to support the optional `derivativeClassification` markup introduced in Issue 4.2 of the S1000D specification, which provides a way to keep track of the history of classification actions taken on an entire module (DM, PM, SCPM) or on part of a module. S1000D Issue 4.2 Derivative Classification includes the following new pieces of XML markup, each of which is optional.

- A `<derivativeClassification>` tag in the `<identAndStatusSection>`, which may contain one or more `<classificationActionGroup>` tags, each of which contains the history of a single classification action taken on a chunk of data (an entire module or part of a module).
- A `derivativeClassificationRefId` attribute that refers to an `id` attribute on a `<classificationActionGroup>` tag, using XML's ID/IDREF construct.

The following enhancements were made to support Derivative Classification markup.

- The Contenta S1000D upgrade program adds a new property sheet field, **Security DerivativeClass RefId**, to the DModule, PModule, and SCORMContentPackage objects.
- S1000D Upload and Arbortext (or other editor) Check In functionality has been modified so that if the optional `derivativeClassificationRefId` attribute is present in the `<security>` tag of the `<identAndStatusSection>` in an Issue 4.2 module, its value is extracted into the new property sheet field.
- When running PM Builder on an Issue 4.2 PM, a new field, **security derivativeClassificationRefId**, is displayed in the **PM Properties** form.
- The following changes were made to PM Builder.
 - When the user fills in the new **security derivativeClassificationRefId** field, PM Builder checks whether the entry is a valid XML IDREF (NCName). If the entry is a valid IDREF, the `derivativeClassificationRefId` attribute on the `<security>` tag of the `<identAndStatusSection>` is added or updated, and the IDREF is also stored in the PM's **Security DerivativeClass RefId** property sheet field.
 - When run on an existing Issue 4.2 PM, PM Builder checks for the optional `derivativeClassificationRefId` attribute on the `<security>` tag of the PM's `<identAndStatusSection>` and populates the **security derivativeClassificationRefId** field accordingly. PM Builder also checks for the optional `<derivativeClassification>` tag and preserves the tag and its contents along with other optional markup in the PM's `<identAndStatusSection>`, which is also preserved.
 - When run on an existing Issue 4.2 PM, PM Builder checks for unsupported markup in the PM's `<content>` section, including the `derivativeClassificationRefId` attribute (and the other security/classification attributes) on any tag except the optional `<security>` tag under `<pmRef>` tags.

Support for S1000D ACT Catalog data modules

This version of Contenta S1000D includes support for the ACT Catalog DM added in S1000D Issue 4.1. An ACT Catalog DM facilitates the use of multiple ACT/PCT/CCT DMs within a project or organization by defining how product attributes in two or more ACT DMs (and by inference, products in PCT DMs) relate to one another. This functionality enables the

coordination of product attributes or conditions from multiple sources, defined as an integrator and one or more suppliers. The relationship between the integrator and supplier (s) is hierarchical, with the integrator at the higher level, and thus responsible for creating and maintaining an ACT Catalog DM.

An ACT Catalog DM is a top-level DM and is thus not directly referenced by any other module. It supports the following types of relationships between multiple ACTs or between multiple CCTs.

- Use of supplier product attributes or conditions in integrator DM applicability annotations. For example, the aircraft data provider (integrator) can express the applicability of some procedures depending on the engine model (where the engine model data is coming from a supplier).
- The ability to filter both integrator and supplier DMs by an integrator product attribute.

To enable this enhancement, the S1000D Publish tool has been modified as follows.

- If the CSDB contains an ACT Catalog DM with the same `modelIdentCode` as the PM's ACT DM, that ACT Catalog DM and additional referenced applicability DMs are exported along with other modules and graphics in the publication.
- When the user sets applicability for Publish, ACT Catalog information is displayed in the ACT/CCT tables and applied during applicability filtering.

See the *Publishing S1000D content* topic in the *Using Contenta S1000D* section of this documentation for more information about the changes to the S1000D Publish tool.

Also, the S1000D DDN Export tool may be optionally configured to include an ACT Catalog DM and additional referenced applicability DMs. See the *Exporting a DDN* topic in the *Using Contenta S1000D* section of this documentation for more information about using the DDN Export tool with an ACT Catalog DM.

Note: ACT Catalog-enhanced applicability filtering is currently available only in Contenta S1000D. To take advantage of this new functionality, when publishing to LiveContent S1000D you must set and apply applicability in the Contenta S1000D Publish UI, and not in the LiveContent S1000D IETM.

Support for SVGZ graphics

Contenta S1000D databases and tools have been enhanced to support SVGZ (compressed SVG) graphic files. To enable search of SVGZ graphics, add `svgz` to the hyphen-delimited list of object types available for Advanced Search in the `cw_searchObjectTypes` AppData setting under the **{Global} > content@web > Settings** path.

S1000D Publish to LiveContent S1000D enhancements

S1000D Publish now supports additional LiveContent S1000D features. If a user optionally selects any of these new options via S1000D Publish, those selections are passed to LiveContent S1000D.

The following enhancements were made to the LiveContent Settings section of the Contenta S1000D Publish user interface to support new features introduced in SDL LiveContent S1000D.

- A new drop down menu allows you to specify how titles are displayed in the IETM table of contents. You can select from the following options.
 - **TechName and InfoName** (the default)
 - **InfoName Only**
 - **TechName Only**
- A new drop down menu allows you to specify whether API results in an IETM will be returned in UTF-8 (the default) or ISO-8859-1 character encoding.

Important: Be sure to select **ISO-8859-1** when republishing an existing publication that uses that encoding.

- A new check box allows you to specify whether graphics and multimedia objects will be encrypted.
- The **CGM Viewer** UI option was removed from the standard LiveContent settings in the S1000D Publish user interface. By default, LiveContent S1000D uses the PTC IsoView viewer to display CGMs. However, you can still customize LiveContent S1000D to use a different CGM viewer if needed.

In addition, you can now specify a port other than the default of 2245 for LiveContent S1000D.

To enable these enhancements, a number of changes to the Contenta S1000D `PublishConfiguration.xml` and `PublishConfiguration_Unix.xml` configuration files were made, including the addition of a new `LiveContentPort` property, which is set to 2245 by default.

Remember: These customizable configuration files are delivered to the `distr` section of the Contenta hierarchy. Upgrade customers must merge previously customized configuration files with the delivered versions.

Security enhancements

Many of our third-party libraries were updated to recent versions to keep current and reduce security risks. In addition, as part of our Java security enhancements, our Java-based installers no longer leave a `JRE` on the file system. When running the uninstall program for some of our products, you must have a `JRE` on the system path that meets Contenta S1000D 5.7 minimum requirements (refer to our *Platform Requirements*). This requirement applies to Contenta S1000D and Contenta S1000D Editor Extensions.

Upload tool changes

A new tool, S1000D Upload Codes, has been added for uploading DMRL/CSV files (that is, codes). This tool interface contains links to the Define and Manage tools. The existing S1000D Upload tool has been modified to upload only files, and not codes (CSVs), and to remove links to the Define and Manage tools.

S1000D Upload and Check In enhancement

When uploading Issue 4.1 and later PMs and SCPMs, the S1000D Upload and XML editor Check In tools now extract `<brexDmRef>` tag contents into the new **Business Rules Reference** property sheet field, as they do for DMs.

Added Issue 4.2 support to SDL S1000D Foundation Suite

The SDL S1000D Foundation Suite has been updated to generate Issue 4.2 modules. The S1000D Foundation Suite is a separate product from Contenta S1000D that generates initial data modules (DMs) that can be uploaded into a Contenta S1000D CSDB. It simplifies the process of beginning a new Issue 4.0.1, 4.0.2, 4.1, or 4.2 S1000D project by creating all the starting-point data modules required for a new S1000D project, effectively defining the structure of the project.

For further information about this enhancement, refer to “Using the SDL S1000D Foundation Suite” on page 0 in the Contenta S1000D documentation.

Contenta S1000D new database changes

The default language for new Contenta S1000D databases has been changed to United States English (EN-US). Previously, the default was United States Simplified Technical English (SX-US). The Contenta S1000D database `.dmp` files and default AppData settings reflect this change. In addition, new database templates for S1000D Issues 4.0 and later are delivered with the default language set to EN-US.

New customers must use `dbimport` to import the appropriate `s1000d.dmp` file, which is located at:

- `Contenta_home/S1000D_samples/databases/Contenta57_MSSQLServer_database`
- `Contenta_home/S1000D_samples/databases/Contenta57_Oracle12c_database`

Contenta S1000D database upgrade changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.7. If you are upgrading from a release earlier than 5.5, contact SDL Professional Services at <mailto:ProServRequest@sdl.com> to discuss upgrade services for your implementation.

- A new object type, SVGZ (based on the Graphic object type) is created.
- The **MIME Type** property sheet field for SVGZ objects has been set to `image/svg+xml`.

- A **New SVGZ** creation tool has been added to the Container, Group, Model, SystemDifferenceCode, System, Subsystem, Subsystem, Project, ContentRoutingProject, and Dispatcher objects.
- The *mimetypeMappings* AppData setting has been updated to add a Name/Value pair with Name set to `image/svgz+xml` and Value set to `.svgz`.

Note: The MIME type for SVGZ files is `image/svgz+xml` instead of `image/svg+xml` because the latter MIME type is already associated with the `.svg` file extension and cannot be used more than once in this context.

- A new property sheet field has been added to DModule, PModule, and SCORMContentPackage objects. Field name: **Security DerivativeClass RefId**.
- A new property sheet field has been added to PModule and SCORMContentPackage objects. Field name: **Business Rules Reference**.

Important: You must have a recent backup of your CSDB before upgrading it to Contenta S1000D 5.7.

For customers upgrading from Contenta S1000D version 5.6, there is no Contenta core database upgrade program; customers upgrading from previous versions must run the Contenta `upgrade_56` database program before running the Contenta S1000D `upgrade_S1000D_57.pl` database program to upgrade their Contenta S1000D databases.

Platform changes

Contenta S1000D 5.7 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.7

Contenta S1000D 5.7 added support for a number of software components.

Operating Systems

- Microsoft Windows 2016 Standard 64-bit server

Web and Application Servers

- Microsoft IIS 10.0 with ARR protocol (on Windows 2016)
- Apache Tomcat 9.0.14 64-bit

Database Servers and Clients

- Oracle 12c version 12.2.0.1, 64-bit server (Enterprise or Standard) and 32-bit client
- Oracle 12c version 12.1.0.2, 64-bit server (Enterprise or Standard) and 32-bit client

Java

- Oracle JDK 11.0.1 64-bit
- Oracle Java JRE 1.8_192 64-bit
- AdoptOpenJDK with Hotspot JRE 1+28 64-bit

Perl

- Strawberry Perl 5.28 for Windows
- CPAN Perl 5.28 for Linux

Web Browsers

- Mozilla Firefox ESR 60.3 (32-bit and 64-bit)

Miscellaneous

- Slicwave 5.3 SP7

Deprecated items in Contenta S1000D 5.7

This topic lists platform support that has been deprecated in Contenta S1000D 5.7.

The following software is deprecated.

Operating Systems

Windows 2012 R2 (64-bit) Server

Java

Oracle Java 8 (64-bit)

Editing Tools

PTC Arbortext Editor 7.0 64-bit

Items no longer supported in Contenta S1000D 5.7

This topic lists software that is no longer supported in the Contenta S1000D 5.7 release. If you use any of these software components, upgrade to a supported version before your upgrade to Contenta S1000D 5.7.

Operating Systems

- Microsoft Windows 8.1

Web Servers

- Apache Tomcat 8.0.x

Database Servers and Clients

- Oracle 11

Java

- Oracle JRE 8 (32 bit)
- Oracle JRE 7 (32 bit)

Perl

- Strawberry Perl 5.26 for Windows
- CPAN Perl 5.16 for Linux

Web Browsers

- Mozilla Firefox ESR 52.x

Editing Tools

- PTC Arbortext Editor 7.0 (32-bit)

What's new and changed in SDL Contenta S1000D 5.6

This section describes new features, feature enhancements and other changes in the 5.6 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.6

This section lists features and enhancements that were introduced in Contenta S1000D 5.6.

Support for multiple languages

Contenta S1000D common source databases (CSDBs) now support content in multiple languages, enabling you to store multiple, language-specific versions of S1000D modules. A new object type, *LanguageCountry* and several new AppData settings have been created to enable this functionality. In new Contenta S1000D databases, these AppData settings support multiple languages by default, which means that, for example, Upload will add language-country codes to names of S1000D modules in the CSDB, and DDN Export will add language-country codes to filenames of exported S1000D modules. This default may be changed if, for example, this database will always be a single-language database and you do not want this default behavior.

S1000D modules in a multi-language CSDB typically will be written in one language, called the source language, and then translated into as many other languages as needed. Contenta S1000D 5.6 supports one source language per CSDB and supports uploading codes (CSV files), defining codes (Define DMRL), and creating from template (via Manage DMRL) in the source language only.

Important: Before starting to use your new or upgraded Contenta S1000D 5.6 CSDB, check the three new AppData settings under {Global} > Settings > CaS_Languages and modify them as needed per the following guidelines.

- New customers:
 - The *supportMultipleLanguages* setting is set to *yes* by default. Unless you have a compelling reason not to, keep this set to *yes* so that your CSDB will be well-positioned for multi-language support now or in the future.
-
- Important:** The next two settings are ignored if *supportMultipleLanguages* is set to *no*.
-
- Change the *sourceLanguageCountryCode* setting if the source language-country for your CSDB is not the S1000D default of *SX-US*, where *SX* is the language code for Simplified Technical English. Example language-country codes: EN-US, FR-FR, PT-BR
 - The *includeLanguageCountryCodeInSourceObjectNames* **setting is set to** *yes* by default. Keep this set to *yes* so that all DM and PM names in your new CSDB will include language-country codes as part of their names.
- Upgrade customers:
 - The *supportMultipleLanguages* setting is set to *no* by default. If you plan to support S1000D modules (DMs and PMs) in additional languages in your CSDB now or in the future, change this setting to *yes*.

Important: The next two settings are ignored if *supportMultipleLanguages* is set to `no`.

