Aras Innovator 12

Release Notes

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Document Conventions

The following table highlights the document conventions used in the document:

Table 1: Document Conventions

Convention	Description
Bold	Emphasizes the names of menu items, dialog boxes, dialog box elements, and commands. Example: Click **OK**.
`Code`	Code examples appear in `courier` font. It may represent text you type or data you read.
`Yellow highlight`	Code highlighted in yellow draws attention to the code that is being indicated in the content.
`Yellow highlight with red text`	Red text highlighted in yellow indicates the code parameter that needs to be changed or replaced.
Italics	Reference to other documents.
Note:	Notes contain additional useful information.
Warning	Warnings contain important information. Pay special attention to information highlighted this way.
Successive menu choices	Successive menu choices may appear with a greater than sign (-->) between the items that you select consecutively. Example: Navigate to **File** --> **Save** --> **OK**.

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1 Release History

Version	Date	Comments
12.0	2019-05-30	Initial Release
12.0 SP1	2019-08-14	Patch Release
12.0 SP2	2019-10-03	Patch Release
12.0 SP3	2019-11-12	Patch Release
12.0 SP4	2019-12-30	Patch Release
12.0 SP5	2020-02-14	Patch Release
12.0 SP6	2020-03-30	Patch Release
12.0 SP7	2020-05-12	Patch Release
12.0 SP8	2020-06-22	Patch Release
12.0 SP9	2020-08-03	Patch Release
12.0 SP10	2020-09-14	Patch Release
12.0 SP11	2020-10-26	Patch Release
12.0 SP12	2020-12-03	Patch Release
12.0 SP12 AICD	2020-12-31	Supplemental Release (Aras Innovator Container Deployment)
12.0 SP14	2021-02-08	Patch Release

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2 Upgrading from Previous Releases

There are multiple potential states from which a Subscriber may wish to upgrade to Aras Innovator 12.

1. Aras Innovator 11 is running in production, and you wish to upgrade to the Aras Innovator 12 release.
2. You are running a version of Aras Innovator that is previous to release 11.
3. Aras Innovator 12 is running in production, and you wish to upgrade to the Aras Innovator 12.0 SP14 release.

The following sections will give you guidance as to how to upgrade from any of the described states.

2.1 Upgrading to Aras Innovator 12 from Aras Innovator 11

For customers with an active Premier Subscription, Upgrade Services are available to migrate your production Aras Innovator 11 (any service pack) version directly to Aras Innovator 12.

Customers with an active Premier Subscription can request Upgrade Services by contacting Aras Support at support@aras.com. Aras upgrade engineers will evaluate the system to determine if custom code will need any update for compatibility with Aras Innovator 12.

2.2 Upgrading to Aras Innovator 12 from Earlier Releases

Customers with an active Premier Subscription should contact Aras Support at support@aras.com to discuss the available options.

2.3 Upgrading to Aras Innovator 12.0 SP14 from Aras Innovator 12

Customers with an active subscription running any service pack of Aras Innovator 12 should refer to the *Aras Innovator 12.0 – Upgrading to Service Pack 14 from Aras Innovator 12.0* document.

2.4 Migrating from Aras Innovator 12.0 SP14 to Aras Innovator 12.0 SP14 AICD

Subscribers that want to move an on premise (MSI) installation of Aras Innovator to a containerized deployment of Aras Innovator will need to either deploy from scratch or complete an upgrade of Aras Innovator to 12.0 SP14 first. Subscribers running Aras Innovator 12.0 SP14 on premise (MSI) installation can migrate their system to a containerized deployment using documented procedures. To migrate to Aras Innovator 12.0 SP14 AICD, Subscribers should refer to the *Aras Innovator 12.0 - Cloud Resources Provisioning and Configuration Guide* document to set up the AICD cloud resources and then follow the instructions in the *Aras Innovator 12.0 - Container Build and Deployment Guide* document to migrate to AICD.

Customers with an active Premier Subscription should contact Aras Support at support@aras.com to discuss the migration process if they feel they cannot complete this process themselves. Aras Support will discuss how to plan the migration.

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3 Enhancements, Bug Fixes, and Known Issues

3.1 Version 12.0 SP14

3.1.1 Enhancements in Aras Innovator 12.0 SP14

Enterprise Search - Separate Install

- Prior to version Aras Innovator 12.0 SP14, portions of Enterprise Search were installed along with Aras Innovator. Starting with this version, Enterprise Search will be installed separately.
- Enterprise Search will be disabled in Aras Innovator 12.0 SP14 until the new Enterprise Search installation or upgrade is run.

Enhanced Text Search Feature with the ability to replace text

- The Technical Document Editor now has the ability to replace selected text for the contents of an entire document. This augments the current Text Search capability.

Enhanced usability in the Technical Document Editor

- The default Technical Document schema has enhanced editing logic that provides authoring features more like typical word processing applications. For example, selecting the Enter key will automatically add new list items for lists and text elements. In addition, administrators will be able to configure the logic associated with Enter, Backspace, and Delete key events to streamline the document editing function.

Improved Date Picker

- The new date picker dialog has improved usability and styling and allows easy entry of range searching options in simple search.

Reusable Commands

- New "Commands" capability within Configurable User Interface (CUI) provides the ability to easily reuse command bar functions in different locations in the user interface.

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3.1.2 Issues Fixed in Aras Innovator 12.0 SP14

Table 1: Framework

Issue #	Description
F-000163	New "Commands" capability within Configurable User Interface (CUI) provides the ability to easily reuse command bar functions in different locations in the user interface.
F-001534	Provided the ability to search a given string in the Technical Document Editor and replace the matches found in editable content with a separate specified string value.
F-001539	Provided Key Event handling for Enter, Backspace, and Delete Keys to provide default implementation for advanced editing of content in documents within the Technical Document Editor.
F-003000	Provided the underlying infrastructure to enable usability and content editing optimization for documents within the Technical Document Editor. This capability will allow customers to configure how the editor handles Key events for e.g. Enter, Backspace, and Delete, and Mouse click events.
F-003193	Added support for the following CAD versions: NX 1926, Inventor 2021, CATIA R2020, REVIT2020
F-003485	New date picker dialog has improved usability and styling, and allows easy entry of range searching options in simple search.
I-018696	Favorite searches created from the main search grid are now available from the modal search dialog.
I-023911, 086114	Fixed an issue in which the user would be unable to select actions for an ECO with unsaved changes because the action menu was blocked by a persistent pop-up.
I-024041	Fixed an issue that the page was not fully loaded during new Method creation.
I-025045	Provided usability improvements with ability to resize fields in Technical Document Item forms. Document Type Item - Content field, Document Style Item - Style field, Xml Schema Element Item - Editor Parameters & Generator Parameters fields.
I-025245, 088053	Fixed an issue in which favoriting an item failed for non-administrator users.
I-025591, 084416	Corrected an issue in which, after using the "Remove Additional Row Header" option and saving, the additional header would reappear.

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Issue #	Description
I-026624, 089107	Corrected an issue that would cause setViewMode/setEditMode to run more than once which would display an error after clicking the “Edit” button in cases like the Root Work Breakdown Structure if there was only the root WBS element within the Program Management application. The setViewMode/setEditMode method will no longer be triggered a second time when an Item Form is already in view/edit mode.

Table 2: Container Deployment

Issue #	Description
I-022179	Fixed an issue which could cause AKS node overscaling during AICD deployment.
I-023235	Fixed an issue preventing a user from exporting Items of a custom ItemType to PDF format in AICD.
I-023980	Fixed an issue producing a confusing error message during execution of SQLMigration script to produce the bacpac file.
I-025285	Fixed an issue leading to a potential AICD cluster install error due to external IP address not being determined.
I-026309	Fixed an issue preventing AICD from downloading large files on AICD.
I-026564	Fixed an issue producing a confusing error message when installing Component Engineering in AICD.

3.1.3 Known Issues in Aras Innovator 12.0 SP14

Table 3: Framework

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.

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Issue #	Description	Workaround
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.

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Issue #	Description	Workaround
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	The issue relates to the display of Float Cell View Types. Changing the Cell View Type to Decimal addresses the issue
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	Use correct static values for Boolean and Color values
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	

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Issue #	Description	Workaround
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	This is expected functionality associated with 'dynamic content'. Technical Document Administrators should take care when reconfiguring a Document Type when existing content may have been created
056836	CSS is not applied to Item properties in the main grid.	
057701	Cannot create an xProperty for Type item with a datasource file.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot be copied using the 'Save-As' Function.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	

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Issue #	Description	Workaround
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084173	Status item icons are not rendered when exporting the grid to PDF.	

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Issue #	Description	Workaround
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
087994	An error is displayed if the administrator views the History Container ItemType.	Close the error windows. The data is properly displayed.
088147	If an ItemType is set as RelationshipType and the RelationshipTypes Tab is open, ItemType fields other than Name and Singular Label in the form will be cleared after updating any field.	Save the ItemType. The fields will display the correct data after saving.
090177	After upgrading from a previous version of Aras Innovator in which Enterprise Search was installed, to Aras Innovator 12.0 SP14, an error is displayed when running Enterprise Search.	Enterprise Search has been separated from Aras Innovator deployment. A separate Enterprise Search upgrade procedure must be performed.
I-022139, 065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
038190, 038295	Self-Service Reports created prior to Aras Innovator 11.0 SP4 will generate an error message and do not execute after upgrade.	Please contact Aras support.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	

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Issue #	Description	Workaround
F-001881, 056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names.	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	

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Issue #	Description	Workaround
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.

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Issue #	Description	Workaround
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for content modified in Mapped Document Elements	Modified content must be changed back manually when edited in the Technical Document Editor
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.

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Issue #	Description	Workaround
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.
I-019172	If ItemType is set with Default Structure View = Tabs Min, items are opened with the second accordion section minimized, but then after opening it the accordion height is too small.	Reduce screen height, and the accordion height will be corrected.
I-019494, 057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
I-019902	If the method referenced by an Environment Attribute returns a different data type than the one originally called out, an error is returned on the save of the Environment Attribute and it cannot be used.	Log in as Administrator and delete the Environment Attribute.
I-020145	TGV toolbar of Dynamic 3D Viewer is not loaded when opening Dynamic 3D Viewer with clean cache in FF 68.8.	Refresh item or use a different browser.
I-020725, 064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
I-020825, 053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	Do not include referenced and related ItemTypes in a Query Definition when the relationship between those ItemTypes is reused.
I-021333	Incorrect structure is shown in "Where Used" when viewed as the superuser.	View the "Where Used" structure as a member of the administrator group.
I-021734, 084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.

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Issue #	Description	Workaround
I-021884	It is possible to add query parameters to an unclaimed Query Definition item which results in the 'Unsaved Changes' dialog appearing and an error being triggered if an attempt is made to Save.	
I-021983, 086674	An error may be displayed when a file is uploaded to the Vault via IOM Stream Interface using a child Item created with "createRelatedItem", "createRelationship", "createPropertyItem", "addRelationship", "getLogicalChildren", "getParentItem", "getRelatedItem", "newAND", "newOR", "newNOT" functions.	Upload file via a stream separately and then assign file ID to the appropriate child Item.
I-022388, 056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
I-023064, 085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
I-023336	MAC Policy appears to be editable but remains in a read-only state if the ‘New Version’ action is used on a currently displayed read-only policy.	Close and reopen the MAC Policy Form.
I-024473	Multi-select from search dialog using shift-click to select multiple items returns the selection in reverse order.	Select items using control key with click instead of shift-click.
I-024530	After editing a related item in a relationship tab of a source item, and clicking "Done Editing", the source item is incorrectly removed from any main search grid where it appears.	
I-024701	Context menu in Tree Grid View (with View, Grow, Trim, View Effectivity) is shown for 'Show More' line but an error is displayed if there is an attempt to use it.	
I-026236, I-026729	Activating more than one MAC Policy using the same xClasses and xProperties fails with an "Error during generate secured functions." message when the second MAC policy is saved/activated.	Create only one MAC policy and combine conditions using the AND operand.

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Issue #	Description	Workaround
I-026681	Activating a MAC policy with a Collection.Contains expression comparing to a constant fails with an error message - "Error during generate secured functions." e.g. condition= Collection.Contains(CurrentItem.[Derived attribute of List Data type], 'constant').	Redefine MAC policy to compare with a property value, not a constant.
I-026767	When a file is added to an Item in the Files Relationship Tab, the Viewer Icon/Tab is not immediately displayed in the sidebar.	Close the Item and Reopen.
I-028815	If the User opens an Item, deletes an already saved Item from Relationship Grid within that Item, and then closes the tab without saving - The Unsaved Changes dialog does not appear, the tab is closed, but the changes are not saved.	Save the Item before closing the tab.

Table 4: Container Deployment

Issue #	Description	Workaround

I-021877	Synchronous file uploading with the use of .apply() method fails for file size larger than 2GB with the following message:
	
	"NetworkError: Failed to execute 'send' on 'XMLHttpRequest': Failed to load..." and console error: “Access to XMLHttpRequest at ... from origin ... has been blocked by CORS policy.”
		Use .applyAsync() method to upload large files as shown below:
		var vlt = aras.vault;
		Promise.all([vlt.selectFile(), vlt.selectFile(), vlt.selectFile()]).then(function (fArray) {
		for(i = 1; i <= fArray.length; i++) {
		var file = fArray[i-1];
		var fItem = new Item("File", "add");
		fItem.setProperty("filename", file.name);
		fItem.attachPhysicalFile(file);
		fItem.applyAsync();
		}
		}).catch(function (error) { alert(error); });

I-022737	Opening document items from “Open from Aras” dialog in MS Office does not work.	Open the document item directly through the UI by editing the URL provided by the button to remove the 's-' prefix in front of the domain name and the 'InnovatorServer.aspx' after it.
I-024846	Images not downloaded from the Image Viewer tab when using Google Chrome or Microsoft Edge based on Chromium.	Use Firefox to download images from the Image Viewer tab

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Issue #	Description	Workaround
I-025113	DockerImageBuilder package container build might fail with the following log message: “Invoke-Expression -Command "C:/Container/register_fonts.ps1"' returned a non-zero code…”	Go back to the container build step and restart the container build. Because this error is specific to the Conversion Server, uncheck Agent Service and Client container build to expedite the subsequent build process.
I-025780	In rare situations, a new deployment of AICD may fail to start with the Innovator Server pods remaining in CrashLoopBackOff state	Redeploy the corresponding Helm release with Uninstall-ArasDeployment and Install-ArasDeployment commands
I-026406	Creating a Hyperscale database from a source database that belongs to a database pool does not complete.	Option #1: move the source database outside of the pool before copying it. Option #2: export the source database to a BACPAC file and use it as the source.
I-027278	RabbitMQ Helm release fails installation if its namespaces or release name are changed from default.	Keep cluster.components.rabbitmq.namespace and cluster.components.rabbitmq. helmreleasename to their default values during AICD cluster provisioning.
I-027316	Deploying a new AICD instance leads to resetting current web requests.	Deploy new AICD instances during maintenance windows so that users don't experience their sessions being reset.
I-028762, 090016	With AICD, client functionality based on the IOM library such as the Import/Export utility or Office Connector does not work on Windows 8.1	Use Windows 10 or higher on client machines that need to use such functionality.

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3.2 Version 12.0 SP12

3.2.1 Enhancements in Aras Innovator 12.0 SP12

Improvements to Configurator Services and Effectivity Services

- Aras Innovator Configurator Services and Effectivity Services have been improved with the addition of a new transformation algorithm. The improvements target how to solve a variability system and determine effective items.

Multi-selection from Items in CMF Documents

- This enhancement allows users to select multiple entries at once to apply to bound Items while adding content to a CMF (ex. DFMEA / PFMEA) Document.

Agent service now on .NET Core 3.1

- Aras Innovator Agent Service now runs on .NET Core 3.1. The benefit of this change will allow the long term use of a supported version of .NET Core which will enable future enhancements on Windows platforms as well as the possibility of expanding into the Linux platform. This change also allows the Agent Service to support a "Graceful shutdown mechanism".

Zoom to Selection

- Provides an alternative viewing function for the 3D Monolithic and Dynamic Viewers to zoom by a selected area in the viewer.

Zoom to Cursor Position

- Provides an alternative viewing function for the 3D Monolithic and Dynamic Viewers to zoom around the current mouse/cursor position.