- Change the *sourceLanguageCountryCode* setting if the source language-country for your CSDB is not the S1000D default of `SX-US`, where *SX* is the language code for Simplified Technical English. Example language-country codes: `EN-US`, `FR-FR`, `PT-BR`
 - The *includeLanguageCountryCodeInSourceObjectNames* setting is set to `no` by default. This value must be kept set to `no` in upgrade CSDBs, which already contain DMs and PMs whose names do not include the source language-country code. If you would like to convert your CSDB so existing DM/PM names can include the source language-country code, contact SDL Professional Services for assistance.
-

In addition, the following Contenta S1000D tools have been enhanced for multi-language support.

- Upload
- Define and Manage tools
- Contenta drop down tools in Arbortext Editor
- Check-in
- LiveContent Preview
- DDN Export
- Validate
- PM Builder
- Publish

Any CSV file to be uploaded must now contain Language and Country as its last two columns, even if these columns contain no values. For S1000D issues 4.0 and later, the CSV file must contain 20 columns; for pre-4.0 issues, the file must contain 18 columns. The sample files delivered to the `Contenta_home/S1000D_samples/data` directory have been modified to include the Language and Country columns. In a CSDB that supports multiple languages, if the Language and Country columns are empty, the source language and country codes will be inserted into the S1000D database tables.

In multi-language CSDBs, DM/PM/SCPM hierarchies will contain a new LanguageCountry level for non-source-language modules. Source-language DMs will continue to be located in Subsystem folders, but DMs in other languages will be one level lower, in the appropriate LanguageCountry folder; for example, `FR-FR` or `PT-BR`. Source-language PMs and SCPMs will continue to be located in PMNumber folders, but PMs/SCPMs in other languages will be one level lower, in the appropriate LanguageCountry folder.

In all CSDBs (whether they support multiple languages or not), the LiveContent Preview user interface now additionally displays the Language-Country Code in the Task metadata if language and country markup is included in the DM's address in the **idstatus** or **identAndStatusSection**. A new **Language-Country Code** line is displayed beneath the **Data Module Code** line in the LiveContent Preview UI. A sample **Language-Country Code** value is `EN-US`.

For further information about this enhancement, see the *Contenta S1000D Database Upgrade Changes* section later in this topic, and the *Contenta S1000D User topics*.

S1000D Issue Support

Contenta S1000D now includes schema support for S1000D Issue 4.2.

Note: In Contenta S1000D 5.6, we deliver the following for S1000D Issue 4.2.

- schemas and Catalog files
- Arbortext Editor 7.0 style files
- data module templates

Note: In new Contenta S1000D 5.6 CSDBs, the Issue 4.2 templates are the default templates.

- SAMPLEBIKE data
 - a sample DMRL/CSV file
 - PubManager sample/template objects
-

Support for Issue 4.2 modules is provided throughout the Contenta S1000D tool set, from Upload to Publish, notably the following.

- Pass-through support for Issue 4.2 modules: Available in Upload, the Define and Manage tools, Arbortext edit (Checkout/Checkin), LiveContent Preview, DDN Export, Validate (References and BREX), PM Builder, and Publish.
- Additionally, Contenta S1000D tools support the following Issue 4.2 functionality.
 - Tools support uploading, creating from template, editing, and validating all 4.2 DM types, including the new *brDoc* DM type.
 - PM Builder may be used to create or update Issue 4.2 PMs. PM Builder also preserves optional Issue 4.2 markup in the `identAndStatusSection` and detects optional Issue 4.2 unsupported markup in the content section.
 - Validate BREX, PM Builder, and DDN Export recognize the Issue 4.2 default BREX DM, DMC-S1000D-F-04-10-0301-00A-022A-D, and reference it when needed.
 - The default DDN version in the DDN Export UI has been changed from Issue 4.1 to Issue 4.2.
 - Validate References recognizes and skips any references to chapters in the Issue 4.2 specifications—that is, *dmRefs* to DMs found only in the Issue 4.2 specification (not in customer CSDBs) in the 4.2 sample *brDoc* DM, DMC-S1000DBIKE-AAA-D00-00-00-00AA-024A-D.
 - Insert Reusable Component recognizes Issue 4.2 information codes for Warning CIR DMs (0A4) and Caution CIR DMs (0A5), and continues to recognize infocode 012 for either Warning or Caution CIRs.

Publish S1000D content to XPP using CSS

By default, Contenta S1000D now publishes content to XPP using Cascading Style Sheets (CSS) instead of XPP proprietary styles to create PDF output. This enhancement allows greater flexibility in the tools you can use to control document formatting and uses technology more familiar to many users than XPP styling functionality. To enable publishing using CSS, modifications have been made to Contenta S1000D publish configuration files, including the addition of a new configuration setting, *xppstyleType*, which controls whether CSS or XPP proprietary styles are used to format output. An additional sample data set using CSS has been delivered with this release.

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*.

If you previously used XPP proprietary styles to publish content from Contenta S1000D to XPP, see *Switching to CSS for publishing to XPP for PDF output* for information about configuring Contenta S1000D to use CSS.

Publish S1000D content to XPP using Direct-to-PDF to create PDFs

To support publishing very large S1000D publications to XPP, changes have been made to XPP software, S1000D XPP style files (job tickets), the S1000D Publish tool, and S1000D publish configuration files.

- Prerequisites:
 - XPP 9.2, or XPP 9.1 with the latest patches, is required when publishing from Contenta S1000D 5.6 to XPP.
 - Contenta S1000D customers who publish to XPP need a new license file that includes the XPP Direct-to-PDF feature.
- The XPP library-level job tickets for S1000D Publish have been modified to increase the *Max Number of Pages* value. The updated job ticket files are available in the delivered *s1000dstyles.zip* and *s1kdXppCssStyles.zip* files and must be copied to the XPP server, into the *LS1000d* and *LS1kd_css* style libraries respectively.
- The S1000D Publish tool now uses XPP's *divpdf* program instead of its *psfmtdrv* program to create PDFs as efficiently as possible. Therefore, the *xppPsfmtdrv1* setting in the delivered publish configuration files has been replaced with a new *xppDivpdf1* setting. Upgrading customers who publish to XPP must update their publish configuration files accordingly.

Documentation enhancement

As of this release, Contenta S1000D documentation is available on the SDL Documentation Center at “<https://docs.sdl.com/SDLCAS510>” on page 0. This enhancement gives you access to the latest, most up-to-date information about installing, upgrading, managing, using, and extending Contenta S1000D. The Documentation Center includes a downloadable .zip file (“Contenta S1000D full documentation download as HTML” on page 0) containing the full product documentation in HTML format, which you can provide to users without internet access.

Contenta S1000D Database upgrade changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.6. If you are upgrading from a release earlier than 5.2, contact SDL Professional Services at <mailto:ProServRequest@sdl.com> to discuss upgrade services for your implementation.

Note: The Contenta S1000D 5.6 database upgrade is supported for Oracle only.

- New *language* and *country* columns have been added to S1000D database tables as needed.
- New object type *LanguageCountry* has been added with the following properties.
 - Object type name: LanguageCountry
 - Object type template: Document
 - Icon name: Group
 - Can be created by: Subsystem, UnitorAssembly, PMNumber, Project, ContentRoutingProject, Dispatch (in BASE_TOOLS, ProjMan, and SysAdmin tool boxes).
 - Can create: DModule, PModule, SCORMContentPackage, PubManager
- The Contenta S1000D 5.6 database upgrade adds 21 Issue 4.2 templates to the CSDB under `s1000d/Templates/4.2`, including a template for the *brdoc* DM type added in S1000D Issue 4.2.
- New AppData settings have been added.
 - New key *brdoc* added under `{Global} > Document Types`. The keys and values that exist under all document types to facilitate Checkout, Checkin, and Edit have been added under this key.
 - New key *CaS_Languages* added under `{Global} > Settings`.
 - New name/value pairs under `{Global} > Settings > CaS_Languages`.
 - *supportMultipleLanguages* (default value = `no` in an upgraded Contenta S1000D CSDB, and `yes` in a new CSDB)
 - *sourceLanguageCountry Code* (default value = `sx-us`, where *sx* is the language code for Simplified Technical English)
 - *includeLanguageCountry CodeInSourceObjectNames* (default value = `no` in

upgraded Contenta S1000D CSDBs, and `yes` in new Contenta S1000D CSDBs)

- The following AppData settings have been modified.
 - Under the key, `{global} > Settings > Display`, the Language ISO Code and Country ISO Code properties have been added to `listViewPropertyFields`.
 - Under the key, `{global} > DB Schema`, the `ContentaS1000D` value has been updated to `CaS_5.6`.
- The Issues 3.0, 4.0, and 4.1 template PubManager objects in the **Publication Management** container in the CSDB have been updated for multi-language support. A new Issue 4.2 template PubManager object has been added, and multi-language templates for EN-US have been added for each issue.

Upgrade customers must first run the Contenta database upgrade program, `upgrade_56`, and then run the Contenta S1000D database upgrade program, `upgrade_s1000d_56.pl`, to upgrade their Contenta S1000D databases. New customers must dbimport the appropriate `s1000d.dmp` file, which is located at one of the following locations.

- `Contenta_home/S1000D_samples/databases/Contenta56_Oracle11g_database`
- `Contenta_home/S1000D_samples/databases/Contenta56_Oracle12c_database`

Platform changes

SDL Contenta S1000D 5.6 includes several changes to platform support.

Newly supported items in Contenta S1000D 5.6

SDL Contenta S1000D 5.6 added support for a number of software components.

Application Servers

Tomcat 8.0.46 (32-bit)

Web Browsers

- Firefox ESR 52.4.1 (32-bit or 64-bit)

Editing Tools

- Arbortext Editor7.0 M50 or later (64-bit)

Miscellaneous

- Microsoft Visual C++ 2015 Redistributable Package
- OmniMark 10.1.2
- Oracle JRE 1.8.0_151 (32-bit)
- Oracle JRE 1.7.0_80 (32-bit)

- Strawberry Perl 5.26 (Windows only)
- Reprise License Manager 12.2

Deprecated items in SDL Contenta S1000D 5.6

This topic lists platform support that has been deprecated in the 5.6 release of SDL Contenta S1000D.

The following software is deprecated.

Database Servers

- Oracle 11

Editing Tools

- JustSystems XMetaL 8

Items no longer supported in SDL Contenta S1000D 5.6

A list of software that is no longer supported in the 5.6 release. If you use any of these software components, upgrade to a supported version before your upgrade to SDL Contenta S1000D 5.6.

Operating Systems

- Microsoft Windows 7

Editing Tools

- Adobe FrameMaker 10
- Arbortext Editor 6.1

Miscellaneous

- ActiveState Perl 5.16

What's new and changed in SDL Contenta S1000D 5.5.2

This section describes new features, feature enhancements and other changes in the 5.5.2 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.5.2

Contenta S1000D 5.5.2 is a rollout of patches and includes no new features or enhancements.

Platform changes

SDL Contenta S1000D 5.5.2 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.5.2 added support for a number of software components.

Web browsers

- Mozilla Firefox ESR 52.6.0

Miscellaneous

- Oracle JRE 1.8.0_161 32-bit

Deprecated items

This topic lists platform support that has been deprecated in the 5.5.2 release of SDL Contenta S1000D.

- No software is deprecated in this release.

Items no longer supported

This topic lists software that is no longer supported in the 5.5.2 release.

- No software is de-supported in this release.

What's new and changed in SDL Contenta S1000D 5.5.1

This section describes new features, feature enhancements and other changes in the 5.5.1 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.5.1

This section lists features and enhancements that were introduced in Contenta S1000D 5.5.1.

Improved Perl API

This service pack contains a streamlined Perl API for increased stability and performance.

Support for 64-bit Arbortext Editor 7.0.1

Contenta S1000D now supports 64-bit Arbortext Editor version 7.0.1, allowing you to take advantage of that application's latest features. Some post-installation setup is required to enable this enhancement. For more information, see the *SDL Contenta and Contenta S1000D 5.5.1 Service Pack Installation Guide*.

Contenta S1000D Database Upgrade Changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.5.1.

No database upgrade is required for the Contenta 5.5.1 service pack. See the *SDL Contenta S1000D 5.5 Release Notes* for more information on required database upgrades.

Platform changes

SDL Contenta S1000D 5.5.1 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.5.1 added support for a number of software components.

Editing Tools

- Arbortext Editor 7.0 M10 or higher (64-bit)

Deprecated items

This topic lists platform support that has been deprecated in the 5.5.1 release of SDL Contenta S1000D.

- No software is deprecated in this release.

Items no longer supported

This topic lists software that is no longer supported in the 5.5.1 release.

- No software is de-supported in this release.

What's new and changed in SDL Contenta S1000D 5.5

This section describes new features, feature enhancements and other changes in the 5.5 release of SDL Contenta S1000D.

New features and enhancements in Contenta S1000D 5.5

This section lists features and enhancements that were introduced in Contenta S1000D 5.5.

Important: A new license file is required for the upgrade to Contenta S1000D version 5.5

Publish S1000D content to a third-party output format

In addition to publishing S1000D content to LiveContent S1000D or XPP, you can now publish S1000D content to a third-party output format (IETP viewer or PDF publishing engine), or to the file system.

Complementing the existing outputs in the **Format** section of the **Contenta S1000D Publish UI (PDF 8.5x11, PDF A4, and LiveContent)** is the new **Contenta to File System** output format, which lets you to publish S1000D modules and graphics from the Contenta CSDB to the file system, pre-process them (resolve references, apply applicability, and so on), optionally call a Perl script to perform additional actions, and optionally zip up the publish export directory.

You may add additional output formats similar to the **Contenta to File System** output format to publish to a third-party IETP viewer or third-party PDF publish engine by copying the delivered `s1000d_PublishFromFileSystem.pl` sample Perl script and saving it as to a new name, adding custom actions to it, or executing a program in a different language such as Java.

See Chapter 9 "Publishing S1000D Content" in the *SDL Contenta S1000D User Guide* for detailed instructions.

Publish Incremental Changes to IETPs

You can now update an existing IETP by publishing a change package containing only those objects that have changed. To support this functionality, a new **PubManager** object type has been added to the Contenta CSDB along with sample PubManager templates for Issues 3.0, 4.0, and 4.1. You create a **PubManager** object for each change package to list its contents and required metadata; this information is stored in XML conforming to a new *pubManager* schema delivered with Contenta S1000D. The S1000D Publish tool has been enhanced to allow you to select a change package to be applied to the PM and whether you want to optimize publish for size or speed. See the Publishing chapter in the Contenta S1000D User Guide for detailed information.

Exclude source XML from an IETP

When publishing from Contenta S1000D to LiveContent S1000D, you can now exclude the source XML from an IETP. To enable this functionality, a new LiveContent S1000D configuration property, *LiveContent_IncludeSourceXmlInIetmDeliverable* has been added to the Contenta S1000D publish configuration file. Set the value of this property to `false` to publish an IETP without its source XML. This property must be set to the same value (`true` or `false`) when performing a full publish as it is when performing an incremental update; that is you can exclude the XML source for an incremental update only if the full IETP has been published without it. The default value for this setting is `true`.

S1000D Publish change to Publications list

If the user selects a PM before running publish, the Publications list contains only the selected PM. To see a list of all PMs in the CSDB, select a Configuration before running publish.

S1000D Publish Export Directory naming enhancement

The S1000D Publish export directory name now includes the Publication Module issue number and issue date. The following lists examples of both old and new names.

- Old name:
`PMC-SAMPLEBIKE-XYENT-00041-02.20160630111213-12345`
- New name:
`PMC-SAMPLEBIKE-XYENT-00041-02-001-20010130.20160630111213-12345`
where 001 is the issue number, and 20010130 is the year, month, and day in the issue date.

Using S1000D Upload to import Word, Excel, and PowerPoint files into the CSDB

You can now use the S1000D Upload tool (instead of the Dynamic Import tool) to import Word, Excel, and PowerPoint files into your Contenta S1000D databases (CSDBs). This lets you store auxiliary or supporting information such as costing spreadsheets, lists of tasks to be completed, and business rules.

Both older and current file types are supported:

Application	Current file type	Legacy file type
Word	.docx	.doc
Excel	.xlsx	.xls
PowerPoint	.pptx	.ppt

The **MIME Type** property field is set based on the file extension of the file being uploaded. See the "AppData settings for SDL Contenta S1000D tools" topic in the *SDL Contenta S1000D User Guide* if you want to view the MIME types that have been set for each type of file.

Contenta clients include the following support for imported Word, Excel, and PowerPoint objects:

SDL Contenta Web	SDL Contenta Explorer
Content Check In	Check Out
Content Check Out	Check In
Content Fetch	Edit <editor>
Content View	Edit With <editor>
	View <editor>
	View With <editor>

Once imported, Word, Excel, and PowerPoint objects will reside in the appropriate sub-containers of the **Other Docs** container of the **Configuration**.

Attention: Also included in the **Other Docs** container are uploaded ZIP objects, which had previously resided in the **Graphics/ZIP** container. You should move any ZIP objects in the **Graphics/ZIP** container to the **Other Docs/ZIP** container.

DDN Export Support for Referenced Objects

DDN Export has always let you create a DDN package that includes the DMs, PMs, SCPMs, and graphics that you dragged into a **Dispatcher** object, as well as a DDN XML file generated by DDN Export. You now have the option of additionally including objects that are referenced by the objects that you dragged into the **Dispatcher** object. You may include referenced modules or graphics or both, locked or not, searched for recursively or not. DDN Export also creates a new referenced object log file that reports each object that was exported as well as any objects that are missing or inaccessible (such as objects in a configuration that is not on your desktop).

This enhanced capability lets you easily:

- Reuse DMs into your **Dispatcher**, and also include the graphics referenced by those DMs.
- Reuse a PM into your **Dispatcher**, and export the entire publication by including referenced, nested PMs, DMs, and graphics recursively.

See Chapter 6, "Working with DDNs" in the *SDL Contenta S1000D User Guide* for more information.

Changes to Contenta S1000D Upload Functionality

Contenta S1000D now uses HTML5 to support upload functionality and no longer relies on an applet. DDNs can no longer be uploaded directly; instead, you must manually upload the objects in a DDN. To do so, navigate to the folder on your file system containing the DDN whose contents you want to upload, and drag the files (excluding the DDN XML file) onto the box in the Upload UI.

Previously, DDN upload functionality included an option, **Unlock objects associated with this DDN**, which allowed you to unlock any locked objects associated with the DDN being uploaded. Because direct upload of a DDN is no longer supported, you must now manually unlock any such objects in Contenta Web or Contenta Explorer.

For further information about uploading the contents of a DDN, refer to the *SDL Contenta S1000D User Guide*.

Contenta and Contenta S1000D Java API and Web Services API

Contenta Web now uses the Contenta Java API instead of COM or CORBA API. Contenta CORBA API is desupported and Contenta COM API is deprecated as of this release.

For further information about the Contenta and Contenta S1000D Java and WS APIs, refer to the *SDL Contenta 5.5 Release Notes* and the following API reference documents:

- *SDL Contenta and Contenta S1000D Web Services API Programmer Guide*
- *SDL Contenta and Contenta S1000D Perl Java API Wrapper Programmer Guide*

Contenta S1000D Database Upgrade Changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.5.

- A new object type, **PubManager**, has been added:
 - Object type name: PubManager
 - Object type template: PModule
 - Icon name: PModule
 - Can be created by: Container, Project, ContentRoutingProject, Model, Issuer, PMNumber
- The default value for the *Document Type* property on PubManager objects is `pubManager`.

The following new **PubManager** properties have been added:

- Change Package Name
- Change Package Issue Number
- Change Package Start Date
- Full Revision Issue Number
- A new document type, **pubManager**, has been added in **AppData** along with the keys and values required for editing in Arbortext Editor using the PM versions of Contenta S1000D adapters.
- A new top-level container object, **Publication Management**, has been added to the **S1000D** configuration. This container follows a hierarchy structure parallel to that of the existing **Publication Modules** container (Model > Issuer > PMNumber), except that the PMNumbers in this new hierarchy contain **PubManager** objects (instead of PMs).
- The following **PubManager** object templates are delivered in the **Publication Management** container:
 - PubMan-SAMPLEBIKE-XYENT-00030-01_002
 - PubMan-SAMPLEBIKE-XYENT-00040-01_002
 - PubMan-SAMPLEBIKE-XYENT-00041-01_002
- Container, Project, and ContentRoutingProject objects can now create Excel, PowerPoint, and Word objects.
- Dynamic Import client and web tools have been removed from the **Excel**, **PowerPoint**, **Word**, and **ZIP** objects.
- The following MIME types have been added to **AppData**:
Key: {Global} > mimetypeMappings:
 - Name: application/vnd.openxmlformats-officedocument.wordprocessingml.document, Value: .docx
 - Name: application/vnd.openxmlformats-officedocument.presentationml.presentation, Value: .pptx
 - Name: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet, Value: .xlsx
- The value for the Contenta S1000D database schema version **AppData** setting has been changed to CaS_5.5:
Key: {Global} > DB Schema:
 - Name: ContentaS1000D
 - Value: CaS_5.5

Upgrade customers must first run the Contenta **upgrade_55** database program, then run the Contenta S1000D **upgrade_s1000d_55.p1** database program to upgrade their Contenta S1000D databases. New customers must **dbimport** the appropriate **s1000d.dmp** file, which is located at:

- *Contenta_home/S1000D_samples/databases/Contenta55_MSSQLServer_database*
- *Contenta_home/S1000D_samples/databases/Contenta55_Oracle11g_database*
- *Contenta_home/S1000D_samples/databases/Contenta55_Oracle12c_database*

Platform changes

SDL Contenta S1000D 5.5 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.5 added support for a number of software components.

Operating Systems

- Red Hat Linux 6.8 (64-bit)

Database Servers

- Oracle12c (12.1.0.2) 64-bit server, 32-bit client

Web Browsers

- Mozilla Firefox 46 (32-bit for Windows, 64-bit for Linux)

Editing Tools

- Arbortext Editor 7.0 M10 or higher (32-bit)
- Arbortext Editor 6.1 M080 or higher (32-bit)

Miscellaneous

- Oracle JRE 1.8.0_92 (32-bit)
- Oracle JRE 1.7.0_80 (32-bit)
- Reprise License Manager 11.3

Deprecated items

This topic lists platform support that has been deprecated in the 5.5 release of SDL Contenta S1000D.

The following software is deprecated:

- Oracle 11 database server (Windows and Linux)
- COM API

Note: For information about the deprecation of COM API, refer to the *SDL Contenta 5.5 Release Notes*.

Items no longer supported

A list of software that is no longer supported in the 5.5 release. If you use any of these software components, upgrade to a supported version before your upgrade to SDL Contenta S1000D 5.5.

Operating Systems

- Microsoft Windows 8 (version 8.1 is still supported)
- Red Hat Linux 5

Database Servers

- Microsoft Windows 2008 R2 (64-bit) Server

App Servers

- Apache Tomcat 7
- Microsoft IIS 7.5

Web Browsers

- Internet Explorer 10
- Internet Explorer 9

Editing Tools

- Arbortext Editor 6.0

Miscellaneous

- Oracle 11 client for Linux
- MKS Nutcracker (all versions)
- Xming X Window Server (all versions)

Note: MKS Nutcracker and Xming X Window Server are no longer installed with Contenta. For further information, refer to the *Contenta 5.5 Release Notes*.

What's new and changed in SDL Contenta S1000D 5.4

This section describes new features, feature enhancements and other changes in the 5.4 release of SDL Contenta S1000D.

Important: SDL Contenta S1000D 5.4 is independent from core SDL Contenta; therefore, there is no corresponding core SDL Contenta 5.4. Customers must install or upgrade to SDL Contenta 5.3 prior to installing or upgrading to SDL Contenta S1000D 5.4.

If you are using Microsoft SQL Server, SDL Contenta 5.3 patches are required prior to upgrading to SDL Contenta S1000D 5.4. Please open a [support](#) ticket to request patch delivery.

New features and enhancements in Contenta S1000D 5.4

This section lists features and enhancements that were introduced in Contenta S1000D 5.4.

Extended XML Editor Support

In addition to the Arbortext Editor plug-in, Contenta S1000D provides Check Out and Check In support for any XML editor that you want to use, when accessed from the Contenta Web client. These new web tools are called **Check Out** and **Check In**, and they are available for DMs, PMs, and SCPMs. Your Contenta Administrator should add these tools to the appropriate tool boxes, with a more intuitive name (such as **XMLSpy Check Out** instead of just **Check Out**).

Your Contenta administrator must also configure two AppData settings to specify the path of the XML editor, and whether to automatically launch it.

For more information, see Chapter 3, "Configuring SDL Contenta S1000D" in the *Contenta S1000D Installation and Upgrade Guide*.

Microsoft SQL Server 2012 Support

Contenta S1000D is fully supported and tested on the 64-bit Microsoft SQL Server 2012 platform. Microsoft SQL Server 2012 is supported for new Contenta S1000D databases only. We do not provide migration for existing Contenta S1000D Oracle databases.

Web Services API

To aid application developers who develop and deploy custom tools, we provide the fully-documented RESTful Web Services API. With security in mind, this conversational API accepts the connection URL using the POST method, and it supports SSL and HTTPS.

The foundation of the Web Services API is built upon the new Pure Java API. This Web Services API provides methods for both core Contenta and Contenta S1000D, and methods specific to Contenta S1000D. The core Contenta methods provide a large percentage of the functionality provided in the Contenta Tools API that exists today. Perl wrappers provide a migration path for tools in use today that use the COM or CORBA APIs. The Contenta S1000D Web Services methods provide access to Data Module (DM) import and export, as well as

listing the DMs in the repository.

Note: The use of Perl wrappers are limited to early adopters in the 5.4 release. Perl wrappers will be available for general use in the 5.5. release.

See the *SDL Contenta and Contenta S1000D Web Services Programmer's Guide* for more information:

Pure Java API

The Pure Java API provides the same functionality as the COM and CORBA APIs do today. The Pure Java API is used as the foundation for the Web Services API.

Note: The use of the Pure Java API is limited to early adopters in the 5.4 release. It will be available for general use in the 5.5 release. The Contenta Web client will also use the Pure Java API rather than the COM or CORBA API in the 5.5 release.

SDL S1000D Foundation Suite

The purpose of the Foundation Suite is to make the process of beginning a new Issue 4.0.1, 4.0.2, or 4.1 S1000D project easy. Use the SDL S1000D Foundation Suite to generate all of the starting-point data modules (DMs) that are required for a new S1000D project (no more or fewer than required), which effectively defines the structure of your project. The Foundation Suite guides you through a project's start-up tasks, including pre-requisite components, for each project. The Foundation Suite includes

- An interface where you supply your site's boilerplate material (such as export information) for the *identAndStatusSection* of the Data Module (DM). This boilerplate material is included in each DM that you generate within the suite.
- Spec-defined information codes (and variants) to be used as a starting point.
- Standard Numbering System. You select one SNS from a list of available SNSs to be used as a starting point.
- An interface where you can build information sets (infocode + infoname + schema) for each publication.
- Interfaces to generate applicability data modules (ACT, PCT, CCT) for the S1000D project.
- An interface to generate DMs for the new S1000D project, where each DM is associated with one or more publications.
- Extensive **.chm** (Microsoft Compiled HTML Help) topics for each interface.

After being created with the Foundation Suite, generated DMs can be uploaded and managed in Contenta S1000D.

Note: The Contenta S1000D installer automatically installs the Foundation Suite on the client in the *Contenta_HOME\encaps\S1000D\FoundationSuite* directory.

- To launch the application, double-click on **SFS.exe**.

1 New features and enhancements

- To access documentation, double-click on the `SFS-Help.chm` file.
The Foundation Suite documentation can also be accessed from the **Help** menu (in Foundation Suite).
-

Because the Foundation Suite requires that each generated DM be associated with one or more publications, it adds one or more **systemBreakdownCode** tags to the DM's *identAndStatusSection*. DMs are built one at a time, with you selecting or modifying the publication, SDC, export control (CAGE code), item location code, DMC, and DM title.

The SDL S1000D Foundation Suite is intended to be used by a single user, and it supports one S1000D project per S1000D issue (spec rev) per instance. Therefore, in a given instance of Foundation Suite you may only build data modules for one S1000D project, and in one spec rev. If you need to start up another S1000D project, you must re-install the Foundation Suite into a different location for the next project. If you are using Foundation Suite delivered with Contenta S1000D and you anticipate starting up more than one S1000D project, make a copy of the `Contenta_home/encaps/S1000D/FoundationSuite` folder before you begin using Foundation Suite.