Update to Document Types

- The Document Type CSS Style Editor has been enhanced to provide syntax highlighting and a visual indication when CSS Content doesn't conform to CSS syntax rules.
- Adds a Default Lifecycle and related Permissions to be applied to the Document Type. These Items can be applied at the discretion of the Aras Innovator Administrator.

Date operators in Simple Search

- Simple search mode now supports operators for searches on Date properties, including >, >=, <, <=, and … (range)

Improved client synchronization

- Improved synchronization within the user's client session, so that commands such as Edit, Claim, Save, and Done accurately update the item's edit state (like claim and edit icons) across every place that item is displayed in the current session.

Enabler for Aras Innovator Container Deployment

- Aras Innovator has been modified to work inside of a containerized deployment. This feature is not available at the time of release of Aras Innovator 12.0 SP12 but will be made available as a separate update to Aras Innovator 12.0 SP12 called Aras Innovator Containerized Deployment or AICD for short. AICD will allow the deployment of Aras Innovator 12.0 SP12 in docker containers on Microsoft Azure when released.

Improved configurability of Item display in Results for Enterprise Search

- Provides the ability to select which properties are shown in what order in the Title, Sub Title and Additional Info section for each ItemType of the Search Results in Enterprise Search.

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Improved usability of options list in Filter popup for Enterprise Search

- Improved usability of the Filter popup in Search Results of Enterprise Search with the ability to view "Everything" or "Selected" options

Mass expand/collapse functionality for Enterprise Search.

- Enterprise Search now has a new control to Expand or Collapse all existing filters at once. This will make it easier to find the desired filters.

3.2.2 Issues Fixed in Aras Innovator 12.0 SP12

Issue #	Description
F-001508	Aras Update Packages were added to make the installation and configuration of the Dynamic Viewer and CAD to PDF Conversion easier/quicker for Administrators.
F-002001	Simple search mode now supports operators for searches on Date properties, including >, >=, <, <=, and … (range).
F-002221	Improved synchronization within the user's client session, so that commands such as Edit, Claim, Save, and Done accurately update the item's edit state (like claim and edit icons) across every place that item is displayed in the current session.
F-002838	Provides an alternative viewing function for the 3D Monolithic and Dynamic Viewers to zoom by a selected area in the viewer.
F-002849	Configurator Services and Effectivity Services have been enhanced by adding a new CNF transformation algorithm.
F-003031	Provides an alternative viewing function for the 3D Monolithic and Dynamic Viewers to zoom around the current mouse/cursor position.
F-003064	Added Viewer Preferences dialog to provide an interface for new and future 3D Viewer Preference selections.
F-003069	Improved client cache management on log in of Aras Innovator, when using HTTPS.
F-003148	The Document Type CSS Style Editor has been enhanced to provide syntax highlighting and a visual indication when CSS Content doesn't conform to CSS syntax rules.
F-003281	Added a Default Lifecycle and related Permissions to be applied to the Document Type for the Technical Document Framework. These Items can be applied at the discretion of the Aras Innovator Administrator.

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Issue #	Description
I-012327	Corrected an issue in which, in the 3D Viewer, hiding or showing a single component which had several instances would hide or show the component in all instances. The system now, correctly, hides or shows the component only in the selected instance.
I-024250, I-024182	Relationship grids for the Workflow Map ItemType have been updated so that the Edit option is now present in context menus of these grids.
I-024602, 088039	Fixed an issue where HTML formatted text in "Formatted Text" cells was not being displayed along with images.

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3.2.3 Known Issues in Aras Innovator 12.0 SP12

Table 5: Framework

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	

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Issue #	Description	Workaround
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	The issue relates to the display of Float Cell View Types. Changing the Cell View Type to Decimal addresses the issue
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	Use correct static values for Boolean and Color values
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.

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Issue #	Description	Workaround
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	This is expected functionality associated with 'dynamic content'. Technical Document Administrators should take care when reconfiguring a Document Type when existing content may have been created
056836	CSS is not applied to Item properties in the main grid.	
057701	Cannot create an xProperty for Type item with a datasource file.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot be copied using the 'Save-As' Function.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	

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Issue #	Description	Workaround
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	

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Issue #	Description	Workaround
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	

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Issue #	Description	Workaround
078628	Fields on a Property form overlap each other in German.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
087994	An error is displayed if the administrator views the History Container ItemType.	Close the error windows. The data is properly displayed.
088147	If an ItemType is set as RelationshipType and the RelationshipTypes Tab is open, ItemType fields other than Name and Singular Label in the form will be cleared after updating any field.	Save the ItemType. The fields will display the correct data after saving.
038190, 038295	Self-Service Reports created prior to Aras Innovator 11.0 SP4 will generate an error message and do not execute after upgrade.	Please contact Aras support.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	

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Issue #	Description	Workaround
F-001881, 056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
F-002384, F-003142	Enterprise Search permission crawler doesn't support MAC Policy features.	-
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names.	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search.	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	

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Issue #	Description	Workaround
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	

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Issue #	Description	Workaround
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for content modified in Mapped Document Elements	Modified content must be changed back manually when edited in the Technical Document Editor
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.

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Issue #	Description	Workaround
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.
I-018696	Favorite searches created from the main search grid are not available from the modal search dialog.	
I-019172	If ItemType is set with Default Structure View = Tabs Min, items are opened with the second accordion section minimized, but then after opening it the accordion height is too small.	Reduce screen height, and the accordion height will be corrected.
I-019494, 057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
I-019902	If the method referenced by an Environment Attribute returns a different data type than the one originally called out, an error is returned on the save of the Environment Attribute and it cannot be used.	Log in as Administrator and delete the Environment Attribute.
I-020145	TGV toolbar of Dynamic 3D Viewer is not loaded when opening Dynamic 3D Viewer with clean cache in FF 68.8.	Refresh item or use a different browser.
I-020725, 064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.

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Issue #	Description	Workaround
I-020825, 053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	Do not include referenced and related ItemTypes in a Query Definition when the relationship between those ItemTypes is reused.
I-021333	Incorrect structure is shown in "Where Used" when viewed as the superuser.	View the "Where Used" structure as a member of the administrator group.
I-021734, 084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
I-021884	It is possible to add query parameters to an unclaimed Query Definition item which results in the 'Unsaved Changes' dialog appearing and an error being triggered if an attempt is made to Save.	
I-021983, 086674	An error may be displayed when a file is uploaded to the Vault via IOM Stream Interface using a child Item created with "createRelatedItem", "createRelationship", "createPropertyItem", "addRelationship", "getLogicalChildren", "getParentItem", "getRelatedItem", "newAND", "newOR", "newNOT" functions.	Upload file via a stream separately and then assign file ID to the appropriate child Item.
I-022139, 065800	Active ‘Pick Plane’ is cloned after the selection of any ‘CAD View’ in the Model Browser ‘Views’ tab in Visual Collaboration.	
I-022388, 056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
I-023064, 085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
I-023336	MAC Policy appears to be editable but remains in a read-only state if the ‘New Version’ action is used on a currently displayed read-only policy.	Close and reopen the MAC Policy Form.

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Issue #	Description	Workaround
I-024473	Multi-select from search dialog using shift-click to select multiple items returns the selection in reverse order.	Select items using control key with click instead of shift-click.
I-024530	After editing a related item in a relationship tab of a source item, and clicking "Done Editing", the source item is incorrectly removed from any main search grid where it appears.	
I-024701	Context menu in Tree Grid View (with View, Grow, Trim, View Effectivity) is shown for 'Show More' line but an error is displayed if there is an attempt to use it.	
I-025591, 084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
I-026624, 089107	When using the Program Management application, an error is displayed after clicking the “Edit” button in the Root Work Breakdown Structure if there is only the root WBS element.	Add a new WBS. or Claim the project then click Edit. After closing the error work can be done as expected.
I-026767	When a file is added to an Item in the Files Relationship Tab, the Viewer Icon/Tab is not immediately displayed in the sidebar.	Close the Item and Reopen.

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Table 6: Container Deployment

Issue #	Description	Workaround

I-021877	Synchronous file uploading with the use of .apply() method fails for file size larger than 2GB with the following message:
	
	"NetworkError: Failed to execute 'send' on 'XMLHttpRequest': Failed to load..." and console error: “Access to XMLHttpRequest at ... from origin ... has been blocked by CORS policy.”
		Use .applyAsync() method to upload large files as shown below:
		
		var vlt = aras.vault;
		
		Promise.all([vlt.selectFile(), vlt.selectFile(), vlt.selectFile()]).then(function (fArray) {
		
		for(i = 1; i <= fArray.length; i++) {
		
		var file = fArray[i-1];
		
		var fItem = new Item("File", "add");
		
		fItem.setProperty("filename", file.name);
		
		fItem.attachPhysicalFile(file);
		
		fItem.applyAsync();
		
		}
		
		}).catch(function (error) { alert(error); });

I-022737	Opening document items from “Open from Aras” dialog in MS Office does not work.	Open the document item directly through the UI by editing the URL provided by the button to remove the 's-' prefix in front of the domain name and the 'InnovatorServer.aspx' after it.
I-023235	Exporting an item to a PDF file from an item form does not work.	
I-023980	‘item_id_change’ stored procedure (used by Office Connector) is absent after migrating an MS SQL DB to BACPAC.	Prior to using an AICD deployment with Office Connector for the first time, script out ‘item_id_change’ stored procedure from an MS SQL Aras Innovator Database and create it in the migrated database in Azure SQL DB.
I-024846	Images not downloaded from the Image Viewer tab when using Google Chrome or Microsoft Edge based on Chromium.	Use Firefox to download images from the Image Viewer tab.
I-025113	DockerImageBuilder package container build might fail with the following log message: “Invoke-Expression -Command "C:/Container/register_fonts.ps1"' returned a non-zero code…”	Go back to the container build step and restart the container build. Because this error is specific to the Conversion Server, uncheck Agent Service and Client container build to expedite the subsequent build process.

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Issue #	Description	Workaround
I-025780	In rare situations, a new deployment of AICD may fail to start with the Innovator Server pods remaining in CrashLoopBackOff state.	Redeploy the corresponding Helm release with Uninstall-ArasDeployment and Install-ArasDeployment commands.
I-026406	Creating a Hyperscale database from a source database that belongs to a database pool does not complete.	Option #1: move the source database outside of the pool before copying it. Option #2: export the source database to a BACPAC file and use it as the source.
I-026309	Downloading large files from Innovator Vault might result in an HTTP error 504 if the network connection speed is slow.	Redeploy the corresponding Helm release with a fixed number of the Vault Server replicas by setting Helm variables for services.aras-vault.minReplicas and services.aras-vault.maxReplicas to the same values in an additionalChartValues file.

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Version 12.0 SP11

3.2.4 Enhancements in Aras Innovator 12.0 SP11

Improvements to Item's Workflow List Dialog

- When an item goes through more than one workflow, a workflow list dialog is presented to allow a user to select a specific workflow for more details. This dialog has been improved by adding date/time properties as well as the user identity which initiated the workflow. This allows a user to more easily differentiate between the workflows.

Maximize Life Cycle and Workflow windows

- A maximize button is now available on Life Cycle and Workflow modal windows, to see the content in a larger area.

Improved PolyItem create dialog

- The PolyItem create dialog has been improved both in terms of usability and styling. Only the poly sources for which the user has Can Add permission are now displayed, and if only one poly source is permitted for a given user, the item is created immediately.

Pop-up dialogs updated for consistent usability

- Many common dialogs are updated for consistent usability and styling, including "About", "Activate Feature", "Service not available", "Activation Error", "Activation Successful", "Import Feature License", "Prompt", "Purge", "Delete", "Search mode Warning", "Unsaved Changes", "Change Password", "Change E-Signature" and "Error" dialogs.

Default authentication method

- Plugin for Default authentication method has been created. Now Administrator is able to configure default authentication method and database. After this User will be redirected to predefined (default) authentication method and database even on first login skipping Innovator login screen in case of external authentication.

Dynamic Viewer improvements

- The Dynamic Viewer - used for 3D Visualization - has been improved for initial load and refresh for displaying 3D content.

3.2.5 Issues Fixed in Aras Innovator 12.0 SP11

Issue #	Description
F-000424	Many common dialogs are updated for consistent usability and styling, including "About", "Activate Feature", "Service not available", "Activation Error", "Activation Successful", "Import Feature License", "Prompt", "Purge", "Delete", "Search mode Warning", "Unsaved Changes", "Change Password", "Change E-Signature" and "Error" dialogs.
F-002500	Editing change made to properties of an item in a relationship grid are automatically synchronized with properties in form fields, if that same item is currently open in a main tab.

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Issue #	Description
F-002940	Query Builder has been improved for cases where aggregate functions are used in conditions.
F-002998, F-003005, F-003063	The Dynamic Viewer - used for 3D Visualization - has been improved for initial load and refresh for displaying 3D content.
F-003075	A Maximize button is now available on Life Cycle and Workflow modal windows, to see the content in a larger area.
F-003076	The PolyItem create dialog has been improved both in terms of usability and styling. Only the poly sources for which the user has Can Add permission are now displayed, and if only one poly source is permitted for a given user, the item is created immediately.
F-003138	When an item goes through multiple workflows, a workflow list dialog is presented to allow a user to select a specific workflow for more details. This dialog has been improved by adding date/time properties as well as the user identity which initiated the workflow.
I-022361, 086815	The Technical Document Editor will now render external/referenced content after it has been converted.
I-022730	Corrected an issue in which, if the 'Zoom Window' was applied in the PDF Viewer and 'Measure' was applied with recorded measurement, the discussion panel would save the measurement values, but the measurement point labels would not be displayed in the snapshot.
I-022731	Corrected an issue in which, if 'Zoom' was applied in PDF Viewer and 'Measure' was applied with recorded measurement, the discussion panel would save the measurement values, but the measurement point labels would be shifted in the snapshot.

3.2.6 Known Issues in Aras Innovator 12.0 SP11

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.

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Issue #	Description	Workaround
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.

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Issue #	Description	Workaround
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	The issue relates to the display of Float Cell View Types. Changing the Cell View Type to Decimal addresses the issue
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	Use correct static values for Boolean and Color values
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	

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Issue #	Description	Workaround
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	This is expected functionality associated with 'dynamic content'. Technical Document Administrators should take care when reconfiguring a Document Type when existing content may have been created
056836	CSS is not applied to Item properties in the main grid.	
057701	Cannot create an xProperty for Type item with a datasource file.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot be copied using the 'Save-As' Function.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	

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Issue #	Description	Workaround
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	
078630	Fields in User ItemType overlap each other in German.	

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Issue #	Description	Workaround
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
087994	An error is displayed if the administrator views the History Container ItemType.	Close the error windows. The data is properly displayed.
088147	If an ItemType is set as RelationshipType and the RelationshipTypes Tab is open, ItemType fields other than Name and Singular Label in the form will be cleared after updating any field.	Save the ItemType. The fields will display the correct data after saving.
I-022139, 065800	Active ‘Pick Plane’ is cloned after the selection of any ‘CAD View’ in the Model Browser ‘Views’ tab in Visual Collaboration.	
038190, 038295	Self-Service Reports created prior to Aras Innovator 11.0 SP4 will generate an error message and do not execute after upgrade.	Please contact Aras support.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	

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Issue #	Description	Workaround
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-001881, 056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
F-002384, F-003142	Enterprise Search permission crawler doesn't support MAC Policy features.	
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names.	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search.	

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Issue #	Description	Workaround
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.

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Issue #	Description	Workaround
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for content modified in Mapped Document Elements	Modified content must be changed back manually when edited in the Technical Document Editor

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Issue #	Description	Workaround
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.
I-018696	Favorite searches created from the main search grid are not available from the modal search dialog.	
I-019172	If ItemType is set with Default Structure View = Tabs Min, items are opened with the second accordion section minimized, but then after opening it the accordion height is too small.	Reduce screen height, and the accordion height will be corrected.
I-019494, 057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
I-020145	TGV toolbar of Dynamic 3D Viewer is not loaded when opening Dynamic 3D Viewer with clean cash in FF 68.8.	Refresh item or use a different browser.

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Issue #	Description	Workaround
I-020725, 064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
I-020825, 053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	Do not include referenced and related ItemTypes in a Query Definition when the relationship between those ItemTypes is reused.
I-021333	Incorrect structure is shown in "Where Used" when viewed as the superuser.	View the "Where Used" structure as a member of the administrator group.
I-021734, 084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
I-021884	It is possible to add query parameters to an unclaimed Query Definition item which results in the 'Unsaved Changes' dialog appearing and an error being triggered if an attempt is made to Save.	
I-021983, 086674	An error may be displayed when a file is uploaded to the Vault via IOM Stream Interface using a child Item created with "createRelatedItem", "createRelationship", "createPropertyItem", "addRelationship", "getLogicalChildren", "getParentItem", "getRelatedItem", "newAND", "newOR", "newNOT" functions.	Upload file via a stream separately and then assign file ID to the appropriate child Item.
I-022388, 056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
I-023064, 085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
I-023336	MAC Policy appears to be editable but remains in a read-only state if the ‘New Version’ action is used on a currently displayed read-only policy.	Close and reopen the MAC Policy Form.

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3.3 Version 12.0 SP10

3.3.1 Enhancements in Aras Innovator 12.0 SP10

Ability to configure title bar content with CUI

- Administrators can now use CUI to configure the content of the title bar in Search Views, Search Dialogs, Relationship Views, and Graph Views. See the Configurable User Interface Admin Guide for examples.

Ability to display Life Cycle State labels instead of names

- It is now possible to display labels instead of names of Life Cycle States (including multi-lingual localized labels) in forms and grids. This is configured by exposing the "current_state" property on the form or in the grid, as opposed to the "state" property which continues to display the state name. The Mass Promote grid now also shows the label instead of name, no configuration is necessary.

Authentication Framework

- Introduced the ability to default to an authentication mode when more than one custom authentication option is enabled.

Change Referenced Item for Mapped Document Elements

- This feature allows authors of Technical Document Framework (TDF)-enabled Documents to change the item that is referenced by a Document Element.

Create Image from TDF-enabled Document

- The Technical Document Framework (TDF) now supports the ability to create Graphic Document Elements by selecting image files within a Document.

Digital Mockup

- The Dynamic Viewer now supports the ability to load and display additional Assemblies within a single view.

Maximize Item View Accordions

- The user can now easily maximize a single accordion within the item view, to see the content (form, relationship grid, tree grid view, custom view, etc.) in a larger screen area.

Paste Image into TDF-enabled Document via clipboard

- The Technical Document Framework (TDF) now supports the ability to paste images into a Document using the clipboard.

3.3.2 Issues Fixed in Aras Innovator 12.0 SP10

Issue #	Description
F-001288	The Technical Document Framework (TDF) now supports the ability to create Graphic Document Elements by selecting image files within a Document.

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Issue #	Description
F-001289	The Technical Document Framework (TDF) now supports the ability to paste images into a Document using the clipboard.
F-001359	MAC Policy, Derived Relationship Family and DAC Definition ItemType toolbars are updated to use the standard UI stylesheet for layout, and the item views are displayed in accordion style.
F-001431	It is now possible to display labels instead of names of Life Cycle States (including multi-lingual localized labels) in forms and grids. This is configured by exposing the "current_state" property on the form or in the grid, instead of the "state" property which continues to display the state name. This is done as follows: On a form: • In the Form editor, add the "current_state" property to the form. Use the default Field Type “Item”. • Remove the “state” property from the form. • Position the “current_state” property where the “state” property was previously located • Set the Field Label of the “current_state” property as desired In a grid: • In the Properties tab of an ItemType, set the Hidden and Hidden2 values for the "current_state" property OFF • Set the Hidden and Hidden2 values for the "state" property ON • Set the Label of the “current_state” property as desired Note that for both the form and grid, special logic is in place to have the “current_state” property, which is a property of type Item, display as a property of type String, the same as how “State” is displayed. This logic is used only for this specific property. The Mass Promote grid now also shows the label instead of name, no configuration is necessary for this.
F-001525	The Dynamic Viewer now supports the ability to load and display additional Assemblies within a single view.
F-002100, I-020727, I-020728, 083697, 085267	Maximize button is now available on item view accordions, to see the content in a larger screen area.

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Issue #	Description
F-002497	Edits made to an item's properties from a form or a relationship grid will update automatically for those items as displayed in main search grids or modal search grids, upon clicking out of the field being edited.
F-002771	Aras CAD to PDF Converter and viewer now supports NX v1899, Parasolid v32, and Revit 2020.
F-002782	Form, Content Type, Life Cycle Map and Workflow Map ItemType toolbars are updated to use the standard UI stylesheet for layout.
F-002979	Authors of Technical Document Framework (TDF)-enabled Documents can now change the item that is referenced by a Document Element.
I-008176, IR-065360	Improved DAC to prevent errors during application of policies.
I-013224, 080741	Corrected an issue which would generate an error message if the user clicked on the "Edit" button before the content was fully loaded when opening an item.
I-013571	Fixed the issue which would cause an error message to be displayed when trying to save a Life Cycle from the Unsaved Items dialog triggered during Logout.
I-015440	Resolved issue where indexing of a large number of files caused an infinite processing loop in Enterprise Search.
I-015672	Fixed issue that could cause database deadlocks to occur when saving an ECO.
I-015927	Fixed issue with incorrect search paging count when switching pages.
I-015944, 082834	Sorting by Item properties in grids now works correctly based on the Keyed Name.
I-016058	Fixed an issue that caused an incorrect row count to be displayed in the Search Grid for the 'root' user.
I-019073, 056080	Improved installation so that the user is now prompted for OAuth Settings after selecting the "Complete" installation option.
I-019307, 080237	Fixed an issue that when editing a Method which is already linked to a CUI Menu Item through either the init_method or on_click_method property, these properties would not be automatically updated with the newest version of the method.

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Issue #	Description
I-019496	MAC Environment Attribute (EA) now checks to confirm that it links to a server method without error before accepting the reference.
I-019535	The Copy Relationship command is now available in Content Type item while initializing context menu for row in relationship grid.
I-020911	Fixed an issue that prevented switching to view mode from markup mode on an out-of-context file.
I-021041	When restoring markup from the discussion panel, with Autoexecute query turned on, the Dynamic Viewer is opened and parameters are now applied without a refresh required.
I-021254	Fixed an issue where a custom button could disappear from the Item sidebar after the user clicks first on the custom button and then on a different button in the item toolbar while Visual Collaboration is enabled.
I-021792	Administrators can now use CUI to configure the content of the title bar in Search Views, Search Dialogs, Relationship Views, and Graph Views.
I-021866, 063170	Non-text symbols are no longer displayed in table cells as placeholders within Technical Documentation Framework enabled Documents.

3.3.3 Known Issues in Aras Innovator 12.0 SP10

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.

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Issue #	Description	Workaround
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.

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Issue #	Description	Workaround
048590	Tree Grid View does not support the display of all Property Item data types.	The issue relates to the display of Float Cell View Types. Changing the Cell View Type to Decimal addresses the issue
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	Use correct static values for Boolean and Color values
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	

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Issue #	Description	Workaround
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	This is expected functionality associated with 'dynamic content'. Technical Document Administrators should take care when reconfiguring a Document Type when existing content may have been created
056836	CSS is not applied to Item properties in the main grid.	
057701	Cannot create an xProperty for Type item with a datasource file.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot be copied using the 'Save-As' Function.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	

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Issue #	Description	Workaround
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	
078630	Fields in User ItemType overlap each other in German.	

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Issue #	Description	Workaround
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
I-022139, 065800	Active ‘Pick Plane’ is cloned after the selection of any ‘CAD View’ in the Model Browser ‘Views’ tab in Visual Collaboration.	
038190, 038295	Self-Service Reports created prior to Aras Innovator 11.0 SP4 will generate an error message and do not execute after upgrade.	Please contact Aras support.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	

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Issue #	Description	Workaround
F-001881, 056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
F-002384, F-003142	Enterprise Search permission crawler doesn't support MAC Policy features.	
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names.	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search.	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	

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Issue #	Description	Workaround
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.

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Issue #	Description	Workaround
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for content modified in Mapped Document Elements	Modified content must be changed back manually when edited in the Technical Document Editor

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Issue #	Description	Workaround
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.
I-018696	Favorite searches created from the main search grid are not available from the modal search dialog.	
I-019172	If ItemType is set with Default Structure View = Tabs Min, items are opened with the second accordion section minimized, but then after opening it the accordion height is too small.	Reduce screen height, and the accordion height will be corrected.
I-019494, 057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
I-020145	TGV toolbar of Dynamic 3D Viewer is not loaded when opening Dynamic 3D Viewer with clean cash in FF 68.8.	Refresh item or use a different browser.

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Issue #	Description	Workaround
I-020725, 064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
I-020825, 053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	Do not include referenced and related ItemTypes in a Query Definition when the relationship between those ItemTypes is reused.
I-021333	Incorrect structure is shown in "Where Used" when viewed as the superuser.	View the "Where Used" structure as a member of the administrator group.
I-021734, 084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
I-021884	It is possible to add query parameters to an unclaimed Query Definition item which results in the 'Unsaved Changes' dialog appearing and an error being triggered if an attempt is made to Save.	
I-021983, 086674	An error may be displayed when a file is uploaded to the Vault via IOM Stream Interface using a child Item created with "createRelatedItem", "createRelationship", "createPropertyItem", "addRelationship", "getLogicalChildren", "getParentItem", "getRelatedItem", "newAND", "newOR", "newNOT" functions.	Upload file via a stream separately and then assign file ID to the appropriate child Item.
I-022361, 086815	The Technical Document Editor does not properly distinguish external content after it has been converted.	This is an issue with the display. Users can insert external Technical Document content and it will be rendered properly.
I-022388, 056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	

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Issue #	Description	Workaround
I-022730	If 'Zoom Window' is applied in the PDF Viewer and 'Measure' is applied with recorded measurement, the discussion panel will save the measurement values, but the measurement point labels will not be displayed in the snapshot.	Record measurement in in 'Full Width' view state to display measurement point labels correctly in the snapshot.
I-022731	If 'Zoom' is applied in PDF Viewer and 'Measure' is applied with recorded measurement, the discussion panel will save the measurement values, but the measurement point labels will be shifted in the snapshot.	Record measurement in in 'Full Width' view state to display measurement point labels correctly in the snapshot.
I-023064, 085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
I-023336	MAC Policy appears to be editable but remains in a read-only state if the ‘New Version’ action is used on a currently displayed read-only policy.	Close and reopen the MAC Policy Form.

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3.4 Version 12.0 SP9

3.4.1 Enhancements in Aras Innovator 12.0 SP9

Background Page

- When the user first logs in, a new Background Page is displayed which shows a tiled view of the user's TOC entries. Clicking on a tile opens the corresponding search grid or HTML page. Contents of this page can be configured, for example to show company-specific information to the user when they first log in.

Markup in the Dynamic Viewer

- Implemented the ability to create Visual Collaboration markup on 3D Views displayed in the Dynamic Viewer.

Improved Graph Navigation display of connections to incoming nodes

- Graph View now displays connections to incoming nodes, such as where-used relationships, on the left side of nodes. This is distinct from outgoing connections which are shown on the right side. Incoming and outgoing nodes can be expanded and collapsed independently.

Ability to define the default Graph View Definition expand state

- A new option for Graph View Definition allows the administrator to define a default expand state, so that when the user opens a graph based on this definition, it is pre-expanded to the desired level.

Aras Innovator Telemetry with Microsoft Azure Application Insights Integration

- Aras Innovator now supports integration with Azure Monitor's Application Insights. Application Insights is available through Azure and is a useful tool for monitoring your Aras Innovator Installation’s health, performance, and availability. It can assist in diagnostics. For details on cost and usage, see Microsoft's Azure documentation.

Ability to configure a Tree Grid View as a sidebar tab

- Using the Client User Interface it is now possible to configure a Tree Grid View as a sidebar tab. This option allows more screen area to be used for the Tree Grid View, compared to the existing option to display as a tab in an accordion.

Alternate Query Definition Execution Result format

- The Query Builder now provides an ability to display the query results, from the Query Execution Dialog, in a flat format. The flat response format is a more compact representation of query results and is anticipated for use in future versions of Query Execution.

Enterprise Search with DAC support

- Enterprise Search can now be configured to evaluate Domain Access Control permissions for data, and access will then be granted based on a combination of standard permissions and DAC permissions. By default, Domain Access Control permissions are not evaluated.

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3.4.2 Issues Fixed in Aras Innovator 12.0 SP9

Issue #	Description
057724	Documentation has been updated to reflect that xProperty should not be renamed while being used in an active MAC policy. The MAC Policy must be first disabled and then updated before renaming the xProperty.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message now correctly appears in the Discussion panel. Previously created secure messages will no longer disappear and a script error no longer occurs.
058445	Fixed an issue that resulted in an incorrect Count as applied to Query Items that referred to ItemTypes with overridden 'OnGet' Methods.
071948	Fixed an issue with the Query Builder that caused child Quert Items to be removed when the Join Condition was updated.
071952	When using IE, the browser could crash during execution of a large Query structure based on the number of parameters. IE is no longer supported and this issue does not occur in any other browser.
078629	In Visual Collaboration, the Calendar is now visible in the Discussion panel for searching.
078694	Users do not have the option to delete a favorite search when it is shared with them.
084606	A recently created user has the corresponding permissions correctly set after being added to an Identity without requiring an IIS restart or deleting cookies.
085736	Corrected a case in which saving an xClassification Tree and updating, may generate an error message "xClass <id> has inconsistent sort order". This error no longer occurs.
F-001146, I-016640, I-016641, 053279, 054204, 049190, 049929, 065716, 077120, 085555, 085604	The Filter List dropdown in search grids now shows only the values appropriate for the currently selected value of the dependent List property.

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Issue #	Description
F-001643	Implemented the ability to create Visual Collaboration markup on 3D Views displayed in the Dynamic Viewer.
F-001893	Graph views now clearly display connections to incoming nodes, such as where-used relationships, on the left side of nodes, distinct from outgoing connections which are shown on the right side.
F-001909	A new option for Graph View Definition allows the administrator to define a default expand state, so that when the user opens a graph based on this definition, it is pre-expanded to the desired level.
F-001945	Using CUI, it is now possible to configure a Tree Grid View as a sidebar tab.
F-002143	The Item sidebar has been redesigned and refactored for consistent layout and customization using CUI.
F-002358	Dropdown menus are updated to improve behavior when operating in a small area.
F-002438	The Query Builder now provides an ability to display the query results, from the Query Execution Dialog, in a flat format. The flat response format is a more compact representation of query results and is anticipated for use in future versions of Query Execution.
F-002476, 064540	The Enterprise Search permission crawler will now evaluate DAC permissions for data, and access will be granted based on a combination of standard permissions and DAC permissions. This support requires the variable es_EnablePersistentDAC to be created and set to 1. NOTE: This issue originally covered both MAC and DAC. MAC Policies will not be evaluated by the permission crawler in Enterprise Search. See F-002384 in Known Issues.
F-002766	The Sort Across Pages option is now supported for searches in relationship grids.
F-002784	Introduce new Background Page which shows a tiled view of the user's TOC entries after login.
I-000628	Fixed issue where scrollbars were incorrectly displayed within the User menu in some situations.
I-004025	Fixed an issue with the Dynamic Viewer that caused the orientation of the 3D View to change when the view was refreshed.
I-005497, I-001432	Fixed issue where scrollbars were incorrectly introduced within a relationship grid context menu in some situations.

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Issue #	Description
I-007440	Favorite search cannot be deleted if it is added to a Forum and an error message is generated with this information.
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it and now correctly displays the change on the screen.
I-011921, 075507	Internet Explorer is no longer a supported browser for Aras Innovator.
I-013212, 081098	Fixed issue with search with Query Type = "Released", where an incorrect search count was returned.
I-013395	Addressed an issue that two scrollbars were shown in 'Debug' tab of the Method editor if there were too many errors listed.
I-013491, 082430	Fixed issue with Command Bar definition in CUI where button is not displayed after changing TOC Access definition.
I-013841	Fixed issue where the discard changes dialog was shown after unclaiming a source item, when a related item was claimed from the search grid but no changes were made.
I-014147	Fixed an issue where selected Elements in the Technical Document editor did not have a visual indication of being selected.
I-015114	Addressed an issue in graph navigation code that causes node expansion to fail when the JOIN condition contains more than a single conditions.
I-015482, I-015996, 083679	The Technical Document Editor now loads correctly if the Default Language Parameter was changed to specify a different language.
I-015518	Addressed an issue where after switching from the Technical Document Form and back to the Editor, the Secondary view refreshed and displayed the current document version in both views in side-by-side mode.
I-015656, 079191	Fixed an issue with the Tree Grid View Definition Editor that caused the editor to erase the contents when a child of a Reused Query Item was mapped.
I-015780	Changed the application of Negation logic so that duplicate entries at the top two rows of a Query Definition no longer appear.