Foundation Suite as a standalone product

The Foundation Suite is also available as a separate, purchasable, stand-alone option. If you are using the Foundation Suite as a standalone product (without Contenta S1000D), after you extract the program and double click on `SFS.exe` for the first time, you will be prompted to provide a Product Key. Contact [SDL Customer Support](#), open a support ticket, and provide your Generator Key to obtain your Product Key.

By default, data modules created by the Foundation Suite use the S1000D schemas on the s1000d.org website. If you do not have Internet access, the installation includes S1000D schemas for Issues 4.0.1, 4.0.2, and 4.1, along with a Catalog file for each issue. You will need to point your XML editor to the Catalog file that matches the S1000D spec rev of your new S1000D project before you will be able to make further edits to the data modules created by the Foundation Suite. Point your XML editor to one of the following Catalog files:

- `<FoundationSuite-installation-folder>/Sources/S1000D_4-0-1/XSD/Catalog`
- `<FoundationSuite-installation-folder>/Sources/S1000D_4-0-2/XSD/Catalog`
- `<FoundationSuite-installation-folder>/Sources/S1000D_4-1/XSD/Catalog`

Note: The Foundation Suite does not require special licensing when provided as part of Contenta S1000D; it can, however, also be purchased as a standalone (separate from the Contenta S1000D) product, which does require a license.

For tool usage information, click **Help** in Foundation Suite to access the online `.chm` help file.

SLICwave LSAR Integration

Contenta S1000D provides integration with the Logistics Support Analysis Record (LSAR) product from ISS SLICwave. This lets technical authors and LSAR system maintainers keep technical manuals synchronized by performing the following functions:

From <i>Contenta S1000D</i>	From SLICwave
With a DM open in Arbortext Editor, fetch its content section from the LSAR system	Notify a CSDB technical author via email that a DM is ready to release
Compare the XML of the DM being edited with the same DM in the LSAR system, allowing the user to copy and paste desired changes into the DM being edited (in Arbortext Editor)	Preview a DM
Notify the LSAR maintainer via email that a DM in the CSDB is ready to be released to the LSAR system	List ICNs in the CSDB
Display the LSAR audit report	Import ICNs from the CSDB into the LSAR system

You access LSAR functions from the Arbortext Editor menu in Contenta Web. For more information, see the *Contenta S1000D/ISS SLICwave LSAR Integration Guide*.

Note: In this release, LSAR integration is for charter customers only. Contact the Contenta S1000D product manager for more information.

Contenta S1000D Database Upgrade Changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.4.

- For SLICwave LSAR audit integration—added a database table to both the Oracle and SQL Server database schemas.
- For extended XML editor support—added **Check In** and **Check Out** tools, which are attached to DModule, PModule, and SCORMContentPackage object types. Also added AppData settings under **{Global} > Settings > Editors > cw_xml_co**; they are named **customS1000DEditorPath** (value is empty for backwards compatibility) and **launchCustomS1000DEditor** (value is set to `no` for backwards compatibility).

Upgrade customers must run the Contenta S1000D database upgrade program, `upgrade_s1000d_54.pl`, to upgrade their Contenta S1000D databases. New customers must `dbimport` the appropriate `s1000d.dmp` file, which is located at:

- `<Contenta_home>/S1000D_samples/databases/Contenta54_MSSQLServer_database`
- `<Contenta_home>/S1000D_samples/databases/Contenta54_Oracle_database`

See the *Upgrading an Contenta S1000D Database* topic in Chapter 2, "Upgrading Contenta S1000D" in the *Contenta S1000D Installation and Upgrade Guide* for more information on upgrading your database.

Accessing Product Documentation

The Contenta S1000D product documentation is available in PDF format from the following sources:

- The Contenta Explorer and Contenta Web interfaces (click **Help > SDL Contenta Help**).
- The SDL Contenta S1000D documentation—including an Acrobat Catalog search index—is available as a .zip download from the following FTP Site:
`ftp://SDLdoc2:ReadTheDoc@ftp.sct.sdl.com/download`
Once you download the .zip file, and decompress it in a folder on your system, double-click `search_contenta_s1000d` in Acrobat Reader, and then search away.

Tip: In Acrobat Reader, press `Alt+` to retrace your search path.

Platform changes

SDL Contenta S1000D 5.4 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.4 added support for a number of software components.

Database Servers 64-bit Microsoft SQL Server 2012 SP2; 32-bit client

Web Browsers

- 32-bit Mozilla Firefox 40 on Microsoft Windows
- 64-bit Mozilla Firefox 40 on Red Hat Enterprise Linux

Miscellaneous

- Microsoft .NET Framework 4.0 or higher (required for SDL S1000D Foundation Suite)
- 32-bit Oracle JRE 1.7.0_79 and 1.8.0_60 (only the JRE is required for the SDL Contenta Web server)
- 32-bit Arbortext Editor 6.0 M120 or higher
- 32-bit Arbortext Editor 6.1 M080 or higher

Deprecated items

This topic lists platform support that has been deprecated in the 5.4 release of SDL Contenta S1000D.

The following software is deprecated:

- Microsoft Windows Server 2008 R2 64-bit
- Microsoft Windows 7 and 8
- Red Hat Enterprise Linux 5
- Microsoft Internet Explorer 9 and 10
- Apache Tomcat 7
- Microsoft IIS 7.5
- Apache HTTP Server 2.4
- Arbortext Editor 6.0
- Adobe Framemaker 10 (Contenta only)
- XMetaL Author 8.0 Enterprise Edition (Contenta only)

Items no longer supported

A list of software that is no longer supported in the 5.5 release. If you use any of these software components, upgrade to a supported version before your upgrade to SDL Contenta S1000D 5.5.

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What's new and changed in SDL Contenta S1000D 5.3

This section describes new features, feature enhancements and other changes in the 5.3 release of SDL Contenta S1000D.

New features and enhancements in SDL Contenta S1000D 5.3

This section lists features and enhancements that were introduced in SDL Contenta S1000D 5.3.

Reusable Components

SDL Contenta S1000D includes "author assist" capabilities, which can aid you with quickly locating reusable components and then reusing them in the Data Module (DM) that you are currently editing in Arbortext Editor. Contenta S1000D 5.3 provides enhanced support for five types of reusable components: warnings, cautions, support equipment, supplies, and spares.

To populate a reusable component repository in the CSDB with warnings, cautions, support equipment, supplies, and spares, in Arbortext Editor click **Contenta > Add Reusable Component to CSDB Repository**. To reuse/share Issue 4.1 warnings or cautions, edit the desired CIR DM and add these warnings or cautions, as appropriate. Once added to the CSDB repository, or to a CIR warnings/cautions DM, or to an internal warnings/cautions repository, these components can be inserted into a DM. In Arbortext Editor, click **Contenta > Insert Reusable Component**.

See Chapter 4, "Working with reusable components in the editor" in the *SDL Contenta S1000D User Guide* for more information on reusable components.

LiveContent Preview has been modified to resolve references to and display:

- warnings and cautions from Common Information Repositories (CIRs)
- warnings and cautions from internal repositories

The **S1000D Publish** tool resolves content references when you publish. When you check the **Get Latest Content** check box in the **S1000D Publish** tool interface (which is checked by default), this tool will also update reusable components, and report which data modules it updates. For example, these are sample lines from a publish log file:

```
[REF RESOLVE] Modified DMC-SAMPLEBIKE-AAA-D00-00-00-00AA-041A-A.xml
...
[COMPONENT UPDATE] Modified DMC-SAMPLEBIKE-AAA-D00-00-00-00AA-041A-A.xml
...
[COMPONENT UPDATE] Modified DMC-SAMPLEBIKE-AAA-D00-00-00-00AA-121A-A.xml
```

Formerly **S1000D Publish** reported how many files it modified but did not report the names of the modified files.

For more information, see the following topics in Chapter 9, "Publishing S1000D Content" in the *SDL Contenta S1000D User Guide*.

- *Publishing an IETP*
- *Publishing a PDF*

S1000D Publish

Added support for publishing directly from XPP Web Services.

Due to persistent issues occurring when using XPP Pub in a multi-user publish environment, **S1000D Publish** no longer uses XPP Pub to call XPP Web Services, but instead calls XPP Web Services directly. If you (or the SDL ProServ team) have customized the **S1000D Publish** tool for XPP output, there may be additional work required when you upgrade. You should contact SDL ProServ for an "upgrade analysis" service.

S1000D Object Layer

Added the `SystemDifferenceCode` object layer to the Contenta S1000D database hierarchy, visible in the tree view in Contenta Explorer and Contenta Web.

Added the `createSystemDifferenceCodeObjects` AppData setting to control whether to add the `SystemDifferenceCode` level to the S1000D hierarchy. For backward compatibility with existing databases, this is set to `no`; in a new S1000D database, is set to `yes`.

Data Module Type Mapping

Added support for associating a data module type (DM Type) with each data module code (DMC) right in a CSV file. You use the **setDMType** command from drop-down list (or the Action column). When you subsequently import the CSV file and create DM objects from templates, the correct template (DM Type) will be used.

- The DM Type for DMC entries in a CSV file is now associated with the DMC code (not the information code), and it is used to determine what object type to create when creating the object from a template.
- The **Manage DMRL and IRL** interface now shows the DM Type, in addition to other settings that are associated with a DMC. You can also set or change the DM Type associated with a DMC code in this interface.
- You can no longer use the **Define DMRL and IRL** interface to create objects from a template. You now use the **Manage DMRL and IRL** interface exclusively to create objects from templates.
- You can still set DM Types associated with Information Codes (IC); however, this DM Type is no longer used by any Contenta S1000D tools. It is retained for customization.

See the following topics in the *SDL Contenta S1000D User Guide*:

- Uploading a CSV File to Create S1000D Codes
- Adding MNS Codes
- Defining DMRL
- Creating DMs
- Manage DMRL and IRL
- Define DMRL and IRL

S1000D Issue Support

New schema support for SDL Contenta S1000D includes:

- Issue 4.0.2
- Issue 4.2

Note: We are supporting Issue 4.2 where it is backward compatible. We are not yet supporting any new or changed features of Issue 4.2 as it has not yet been released.

Contenta S1000D database upgrade changes

This section lists the changes made to your existing Contenta S1000D databases when you upgrade them to Contenta S1000D 5.3. You must run `upgrade_s1000d_53.pl` to realize these databases changes. See the *Upgrading an SDL Contenta S1000D Database* topic in Chapter 2, "Upgrading Contenta S1000D" in the *Contenta S1000D Installation and Upgrade Guide* for more information on upgrading your database.

- Added new database tables to the schema to support Reusable Components.
- Added the **Modify S1000D Reusable Data** system tool to support Reusable Components. To control access, the Contenta SysAdmin should assign this tool to other toolboxes, as needed.
- Added support for improved reporting on S1000D projects. A new property field named **Percent Complete** has been added to DModule, PModule, and SCORMContentPackage objects. This property field may then be manually completed by the user to indicate his or her progress when working in projects.
- Added support for displaying a large number of Data Module objects in a Contenta S1000D database. Data Module objects will now be indexed.
- Added support for **ContentRoutingProject** objects. This adds the **S1000D Publish**, **S1000D Upload**, and **S1000D Validate** tools to **ContentRoutingProject** objects, and allows **ContentRoutingProjects** to create the appropriate S1000D objects.
- Added the **SystemDifferenceCode** object, and the **createSystemDifferenceCodeObjects** AppData setting, to control whether to add the **SystemDifferenceCode** level to the S1000D hierarchy (in AppData, click **{Global} > Settings > CaS Upload > createSystemDifferenceCodeObjects**). For backward compatibility with existing databases, this is set to `no`; in new S1000D databases, this is set to `yes`. The following Contenta S1000D tools are impacted by the **CreateSystemDifferenceCodeObjects** AppData setting:
 - **S1000D Upload**—uploading DMs and ICN-based graphics
 - **S1000D Define DRML and IRL**—when the option to create a DM or ICN from the code is checked
 - **S1000D Manage DMRL and IRL**—when the create tool is selected for a DM or ICN

Note: Publication Module and SCORM Content Package uploads are not impacted by this setting.

Accessing Product Documentation

The SDL Contenta and SDL Contenta S1000D product documentation is available in PDF format from the following sources:

- The Contenta Explorer and Contenta Web interfaces (click **Help > SDL Contenta Help**).
- The SDL Contenta S1000D documentation—including an Acrobat Catalog search index—is available as a .zip download from the following FTP Site:
`ftp://SDLdoc2:ReadTheDoc@ftp.sct.sdl.com/download`
Once you download the .zip file, and decompress it in a folder on your system, double-click `search_contenta_s1000d` in Acrobat Reader, and then search away.

Tip: In Acrobat Reader, press `Alt+` to retrace your search path.

Platform changes

SDL Contenta S1000D 5.3 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.3 added support for a number of software components.

Web Browsers

- Mozilla Firefox 37

App Servers

- 32-bit Apache Tomcat 8
- Apache HTTP Server 2.4 (with corresponding mod_jk-1.2.x connector) on Red Hat Linux 5 and 6

Miscellaneous

- 32-bit Oracle Java 8 JRE (only the JRE is required for the SDL Contenta Web server)
- 32-bit Oracle Java 8 JDK
- 32-bit PTC Arbortext Editor 6.1
- Apache Solr search engine 4.10.3

Deprecated items

This topic lists platform support that has been deprecated in the 5.3 release of SDL Contenta S1000D.

The following software is deprecated:

- 64-bit Microsoft Windows Server 2008 R2

Items no longer supported

A list of software that is no longer supported in the 5.3 release. If you use any of these software components, upgrade to a supported version before your upgrade to SDL Contenta S1000D 5.3.

Operating Systems

- 32-bit OS support on Microsoft Windows 8 and 8.1, Red Hat Linux 5 and 6
- Microsoft Windows Server 2008 (all versions except R2 64-bit)
- Oracle Solaris (all versions)
- Microsoft SQL Server 2005

Web Browsers

- 32-bit Microsoft Internet Explorer 10 and 11 on Microsoft Windows 7 and 8
- Mozilla Firefox (all versions prior to 37)

App Servers

- Apache HTTP Server on Windows
- IIS 7.0
- 32-bit Apache Tomcat 6

Miscellaneous

- SDL LiveContent S1000D 4.0.4
- 32-bit Oracle Java 6
- Verity search engine (all versions)

What's new and changed in SDL Contenta S1000D 5.2

This section describes new features, feature enhancements and other changes in the 5.2 release of Contenta S1000D.

New features and enhancements in SDL Contenta S1000D 5.2

SDL Contenta S1000D 5.2 did not introduce any new features or functional enhancements, but a new setting in SDL Contenta 5.2 is of interest to SDL Contenta S1000D users.

New Contenta core AppData setting to restrict access to the Copy tool

In SDL Contenta 5.2, an optional AppData setting was added to be able to restrict access to the Copy tool. The Copy tool is always available for the `sysadmin` account. Refer to the section called "Disable Copy Tool" in the SDL Contenta Administration User Guide . SDL Contenta S1000D users can add this setting to prevent duplicate S1000D modules from being created in Contenta S1000D databases.

Platform changes

SDL Contenta S1000D 5.2 includes several changes to platform support.

Newly supported items

SDL Contenta S1000D 5.2 added support for a number of software components.

Operating systems

- Red Hat Linux 6.5 (for the Application Server and the Web Server)
- Microsoft Windows 2012 R2, 64-bit (for the Application Server and the Web Server)
- Microsoft Windows 8.1 (for the clients)

Internet browsers

Microsoft Internet Explorer 11 (32-bit and 64-bit)

Web server

Microsoft IIS 8.5 (with Windows 2012 R2, 64-bit)

Editing tools

JustSystems XMetaL 8

Java

Java release 1.7.0_51 is supported. SDL recommends upgrading to this release in order to prevent unnecessary security messages. Refer to the *SDL Contenta S1000D Installation and Upgrade Guide*, Chapter 1, "Installing SDL Contenta S1000D", section "Java Security Changes and Signed Applets: Pre-requisites and Setup" for more information.

Deprecated items

This topic lists platform support that has been deprecated in this release of SDL Contenta S1000D.

The following software is deprecated:

Operating systems

Sun Solaris

Web server

Apache HTTP Server 2.2.x with corresponding `mod_jk-1.2.x` with Apache Tomcat 6.0.x or Apache Tomcat 7.0.x, 32-bit on Microsoft Windows Web servers

XPP

The SDL Contenta S1000D Publish tool will deprecate the use of the SDL XPP Pub component with SDL Contenta S1000D 5.2. SDL Contenta S1000D 5.3 will deliver a streamlined Publish tool that leverages SDL XPP Web Services. Customers interested in obtaining this streamlined version sooner are encouraged to contact Professional Services as services will be required to implement this migration prior to SDL Contenta S1000D 5.3.

Items no longer supported

A list of software that is no longer supported in the 5.2 release. If you use any of these software components, upgrade to a supported version before your upgrade to SDL Contenta S1000D 5.2.

Editing tools

XMetaL 6

What's new and changed in Contenta S1000D 5.1

This section describes new features, feature enhancements and other changes in the 5.1 release of Contenta S1000D.

New features and enhancements in SDL Contenta S1000D 5.1

Contenta S1000D 5.1 provides support of the S1000D Issue 4.1 specification and includes modification of tools and functionality to recognize and handle Issue 4.1 modules and markup (XML tagging). Contenta S1000D 5.1 also continues to support earlier S1000D issues (2.2, 2.3, 3.0, 3.0.1, 4.0, 4.0.1).

Key new features in Contenta S1000D 5.1

- Support for Issue 4.1 modules throughout the Contenta S1000D tool set, from Upload to Publish, notably the following:
 - Support for the four data module types that were added in Issue 4.1: Added during Contenta S1000D 5.1 database upgrades.
 - comrep
 - frontmatter
 - sb
 - scocontent
 - New template XML files for all twenty Issue 4.1 data module types: Added during Contenta S1000D 5.1 database upgrades.
 - Support for Issue 4.1 modules: Available in Upload, the Define and Manage tools, Arbortext edit (Checkout/Checkin), LiveContent Preview, DDN Export, Validate (References and BREX), PM Builder, and Publish.
- Support for Issue 4.1 `internalRefTargetType` attribute values in:
 - Arbortext Editor styles.
 - Validate from within Arbortext Editor (Internal References pane).
 - XPP XSLs and styles.
- Support for Issue 4.1 `<brexDmRef>` tags in PMs and SCPMs:
 - Validate BREX is available for Issue 4.1 PMs and SCPMs.
 - PM Builder adds a BREX DM reference to new Issue 4.1 PMs and preserves the BREX DM reference in existing Issue 4.1 PMs.
- Support for Issue 4.1 `<brexDmRef>` tags in DDNs: DDN Export adds a BREX DM reference to Issue 4.1 DDN XML files.
- Support for Issue 4.1 CIR (Common Information Repository) warnings and cautions in the Publish tool.
- Support for internal (local) warning and caution repositories in the Publish tool. (This functionality was added in S1000D Issue 4.0 but was not supported in earlier versions of Contenta S1000D.)
- Support for Issue 4.1 CIR applicability in the Assign Applicability, Manage Applicability, and Publish tools.
- Support for optional Issue 4.1 applicability markup (primary product identifiers, prompts, enumeration labels) in the LiveContent Preview and Publish applicability UIs.
- Support for Issue 4.1 IPD markup in XPP XSLs.
- Support for graphics and multimedia display in LiveContent Preview.
- Contenta S1000D Web Services API - early adopter program available.
A RESTful Web Services API is now available for Contenta S1000D as the next step in evolving the API using current industry standards. Additional methods available with Contenta S1000D Web Services include *Get list of PMs*, *List references inside DM*, *Get the*

PropertySheet data of DM, amongst others. All of the methods used for the ADL SCORM Bridge project are now available with this Web Services API. Customers who develop custom tools for their implementation and those who are interested in integrating Contenta with other applications and enterprise systems (e.g., LSAR, LMS), may be interested in participating in the early adopter program which is available with this version release. If you would like to be considered for this program, please contact Technical Support requesting further information on this program.

Note:

- Only explicit CIR references are supported in this release: The `<dmRef>` of the CIR DM must be provided. The Contenta **Insert Reference** menu item in Arbortext Editor may be used to add this markup. Implicit CIR references are not supported in this release.
 - Only warning, caution, and applicability CIR DMs are supported in this release. Other types of CIRs (parts, organizations, etc.) are not yet supported.
 - ACT Catalog DMs are not supported by Contenta S1000D tools in this release. Assign Applicability, Manage Applicability, LiveContent Preview, and Publish display a "Not supported" message if the referenced ACT DM is an ACT Catalog DM. Authors may manually use ACT Catalog DMs.
 - Issue 4.1 applicability dependencies are not supported in this release.
 - Issue 4.1 "Alts" elements are displayed in the Internal References pane when Validate is run from within Arbortext Editor. Authors may manually use "Alts" tags, but Contenta S1000D tools do not process "Alts" elements in this release.
-

New feature details

The following sections contain detailed descriptions of new functionality in Contenta S1000D 5.1.

Contenta S1000D Database Upgrade changes for Issue 4.1

The Contenta S1000D 5.1 database upgrade adds twenty Issue 4.1 templates to the CSDB under **S1000D/ Templates/ 4.1**, and adds required AppData keys and values under **{Global}/Document Types** for the four data module types that were added in Issue 4.1.

Note: After upgrading Contenta S1000D software to 5.1, you must also upgrade your Contenta S1000D databases to 5.1. See the *Upgrading an SDL Contenta S1000D Database* topic in the *Contenta S1000D Installation and Upgrade Guide* for details.

S1000D Upload tool enhancements

The Upload tool displays the specific version of each module being uploaded, for example: 4.1, 4.0.1, 4.0, 3.0.1, 3.0, 2.3. The version is obtained from the `xsi:noNamespaceSchemaLocation` attribute on the `<dmodule>`, `<pm>`, or `<scormContentPackage>` tag. (Formerly Upload displayed an S1000D Version of either **4.0** or **Pre 4.0**.) If Upload cannot determine the specific version, it initially displays **S1000D Version: ??** and, after the well-formed check, displays the following error message and prevents the module from being uploaded into the CSDB:

Version not found

Missing or invalid xsi:noNamespaceSchemaLocation attribute

The Upload tool recognizes the four data module types that were added in Issue 4.1 (comrep, frontmatter, sb, scocontent) and displays a description for each type as follows:

- For comrep: Common Information Repository
- For frontmatter: Front Matter
- For sb: Service Bulletin
- For scocontent: SCO content

The Upload tool recognizes Issue 4.1 data module types when uploading DMRL (CSV) files. Contenta S1000D delivers a sample 4.1 CSV file that includes the four new data module types: *Contenta_home/S1000D_samples/data/DMRL-sample_S1000D_41.csv*

S1000D Define and Manage Programs tool enhancements

S1000D Manage DMRL and IRL tool enhancements

These two Contenta S1000D tools recognize Issue 4.1 data module types and export valid 4.1 CSV files.

Arbortext Editor tool enhancements

Contenta S1000D provides updated styles for Arbortext Editor that recognize the Issue 4.1 attribute values for `internalRefTargetType` and `circuitBreakerType` attributes.

The Contenta S1000D Arbortext, Arbortext Check Out, and Arbortext Check In tools distinguish 4.0 DMs/PMs/SCPMs from 4.1 DMs/PMs/SCPMs, recognize the data module types that were added in Issue 4.1, and handle 4.1 DMs, PMs, and SCPMs.

The following menu items on the Contenta dropdown in Arbortext Editor have also been modified to handle 4.1 modules:

- **Insert Reference...**
- **Validate**(see details below)
- **Manage Applicability** (see details below)
- **Assign Applicability** (see details below)
- **Preview** (see details below, in the LiveContent Preview section)

Manage Applicability tool enhancements

If an author wishes to modify an applicability notation in a CIR DM, they must edit the CIR DM directly and run Manage Applicability from there; Contenta S1000D does not support updating a CIR DM while editing a different DM.

If an author wants to add a DM-level applicability annotation to an Issue 4.1 DM, Manage Applicability checks for an `<applicRef>` tag. If found, the tool displays a message indicating that an `<applic>` tag cannot be inserted because an `<applicRef>` tag was found.

If an author wants to add a content-level applicability annotation to an Issue 4.1 DM, Manage Applicability checks for an `<referencedApplicGroupRef>` tag. If found, the tool displays a message indicating that a `<referencedApplicGroup>` tag cannot be inserted because a `<referencedApplicGroupRef>` tag was found.

In Issue 4.1 DMs only, Manage Applicability inserts `<referencedApplicGroup>` tags in the `<content>` section, in the correct order with respect to `<refs>`, `<warningsAndCautions>`, and/or `<warningsAndCautionsRef>` tags. (This is a change from Issue 4.0, where `<referencedApplicGroup>` tags are located in the `<identAndStatusSection>`.)

Assign Applicability tool enhancements

The Assign Applicability UI displays the following label: Implicit applicability references are not supported in this release.

Assign Applicability recognizes Issue 4.1 `<applicRef>` tags in the `<identAndStatusSection>` and `<referencedApplicGroupRef>`/`<applicRef>` tags in the `<content>` section, extracts referenced applicability annotations from the CIR DM, and displays applicability as follows:

- For DM-level applicability, the `<simplePara>` text from the referenced CIR DM applicability notation is displayed in the "DM:" field of the **Assign Applicability** UI.
- For content-level applicability, one CIR applicability annotation record is displayed in the **Reference** pane of the **Apply Applicability** UI for each `<applicRef>` found in `<referencedApplicGroupRef>`.
- For both types of applicability, conditions from the `<evaluate>` and `<assert>` elements are extracted for possible display in the **Expression** pane of the **Assign Applicability** UI.

Error handling: If missing or incorrect attribute values invalidate a CIR reference, Assign Applicability displays the following message in the Arbortext Editor status bar and provides detailed error messages in the log file itself:

```
Some CIR applicability references could not be resolved. See latest log
file under <Contenta>\logs\XyArbortextPlugin.
```

When an author selects a CIR applicability notation in the Assign Applicability UI:

- The **Modify** button is deactivated since Contenta S1000D does not support updating the CIR DM while editing a different DM. The CIR DM must be edited directly in order to update it.
- The **New** button is deactivated since Issue 4.1 does not permit `<applic>` or `<referencedApplicGroup>` tags to be added to a DM that contains `<applicRef>` or `<referencedApplicGroupRef>` tags respectively.
- The **Apply** button is activated. If the author clicks **Apply**, Assign Applicability inserts an `applicRefId` attribute as it already does in Issue 4.0; this markup is the same for both CIR and non-CIR applicability references.

S1000D Clip Reference tool enhancements

The title of one of the code blocks has been changed from **S1000D 4.0 Code Block** to **S1000D 4.0 or higher Code Block**.

Note: Issue 4.0 and 4.1 `<dmRef>` code blocks are identical, as are Issue 4.0 and 4.1 `<pmRef>` code blocks.

The wording of the "Click here" instructions has been improved as follows:

- Old wording: Click here to get the structure used in PubModules before S1000D 4.0
- New wording: Click here to get the structure used in PubModules before S1000D 4.0 (i.e., with the <dmc> tag)
- Old wording: Click here to get the structure used in PubModules in S1000D 4.0 or higher
- New wording: Click here to get the structure used in PubModules as of S1000D 4.0 (i.e., without the <dmc> tag)

S1000D LiveContent Preview tool enhancements

An **Illustrations** control has been added that, when clicked, displays graphics and multimedia objects referenced in the data module. Authors may navigate through the graphics and multimedia objects and click a **Tear Off** button to view an object at full size in a separate window.

Note: Some illustration object types are not compatible with some browser environments. See the *Previewing Data Modules in LiveContent* chapter in the *Contenta S1000D User Guide* for details.