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Issue #	Description
I-015996, 083679	Addressed an issue where users were not able to use a Technical Document with ItemInfo added in a different default language.
I-017127, 058627	Addressed an issue with styling (Bold, Italic, underline, strikeout, sub, super) that required text to be pre-selected.
I-017323	Solr can be installed as a single component for the distributed installation of Enterprise Search.
I-017613, 078725, 083505	Corrected the onsearchdialog to include support for the OR ("|") operator.
I-018472, 084457	Fixed an issue where the total results of a search was not updating after executing a new search that returned less values than the previous search.
I-018549	Addressed an issue where the incoming relationship was not appearing as a connector but as an empty View Card in Graph View. Now the Connector is displayed between the context Item and its parent Item.
I-018560, I-021491	Corrected the issue in which the escape character backslash (\) was treated as a literal string, preventing searching on the OR operator character (|).
I-018612	Fixed an issue where the item sidebar was not displayed full size after resizing the item view.
I-018613	Fixed an issue where Navigation Panel sidebar items were disappearing after resizing the browser window.
I-019083	Addressed an issue to show Nodes with Recursion of the same ItemType to be displayed in the Graph View when graph is opened with auto-expand.
I-019126	In the Dynamic Viewer, cutting planes are now sized correctly after restoring a Saved View.
I-019415	Addressed an issue with saving TDF enabled documents taking a long time to load by reducing the number of requests made to the server for certain actions.
I-020493, 080727	The Type column in the Unsaved Items dialog now displays the label of the ItemType instead of the name.
I-021045, 086094	Addressed an issue where user would see an error when attempting to resolve conflicts in the changes by Discard Changes.

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3.4.3 Known Issues in Aras Innovator 12.0 SP9

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	

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Issue #	Description	Workaround
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	The issue relates to the display of Float Cell View Types. Changing the Cell View Type to Decimal addresses the issue
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	Use correct static values for Boolean and Color values
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.

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Issue #	Description	Workaround
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	This is expected functionality associated with 'dynamic content'. Technical Document Administrators should take care when reconfiguring a Document Type when existing content may have been created
056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056836	CSS is not applied to Item properties in the main grid.	
057701	Cannot create an xProperty for Type item with a datasource file.	

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Issue #	Description	Workaround
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot be copied using the 'Save-As' Function.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	

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Issue #	Description	Workaround
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check "Select All" checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	

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Issue #	Description	Workaround
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
038190, 038295	Self-Service Reports created prior to Aras Innovator 11.0 SP4 will generate an error message and do not execute after upgrade.	Please contact Aras support.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-001359	Some ItemTypes continue to display Command CBars and Title Bars in the older layout style.	

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Issue #	Description	Workaround
F-002384	Enterprise Search permission crawler doesn't support MAC Policy features.	
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names.	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search.	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-008176, 065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting in promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.

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Issue #	Description	Workaround
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	

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Issue #	Description	Workaround
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013571	Error message appears when new Lifecycle is saved on Logout as part of Unsaved Items dialog. However, the Lifecycle is still saved.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for content modified in Mapped Document Elements	Modified content must be changed back manually when edited in the Technical Document Editor

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Issue #	Description	Workaround
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-015927	Incorrect paging commands count (Total pages and Results are 1 0 Results) can be shown when switching pages if the connection to the Innovator Server is slow.	
I-016058	Root user does not see the correct count of items found in the search/relationship grid after running search.	
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.
I-018696	Favorite searches created from the main search grid are not available from the modal search dialog.	
I-019172	If ItemType is set with Default Structure View = Tabs Min, items are opened with the second accordion section minimized, but then after opening it the accordion height is too small.	Reduce screen height, and the accordion height will be corrected.

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Issue #	Description	Workaround
I-019494, 057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
I-019496, 078878	MAC Environment Attribute (EA) that references a client method or a server method with an error can lock up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
I-019535	Copy relationship option isn't available and CUI error dialogs appear in Content Type item, when initializing context menu for row in relationship grid.	
I-020145	TGV toolbar of Dynamic 3D Viewer is not loaded when opening Dynamic 3D Viewer with clean cash in FF 68.8.	Refresh item or use a different browser.
I-020725, 064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
I-020825, 053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	Do not include referenced and related ItemTypes in a Query Definition when the relationship between those ItemTypes is reused.
I-020911	It is not possible to switch to view mode from markup mode on an out-of-context file.	
I-021041	When restoring a markup from the discussion panel without opening Dynamic viewer, with Autoexecute query turned on, parameters are not applied and all components are displayed in the dynamic 3D view.	Repeat markup restore.
I-021254	After clicking on a custom button in item sidebar and then clicking buttons in item toolbar, the custom button from sidebar disappears. Relevant only with Item type with enabled Visual Collaboration and Custom button in sidebar.	Reopen item.

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Issue #	Description	Workaround
I-021734, 084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
I-021866, 063170	A non-text symbol is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
I-021983, 086674	An error may be displayed when a file is uploaded to the Vault via IOM Stream Interface using a child Item created with "createRelatedItem", "createRelationship", "createPropertyItem", "addRelationship", "getLogicalChildren", "getParentItem", "getRelatedItem", "newAND", "newOR", "newNOT" functions.	Upload file via a stream separately and then assign file ID to the appropriate child Item.
I-022361, 086815	The Technical Document Editor does not properly distinguish external content after it has been converted.	This is an issue with the display. Users can insert external Technical Document content and it will be rendered properly.

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3.5 Version 12.0 SP8

3.5.1 Enhancements in Aras Innovator 12.0 SP8

Saved Views

- Saved Views provide a means of persisting input information used to construct a Dynamic 3D View. Restoring a Saved View automatically re-applies the functions that defined the view at the time it was saved.

Save Query Execution Results to a File

- The Query Execution dialog, used to execute a Query Definition in the Query Builder, now provides the ability to store the results of a query execution directly to a local file.

Performance Optimizations for Dynamic Viewer

- Provides optimizations for accessing 3D Geometry from the Innovator Vault along with client-side caching that together dramatically reduce the load and refresh speed for 3D Visualization.

Inactive List Values

- List values can be flagged as inactive by the administrator, with the result that inactive values cannot be set going forward, but will still be kept in existing places where they were previously set. All inactive values are still available for search.

Grid cell contents display on hover

- If the text characters shown for a property in a grid cell are truncated due to the column width being too small, hovering over the value will display all characters of the property.

3.5.2 Issues Fixed in Aras Innovator 12.0 SP8

Issue #	Description
024441	Remote /Client servers are no longer supported by Aras Innovator.
052434	An issue that occurred when using the Edge browser is resolved with the Chromium updates to Edge. Positioning of Fields of type Item or Dropbox on a Form could not be changed using click and drag in the Form editor.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will now correctly render the “Manage File” icon on the Form field.
053368	Corrected an issue in which Icons were not visible for selecting for ItemType (Edge Only).
056725	Corrected an issue in which Edge would return an error when exporting a large number of Parts to Word or Excel.

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Issue #	Description
057911	Corrected warnings that would occur when using non-Latin characters for a user's login name.
059002	Corrected an issue which would result in an error response when adding files through the File Handling option.
060494	Pressing F2 while in the classification cell of a search dialog will now correctly display the classification dialog.
063542	Logout without Saving from the Unsaved Items window will now work as expected.
077131	Addressed an issue in which the Add to Package Definition was incorrectly enabled when an item's form was opened. The Add to Package Definition is no longer available in that location.
077226	An error no longer displayed in the Item's tab when a user tries to unclaim an item using Ctrl+L.
078385	Fixed a problem where a property was still being shown in the facet list after unchecking it on the indexed properties panel. This property will no longer be shown after unchecking the box.
080978	Updated the functionality to allow the use of a multipart "filter" in a REST call.
083504	List values can be flagged as inactive by the administrator, so the values can no longer be set going forward.
059815, 059902	Type-ahead correctly displays in Simple Search in relationship grids and for search criteria of type Item or Classification.
078237, 078238	Corrected an issue in Visual Collaboration, for which sharing a Forum would not succeed and a Forum which is shared for public would incorrectly stay private.
F-000384	Saved Views capture all the information necessary in order for a user to be able to reconstruct a 3D View at any given time.
F-002436	Corrected the problem with new browser SameSite policy in Chrome when the Innovator Server and OAuth Server applications are installed on different hosts.
F-002437	Added capability to save Query Definition execution results directly to a local file.

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Issue #	Description
F-002453	For 3D Visualization, improvements were made regarding access to View Files stored in the Innovator File Vault with configurable cache time frames to obviate the need for client reloading of view files.
I-005579	Stripe with ItemType color is now correctly shown in the main search toolbar
I-007375	Fixed an issue in Firefox where the Effectivity split pane in the BOM Structure Tab would close if the user hit the backspace key.
I-012399	Fixed an issue in Tech Docs Framework, where when items are first selected in the Structure Tree, the highlighting is incorrect in the Editor.
I-012732	Addressed a case in which run search would reset the sort order of columns in the relationship grid.
I-013206, 008914	Now possible to save null values for Page Size and Max Results in preferences.
I-013874	Corrected an issue in which Enterprise Search did not show some errors on the Crawler Error Dashboard.
I-014945	Corrected an issue in which Enterprise Search did not show orphaned files in search results in some cases.
I-015272	Addressed an issue when working with the last row in the relationship grid. While entering characters in cells with type-ahead (like List property), the type-ahead dropdown list is fully visible.
I-015423	Fixed a Script error issue in Tech Docs Framework, when right-clicking on the root element after first time use of the Find tool.
I-015482	Fixed an issue in Tech Docs Framework that was causing a crash when opening with different languages in side by side mode.
I-015591, 081299	The "Target State" dropdown in the Mass Promote screen now displays Life Cycle States with localized labels.
I-015596	The dropdown which displays in the toolbar of the Life Cycle Map dialog now displays Life Cycle States with localized labels.
I-016465	Corrected an issue in which Enterprise Search displayed non-facet properties on the facet panel.

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Issue #	Description
I-016945	Corrected an issue in which Enterprise Search displayed incorrect results related to implicit spell checking.
I-016946	Corrected an issue in which Enterprise Search would display an error "Too many Boolean clauses" during the search.
I-016965, 074003	Fixed an issue in Tech Docs Framework in which an error was displayed in the case when Visual Collaboration is enabled and the user tries to switch between the Tech Doc Editor button and Form button in the sidebar.
I-017614, 083843	The Save As command now works properly when executed from the context menu of a grid, when the original item is already open in a tab.
I-017615, 083855	Hovering over a cell in a grid, where the text is truncated due to column width, shows the entire string in a tooltip.
I-017622, 082180	Corrected an issue in which error message appears after Mass Promotion of source and related items of the same relationship in case when source item is opened (in cache).
I-019128	Addressed an issue in which 'Item' actions would not be displayed in the Main Search grid context menu when multiple items were selected.
041312	Requirements for TIFF and BMP file types are supported by the Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types. Custom configuration changes are required to support these file types in such a case.
054489	Updated display of the “related options” dropdown in the relationship grid.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.
062575	In rare cases, it is possible that the History ItemType created_on_tick can be duplicated when changes to an Item occur within 10ms. The root cause is in the Windows operating system, but this causes no effect on the end user.
064402	The is_combined setting has been deferred to future use cases and will not be supported in current versions of Aras Innovator using NodeType in Graph Navigation.
069791	HttpServerConnection is no longer supported in client methods.

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Issue #	Description
I-005892, I-009328	Internet Explorer is no longer a supported browser for Aras Innovator.
I-016137	When using the “Print” functionality in PDF Viewer Toolbar, Aras Innovator will default to the browser behavior to download a PDF file that can be printed out separately rather than trying to send the PDF to the printer queue in the browser.

3.5.3 Known Issues in Aras Innovator 12.0 SP8

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	

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Issue #	Description	Workaround
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Edge or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	

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Issue #	Description	Workaround
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	

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Issue #	Description	Workaround
056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message appears.	
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment><comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	

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Issue #	Description	Workaround
059451	When using Edge, closing a document in the PDF Viewer after moving the Basic Toolbar and opening the view mode dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).

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Issue #	Description	Workaround
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
F-002384, F-002476, 064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	

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Issue #	Description	Workaround
065800	Active ‘Pick Plane’ is cloned after the selection of any ‘CAD View’ in the Model Browser ‘Views’ tab in Visual Collaboration.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	

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Issue #	Description	Workaround
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078878	MAC Environment Attribute (EA) that references a client method or a server method with an error can lock up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
078694	Users can delete a saved search when a favorite search is shared with them.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
085736	When saving an xClassification Tree and updating, an error message "xClass <id> has inconsistent sort order" may be displayed.	Manually reorder properties to force recounting of the sort order.

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Issue #	Description	Workaround
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-001359	Some ItemTypes continue to display Command CBars and Title Bars in the older layout style.	
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-000628	Scrollbars are incorrectly displayed within the User menu in some situations.	
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	

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Issue #	Description	Workaround
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007440	An error message doesn’t appear when deleting a Favorite Search if the Favorite Search was added to the Forum.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-008176, 065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it without displaying the change until it is saved.	Do not double-click on the dropdown. If you already have, remap and save that row.
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.

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Issue #	Description	Workaround
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Edge.	Do not click too fast in Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-011921, 075507	Some PDF files trigger errors on client and server sides.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.

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Issue #	Description	Workaround
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013395	Double scroller appears in Debug tab on Method items after code validation (Chrome only)	Use a different browser.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013571	Error message appears when new Lifecycle is saved on Logout as part of Unsaved Items dialog. However, the Lifecycle is still saved.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013841	Discard changes dialog is shown on unclaiming a source item when the related item was claimed from a search grid, and no changes were made.	Running search or clicking refresh resolves the issue.
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for input fields.	
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.

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Issue #	Description	Workaround
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-014147	In the TDF editor, an element can look like it is not selected after clicking on it, if there is a multi-level structure of nesting.	Select an element in structure tree.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-015656, 079191	When creating a Query Definition by Reusing Query Element Definition, then Mapping an Element to the child of reused Element, Tree Grid Editor returns a blank screen for that query.	
I-015780	Selecting the first (top) Property in Query Builder Property Selection Dialog results in a duplicate entry after saving.	
I-015927	Incorrect paging commands count (Total pages and Results are 1 0 Results) can be shown when switching pages if the connection to the Innovator Server is slow.	
I-015996, 083679	Technical Documents loaded under one language could fail to load if the tp_DefaultLanguage variable is changed to another language.	
I-016058	Root user does not see the correct count of items found in the search/relationship grid after running search.	
I-018002	Query Builder Editor becomes unusable if a Query Item which is referenced by another Query Item using either a count, min, or max condition is removed and the Query Definition is then saved.	Remove the references from any Query Item. Then the target Query Item can be removed and the Query Definition saved.

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Issue #	Description	Workaround
I-018560	The escape character backslash (\) used in simple search is treated as a literal string. This allows the string containing a backslash (\) to be searched but prevents the searching on the OR operator character (|).	
I-018612	Colored item sidebar can disappear below the sidebar buttons in some cases after resizing the item view container. This may occur when opening or closing the Nav Panel or resizing the browser window.	Click sidebar buttons again to display the full sidebar.
I-018696	Favorite searches created from the main search grid are not available from the modal search dialog.	
I-019126	In the Dynamic Viewer, cutting planes are resized incorrectly after restoring a Saved View	Refresh view on Dynamic Viewer toolbar.

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3.6 Version 12.0 SP7

3.6.1 Enhancements in Aras Innovator 12.0 SP7

Quick Search

- Quick Search is a new capability which allows the user to quickly open a known item by typing or pasting its name into a type-ahead field in the Quick Access panel

Updates to Main Search Grid Context Menus

- Organization and styling has been improved for the main search grid context menus. A two-level hierarchy provides better structuring for Reports and Actions.

Freeze Columns in Relationship Grid

- It is now possible to freeze a set of columns on the left within the relationship grid, so that they do not scroll horizontally, similar to what is already possible in the main search grid. Settings for which columns are frozen are stored in preferences independently for each relationship type, using Save Layout.

3D Query Processor API

- The 3D Query Processor API provides a mechanism to implement alternate logic for processing Queries used to populate the Dynamic Viewer. The intent is to allow dynamic visualization for users who don't use the out-of-the-box data model for CAD and Part Items or for users who want to provide alternate rendering configurations (View Modes) for highlighting elements in the 3D View

New CAD formats supported for conversion and viewing

- Added support for SolidWorks 2020, CATIA R29, Inventor 2020, Creo 6.0, and NX 12.0 and 1872 for 3D CAD conversion and viewing

3.6.2 Issues Fixed in Aras Innovator 12.0 SP7

Issue #	Description
055109	Updated coding to replace GETUTCDATE calls with DateTime.UtcNow
062216	Updated Enterprise Search so that queries that use wildcard characters (“?”, “*”) will now return the expected search results.

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Issue #	Description
081312	Addressed an SQL error that was triggered when using advanced search to query an xProperty assigned to a relationship ItemType. The user would receive a SQL error regarding the ID of the relationship.
082558	Corrected an issue when changing the keyed name of an ItemType with a significant number of (20 million+) records in DB, where saving the change could trigger an Out of memory error.
058797, I-015753	Fixed issue where the freeze columns display was incorrect after decreasing the overall window size.
058851, I-015757	Fixed issue in which the freeze column divider did not have the same width for different parts of the search grid.
079744 I-014115 F-001611	Freezing a set of columns on the left side of the relationship grid is now supported.
083327, 083036, 083309, I-015104	Corrected an issue in which, if an Action was assigned to multiple ItemTypes, it would appear on one of the ItemTypes multiple times.
084592, 084600, 084602	Updated system to display Action Name if no default label is assigned to the action and to properly display the default Action Name or Label in non-default locales.
F-000015	Introduced Quick Search, which allows quickly opening a known item using a type-ahead field in the Quick Access panel.
F-000085	The command bar for Graph Views was updated to use standard styling.
F-000465	The organization and styling of the main search grid context menu has been updated to match the standard styling.
F-000710	The disabled state styling for buttons and menu points has been set to grayscale, to improve the differentiation between enabled and disabled states, so users can more easily tell them apart.
F-001541	Provided capability to add Items of any ItemType to Tech Doc Framework enabled documents.
F-001573	3D Query Processor API enhancement provides a mechanism to implement alternate logic for processing Queries used to populate the Dynamic Viewer.

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Issue #	Description
F-001949	Added support for SolidWorks 2020, CATIA R29, Inventor 2020, Creo 6.0, and NX 12.0 and 1872.
I-007180	Corrected an issue in which arrow scroll buttons on Tab Bar would not disappear when closing pinned Nav Panel, or appear when opening the pinned Nav Panel.
I-008087	User can now create a new version of a MAC Policy and change the condition after the name of the Item Attribute has been changed.
I-010027	Search for Referencing Items is added to 'Use Referencing Item' dialog to avoid visual/manual search.
I-014950	Enterprise Search no longer adds empty records for files that are not related to a parent Item.
I-015031	In Dynamic Viewer, View mode drop-down is disabled until components are loaded into viewer. This corrected the issue with partial rendering of components in selected view mode.
I-015128	Corrected the issue in which pre-defined search criteria could not be cleared by deleting the value of filter using Backspace or Delete buttons.
I-015424	Exiting split-screen mode keeps active tab and tab order the same as it was in split-screen mode.
I-015466, I-016345	The Aras Innovator JavaScript API documentation has been updated with new layout and new content about CUI controls and web UI components.
I-015530	Active tab is now displayed on top and visible if the window size is decreased.
I-015706	Fixed the styling of sidebar buttons of Graph Views
I-015726, I-015727	Enterprise Search now displays the correct count of federated facet options in the pop-up menu in all cases.
I-016448	New progress indicator was added for type-ahead fields.
I-016655	Enterprise Search will now correctly process and index items/files if they contain special symbols.
I-017934	When assemblies with configurations are saved in Solidworks, all parts now appear in the model browser in the Monolithic Viewer, with or without 'rebuild', when converted and opened in Aras Innovator.

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3.6.3 Known Issues in Aras Innovator 12.0 SP7

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	

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Issue #	Description	Workaround
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	

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Issue #	Description	Workaround
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	

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Issue #	Description	Workaround
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message appears.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment><comment> tag set with a non-null value.

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Issue #	Description	Workaround
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF Viewer after moving the Basic Toolbar and opening the view mode dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History created_on_tick can be duplicated when changes occur within 10ms.	
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	

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Issue #	Description	Workaround
063170	Symbol is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
063542	Logout without Saving from the Unsaved Items window doesn't work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	

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Issue #	Description	Workaround
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to “infinite.”	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077131	Add to Package Definition is enabled when an item’s form is opened.	
077226	An error is displayed in the Item’s tab when a user tries to unclaim the item using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	

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Issue #	Description	Workaround
078628	Fields on a Property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) that references a client method or a server method with an error can lock up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
085092	ItemType forms may display no fields when using Firefox in an https environment with the server and Client OS set to German.	Use a different browser, different language or non-https connections.
078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	

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Issue #	Description	Workaround
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-001359	Some ItemTypes continue to display Command Bars and Title Bars in the older layout style.	
F-002436	Custom authentication mechanisms can fail with the new cookie policy in the Chrome browser which was rolled out on Feb, 17 2020 in the following cases: 1) Innovator 12.0 uses SAML 2.0 or OpenID Connect authentication protocol 2) OAuthServer 12.0 and Aras Innovator client 12.0 web application have different host names	Set SameSite policy related flags to 'disabled' or 'false' in the browser.
I-000628	Scrollbars are incorrectly displayed within the User menu in some situations.	
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	

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Issue #	Description	Workaround
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007375	In the BOM structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message doesn’t appear when deleting a Favorite Search if the Favorite Search was added to the Forum.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	
I-008176, 065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it without displaying the change until it is saved.	Do not double-click on the dropdown. If you already have, remap and save that row.
I-009328	The highlighted value loses selection after another cell receives the focus.	

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Issue #	Description	Workaround
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Internet Explorer or Edge.	Do not click too fast in IE or Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-011921, 075507	Some PDF files trigger errors on client and server sides.	
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.

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Issue #	Description	Workaround
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012399	The first selection of a node in the Technical Document's structure tree editor is not selected when the structure tree is loaded.	Selecting another node will properly match selections after the list load.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012732	Run search resets the sort order of columns in the relationship grid.	
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013395	Double scroller appears in Debug tab on Method items after code validation (Chrome only)	Use a different browser.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	

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Issue #	Description	Workaround
I-013571	Error message appears when new Lifecycle is saved on Logout as part of Unsaved Items dialog. However, the Lifecycle is still saved.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013841	Discard changes dialog is shown on unclaiming a source item when the related item was claimed from a search grid, and no changes were made.	Running search or clicking refresh resolves the issue.
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for input fields.	
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-014147	In the TDF editor, an element can look like it is not selected after clicking on it, if there is a multi-level structure of nesting.	Select an element in structure tree.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015272	When working with the last row in the relationship grid, if the user starts to enter characters in cells with type-ahead, just as List properties, the type-ahead dropdown list is not fully visible.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	

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Issue #	Description	Workaround
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-015656, 079191	When creating a Query Definition by Reusing Query Element Definition, then Mapping an Element to the child of reused Element, Tree Grid Editor returns a blank screen for that query.	
I-015780	Selecting the first (top) Property in Query Builder Property Selection Dialog results in a duplicate entry after saving.	
I-015927	Incorrect paging commands count (Total pages and Results are 1 0 Results) can be shown when switching pages if the connection to the Innovator Server is slow.	
I-015996, 083679	Technical Documents loaded under one language could fail to load if the tp_DefaultLanguage variable is changed to another language.	
I-016058	Root user does not see the correct count of items found in the search/relationship grid after running search.	
I-016137	After clicking Print button in the PDF ViewerToolbar, the browser downloads the PDF file instead of printing it.	Download file, open the file and then print.
I-019128	'Item' actions are not displayed in the Main Search grid context menu, when multiple items are selected	Select items one at a time, and run the desired Item action

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3.7 Version 12.0 SP6

3.7.1 Enhancements in Aras Innovator 12.0 SP6

Access Control - MAC

- Mandatory Access Control Policy functionality was enhanced to work with Derived Attributes, which enables access restriction rules based on properties on sets of related items instead of just on the accessed item and user. Consult the "Aras Innovator 12.0 - MAC Policies" documentation for more information.

3.7.2 Issues Fixed in Aras Innovator 12.0 SP6

Issue #	Description
080515	The Issue related to incorrect behavior in the Tree Grid View with the display of the Expand button ('+', '-') has been fixed. The Expand/Collapse button now works correctly.
F-000601	The xClassification Tree ItemType now uses the standard UI stylesheet for item view and toolbars.
F-000603	The Query Definition ItemType now uses the standard UI stylesheet for item view and toolbars.
F-001717	When in split-screen mode, the vertical divider can now be moved to change the relative sizing between the two parts of the screen.
F-001946	Introduced the ability to configure a Graph View to be opened from a sidebar tab on an item.
I-001094	Main search grid context menu is properly localized for German.
I-008044	Enterprise Search no longer displays date facets with zero counts.
I-010722	Text elements that are copied are now pasted correctly in TDF-enabled Items in Internet Explorer.
I-012653	The Clear Search Criteria button no longer deletes default disabled criteria in the modal search dialog.
I-013199	The Find Tool now identifies text from Search Operations with the Find Tool within Item Property Document Elements.

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Issue #	Description
I-013820	Pressing Ctrl+F now displays the Find Tool panel when focus is in TDF-enabled Item editor in Chrome.
I-013837	Corrected an issue in which the "Show All" link would disappear for the "Current" facet in Enterprise Search if there was more than one option available.
I-014053, 078624	Corrected an issue while using Chrome in which clicking the Print button in the SSVC markup toolbar would result in a blank print dialog.
I-014190	Content within Item Properties is now rendered properly in published XML content.
I-014697, 081700	The space character is now supported for defining new class names in the "Classification" dialog.
I-014698, 079188	Adding an Activity Assignment to an already-created Workflow Process now works correctly.
I-014699, 074565	The display of calendar weeks in the date dialog is now correct.
I-014719, 057939	Fixed an issue where adding a search criteria via OnSearchDialog on a property with data type 'Item', and then clearing the search criteria, resulted in an error message.
I-014722, 060558	Users can no longer edit non-latest generations of items from the relationship grid, which are commonly shown if the relationship behavior is "Fixed".
I-014727, 082702	Fixed an issue where clicking on a List hyperlink in the Property Data Source column returned an error instead of opening the List.
I-014739	Pasting content, copied from MS Office documents, now adds the Text properly without additional XML tags.
I-014875	Icons are displayed correctly on Graph View cards.
I-014949, 081637	Updated Enterprise Search to correct cases in which Search while using wildcards might not display all matching keywords.
I-015107	Fixed bug with search, where total results count wasn't refreshed when new search criteria were applied and all items were shown on the first page.
I-015266	Discard Changes dialog no longer appears when attempting to close a TDF-enabled Item after running search with the Find Tool.

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Issue #	Description
I-015277	Fixed an issue in which Enterprise Search could display fewer items then expected after performing an Internal Reindex.
I-015441	Corrected an issue in which the Control Panel buttons would not display for an Administrator in the Enterprise Search Internal Reindex option when using either Firefox ESR 60 or 68.
I-015702, I-014725, 078353, 081579	The “Permissions limited” warning is properly shown on search results, when appropriate.

3.7.3 Known Issues in Aras Innovator 12.0 SP6

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	

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Issue #	Description	Workaround
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	

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Issue #	Description	Workaround
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action can_execute is not called on UpdateTearOff State.	

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Issue #	Description	Workaround
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .netSystem/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a Tree Grid View definition does not result in the export of custom CUI components that have been associated with the Tree Grid View definition (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.

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Issue #	Description	Workaround
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message appears.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment><comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	

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Issue #	Description	Workaround
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF Viewer after moving the Basic Toolbar and opening the view mode dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters ("?", "*") can fail to return search results. For example, searching for "Planning" or "Plan" returns results. Using the wildcard query 'lanning' does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History created_on_tick can be duplicated when changes occur within 10ms.	

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Issue #	Description	Workaround
062877	An error may occur if saving an item when a large number of xProperties exist (e.g. 2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
063542	Logout without Saving from the Unsaved Items window doesn't work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	

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Issue #	Description	Workaround
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to “infinite.”	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077131	Add to Package Definition is enabled when an item’s form is opened.	
077226	An error is displayed in the Item’s tab when a user tries to unclaim the item using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on Report form overlap each other in Japanese.	

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Issue #	Description	Workaround
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) that references a client method or a server method with an error can lock up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
083679	Technical Documents loaded under one language could fail to load if the tp_DefaultLanguage variable is changed to another language.	
083914	Upgrades will need to create new Dynamic View Definition Items for all previously configured Tree Grid Views	
084121	In the Technical Document Editor, if the entire text of the Subtitle is selected and deleted, the text reappears after saving.	Place the cursor in the field and remove the text by backspacing or deleting the characters one at a time.
084173	Status item icons are not rendered when exporting the grid to PDF.	
084175	Export to PDF displays Restricted items as blank instead of displaying "Restricted" text.	

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Issue #	Description	Workaround
084416	After using the "Remove Additional Row Header" option and saving, the additional header reappears.	
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-000599	The MAC Policy ItemType item view does not use the default accordion approach in the main form and relationship tabs views.	
F-000600	The main form and relationship tabs view associated with the Derived Relationship Family ItemType do not use the accordion functionality.	
F-000602	The DAC Definition ItemType view does not use the default accordion approach for the main form and the relationship tabs view.	
I-000628	Scrollbars are incorrectly displayed within the User menu in some situations.	

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Issue #	Description	Workaround
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007375	In the BOM structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message doesn’t appear when deleting a Favorite Search if the Favorite Search was added to the Forum.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	

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Issue #	Description	Workaround
I-008176, 065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it without displaying the change until it is saved.	Do not double-click on the dropdown. If you already have, remap and save that row.
I-009328	The highlighted value loses selection after another cell receives the focus.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Internet Explorer or Edge.	Do not click too fast in IE or Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.

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Issue #	Description	Workaround
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-011921, 075507	Some PDF files trigger errors on client and server sides.	
I-011998, 081510	In the Project Tree Grid of a Project, in some cases Japanese and Chinese characters are present in the document but appear as blank spaces in the print view of the PDF in Chrome. Printing on paper and viewing in another browser works fine.	Install a font that can display the desired symbols correctly or use another browser.
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012399	The first selection of a node in the Technical Document's structure tree editor is not selected when the structure tree is loaded.	Selecting another node will properly match selections after the list load.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012732	Run search resets the sort order of columns in the relationship grid.	

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Issue #	Description	Workaround
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013395	Double scroller appears in Debug tab on Method items after code validation (Chrome only)	Use a different browser.
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013571	Error message appears when new Lifecycle is saved on Logout as part of Unsaved Items dialog. However, the Lifecycle is still saved.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013841	Discard changes dialog is shown on unclaiming a source item when the related item was claimed from a search grid, and no changes were made.	Running search or clicking refresh resolves the issue.
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for input fields.	
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.

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Issue #	Description	Workaround
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-014147	In the TDF editor, an element can look like it is not selected after clicking on it, if there is a multi-level structure of nesting.	Select an element in structure tree.
I-015031	In Dynamic Viewer, it is possible to select a View mode from drop-down while components are loading into viewer, resulting in partial rendering of components in selected view mode.	Refresh view; wait for components to load, then select desired view mode from drop down.
I-015194	If Append Results is enabled, there may be inconsistent behavior with paging commands.	
I-015272	When working with the last row in the relationship grid, if the user starts to enter characters in cells with type-ahead, just as List properties, the type-ahead dropdown list is not fully visible.	
I-015303	Enterprise Search doesn't search for content of integer, float and date properties.	
I-015585	When the browser window zoom is set, for example to 90% (in zoom out direction) in Edge, the relationship grid cannot be scrolled up after scrolling all grid down.	Use a different browser, “zoom in” browser window to 100%, or locate the 1st row using the "Up Arrow" on your keyboard.
I-015656, 079191	When creating a Query Definition by Reusing Query Element Definition, then Mapping an Element to the child of reused Element, Tree Grid Editor returns a blank screen for that query.	
I-015726, I-015727	Enterprise Search may display an incorrect count of federated facet options in the pop-up menu, in some cases.	
I-015780	Selecting the first (top) Property in Query Builder Property Selection Dialog results in a duplicate entry after saving.	None, selected property displayed twice on first and last position

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3.8 Version 12.0 SP5

3.8.1 Enhancements in Aras Innovator 12.0 SP5

Configuring the Dynamic Viewer

- The Dynamic Viewer uses a new mechanism for configuring an associated Tree Grid View. Administrators will be able to configure the Dynamic Viewer by creating a Dynamic View Definition Item - See the Dynamic Visualization User's Guide, Section 4.2.