The LiveContent Preview tool supports optional Issue 4.1 applicability markup for primary product identifiers and user-friendly prompts and enumeration labels. When present, this markup is displayed in the window that opens when an author clicks **Current Applicability Shown**. Specifically, the applicability UI supports the following:

- Prompts: The LiveContent Preview tool detects the optional <prompt> tag in each <productAttribute> tag in the ACT DM, and in each <cond> tag in the CCT DM. If found, when applicability is selected by either **Product** or **Condition** in LiveContent Preview, the <prompt> tag contents are displayed in the left-hand columns of the **Product Attributes** and **Technical Conditions** tables. Otherwise, the name is displayed.
- Enumeration labels: The LiveContent Preview tool detects the optional enumerationLabel attribute in each <enumeration> tag in both ACT and CCT DMs. When applicability is selected by either **Product** or **Condition**, the enumerationLabel attribute value is displayed in the right-hand column pick lists in the **Product Attributes** table.
When applicability is selected by **Condition**, the enumerationLabel attribute value is displayed in the right-hand column pick lists in the **Technical Conditions** table.
When there are no enumerationLabel attributes, or when an enumerationLabel has been incorrectly added to a list or range of applicPropertyValues such as Mk1|Mk9 or 1~3, the applicPropertyValues themselves are displayed.
- Primary product identifiers: The LiveContent Preview tool detects the optional productIdentifier attribute in each <productAttribute> tag.
If found and set to **primary**, when applicability by **Product** in LiveContent Preview is selected, only these <product> id values are used to populate the **Product Identifier** pick list (that is, products that contain a primary product identifier as the <assign> tag's applicPropertyIdent attribute value).

S1000D DDN Export tool enhancements

Version 4.1 has been added to the list of **S1000D Version** options.

The Issue 4.1 DDN schema includes a mandatory `<brexDmRef>` tag that must reference a BREX DM. The DDN Export tool adds a `<brexDmRef>` tag to reference the project BREX when possible, as follows:

- If an Issue 4.1 DDN package contains one BREX DM, DDN Export adds a reference to that DM.
- If an Issue 4.1 DDN package contains multiple BREX DMs, DDN Export adds a reference to the first BREX DM that is found.
- If an Issue 4.1 DDN package doesn't contain a BREX DM, DDN Export adds a reference to the Issue 4.1 default BREX DM.

The exported DDN file can be manually edited to reference a different BREX DM as needed.

S1000D Validate tool enhancements - Validate References

When Validate is run from within Arbortext Editor on an Issue 4.1 DM, the resulting **Internal References** pane displays Issue 4.1 `internalRefTargetType` attribute values, for example: **irrt01** rather than **figure**.

Since, in Issue 4.1, internal references may point to either non-"Alts" tags (such as `<figure>` or `<multimedia>`) or "Alts" tags (such as `<figureAlts>` or `<multimediaAlts>`), the **Internal References** pane displays both types of tags.

The following table lists internal reference target tags, their "Alts" equivalents, and the corresponding `internalRefTargetType` attribute values:

Internal reference target element	Related "Alts" element	internalRefTargetType
figure	figureAlts	irrt01
multimedia	multimediaAlts	irrt03
commonInfoDescrPara	commonInfoDescrParaAlts	irrt07
levelledPara	levelledAlts	irrt07
proceduralStep	proceduralStepAlts	irrt08

S1000D Validate tool enhancements - Validate BREX

Validate BREX has been enhanced to run on Issue 4.1 PM and SCPM objects, which contain a mandatory `<brexDmRef>` tag. The **BREX Compliance** pane will also be displayed for Issue 4.1 PMs and SCPMs when Validate is run from within Arbortext Editor.

Since other types of modules, not just data modules (DMs), may be validated for BREX compliance, the wording in all BREX reports has been changed from "DM" or "data module" to "module."

When checking for a version mismatch between the module being validated and the BREX DM, Validate BREX additionally checks for version mismatches between Issues 4.0 and 4.1. (Formerly this tool only checked for version mismatches between Issues 3.0 and 4.0.)

BREX syntax errors have been made more visible so that they are not missed when the module being validated is BREX compliant. In this case, a green **More...** link is additionally displayed that, when clicked, informs the author of any BREX rules that could not be validated.

S1000D PM Builder tool enhancements

PM Builder has been enhanced to run on Issue 4.1 PMs.

PM Builder recognizes Issue 4.1 markup changes in the `identificationAndStatusSection` and `content` section of PMs and handles this markup in the same way that it handles Issue 3.0 and 4.0 markup, as follows:

- PM Builder supports mandatory Issue 4.1 markup in the `<identificationAndStatusSection>`, specifically the `<brexDmRef>` tag.
 - When building a new Issue 4.1 PM, PM Builder adds a `<brexDmRef>` tag along with the required child `<dmRef>` and `<dmRefIdent>` tags to reference the default 4.1 BREX DM, preceded by a comment indicating that the author may change this reference to point to a different BREX DM as needed.
 - When modifying an existing Issue 4.1 PM, PM Builder preserves the existing BREX DM reference.
- PM Builder preserves optional Issue 4.1 markup in the `<identificationAndStatusSection>`, specifically `<externalPubCode>` and `<applicRef>` tags.
- PM Builder searches for unsupported Issue 4.1 markup in the `<content>` section, and displays an error if any is found. In Issue 4.1, nine optional attributes are available on the `<pmEntry>` tag: `applicRefId`, `changeMark`, `changeType`, `reasonForUpdateRefIds`, `securityClassification`, `commercialClassification`, `caveat`, `authorityName`, `authorityDocument`

Contenta S1000D sample data

Contenta S1000D sample data consists of three small publications, one each for Issues 3.0, 4.0, and 4.1. The 4.1 sample publication is new with Contenta S1000D 5.1. The sample publications contain subsets of S1000DBIKE data (PMs, DMs, and ICNs) and do not include every DM type.

The purpose of these publications is to provide content that can be used to step through the functionality from Upload through Publish, including publishing from a single source to produce both a PDF and an IETM.

The 4.1 sample publication also provides examples of the following Issue 4.1 features:

- CIR warnings and cautions
- CIR applicability
- Optional applicability markup:
 - `<prompt>` element
 - `enumerationLabel` attribute
 - primary product identifiers
- IPD markup changes

Note: The 3.0, 4.0, and 4.1 published IETMs include examples of bidirectional hotspotting in the IPD DMs (infocode 941).

In Contenta S1000D 5.1, the model identification code used for the sample data is **SAMPLEBIKE**. The Contenta S1000D 3.0 and 4.0 sample data modules have been renamed so that they do not conflict with S1000DBIKE sample data module names or with different versions of the same data module. The following system difference codes have been assigned:

- **AAA** for 3.0 data modules
- **BBB** for 4.0 data modules
- **CCC** for 4.1 data modules

The Contenta S1000D 3.0 and 4.0 sample publication modules have also been renamed for the same reasons. The PMs are named as follows:

- 3.0 PM: **SAMPLEBIKE-XYENT-00030-01**
- 4.0 PM: **SAMPLEBIKE-XYENT-00040-01**
- 4.1 PM: **SAMPLEBIKE-XYENT-00041-01**

Contenta S1000D delivers three sample output PDF files, one for each publication. Contenta S1000D no longer delivers sample IETMs since LiveContent S1000D delivers its own sample IETMs.

Note: If you are upgrading and you have put anything in the existing sample data directories (*Contenta_home/publish_samples/ data and output*), you will need to move it to a different location before upgrading, since the upgrade will remove the existing directories and create the following directories for the new and renamed sample data: *Contenta_home/S1000D_samples/ publish_samples/ publish_data and publish_output*).

Note: Contenta S1000D no longer delivers the s1000d.org S1000DBIKE sample data. This data may be downloaded from the s1000d.org web site as needed. If you are upgrading and you want to preserve sample 2.3, 3.0, or 4.0 s1000d.org S1000DBIKE data, you will need to move this data to a different location before upgrading, since the upgrade will remove it.

XPP style enhancements

To support publishing Issue 4.1 data to XPP to create PDFs, XSLs and XPP styles have been modified to handle Issue 4.1 markup. The existing s1000d40 XPP style bundle has been enhanced to include Issue 4.1 tags and attributes where needed. Specifically:

- The XSL that builds IPD tables additionally builds Issue 4.1 IPD tables.
- XSL and XPP styles additionally handle Issue 4.1 `internalRefTargetType` attribute values, for example: `irtt01` rather than `figure`.
- Various XPath expressions in the XPP styles were modified to support Issue 4.1 markup.
- Various other formatting enhancements were made in the XPP styles.

Note: Before publishing Issue 4.1 data to XPP, install the updated XPP styles as follows: Copy the `Contenta_home/S1000D_samples/xpp/s1000dstyles.zip` file from the Contenta Web server to the `XPP_home/sd_liz` directory on the XPP server, and extract the contents to the `XPP_home/sd_liz/Ls1000d` directory. If you have custom XPP styles in the `Ls1000d` XPP style library, contact SDL Customer Support for assistance on merging old and styles in this release of Contenta S1000D.

S1000D Publish tool enhancements

The Publish tool resolves Issue 4.1 CIR warning and caution references when publishing to XPP to create a PDF or to LiveContent S1000D to create an IETM. Note the following:

- The `<dmRef>` of the CIR DM must be provided (explicit reference). The Contenta **Insert Reference** menu item in Arbortext Editor may be used to add this markup. Implicit CIR references are not supported in this release.
- The Publish tool adds `<repositorySourceDmIdent>` tags to each referencing DM, in order to list each warning or caution CIR DM that was referenced by that particular referencing DM.
- The Publish tool also supports internal (local) warning and caution repositories by resolving references to those warnings and cautions. (This functionality was added in S1000D Issue 4.0 but was not supported prior to Contenta S1000D 5.1.)

The Publish tool resolves Issue 4.1 CIR applicability references when publishing to XPP to create a PDF or to LiveContent S1000D to create an IETM. Note the following:

- The `<dmRef>` of the CIR DM must be provided (explicit reference). The Contenta **Insert Reference** menu item in Arbortext Editor may be used to add this markup. Implicit CIR references are not supported in this release.
- The Publish tool adds `<repositorySourceDmIdent>` tags to each referencing DM, in order to list each applicability CIR DM that was referenced by that particular referencing DM.

Note: Contenta S1000D 5.1 supports only explicit references to CIR DMs; a `<dmRef>` tag that references a CIR DM is required. Implicit references are not supported in this release.

The Publish tool supports optional Issue 4.1 applicability markup for primary product identifiers and user-friendly prompts and enumeration labels. When present, this markup is displayed in the window that opens when the author clicks **Set Applicability** and selects a PM. The applicability UI changes are the same as described above for LiveContent Preview; the only difference is that the tables in which these UI changes are displayed have different names in the publish applicability UI: **BY ACT**, **BY CCT**, and **BY PRODUCT**.

Platform changes in SDL Contenta S1000D 5.1

The 5.1 release of SDL Contenta S1000D introduced a number of platform changes.

Newly supported items

The following prerequisite software is now supported:

- Microsoft Windows 8
- Internet Explorer 10 (32-bit and 64-bit)
- Mozilla Firefox 25 (32-bit)

The following software is now installed with SDL Contenta:

- Reprise License Manager 10.1
- MKS Toolkit 9.5
- ActiveState ActivePerl 5.16

Deprecated items

- Sun Solaris
- Apache HTTP Server 2.2.x with corresponding mod_jk-1.2.x with Tomcat 6.0.x or Tomcat 7.0.x, 32-bit on Microsoft Windows Web servers

Items no longer supported

- Microsoft Windows 2003
- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Internet Explorer 7
- Oracle 10.2
- Oracle 11.2 (earlier than 11.2.0.4)
- Arbortext Editor 5.x
- JK Connector is no longer supported with IIS (it was replaced with Application Request Router)
- Reprise License Manager 8
- MKS Toolkit 9.4
- ActiveState ActivePerl 5.10 (you must uninstall ActiveState ActivePerl 5.10 yourself before upgrading to SDL Contenta S1000D 5.1)

SDL Contenta S1000D no longer delivers the following software component versions:

- Reprise License Manager 8
- MKS Toolkit 9.4
- ActiveState ActivePerl 5.10 (you must uninstall this release before upgrading to SDL Contenta S1000D 5.2)

2

Changed files

A list of customizable files that have changed in the current release and in earlier releases.

Files changed in Contenta S1000D 5.11

The 5.10 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml*

Files changed in Contenta S1000D 5.10

The 5.10 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_config/ReusableComponentSearchConfig.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_xslt/MatchTextInCIR.xsl*

Files changed in SDL Contenta S1000D 5.9

The 5.9 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_config/ReusableComponentSearchConfig.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_xslt/MatchTextInCIR.xsl*

Files changed in SDL Contenta S1000D 5.8

The 5.8 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml*
- *Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml*

Files changed in SDL Contenta S1000D 5.7.1

SDL Contenta S1000D 5.7.1 includes no changes to customizable files.

Files changed in SDL Contenta S1000D 5.7

The 5.7 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml`
- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml`

Files changed in SDL Contenta S1000D 5.6

The 5.6 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml`
- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml`

Files changed in SDL Contenta S1000D 5.5.2

SDL Contenta S1000D 5.5.2 includes no changes to customizable files.

Files changed in SDL Contenta S1000D 5.5.1

SDL Contenta S1000D 5.5.1 includes no changes to customizable files.

Files changed in SDL Contenta S1000D 5.5

The 5.5 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- `Contenta_home/distr/web/tools/cw_xml_co/checkoutXmlS1000D.jsp`
- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml`
- `Contenta_home/distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml`

Files changed in SDL Contenta S1000D 5.4

The 5.4 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- `Contenta_home\web\tools\cw_xml_co\checkoutXmlS1000D.jsp`
- `Contenta_home\web\tools\cw_xml_co\finishXmlCo.jsp`
- `Contenta_home\web\tools\cw_xml_ci\initXmlCi.jsp`
- `Contenta_home\web\tools\cw_xml_ci\mainXmlCi.jsp`
- `Contenta_home\web\tools\cw_xml_ci\uploadFinishXmlCi.jsp`
- `Contenta_home\web\tools\cw_xml_ci\uploadXmlCi.jsp`

Files changed in SDL Contenta S1000D 5.3

The 5.3 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Clients

`Contenta_home\s1000d_samples\hpp\s1000dxppxz.zip`

Contenta App server

`Contenta_home\s1000d_samples\hpp\s1000dxppxz.zip`

Contenta Web server

- `Contenta_home\distr\web\cw_common\custom\S1000D_Publish\PublishConfiguration.xml`
- `Contenta_home\distr\web\cw_common\custom\S1000D_Publish\PublishConfiguration_Unix.xml`
- `Contenta_home\s1000d_samples\hpp\s1000dxppxz.zip`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\common.css`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\afi.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\afp.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\applic.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\applic_filter.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\common.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\common_pdf.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\common_tmpl.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\CVPreview.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\descript.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\description.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\faultreporting.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\illustratedpartscatalog.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\maintplanning.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\matreq.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\proced_pdf.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\procedure.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\procedure_pdf.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\process.xml`

- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\refmat.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\schedule.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\supteqt.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\table.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\template_pdf.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\text.xml`
- `Contenta_home\web\cw_common\custom\s1000d_cvpreview\styles\s1000d\translation.xml`

Files changed in SDL Contenta S1000D 5.2

The 5.2 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web Server

- `distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml`
- `distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/acrw.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/acrw_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/afi.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common.css`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common_tmpl.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/crew.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/crew_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/faultIsolation.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/faultIsolation_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/illustratedPartsCatalog.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/illustratedPartsCatalog_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/ipc.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/ipc_pdf.xml`

- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/maintPlanning.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/matreq.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/proced.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/procedure.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/procedure_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/process.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/refmat.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/supteqt.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/table.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/table_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/template_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/text.xml`

Files changed in SDL Contenta S1000D 5.1

The 5.1 release changed a number of customizable files. If you have customized any of these files for your implementation, merge your customizations into the updated files. Refer to the upgrade topics for more information.