Mapped Document Elements

- Mapped Document Elements provide the means to associate one or more Document Elements within a Technical Document Framework (TDF) enabled document to a Property in a referenced Item. This core feature will enable other new Features in future Requirements Engineering and Technical Documentation Application releases.

Split-screen Mode

- Split-screen mode provides the ability to split the screen into two regions for easy side-by-side operation. For example, users can have a search grid displayed in the left part of the screen and have a Part item displayed in the right side of the screen. After clicking the button in the header to initiate split-screen mode, the current tab is "docked" on the left side, and other tabs remain "undocked" on the right side. Additional tabs can be docked on the left as needed. All tabs (items, searches, reports, etc.) subsequently opened will automatically open on the right side.

Access Report Enhancement for Relationships

- Access Report functionality is extended to work for Relationship Items directly from the Relationship Grid.

3.8.2 Issues Fixed in Aras Innovator 12.0 SP5

Issue #	Description
069612	Fixed an issue that could cause Icons to disappear from the toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.
073144, 073145	Corrected an error could occur while installing the ES Agent when the Essential Subscription had already been activated and the ES Component had not been installed.
078564	Internal Visual Collaboration Notifications are now correctly sent on the cluster server.
079145	In cases where one Source row contains several divided, related rows in the configurable relationship grid, all related rows are now exported to Excel.
F-000315	A toolbar dropdown is now provided when the horizontal size of the client window is too small to allow displaying the entire toolbar.

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Issue #	Description
F-000468	Added support for additional protocols to authentication.
F-000469	Added support for running OAuthServer behind reverse proxy.
F-001435	Ported Vault Server to .NET Core technology.
I-003121	In the “BOM Structure” tab, the split pane accessed by selecting the “View Effectivity” menu option from a BOM row will now automatically update Effectivity details when another BOM row is selected.
I-005904	In Enterprise Search, the scroll bar no longer changes height after the Search button is pressed.
I-006085, 065384	MBOM structure will be displayed correctly in Tree Grid View.
I-006506, 069613	When using Enterprise Search, the warnings now display correctly in Japanese.
I-007671	The Tree Grid View Export to Excel feature correctly exports a multi-level structure containing either Date or Numeric values.
I-008984	In Tree Grid View, corrected Display issues associated with complex “combined” row definitions.
I-008986	The [+] icon is now displayed on a “Grow” operation in Tree Grid View.
I-009076, I-008582	The Grow command in Tree Grid View displays consistent results.
I-009914, 080318	Scrolling now works as expected in order to see properties on the item form, if the form height value is more than computer screen size allows.
I-010884, 081009	Export to Excel from CMF is now correctly formatted and includes all columns in the export.
I-011906	Tree Grid View logic was updated to detect and eliminate possibility of duplicated items in certain cases.
I-011965	Tree Grid View "Trim" button is now disabled when no rows are selected

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Issue #	Description
I-012256	A Technical Document Framework enabled Document is saved correctly after Type is set for the Document.
I-012351	Fixed a problem where an extra scroll appeared on the page after resizing a column in the xClassification Tree editor.
I-012357	Removed display of erroneous light blue header in Tree Grid View editor.
I-012651	Icon displayed near the Element in Structure Tree when filter is defined or Content is blocked is set to optimal size.
I-012709	Fixed scrolling problem that occurred on relationship grids after focusing on a cell.
I-012723	Fixed script errors which appeared in the console after opening an Item (Edge specific).
I-012727	When side-by-side is active in TDF Enabled Doc, elements cannot be added to the Tech that is not the current version.
I-012753	Using a Tree Grid View with the 'Auto Grow on Refresh' option now works correctly with the Dynamic Viewer.
I-012753	An error message is no longer displayed when first opening the Dynamic Viewer when “Auto Grow on Refresh” is checked in Tree Grid View Settings.
I-012796	Fixed vertical scrolling in relationships having horizontal scroll when max height of relationship accordion isn't reached yet.
I-012797	Fixed problem with horizontal scroll disappearing when relationship accordion height is greater that the default.
I-012849	Corrected an issue in which "Restricted" labels would disappear from relationship grid rows after opening a form.
I-012961	Technical Document Framework enabled Document Editor Loads correctly.
I-013007	The Done button works correctly in a tear-off item window.
I-013028, 082117	fed_css property now working property to customize cell style.

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Issue #	Description
I-013032	Fixed an issue where the relationship grid context menu could be opened when one of the cells had an invalid value. This lead to an unexpected behavior where the user had the ability to 'Done Editing' of the row with invalid value.
I-013208, 077961	Fixed issue where, if the Saved Searches dropdown was too long, an additional scroll bar would be displayed.
I-013225, 079081	Print dialog in Chrome now displays correctly after clicking on the "Print" button in the SSVC markup toolbar.
I-013375, 044077	Fixed issue where the Workflow Activity Completion dialog did not display fully and gave an error "Cannot read property 'activity' of undefined".
I-013712, 081401	Fixed problem where Copy a row in relationship grid and then Paste Special with Create Related option changed the original name to look like the copied name (including "Copy" prefix).
I-014152, 083055	Fixed an issue that returned no results when searching for item properties in the main grid.
I-014194	Corrected the text in the error message displayed for Technical Document Framework enabled Documents when the user does not have permission to edit an ItemProperty.

3.8.3 Known Issues in Aras Innovator 12.0 SP5

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.

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Issue #	Description	Workaround
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.

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Issue #	Description	Workaround
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	

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Issue #	Description	Workaround
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .netSystem/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	

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Issue #	Description	Workaround
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message appears.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment><comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom ‘OnGet’ method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	

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Issue #	Description	Workaround
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF Viewer after moving the Basic Toolbar and opening the view mode dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing autogenerated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters ("?", "*") can fail to return search results. For example, searching for "Planning" or "Plan" returns results. Using the wildcard query 'lanning' does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History created_on_tick can be duplicated when changes occur within 10ms.	

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Issue #	Description	Workaround
062877	An error may occur if saving an item when a large number of xProperties exist (e.g.2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
063542	Logout without Saving from the Unsaved Items window doesn't work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	
064108	The order of requests with a ChangeSet in OData is significant. The service will process the requests within a ChangeSet in the order of the requests.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if a JavaScript method was assigned to a server event by mistake.	Disable the incorrectly assigned method directly in the database.
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	

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Issue #	Description	Workaround
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to “infinite.”	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077131	Add to Package Definition is enabled when an item’s form is opened.	
077226	An error is displayed in the Item’s tab when a user tries to unclaim the item using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).

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Issue #	Description	Workaround
078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
078373	Fields on Report form overlap each other in Japanese.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a Property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) which references a client method or a server method with an error locks up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
083679	Technical Documents loaded under one language could fail to load if the tp_DefaultLanguage variable is changed to another language.	
083914	Upgrades will need to create new Dynamic View Definition Items for all previously configured Tree Grid Views	

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Issue #	Description	Workaround
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-000599	The MAC Policy ItemType item view does not use the default accordion approach in the main form and relationship tabs views.	
F-000600	The main form and relationship tabs view associated with the Derived Relationship Family ItemType do not use the accordion functionality.	
F-000601	The xClassification Tree ItemType item view does not use the default accordion approach in the main form and relationship tabs view.	
F-000602	The DAC Definition ItemType view does not use the default accordion approach for the main form and the relationship tabs view.	
F-000603	The item view associated with the Query Definition ItemType should use the default accordion feature for both the main form and the relationship tabs view.	
I-000628	Scrollbars are incorrectly displayed within the User menu in some situations.	

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Issue #	Description	Workaround
I-001831, 072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
I-002519, 072008	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
I-003734, 059772	Multilanguage translations are missing from Effectivity Services.	
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-006495, 069625	English values are shown for MultiLingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search	
I-006685, 077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
I-007375	In the BOM structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message doesn’t appear when deleting a Favorite Search if the Favorite Search was added to the Forum.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	

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Issue #	Description	Workaround
I-008176, 065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it without displaying the change until it is saved.	Do not double-click on the dropdown. If you already have, remap and save that row.
I-009328	The highlighted value loses selection after another cell receives the focus.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Internet Explorer or Edge.	Do not click too fast in IE or Edge or use a different browser.
I-010951, 073231	Workflow process may resulted in SQL Deadlocks, if <200 Workflow Related items and users trigger workflows in parallel. An OnAfterAddActivityAssignment server-side method executing GetItem/AddItem against "Activity Assignment", "Activity Variable", etc. ItemTypes can cause SQL Selects and Inserts in one transaction that may cause SQL Deadlocks.	
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.

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Issue #	Description	Workaround
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	
I-011921, 075507	Some PDF files trigger errors on client and server sides.	
I-011998, 081510	In the Project Tree Grid of a Project, in some cases Japanese and Chinese characters are present in the document but appear as blank spaces in the print view of the PDF in Chrome. Printing on paper and viewing in another browser works fine.	Install a font that can display the desired symbols correctly or use another browser.
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012399	The first selection of a node in the Technical Document's structure tree editor is not selected when the structure tree is loaded.	Selecting another node will properly match selections after the list load.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012732	Run search resets the sort order of columns in the relationship grid.	

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Issue #	Description	Workaround
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.
I-013120	When using Export to PDF from an item, radio buttons are not exported correctly in the document.	
I-013368	Vote list dropdown contains no items in Activity Completion form, if Activity is opened using Ctrl+Enter shortcut.	If User opens this Activity by double-click or click on "Complete Task", the form is displayed correctly.
I-013395	Double scroller appears in Debug tab on Method items after code validation (Chrome only)	
I-013468	Certain HTML report tabs (such as ItemType Definition Report) do not work with Tear Off Tab function.	
I-013571	Error message appears when new Lifecycle is saved on Logout as part of Unsaved Items dialog. However, the Lifecycle is still saved.	
I-013576	After adding items in a relationship tab of an item, when the user scrolls to the top items in the tab, the scrolling can freeze	Scroll to the top of the overall item view, which activates the relationship grid scrolling
I-013841	Discard changes dialog is shown on unclaiming a source item when the related item was claimed from a search grid, and no changes were made.	Running search or clicking refresh resolves the issue.
I-013898	Properties that are disabled on a Form can be edited when mapped into a TDF document.	
I-013995	Undo/Redo within the TDF editor does not work for input fields.	
I-014045	If user loses access to an item they are editing when they do a save, the update cannot be saved and a "No items of type {itemtype} found" error is returned by the server.	No workaround. User must still have get access after a change if the change is to be saved.

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Issue #	Description	Workaround
I-014053	When you click on the Print button in the SSVC markup toolbar the print dialog in Chrome is blank.	Use an internet browser other than Chrome, if available.
I-014055	Part save can fail with a "Exception in Goal Basis refresh" error if user does not have needed permissions	No workaround. If goals are not being used, the Part form may be modified to eliminate the Form Event calling the Show Goal Basis method.
I-014147	In the TDF editor, an element can look like it is not selected after clicking on it, if there is a multi-level structure of nesting.	Select an element in structure tree.
I-014190	Input field values in the TDF editor are not rendered in a published XML document.	
I-015031	In Dynamic Viewer, it is possible to select a View mode from drop-down while components are loading into viewer, resulting in partial rendering of components in selected view mode.	Refresh view; wait for components to load, then select desired view mode from drop down.
I-015441	When an Administrator tries to access the Enterprise Search dashboard using either Firefox ESR 60 or 68 to log into Aras Innovator and selects Contents>Administration>Enterprise Search>Internal, the Control Panel with buttons does not appear.	Use an internet browser other than Firefox, if available.
I-015656, 079191	When creating a Query Definition by Reusing Query Element Definition, then Mapping an Element to the child of reused Element, Tree Grid Editor returns a blank screen for that query.	

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3.9 Version 12.0 SP4

3.9.1 Enhancements in Aras Innovator 12.0 SP4

Tree Grid View

- **Auto-Expand Tree Grid View on Refresh**: Users can configure Tree Grid View (TGV) definitions to automatically expand the tree on Refresh. If a Tree Grid View is configured to auto-expand, the tree will expand whenever refresh is called. Actions such as opening the associated tab, clicking Apply on Display Settings, Refresh, Save, Edit, Done, and Create New Revision automatically expand the TGV.

Save Layout Command

- **Save Layout:** The Display menu in both the main and relationship search toolbars includes the Save Layout command. It replaces the previous practice of automatically saving settings on logout.

  This command enables you to save the current search grid state. In the main search grid you can specify which columns are visible/hidden, the column order and width, which columns you want to freeze, and preview mode in the main Search grid. In the Relationship search grid, the redline mode, page size, and max records features are available. Setting are saved per user and ItemType. They are restored when you re-open a search grid for the same ItemType.

Improved Vertical Scrolling in Item View Accordions

- **"Sticky" Vertical scrollbar**: Item views consisting of forms and standard relationship grids now include a single vertical scrollbar that provides a unified scrolling experience across all content in the item view.

Create New Command in Main Search Toolbar

- **Create New button**: The Create New button has been added on the right side of the main search toolbar for easy access to create new items of the same ItemType.

Adding a Where Condition to a Query Definition

- **Applying a Where Condition Against Resolved items**: Users can add a Where condition to a Query item used for Structure Resolution (For example CAD structures). The administrator can then apply an additional condition (filter) when resolving item structures with fixed relationships such as CAD/CAD Structure.

Technical Document Templates

- **Adding Existing Content to a Template**: The Technical Document Framework (TDF) includes an enhancement that enables users to add existing Technical Document-enabled content to a separate Technical Document as a template. The added content is copied from the selected Technical Document and placed as a full copy in the target Technical Document.

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3.9.2 Issues Fixed in Aras Innovator 12.0 SP4

Issue #	Description
021012, 022542, 024588, 033308, 034442, 042769, 038398, 056281, 034020, 052842, 063604, 075313	When using the Export to Excel functionality in search grids, lists will now export the displayed Label and not the Value behind the Label.
055128, 062675, 078600, 079561	Exporting an Excel file from the search grid exports as expected when column labels contain special characters such as “<” and “&”.
056662, I-013209	When a related item is refreshed after a related item is saved for the first time, data now appears.
079402, I-009776	The OnChange client method works correctly for classification fields.
080370, 080466, I-009622, I-009924	Corrected an issue in which the wrong image URL was used to access the customer/images folder resulting in nothing being displayed in the image viewer dialog on the client.
081482, I-012408	When modifications are made/saved to the relationship grid, the vertical scroll bar remains in the same position it was in before the changes were saved.
081594, I-012045	Fixed an issue that could prevent Class specific forms from displaying correctly.
F-000198	Users are able to save grid layout settings to their Preferences.
F-000605	Vertical scrolling in item view accordions is improved.
F-001345	Client side improvements for Tree Grid View and BOM structure view.

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Issue #	Description
F-001493	Client side performance of the Save action for items that have a large number of related items has been improved.
F-001538	Technical Document-enabled content can be used as a template in separate Technical Document-enabled documents.
F-001561	Improved Relationship grid and introduced standard styling to tooltips.
F-001581	Users can select the Auto Grow on Refresh checkbox on a Tree Grid View form to specify that the tree automatically expands whenever it is refreshed.
F-001615	Users can create a new Item directly from Search Grid.
F-001719	xClass Tree, Query Definition, and TreeGridView ItemTypes have been updated with version 12 styling.
I-007200	The last opened tab is now correctly displayed on the tab bar when many tabs are open.
I-007821	An error is no longer displayed after an Edit or Claim action is executed from an Item Form.
I-009621	Saving/deleting a Favorite Search no longer waits for a response from the server before updating the Client.
I-009685	Fixed an error that could occur if a saved Search was deleted and then recreated with the same label.
I-010327	The Data Template form is now populated and the View context menu is enabled for the default view Tree Grid View, “View3D_CAD”.
I-010943	The 3D Viewer window now resizes without clipping the window if the Aras Innovator browser window is minimized and then maximized.
I-010944	A vertical scrollbar no longer displays unnecessarily in the 3D-Viewer.
I-011282	The Editor now displays the latest updated version of a versioned document when a user clicks the Refresh button in Technical Documentation.
I-011343	Search criteria for List and Classification properties are saved when a user creates a Favorite Search.