Contenta Web server

- `distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration.xml`
- `distr/web/cw_common/custom/S1000D_Publish/PublishConfiguration_Unix.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/acrw.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/acrw_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/afi.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common.css`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/common_tmpl.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/crew.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/crew_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/faultIsolation.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/faultIsolation_pdf.xml`
- `web/cw_common/custom/S1000D_CVPReview/styles/s1000d/illustratedPartsCatalog.xml`

- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/illustratedPartsCatalog_pdf.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/ipc.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/ipc_pdf.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/maintPlanning.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/matreq.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/proced.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/procedure.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/procedure_pdf.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/process.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/refmat.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/supteqt.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/table.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/table_pdf.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/template_pdf.xsl
- web/cw_common/custom/S1000D_CVPReview/styles/s1000d/text.xsl



Known issues

3 Known issues

This section describes known issues in this release of Contenta S1000D, including resolutions when available.

Issue Number	Description
SRQ-18210	<p>Graphics are not exported on publish or checkout After uploading a DM with referenced graphics to a project, the referenced graphics are not exported on publish or checkout.</p> <p>Explanation/Resolution: To work around this issue, upload the graphics to the configuration and reuse them to the project.</p>
CAS-23419	<p>Display of alternate names in CE or CW for S1000D does not work consistently Explanation/Resolution: Refreshing the view sometimes resolves this issue.</p>
CAS-14388	<p>Unable to edit a new PM entry in Contenta S1000D PM Builder In the PM Builder tool, sometimes operations like delete fail.</p> <p>Explanation/Resolution: To work around this issue, close and reopen PM Builder.</p>
CAS-13663	<p>Restarting the Web server may cause Contenta S1000D Arbortext plugin errors</p> <p>When working with Contenta S1000D Arbortext plugin tools, users may see unpredictable error messages if the Contenta Web server is restarted.</p> <p>Explanation/Resolution: Request that users be logged out from Contenta before restarting the Web server. A user who encounters such an error should save and close the document being edited, and exit and relaunch the editor to reopen the document. The Contenta S1000D plugin will require a password to connect to Contenta.</p>
CAS-13589	<p>InformationNameVariant is not displayed in customized list views in Contenta Web or Contenta Explorer</p> <p>Explanation/Resolution: InformationNameVariant is available in the properties view.</p>
CAS-12002	<p>Cannot close Oxygen Preview window</p> <p>In Firefox, the Close button may fail to close the Oxygen Preview window, and may not display in the expected location.</p> <p>Explanation/Resolution: Security features in some versions of Firefox may prevent JavaScript from closing a modal window.</p> <p>To work around this issue, set <code>dom.allow_scripts_to_close_windows</code> (under Advanced Settings) to true. Consult the Mozilla Firefox documentation for your browser version for further details.</p>
CRQ-10539	<p>Upload gets stuck on the importing phase Explanation/Resolution: This behavior can be caused by insufficient permission for log creation in the <code>Contenta\logs</code> directory. To work around this issue, ensure that the user running Tomcat has sufficient permissions to create logs in the <code>Contenta\logs</code> directory.</p>

Issue Number	Description
CRQ-10444	<p>Contenta menu did not appear after installing the editor extension The Contenta menu may not appear after installing the editor extension if the name of the menu file has been changed from <code>.Help</code>, for example, when the menu is translated from English. This issue may occur because the <code>EpicEditCatMain.ac1</code> ACL file, which adds the menu looks for a menu named <code>.Help</code>.</p> <p>Explanation/Resolution: If the name of the Contenta menu file has been changed, edit the <code>EpicEditCatMain.ac1</code> file to refer to the current name of the menu file. For example, if the menu file is translated into German and its name changed to <code>.Hilfe</code>, change each instance of <code>.Help</code> in the ACL file to <code>.Hilfe</code>.</p>
CAS-12735	<p>Selecting applicability in the CIR applic tab in Arbortext Editor causes an error</p> <p>The following error is displayed when selecting applicability in the CIR applic tab in Arbortext Editor:</p> <pre>Cannot find a method RemoveRadioCtrls that has the right number of arguments.</pre> <p>Explanation/Resolution: You can safely ignore this message and select OK to continue.</p>
CAS-10735	<p>Uploading 50K objects hangs Explanation/Resolution: The Upload Content tool is designed to allow for upload of batches of 20K or less via the browser. Larger batches may cause unpredictable behavior in the browser. Larger batches can be uploaded via the server upload function.</p>
CAS-4831	<p>After a Contenta upgrade, the Arbortext Editor may fail to launch from the browser during checkout. Explanation/Resolution: The path to Arbortext Editor is stored in the following key and your machine may require a short path:</p> <pre>HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\App Paths\epic.exe.</pre> <p>To work around this issue, set the default value for this registry key to a short path name such as:</p> <pre>C:\PROGRA~2\PTC\Arbor~1\bin\x86\editor.exe</pre>
CAS-4522	<p>When trying to add a reusable object to the repository from a DM project, the object is added to the repository in the project instead of the repository in the configuration. Explanation/Resolution: To work around this issue, modify the ID to change it to the configuration ID.</p>

Issue Number	Description
CAS-3684	<p>Some large graphics (for example, >50 MB) are not uploading even when Applet memory is adjusted - Upload still runs out of memory and fails with a "Failed to upload graphic" error.</p> <p>Explanation/Resolution: This is due to the current design of the graphics upload portion of the SDL S1000D Upload tool.</p> <p>The following workarounds may allow these larger graphics to upload:</p> <ul style="list-style-type: none"> • Adjusting the Upload Applet memory setting up or down • Using another browser machine with more resources • Configuring the browser to use a 64-bit JVM • Adjusting the memory for the JVM
CAS-3549	<p>The S1000D upload applet does not load until you click in the drag/drop area (which starts off blank).</p> <p>With Internet Explorer 11 in certain browser/Java configurations, the upload drag/drop applet will not load/display automatically. This has most often been seen when running the browser on a server, such as Windows 2012 R2.</p> <p>Explanation/Resolution: To work around this issue, click in the area in which the applet should be displayed to trigger the applet loading.</p>
CAS-3273	<p>Validate BREX does not process non-numeric ranges in BREX rules (except for A~Z). It generates a "Cannot load rules in BREX DMC-..." error due to <code>ajava.lang.NumberFormatException</code>.</p>
CAS-3176	<p>PM Builder is generating an error upon saving a new PM in the Contenta S1000D CSDB.</p> <p>Explanation/Resolution: To work around this issue, click Save again.</p>
CAS-2642	<p>Issue 4.0 Warnings and Cautions from the internal repository are not updated after publishing with "Get latest content" checked.</p> <p>In Arbortext Editor, when you insert a 4.0 warning or caution, the following takes place:</p> <ol style="list-style-type: none"> 1. It inserts a <code>warningRefs</code> or <code>cautionRefs</code> attribute (or it adds to this attribute if it already exists). 2. It adds the warning or caution itself to the internal repository (if it is not already there). This only occurs when you modify a warning or caution in an internal repository after inserting that warning or caution from the CSDB repository, which is atypical.
43657	<p>S1000D Manage DMRL and IRL web tool seems to be hanging or generating errors a lot more often.</p> <p>The tool is launched and a user changes between the "Manage Data Module Codes" and "Manage ICN Codes" radio buttons, or also toggles between the "Direct SNS" and "System, Subsystem, SubSubsystem, Unit or Assembly" radio buttons when choosing SNS selection method. Sometimes the web application hangs the Internet Explorer window, other times it may take several rounds of a user toggling the radio buttons. It eventually hangs the Internet Explorer window or the user see a "No data received from server" error in the browser.</p>

Issue Number	Description
43165	<p>The templates provided with Contenta S1000D 3.0 cause parsing errors in Arbortext Editor 5.3 and 5.4.</p> <p>You can safely ignore the parsing errors, modify the templates as needed, and successfully create objects from the templates. You can also manually fix the parsing errors by checking out the templates and editing them. In this case, you can contact SDL Customer Support to obtain updated templates or manually fix the content.</p>
42554	<p>On 64-bit Windows clients, if Java is installed under the Program Files (x86) directory, user gets an error when running the ArbortextEditorSetup.jar program to configure Arbortext Editor to work with Contenta and Contenta S1000D.</p> <p>Explanation/Resolution: To work around this issue, install Java anywhere but the Program Files (x86) directory.</p>
42553	<p>References are not carried forward from template to DM in Create DM from template. If you run Validate, references are missing.</p> <p>Explanation/Resolution: To work around this issue, check out the DM, make a change, and check in the DM.</p>
42529	<p>S1000D Validate and other web tools fail to launch in an environment where the Contenta application and web server is the same UNIX server.</p> <p>Explanation/Resolution: If Contenta Web was installed after installing Contenta Server on the same UNIX server, you need to create a directory named "tmp" under the /pdm/clients directory on the Contenta Web server.</p> <p>If Contenta Web was installed first, this manual step is not required.</p>
42523	<p>The Contenta uninstaller on UNIX removes the /pdm link. This happens on Linux.</p> <p>Explanation/Resolution: Recreate the /pdm link in order to use Contenta Web.</p>
41365	<p>In Arbortext Editor, if you select a target reference to delete it using the right-click menu option, in the Delete Confirmation window, if you click the X in the upper right of the confirmation window, the target reference is deleted by default.</p> <p>Explanation/Resolution: Known issue. Use Undo to restore the data.</p>
41356	<p>After launching PM Builder on a PM, inserting 100 modules, and saving successfully then refreshing the window, you cannot insert any more modules from the left pane.</p> <p>Explanation/Resolution: This is an issue in Internet Explorer only.</p>

Issue Number	Description
41325	<p>Launching the DDN Export tool while running another DDN Export, the following error is displayed in the second window <code>javax.servlet.ServletException:</code></p> <p><code>COMException= COM IDispatch exception: Connection already established</code></p> <p>Explanation/Resolution: The same user running the same tool twice can result in a "Connection already established" error. This is true for most Contenta S1000D tools, not just DDN Export. This may happen in either Internet Explorer or Firefox.</p>
41318	<p>Linux only: PM Builder log files are not getting created.</p> <p>Explanation/Resolution: To enable logging for PM Builder, use <code>fileregedit</code> to manually enter the <code>cas_pm_builder_debugLevel</code> registry key, and set it to 1, to turn on logging.</p> <p>Refer to the <i>SDL Contenta Administration User Guide</i> for information about <code>fileregedit</code>.</p>
41312	<p>ICN titles in a CSV file are not stored in Contenta S1000D when the CSV is uploaded.</p>



Fixed Issues

The current release, as well as earlier releases, include fixes for a number of issues.

Issues fixed and closed in Contenta S1000D 5.11

A list of issues fixed and closed in Contenta S1000D 5.11.

Issue ID	Description
CRQ-11931	Error message misleading: Contenta S1000D editorplugin installed but not needed
CRQ-15686	Publish from project fails to export DMs removed from project and no warning is provided to the user
CRQ-16490	Publish from Contenta to LiveContent WARN and FAILURE messages not flagged
CRQ-24652	Better handling of connection interruption errors while uploading
CRQ-24730	Upload of mp4, CGM and PNG graphics upload as "graphic" objects instead of the their object type
CRQ-24764	DM with double quotes in techName or infoName fields fails to successfully upload
CRQ-24978	Saved assert statements are blank
CRQ-25092	Graphics that were deleted and re-imported due to wrong graphic type will not output when publishing to LiveContent S1000D

Issues fixed and closed in Contenta S1000D 5.10

These issues were fixed and closed in Contenta S1000D 5.10.

Issue	Description
CRQ-23263	Publish to LiveContent S1000D fails to detect Language and Country code
CRQ-23500	Upload session for on database prevents upload of data in another database
CRQ-23598	Tables like DMODULE and PMODULE contain a lot of nulled cells after the property sheet migration.