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Issue #	Description
I-012036	The font used in the Manage File dialog is fixed.
I-012186	The Special Paste>Create Related option no longer changes the property value of the original item in fast grid to “Copy of Item” and the original row is not incorrectly set to the “New” state.
I-013298	Updated Export to Excel functionality to properly export when the grid has the Color/ColorList property set.
I-013303	Exported relationship grid rows with Color and Color List properties are now exported with the specified background color when using Export to World.

3.9.3 Known Issues in Aras Innovator 12.0 SP4

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	

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Issue #	Description	Workaround
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	

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Issue #	Description	Workaround
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available, only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action can_execute is not called on UpdateTearOff State.	

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Issue #	Description	Workaround
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .netSystem/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification=Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.

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Issue #	Description	Workaround
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message appears.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment><comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with xClassification tree cannot be saved.	

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Issue #	Description	Workaround
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF Viewer after moving the Basic Toolbar and opening the view mode dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low-level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock, and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059772	Multilanguage translations are missing from Effectivity Services.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters ("?", "*") can fail to return search results. For example, searching for "Planning" or "Plan" returns results. Using the wildcard query 'lanning' does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning item or for any document created from a content type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History created_on_tick can be duplicated when changes occur within 10ms.	

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Issue #	Description	Workaround
062877	An error may occur if saving an item when a large number of xProperties exist (e.g.2300).	
063022	View_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol • is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the table cell.
063542	Logout without Saving from the Unsaved Items window does not work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	Do not include is_current in applied AML.
064108	The order of requests with a ChangeSet in OData is significant, but it should not be; a service should be able to process the requests within a ChangeSet in any order.	
064243	Reference to an item is lost after applying @aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if the JavaScript method was assigned to a server event by mistake.	Method has to be disabled by direct database edit.
065154	Component onChange event is fired constantly (Chrome) and may hang the browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active ‘Pick Plane’ is cloned after the selection of any ‘CAD View’ in the Model Browser ‘Views’ tab in Visual Collaboration.	

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Issue #	Description	Workaround
069612	Icons disappear from the toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.	Log out and log back in.
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to “infinite.”	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word document in the Technical Documentation Framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
073231	Workflow process has resulted in SQL Deadlocks, if <200 Workflow Related items.	
075507	Some PDF files trigger errors on client and server sides.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077131	Add to Package Definition is enabled when an item’s form is opened.	
077226	An error is displayed in the Item’s tab when a user tries to unclaim the item using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
078110	Potential memory issues with xProperties search returning more than 10,000 results per page.	

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Issue #	Description	Workaround
078137	Cannot create an item with 150 properties of type item.	
078230	The value of an xProperty is not displayed in the grid.	Click Refine Search and check “Select All” checkbox. (When all values are selected, all values are displayed correctly).
078373	Fields on report form overlap each other in Japanese.	
078564	Internal Visual Collaboration Notifications are not sent on the cluster server.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) which references a client method or a server method with an error locks up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
079145	In cases where one Source row contains several divided, related rows in the configurable relationship grid, only the top related row is exported to Excel.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	

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Issue #	Description	Workaround
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
065360, I-008176	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
065384, I-006085	MBOM structure is not displayed correctly in Tree Grid View.	
069625, I-006495	English values are shown for Multilingual String Property in the results properties Panel in Japanese localized systems in Enterprise Search	
072008, I-002519	Windows authentication may display a “You are disconnected” error if the server MemoryCache removes HttpServerConnection from the cache.	
072506, I-001831	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will finish successfully without any further error messages.
073144, 073145	An error can occur while installing the ES Agent when the Essential Subscription has already been activated and the ES Component has not been installed.	
077659, I-006685	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
078074, 078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
081009, I-010884	Export to Excel from CMF results in an unreadable file.	

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Issue #	Description	Workaround
081510, I-011998	In the Project Tree Grid of a Project, in some cases, Japanese and Chinese characters are present in the document but appear as blank spaces in the print view of the PDF in Chrome. Printing on paper and viewing in another browser works fine.	Install a font that can display the desired symbols correctly or use another browser.
F-000315	Toolbars do not provide a dropdown when they extend past the right edge of the browser window.	Make the browser window larger.
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as is or updated to the new UI.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the standard UI OK and Cancel buttons.	
F-000599	The MAC Policy ItemType item view needs to be updated to the default accordion approach in the main form and relationship tabs views.	
F-000600	The main form and relationship tabs view associated with the Derived Relationship Family ItemType should be updated to the accordion approach.	
F-000601	The xClassification Tree ItemType item view should be updated to use the default accordion approach in the main form and relationship tabs view.	
F-000602	The DAC Definition ItemType view should use the default accordion approach for the main form and the relationship tabs view.	

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Issue #	Description	Workaround
F-000603	The item view associated with the Query Definition ItemType should use the default accordion feature for both the main form and the relationship tabs view.	
I-000628	Scrollbars are incorrectly introduced within the User menu in some situations.	
I-003121	In the “BOM Structure” tab, the split pane accessed by selecting the “View Effectivity” menu option from a BOM row does not automatically update Effectivity details when another BOM row is selected.	Click the “View Effectivity” menu option on the selected BOM row.
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-007375	In the BOM structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message does not appear when deleting a Favorite Search if the Favorite Search was added to the Forum.	
I-007671	The Tree Grid View Export to Excel feature breaks when a multi-level structure containing either Date or Numeric values is used. Excel cannot open the exported file.	
I-007743	“Set Usage For 3D View Definition” and “Remove Usage for 3D View Definition” commands are not translated.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query Definition result in slower processing times.	

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Issue #	Description	Workaround
I-008385	In Domain Access Control, in the Derived Relationship Family editor, double-clicking the dropdown on a DR row unmaps it without displaying the change until it is saved.	Do not double-click on the dropdown. If you already have, remap and save that row.
I-008984	In Tree Grid View, there are Display issues associated with complex “combined” row definitions.	Minimize combining (merging) query results into single rows until this issue is fixed.
I-008986	The [+] icon does not display on a “Growth” operation in Tree Grid View.	Refresh the Tree Grid View.
I-009076, I-008582	The Grow command in Tree Grid View may display inconsistent results.	Refresh the Tree Grid View to see the display correctly or use the [+] buttons instead of the Grow icon to expand the Tree Grid View.
I-009328	The highlighted value loses selection after another cell receives the focus.	
I-009836	Checkboxes in the Extended Classification relationship grid are the wrong size. They should be 16x16.	
I-010514	Viewers are not resized when the discussion panel is opened and closed in Firefox 68.	View Visual Collaboration using IE, Chrome or Edge.
I-010552	Using Chrome with the NonVisual Desktop Access application may cause the browser to close after the dialog window appears.	Update to the latest version of Chrome or do not use the NonVisual Desktop Access application in combination with the older version of Chrome.
I-010576	Cells in some specialized relationship grids may not display correctly after zooming.	
I-010655	Quickly clicking the “New Part” button on the relationship toolbar may result in the same sequence number being used for multiple rows in the list when using Internet Explorer or Edge.	Do not click too fast in IE or Edge or use a different browser.
I-011102	Type Ahead my fail for unsaved changed to Keyed Name in Item cell.	Item properties can be edited after the last save.
I-011278	When using Export to Word/Excel, the background color in relationship properties cells is not exported along with the data.	

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Issue #	Description	Workaround
I-012156	In the 3D Viewer, the cross section plane cuts geometry in a position that is offset from the displayed plane in Chrome and IE.	Use a browser other than Chrome or IE.
I-012327	In the 3D Viewer, in some cases, for assemblies with several instances of a component, when a single component is selected to be hidden, then that same component is selected to be hidden from another node, all other instances of the component will be hidden and the originally hidden component will be shown.	
I-012399	The first selection of a node in the Technical Document's structure tree editor is not selected when the structure tree is loaded.	Selecting another node will properly match selections after the list load.
I-012619	Including 0s in the decimal part of an Unsigned Big Integer number is not truncated after changing focus, which makes the value invalid.	
I-012655	Using spaces in an Unsigned Big Integer cell property does not trigger an error message.	After focusing out all the spaces are truncated in Unsigned Big Integer property.
I-012681	Subtitle of a Technical Document cannot be edited if selected directly in the Structure Tree.	Edit the Subtitle in the Editor instead of the Structure Tree.
I-012753	An error message appears when first opening the Dynamic Viewer when "Auto Grow on Refresh" is checked in Tree Grid View Settings.	Click the OK button in error, then click Refresh in the Tree Grid View model browser.
I-012933	The Relationship grid does not automatically scroll down to a new row after it has been added.	Scroll to the bottom of the grid if the newly added rows are not visible in the Relationship container.

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3.10 Version 12.0 SP3

3.10.1 Enhancements in Aras Innovator 12.0 SP3

Visual Collaboration

- **3D Dynamic View**: The Dynamic Viewer now supports the ability to use Parameters with Query Definitions. Parameters provide the ability for users to identify specific filtering logic to apply to the content displayed in the 3D View and Tree Grid View. The use of Parameters also enables the ability to apply Structure Resolution to filter 3D Content. Please refer to the Dynamic Visualization Guide for more information to configure these Features.

Tree Grid View

- **Support for Date/Time Cell View Type**: Users can specify that a cell in a Tree Grid View definition can be rendered as a Short or Long Date as well as a Date Time field.

Improved Refresh

- The Refresh command, found on the toolbar for item views, has been updated so that it fully refreshes from the database, similar to re-opening the item.

Relationship Grid Improvements

- The standard relationship grid has been updated to the same advanced technology as was used already for main search grids and modal search grids.

Flexible Accordion Layout

- The default Item View is to have the Form in the first accordion, and all relationship tabs in the second accordion. This automatically generated layout can now be modified using Configurable User Interface (CUI) modeling on a per-ItemType basis, such that any relationship tab can appear in any accordion.

Improved Keyboard Navigation

- It is now possible to navigate many regions of the client using common keystrokes such as arrow keys, Tab, Space, Enter, and Esc. This includes the header, navigation panel, toolbars for both search and item views, and item view accordions.

Improved Icons and Tooltips for Common Functions

- Certain commonly used command buttons are updated with improved icons and tooltips, to clarify their function. This includes the three commands which add rows to relationship grids: "Select Items" (pick related), "Create Item" (create related), and "Add Row" (no related). The "Delete Row" and "Create Item" command are updated in a consistent manner.

Item Access Report

- A new Item Access Report is available to Administrators which displays all active permissions, DAC, MAC, and methods for a given open item. This is available through "...>Permissions>Access Report".

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3.10.2 Issues fixed in Aras Innovator 12.0 SP3

Issue #	Description
011561, I-011304	Corrected the behavior in which a checkbox of an unlocked item would show "redline" when clicked even though the item and checkbox were not editable and were not changed.
012994, I-011309	"..." now properly appears when redline mode is active and a column on the grid is reduced in width.
024700, I-011294	Display of redline in the grid now stays within the boundaries of the relationship grid.
024755, I-011296	In the relationship grid, when a new relationship is added and the old relationship removed, redline mode correctly displays both the original (removed) relationship in redline and the new relationship in blue.
032391, 055290, I-011312, I-011313	Improved the display of files listed in the relationship grid while redlined.
033169	Corrected an issue in which a filtered list would show the list Value instead of the Label.
041392, I-011327	Corrected an issue in which using an ampersand in an Item name would always show as a changed field in redline mode.
045504, I-011298	Non-item forms now have a default icon in tabs.
045975, I-010166	Corrected a minor JavaScript error, which occurred if the user logged out while the Structure Browser tab was still opened.
046587, 075213, I-010030, I-011328	In redline mode search mode dropdown is disabled. Clicking the “Run Search” button when there are no criteria entered in the search bar does nothing in redline mode, allowing the user to resume redlining. The grid search row is not visible in redline view.
047031, 072347, I-005582, I-009451, I-009450	Updated the client to properly remember user preferences in the relationship grid column settings (e.g. hidden, order, etc.).

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Issue #	Description
063762	Firefox will now correctly handle the view of an ItemType, which has more than 500 properties in the main grid (Firefox only).
077312, I-010606	Added functionality to allow the display of file upload status and progress in the Aras Innovator browser window.
077333, I-007968	Addressed an issue in IE, when using Query Builder. The Context ItemType list is now correctly displayed above the Description field.
077700, 080124, I-008988, I-009169	Error message displays the ItemType singular label and ItemType Name, which is displayed in proper localization if available.
078076, I-001137	Favorite Searches functionality has been implemented to replace the old "Saved Search".
078923, I-007002	Corrected the behavior of the "Can Execute" Handler in the context menu of the RMB.
079408, I-008234, I-009017	Addressed an issue in which OAuth may fail to authenticate with a “HTTP Error 400” message if users belong to a large, weighted group of claims in WindowsIdentity which result in large request headers for the OAuth Server Requests..
081071, I-007671, I-010853	Corrected an issue in which columns configured as date or other non-text might not export to Excel from a relationship grid or Tree Grid View correctly and could cause the export to be unreadable.
081073, I-010947	Cell Color and Color List items in a relationship grid are now correctly exported to Excel.
081103, I-010889	Corrected an error that occurred when trying to add an external document link to any element of a Technical Document. The related document can now be chosen in the Link Editor dialog box.
081137, I-010997	Addressed a situation in which a Search dialog that contained polymorphic ItemTypes would not paginate correctly.
F-000008	Refresh command fully updates the item from the database.
F-000050	Standard relationship grid updated to advanced technology, with resulting performance gain for some use cases.

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Issue #	Description
F-000849	Allow flexible layout of relationship tabs in item view accordions.
F-000950	Improved support for keyboard navigation and screen readers.
F-001265	Fixed multiple bugs with Technical Documentation Framework editor.
F-001361	Improved icons and tooltips for common functions.
I-003735, I-009522	Checkboxes are now sized to 16x16px in grids.
I-005058	Updated Favorited Search functionality to be correctly saved when searching a Date column.
I-005206	Fixed an issue in IE, which might result in the failure to display the updates to a related item, which was edited in another window.
I-006962	Added a method to the Tree Grid API to open all loaded branches at once.
I-007101	Styling for tabs in a collapsed accordion has been updated.
I-007763	Relationship accordion correctly refreshes after changing or deleting data. Contents of a hidden tab are not displayed.
I-007879	"Edit" button is no longer displayed in the context menu called by right-clicking on an empty area of the relationship grid.
I-008023	"Paste Row" and "Paste Special..." are now correctly displayed in the BOM relationship sub-menu.
I-009340	Visual Collaboration discussion panel now works correctly when Technical Documentation Framework editor is active.
I-009725	Updated display of grids to be consistent when viewed from a MacOS.
I-009772	If the + sign next to the Revision property is clicked to create a new revision of a Part while on the “BOM Structure” tab, duplicate item rows are no longer displayed in the new item revision's view.
I-011060, I-011069	Addressed issues for compatibility with the new release of Chrome.

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Issue #	Description
011561, I-011304	Corrected the behavior in which a checkbox of an unlocked item would show "redline" when clicked even though the item and checkbox were not editable and were not changed.

3.10.3 Known Issues in Aras Innovator 12.0 SP3

Issue #	Description	Workaround
022708	When using Add Item(s) to Change action, there is no check to prevent the same Affected Item (such as the same Part) from being added multiple times to the same ECO.	
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	

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Issue #	Description	Workaround
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	

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Issue #	Description	Workaround
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available, only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action.can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .net System/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	

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Issue #	Description	Workaround
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification = Method and Builder Method results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	

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Issue #	Description	Workaround
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message is displayed.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment></comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with the xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF viewer after moving the Basic Toolbar and opening the view mod dropdown may cause an error.	

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Issue #	Description	Workaround
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification Tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low-level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059772	Multi-language translations are missing from Effectivity Services.	
059815, 59902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing auto-generated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters ("?", "*") can fail to return search results. For example, searching for "Planning" or "Plan" returns results. Using the wildcard query "lanning" does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning Item or for any document created from a Content Type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History.created_on_tick can be duplicated when changes occur within 10ms.	

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Issue #	Description	Workaround
062877	An error may occur if saving an Item when a large number of xProperties exist (e.g. 2300).	
063022	view_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol • is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the Table cell.
063542	Logout without Saving from Unsaved Items window does not work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	Do not include is_current in applied AML.
064108	The order of requests within a ChangeSet in OData is significant, but it should not be; a service should be able to process the requests within a ChangeSet in any order.	
064243	Reference to an item is lost after applying@aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064829	User Login will succeed, but the user will be unable to perform any actions if the JavaScript method was assigned to a server event by mistake	Method has to be disabled by direct database edit.
065154	Component onChange event is fired constantly (Chrome) and may hang browser session.	Use a different browser.
065360, I-008176	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting in promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
065384, I-006085	MBOM structure is not displayed correctly in Tree Grid View.	