Issues fixed and closed in SDL Contenta S1000D 5.9

In the 5.9 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-17402	MNS value is intermittently permanently removed while Using S1000D Define and Manage Programs
CRQ-17619	Upload Content - option for validate schema should be hidden until functionality is available.
CRQ-17850	Applic inserts through Manage applicability is adding " to xml
CRQ-19035	5.8 Test S1000D - will not resolve entities locally
CRQ-19074	Export codes tool through the Manage Programs fails to export all codes
CRQ-19510	Issue with resolving entities locally--reading S1000D_Catalog.prop file
CRQ-19891	Increase default size of S1000D log files
CRQ-20016	XYArborTextPlugin no longer includes dmRef elements under the generated "Table of References" when performing a "Rebuild Table of References" from under the Arbortext Contenta menu
CRQ-20172	Preview 3.0 IPD module from within Arbortext - the entire parts list if duplicated
CRQ-20649	Manage Applicability - not allowing correct actual values per spec. Issue 3.0
CRQ-21094	Arbortext Long term Checked Out Data Contains Sensitive Information
CRQ-21229	S1000D Upload Content has files that failed, Download files link does not do anything

Issues fixed and closed in SDL Contenta S1000D 5.8.1

In the 5.8.1 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-17619	Upload Content - option for validate schema should be hidden until functionality is available.
CRQ-17850	Applic inserts through Manage applicability is adding " to xml
CRQ-19035	5.8 Test S1000D - will not resolve entities locally
CRQ-19074	Export codes tool through the Manage Programs fails to export all codes
CRQ-19510	Issue with resolving entities locally--reading S1000D_Catalog.prop file
CRQ-20016	XYArborTextPlugin no longer includes dmRef elements under the generated "Table of References" when performing a "Rebuild Table of References" from under the Arbortext Contenta menu
CRQ-20172	Preview 3.0 IPD module from within Arbortext - the entire parts list if duplicated
CRQ-20649	Manage Applicability - not allowing correct actvalues per spec. Issue 3.0
CRQ-21094	Arbortext Long term Checked Out Data Contains Sensitive Information
CRQ-21229	S1000D Upload Content has files that failed, Download files link does not do anything

Issues fixed and closed in SDL Contenta S1000D 5.8

In the 5.8 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-15687	Upload and Checkin should only put DMs, PMs, graphics blob ids in linkend unique id column
CRQ-15403	Unable to upload to CRP project if object exists in the CRP project
CRQ-15230	Trying to change a publish date for an object results in error "The field <Publish Date> contains an invalid value."
CRQ-15157	LCS publish fails with error: Can't call method "GetValueByLabel" on an undefined value
CRQ-15072	"Save assert" statements are not displayed on Manager Applicability Dialog after db upgrade to 57.

Issue	Description
CRQ-15043	Korean characters incorrectly rendered in BREX tab of Arbortext Validation tool.
CRQ-13994	Foundation Suite crew.xml DMs are inconsistent with other XML file. crew.xml file contains a Description tag before the identAndStatusSection tag.
CRQ-13609	Publish from Contenta through XPP Web Services sometimes corrupts graphics
CRQ-13136	Publish performance issue seen with some publications in 5.7
CRQ-13079	Linkends table not updated correctly when figure title contains a semicolon
CRQ-13049	When Windows OS Region is set to Korean (Korea), Insert Reference give an error
CRQ-12635	Arbortext Editor Message [A30134] Cannot find the Java class init.
CRQ-10487	SLICwave Sync Content does not display Korean characters
CRQ-8727	RFE: Compatibility of Google Chrome Browser with Contenta S1000D at contenta web client

Issues fixed and closed in SDL Contenta S1000D 5.7.1

In the 5.7.1 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-15687	Upload and Checkin should only put DMs, PMs, graphics blob ids in linkend unique id column
CRQ-15403	Unable to upload to CRP project if object exists in the CRP project
CRQ-15230	trying to change a publish date for an object results in error "The field <Publish Date> contains an invalid value."
CRQ-15157	LCS publish fails with error: Can't call method "GetValueByLabel" on an undefined value
CRQ-15072	"Save assert" statements are not displayed on Manager Applicability Dialog after db upgrade to 57.
CRQ-15043	Korean characters incorrectly rendered in BREX tab of Arbortext Validation tool.

Issue	Description
CRQ-13609	Publish from Contenta through XPP Web Services sometimes corrupts graphics
CRQ-13136	Publish performance issue seen with some publications in 5.7
CRQ-13079	Linkends table not updated correctly when figure title contains a semicolon
CRQ-13049	When Windows OS Region is set to Korean (Korea), Insert Reference give an error
CRQ-12635	Arbortext Editor Message [A30134] Cannot find the Java class init.
CRQ-10487	SLICwave Sync Content does not display Korean characters

Issues fixed and closed in SDL Contenta S1000D 5.7

In the 5.7 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-8800	XPP Publish in 5.6.0 takes more time than in 5.5.1 (copying graphics)
CRQ-8932	Insert graphic reference fails with error -942 when selecting an sns
CRQ-9011	Insert graphic reference fails with error -907 when selecting an sns by System, Subsystem, SubSubsystem, Unit or Assembly
CRQ-9818	SLICwave Fetch Content fails with newer version of Tomcat
CRQ-9874	LiveContent Preview does not always filter results using applicability
CRQ-9879	LC Preview from AE not showing current edited content
CRQ-10010	SLICwave/CaS 5.6 'Notify CSDB Data Module Ready to Release' tool fails with db using language and country code
CRQ-11676	Error for 'Synchronize ICN List from CSDB' Tool in SLICwave with EMF graphic type

Issues fixed and closed in SDL Contenta S1000D 5.6

In the 5.6 release of SDL Contenta S1000D, a number of issues were fixed.

Note: Contenta S1000D 5.6 also includes fixes for issues fixed and closed in the 5.5.1 release. When upgrading, consult the fixed issues list for each release after the one from which you are upgrading.

Issue	Description
CRQ-4949	Cannot edit DMs in a project with 12,000 DMs.
CRQ-5983	Contenta S1000D and the Contenta S1000D Arbortext Editor plugin installation need to use a later version of Java.
CRQ-6585	Korean characters cause the Contenta S1000D Publish tool to fail.
CAS-2061	Publish fails with an <code>Out of memory error</code> .
CAS-5578	DDN Export returns an <code>HTTP 400 Bad Request error</code> .
CAS-5549	S1000D Publish user interface fails to populate completely due to a character encoding issue.
CAS-5481	LiveContentPreview causes an excessive number of <code>GET</code> requests.
CAS-5432	Unable to upload into a Contenta S1000D 5.4 CSDB on a Linux Web Server.
CAS-4840	Running the Contenta Web <code>setup.exe</code> executable results in the installer hanging.

Issues fixed and closed in SDL Contenta S1000D 5.5.2

In the 5.5.2 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-4095	S1000D Upload - Unlock objects associated with DDN should be removed from GUI
CRQ-4516	Upload new ICN into existing DB goes into hierarchy <code>systemDifferenceCode>system>subsystem>subsubsystem</code> when <code>createSystemDifferenceCode</code> is set to <code>no</code>

Issue	Description
CRQ-4949	Cannot edit dm's in project with 12,000 DMs
CRQ-5554	Brex validate incorrectly reports failure
CRQ-5947	Java heap memory issue when trying to download DDN zip file
CRQ-6044	Permissions error creating <code>MarkedForDelete</code> folder when trying to run Arbortext Editor on DM
CRQ-6119	When publishing a module with a lot of references, publishing fails with out of memory error
CRQ-6336	Cannot insert graphics in Arbortext Editor 6.0
CRQ-6853	Linkend tables fail to update properly when Uploading of frontMatter DMs with links to graphics using <code>symbol</code> and <code>productIllustration</code> tags
CRQ-7988	File permission error with LiveContent S1000D Publish: Can't copy file: no such file or directory. Publish fails
CRQ-8461	Publish and Checkout sometimes incorrectly exports graphics as JPGs
CRQ-8932	Insert graphic reference fails with error -942 when selecting an SNS and unsupported graphics exist in folder
CRQ-9011	Insert graphic reference fails with error -907 when selecting an SNS by System, Subsystem, SubSubsystem, Unit or Assembly

Issues fixed and closed in SDL Contenta S1000D 5.5.1

In the 5.5.1 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CRQ-4072	Cannot Upload XML Files with Entities in Them
CAS-5017	Edit of MNS code descriptions of more than 50 characters results in truncation
CAS-5214	Contenta Web S1000DFirefoxApplet.jar file certificate expires 12 November 2016
CAS-5432	Unable to upload S1000D objects into database without SDC level when using Contenta Web on Linux
CAS-5481	LiveContentPreview causes lots of "GET" requests

Issue	Description
CAS-5549	S1000D Publish issue - GUI interface not populated completely when using Tomcat 8.0.39 and above

Issues fixed and closed in SDL Contenta S1000D 5.5

In the 5.5 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CAS-3283	RFE: DDN Export should automatically include referenced illustrations for data modules in the DDN.
CAS-3376	RFE: Add a PM with the option to reuse all referenced DMs into the DDN Export (Dispatcher).
CAS-3703	The Contenta S1000D Upload tool may run out of memory when uploading large batches of objects.
CAS-3706	Korean PDF output not encoding properly.
CAS-3785	RFE: Provide ability to eliminate source XML from IETM in Contenta S1000D publish.
CAS-4600	RFE: If the user selects a PM before running publish, display only that PM in the Publications list. Select a configuration to see a list of all available PMs, or a project to see a list of PMs in that project.

Issues fixed and closed in SDL Contenta S1000D 5.4

In the 5.4 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CAS-1248	<p>Some large graphics files cannot be uploaded. Submitting binary files larger than approximately 20MB or 25MB causes Upload to display a "Failed to upload graphic" error. If your site encounters this issue, add an uploadAppletMaxMemory AppData setting under {Global} (or user_desktop) > Settings > CaS_Upload and set it to a value larger than the default of 512m (for example, 1024m).</p> <p>Note: If there is not enough memory available for Upload due to the load on the web browser machine or web server, increasing Applet memory will not help. If the browser is using a 32-bit JVM, maximum memory is limited to under 2G. See Oracle documentation for more information on the allowed -Xmx values for the specific JVM being used at your site.</p>
CAS-2516	<p>The Contenta Web <code>.s1000DFirefoxApplet.jar</code> file certificate has expired.</p> <p>The <code>FileUpload.jar</code> and <code>FileDownload.jar</code> files have an expired signing certificates. This causes the applets to fail to load from the web interface, and the internal proxies block the <code>.jar</code> file due to the expired certificate. These <code>.jar</code> files are necessary to use the built-in ArborText Editor and FrameMaker checkouts. We are now providing new <code>.jar</code> files with current, non-expired signing.</p>
CAS-2911	<p>The <code>s1000d.dmp</code> file has Verity as a command line operation for search in Contenta Explorer. This resulted in search errors.</p> <p>You can correct this by running the core Contenta 5.3 database upgrade program, <code>upgrade_53</code>. After running <code>upgrade_53</code>, you should also run the SDL Contenta S1000D 5.4 database upgrade program, <code>upgrade_s1000d_54.pl</code>.</p> <p>This issue was corrected in the 5.4 <code>s1000d.dmp</code> file.</p>
CAS-2971	<p>Uploading a DM into a ContentRoutingProject (CRP) builds out the Data Module hierarchy of that DM inside the CRP. Upload should instead build out the Data Module hierarchy in the configuration as needed, and upload the DM directly under the CRP (same behavior as uploading to a non-CRP project).</p> <p>This issue was resolved.</p>
CAS-3271	<p>Validate BREX does not handle the non-numeric range of "A~Z" in BREX rules. It gives a <code>Cannot load rules in BREX DMC-...</code> error due to <code>ajava.lang.NumberFormatException</code></p> <p>This issue was resolved.</p>
CAS-3272	<p>LiveContentPreview fails to preview a data module. You can correct this by editing the data module and removing the BOM at the beginning of the file.</p>

Issues fixed and closed in SDL Contenta S1000D 5.3

In the 5.3 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CAS-1438	Cannot run two or more instances of S1000D Publish to XPP at the same time by different users. One publish completes, but the other publish fails with the following exception: <code>Fallback runtime exception: com.xyenterprise.url.URLFileOperationException: com.xyenterprise.xppjob.xpp.XPPWebServicesException: java.net.SocketException: Connection reset.</code> Modifying S1000D Publish to call XPP Web Services directly (rather than going through XPP Pub) resolved this issue.
CAS-1951	Perl "Out of Memory" errors when publishing to LC using applicability.
CAS-1978, CAS-2027	Publish from project is missing modules edited in a sub-project.
CAS-2023	Blue bar hangs during publish.
CAS-2083	BREX validate from Arbortext does not wrap text.
CAS-2109	Mismatch error when performing Validate from AE plug-in. When referencing a <code><levelledPara></code> in a Data Module, the only logical option for the attribute "internalRefTargetType" in the element <code><internalRef></code> is "para." When using the Contenta Validation option for internal references in the Arbortext editor, the <code>internalRefTargetType</code> to target element is flagged as a mismatch.

Issues fixed and closed in SDL Contenta S1000D 5.2

In the 5.2 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
CAS-1742	Building applicability from ArborText Editor resulted in an error ("Failed to read ACT content, cannot proceed to manage applicability") if the user had no write access to the stable data configuration.
CAS-1654	A full publish could fail without reporting any errors after adding a new book to an IETM, due to memory problems.

Issue	Description
CAS-1595	When using Java 7, the applet would display security message for user every time they attempt to upload. Refer to the <i>SDL Contenta S1000D Installation and Upgrade Guide</i> , Chapter 1, "Installing SDL Contenta S1000D", section "Java Security Changes and Signed Applets: Pre-requisites and Setup" for more information.
CAS-1562	Uploading a CSV containing an apostrophe in its <code>infoName</code> would erroneously claim to have completed when in reality it had failed.

Issues fixed and closed in SDL Contenta S1000D 5.1

In the 5.1 release of SDL Contenta S1000D, a number of issues were fixed.

Issue	Description
43785	Cannot insert a non-ICN based PDF image using the Contenta Insert Reference menu item in Arbortext Editor.
43194	The blue status bar occasionally hangs during S1000D Publish.
43737	After selecting applicability filtering for S1000D Publish, graphics referenced by the <code>applicRefIds</code> attribute in IPD data modules or by the <code>multimediaObject</code> tag are incorrectly filtered out of the published IETM.
43803	The blue bar hangs while Validate References with Recurse is running on a large data set.
43837	After clicking "Save" in PM Builder, an "[object]" error is displayed and the spinning circle process indicator does not stop. This issue happens only in Internet Explorer, not in Firefox.
43854	When running PM Builder on a new PM object whose S1000D Version is set to 4.0.1, PM Builder gives an error and will not open.
43784	When selecting the Contenta Assign Applicability menu item in Arbortext Editor 6.0 M080 or higher, a parsing error is reported against the Arbortext wcf (preferences) file.
43868	Prevent Upload of files greater than 4MB and provide information message to the user.
43852	LiveContent Preview displays error messages when the data module contains referenced acronyms (in some versions of IE, you may need to hover over the acronym to see the error).
CAS-962	Cannot display the Full BREX Report from the S1000D Validate UI due to an invalid URL.

Issue	Description
CAS-1398	Checkout issue: Some data modules open quickly in Arbortext Editor as if there is no associated schema, and Arbortext does not prompt to browse for a schema. This issue happens with DMs that have no newline characters in the header, i.e., the data above the root element.



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.

A Acknowledgments