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Issue #	Description	Workaround
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
069612	Icons disappear from the toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.	Log out and log back in
069625, I-006495	English values are shown for ML is_UI props on Japanese localized systems in Enterprise Search.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to "infinite".	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word Document in the technical documentation framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
072008, I-002519	Windows authentication may display a 'You are disconnected' error if server MemoryCache removes HttpServerConnection from cache.	
072506, I-001831	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will complete successfully without any further error messages.

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Issue #	Description	Workaround
073086,	Minimize execution of smoke tests on behalf of admin.	
073144, 073145	An error may occur while installing the ES Agent when the Essential Subscription has already been activated and the ES Component has not been installed.	
073231	Workflow process has resulted in SQL Deadlocks, if <200 Workflow Related Items.	
075507	Some PDF files trigger errors on client and server sides.	
076383	A Released or Cancelled MCO floats versions of the affected items instead of using exact versions used as of release or cancel.	
077131	Add to Package Definition is enabled when an item's form is opened.	
077226	An error is displayed in the Item's tab when a user tries to unclaim the Item by using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
077659, I-006685	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
078074, 078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
078110	Potential memory issues with xpxc search returning more than 10,000 results per page.	
078137	Cannot create an Item with 150 properties of type Item.	
078230	The value of an xProperty is not displayed in the grid.	Click on Refine Search and check the “Select All” checkbox. (When all values are selected, all values are displayed correctly.)

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Issue #	Description	Workaround
078373	Fields on report form overlap each other in Japanese.	
078564	Internal Visual Collaboration Notifications are not sent on the cluster server.	
078583	Relationship does not work if exclusion is used.	
078628	Fields on a property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for Searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) which references a client method or method with an error locks up the system for users.	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
079145	In cases where one Source row contains several divided, related rows in the configurable relationship grid, only the top related row is exported to Excel.	
081257	When adding an item to an ECO/DCO, there is no check if the item is already in another active ECO/DCO.	
081009, I-010884	Export to Excel from CMF results in an unreadable file.	
F-000315	Toolbars do not provide a dropdown when they extend past the right edge of the browser window.	Resize browser window larger.

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Issue #	Description	Workaround
F-000574	The command bars associated with Effectivity Expression ItemTypes do not use the default 12.0 item command bar. The Effectivity ItemTypes are: - effs_scope - effs_expression	
F-000591	The Relationship and Paging toolbars should be removed from the Query Definition parameters dialog box. The custom toolbar can either be retained as-is or updated to 12.0.	
F-000592	The Relationship and Paging toolbars should be removed from the Tree Grid View Map parameters dialog box. The checkmark and X buttons should be replaced with the UI design for OK and Cancel buttons.	
F-000599	The MAC Policy ItemType item view needs to be updated to the default 12.0 accordion approach in the main form and relationship tabs views.	
F-000600	The main form and relationship tabs view associated with the Derived Relationship Family ItemType should be updated to the 12.0 accordion approach.	
F-000601	The item view of the xClassification Tree ItemType should be updated to use the default 12.0 accordion approach in the main form and relationship tabs view.	
F-000602	The DAC Definition ItemType view should use the default 12.0 accordion approach for the main form and the relationship tabs view.	
F-000603	The item view associated with the Query Definition ItemType should use the default 12.0 accordion feature for both the main form and the relationship tabs view.	
I-000628	Scrollbars are incorrectly introduced within User menu in some situations.	

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Issue #	Description	Workaround
I-003121	In the “BOM Structure” tab, the split pane accessed via selecting the “View Effectivity” menu option from a BOM row does not automatically update Effectivity details when another BOM row is selected.	Click the “View Effectivity” menu option on the selected BOM row.
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-007375	In BOM Structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message does not appear when deleting a Favorite Search, if the Favorite Search was added to a Forum.	
I-007671	The Tree Grid View Export to Excel feature breaks when a multi-level structure containing either Date or Numeric values is used. Excel cannot open the exported file.	
I-007743	"Set Usage For 3D View Definition" and "Remove Usage For 3D View Definition" commands are not translated.	
I-007743	‘Set/Remove Usage for the 3D View Definition’ is not localized.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query definition result in slower processing times.	
I-008385	In the Derived Relationship Family editor, double clicking dropdown on DR row unmaps the row without displaying the change until saved.	Do not double click on dropdown. If done, remap that row and save.
I-008984	Display Issues with complex “combined” row definitions.	Minimize combining (merging) of query results into single rows until fixed.

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Issue #	Description	Workaround
I-008984	There are display issues associated with complex “combined” row definitions.	Until this issue is fixed, minimize combining/merging query results into single rows.
I-008986	The [+] icon does not display on a “Growth” operation.	Refresh the Tree Grid view.
I-009076, I-008582	The Grow command may display inconsistent results.	Refresh the Tree Grid View to see the display correctly or use the [+] buttons instead of the Grow icon to expand the Tree Grid View.
I-009328	Highlighted value loses selection after another cell receives the focus.	
I-009836	Checkboxes in the Extended Classification relationship Grid are the wrong size (should be 16x16)	
I-010327	“Data Template” form is empty in default TGV ‘View3D_CAD’. The ‘View’ context menu is disabled for the default Tree Grid View in the Dynamic Viewer.	Create a separate Tree Grid View Definition using the Default Query Definition – View3D-CAD. See the Dynamic Visualization Guide for a description of how to enable opening an item from the Tree Grid View.
I-010576	Cells in some specialized relationship grids may be improperly displayed after zooming.	
I-010655	Quickly clicking the "New Part" button from the relationship toolbar may result in duplicate New Parts being created in the list when using IE or Edge.	Don't click too fast in IE or Edge, or use a different browser.
I-010943	The 3D Viewer window can appear clipped if the Aras Innovator browser window is minimized and then maximized	A workaround involves closing the viewer and re-opening it.
I-010944	An additional vertical scroll bar can appear in the viewer when the viewer is opened. It doesn't have an effect on the view, but does take additional screen space on the right.	A workaround involves closing the viewer and re-opening it.
I-012186	Special paste > Create Related option incorrectly changes the property value of the parent item in fast grid to "Copy of Item" and sets both rows in the "New" State.	

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3.11 Version 12.0 SP2

3.11.1 Enhancements in Aras Innovator 12.0 SP2

Query Builder

- **Support for Structure Resolution**: Query Definitions now have the ability to apply the following Structure Resolution modes:
    - **Default (as Saved)**: the version of the related item as stored on the relationship. This is the standard resolution.
    - **Latest**: the latest version of the related item is used in the resolution.
    - **Latest Released**: the latest released version of the related item is used in the resolution.
    - **Latest Released or Latest**: the latest released version of the related item is used in the resolution. If there are no released versions of the related item, the latest version is used.
- They enable users to identify specific versions of a related item. Users can expose these options in Tree Grid Views for structures such as Part and CAD structures.

Part BOM Resolution Modes

- The Structure Resolution Modes described in the previous section dynamically resolve a multi-level Part BOM structure using item versions as specified in the resolution modes.

  The Part BOM structure recursively resolves from the top down based according to the resolution mode. Users can select the appropriate resolution mode using the **Modify Parameters** menu option in the BOM Structure tab. Users can also resolve Part BOM structures by specifying a resolution mode and effectivity criteria.

Visual Collaboration

- **3D Dynamic View**: The 3D Viewer now includes the ability to visualize 3D assembly components based only on configured Query Definitions. Dynamic Assemblies (sometimes referred to as 'Shattered') are constructed on the fly using the conditional logic contained in the associated Query Definition. Used together with the new embedded Tree Grid View, the Dynamic Viewer enables users to use 3D Visualization as a navigation tool to identify and view related PLM Business Objects.

Favorites

- Users can designate individual items as favorites by clicking the star icon in an item's title bar. Favorite items appear in the Quick Access area of the Navigation panel for the specific ItemType. Users can get to the Quick Access area by clicking on the ItemType entry in the Table of Contents.
- Users can add favorite searches to the Quick Access area of the Navigation panel. Favorite Searches are also found in their default location within the title bar selector above the search grid. This functionality is similar to the "Pin to TOC" option provided in Aras Innovator 11.0.

New Tab Functions

- Main tabs now include a context menu that includes the following functions: Close All Tabs, Close Other Tabs, Close Tabs to the Right, Close Tabs to the Left, and Tear off Tab.

Usability Improvements

- The usability of the modal search dialog has improved. Toolbars are clearer and larger.
- The usability of the multi-lingual input dialog has improved, with clearer buttons and larger data input fields.

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3.11.2 Issues Fixed in Aras Innovator 12.0 SP2

Table 7: Framework

Issue #	Description
063591	Domain Access Control permissions are now correctly propagated if the ItemType defined in the Subdomain has no Life Cycle Map.
063814	The possibility of deadlocks on uploading Files attached to an item has been addressed
064686	Corrected an issue where, if the user discarded edits to the definition property on the Effectivity Expression form, the property value would not get refreshed in the UI with the value from the database.
065706	The file name used in the URL for a linked document is now correct – there was a missing appended language identifier in the technical documentation framework.
072298	The Settings Preference Form for Enterprise Search will be available if Enterprise Search has been configured to use the Super User account.
072362	Addressed the case where, after a derived relationship was added in DAC, users other than “Super User” were not able to create a new Language item.
076993	Text is no longer displayed outside of the error message window in some long exception errors.
077229	Can now rename a non-leaf node in classification.
077582	The Replace action for Command Bar Items now works as expected.
078510	Conversion tasks will no longer be discarded if the instance and agent service are installed on different servers with different time zones.
078535	It is now possible to save a source item if a related item is claimed.
078552	After running a Search operation Favorite Search is selected as active.
078659	An Instance error no longer occurs when saving an Item with an attachment.

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Issue #	Description
079818	Can now close/discard is_relationship Items tab if the relationship is blank and no edits are made after attempting to cancel the creation of a new relationship.
F-000055	The Modal Search toolbar is updated to match the styling and organization of other toolbars.
F-000135	Any Favorite Searches which the user identifies as "Pin to Quick Access" are displayed in the Quick Access area of the ItemType menu.
F-000226	The login screen has been updated to provide capability for authentication options.
F-000273	Added xProperties support to Enterprise Search.
F-000366	Added Indexed Configurations Enhancements to Enterprise Search Admin.
F-000689	Added Index Summary to Enterprise Search Admin.
F-000735	Provides the ability for Administrators to define 3D View Definitions, with associated Query Definitions, that will be used to determine the content of a Dynamic View and provide access to related content.
F-000774	Added File Processor health information to Enterprise Search to see the current status of File Processor component and its derived processes.
F-000855	When closing a part with effectivity data, the unsaved dialog was improved to identify which effectivity data is unsaved.
F-000923	Added permissions for "New" button in the manage effectivity expression form.
I-003564	If a Report with target=main is run with no tabs opened it will correctly trigger the error message "Neither type nor typeId attribute is specified on tag ."
I-005663	‘Prev’ button in xClassTree search correctly changes the searched point.
038533, 038532	Functionality added to allow Export to Excel from Configurable Grid.
039924	Corrected a situation that could return 'undefined' after the 25th row of a relationship grid.

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Issue #	Description
057017	Added Data Type = Item Property to Request conditions for Delete Item/Item Type or Where Used actions.
057667, I-006113	Support structure resolution (As Saved, Released, and Latest) in Query Builder and Tree Grid View.
061526, I-002244	The Effectivity Expression Editor is no longer case-sensitive to Boolean Expression nodes.
063879, 064225	Domain Access Control permissions are now correctly propagated to an Item when the DAC Definition is activated.
076303	Advanced search by 'created on' property correctly processes when current locale has DDMMYYYY date format.
076568	Fixed potentially unstable MetadataDatabaseCache.
077140, I-001931, I-003564	Updated Actions and Reports ItemTypes with Target=Main and Type=Generic which were available from the user menu without opening the Search or Item Grid. Reports: data is now properly saved if there are any unsaved items and the user runs a Report with no other Search or Items currently open. Actions: Clarified the displayed message when attempting to close an unsaved tab.
077632, I-006683	Preferred vendors are now included in the Approved Vendors report.
077692, F-000712	Improved usability of the multi-lingual input dialog.
078042	Implemented derived multi-valued attributes in MAC Policy.
078306, F-000023	Ability to save and access favorite items.
078307, F-000049	Performance and usability enhancements to modal search dialog.
078364	Corrected an inconsistency with the 'ml-string' property when the suffix is different from the language code.

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Issue #	Description
078406, I-005532	Actions with the Can Execute method that return "False" or "NULL" are now shown as disabled for users from the user menu.
078570	Addressed a Data type inconsistency for login_name in User and LockedUser.
079818	Corrected a situation in which an Item would not allow the user to close/discard if the relationship tab was touched, even without edits.
079982, F-000051	Added a context menu on main tabs, which provides convenient functions to close all tabs, close tabs to the right or left, etc.
080121	Updated German translations on Unsaved Changes dialog.
080601	Updated German translation in installer.
080664, I-005818	Relationship Grid cell height was increased by 1px to address a display issue in which some rows only displayed partially.

3.11.3 Known Issues in Aras Innovator 12.0 SP2

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	

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Issue #	Description	Workaround
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.

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Issue #	Description	Workaround
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	

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Issue #	Description	Workaround
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of the “related options” dropdown in the relationship grid.	
054514	Action.can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .net System/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification = Method and Builder Method results in the method not executing and an error message being displayed.	

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Issue #	Description	Workaround
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message is displayed.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment></comment> tag set with a non-null value.

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Issue #	Description	Workaround
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with the xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF viewer after moving the Basic Toolbar and opening the view mod dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification Tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059772	Multi-language translations are missing from Effectivity Services.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	

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Issue #	Description	Workaround
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	
060477	Extended Classification functionality is broken after importing autogenerated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
061681	Editing comments is only supported in the default SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters ("?", "*") can fail to return search results. For example, searching for "Planning" or "Plan" returns results. Using the wildcard query "lanning" does not return any results.	

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Issue #	Description	Workaround
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning Item or for any document created from a Content Type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History.created_on_tick can be duplicated when changes occur within 10ms.	
062877	An error may occur if saving an Item when a large number of xProperties exist (e.g. 2300).	
063022	view_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol • is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the Table cell.
063542	Logout without Saving from Unsaved Items window doesn't work.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	Do not include is_current in applied AML.
063762	Browser window crashes when attempting to view an ItemType which has more than 500 properties in the main grid (Firefox only).	Use a different browser.
064108	The order of requests within a ChangeSet in OData is significant, but it should not be; a service should be able to process the requests within a ChangeSet in any order.	
064243	Reference to an item is lost after applying@aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	

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Issue #	Description	Workaround
064829	User Login will succeed, but the user will be unable to perform any actions if the JavaScript method was assigned to a server event by mistake	Method has to be disabled by direct database edit.
065154	Component onChange event is fired constantly (Chrome) and may hang browser session.	Use a different browser.
065445	Passwords with non-Latin characters are not supported.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
069612	Icons disappear from the toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.	Log out and log back in
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to "infinite".	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word Document in the technical documentation framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
073086	Minimize execution of smoke tests on behalf of admin.	

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Issue #	Description	Workaround
073231	Workflow process has resulted in SQL Deadlocks, if <200 Workflow Related Items.	
075507	Some PDF files trigger errors on client and server sides.	
077131	Add to Package Definition is enabled when an item's form is opened.	
077226	An error is displayed in the Item's tab when a user tries to unclaim the Item by using Ctrl+L.	
077386	Form elements overlap each other in German localization.	
078100	A Method is not executed if file and identity prop adding to item.	
078110	Potential memory leak in part+xpxc.	
078137	Cannot create an Item with 150 properties of type Item.	
078230	The value of an xProperty is not displayed in the grid.	Click on Refine Search and check the “Select All” checkbox. (When all values are selected, all values are displayed correctly.)
078373	Fields on report form overlap each other in Japanese.	
078564	Internal Visual Collaboration Notifications are not sent on the cluster server.	
078583	Relationship doesn't work if exclusion is used.	
078628	Fields on a property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for Searching.	

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Issue #	Description	Workaround
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078694	Users can delete a saved search when a favorite search is shared with them.	
078878	MAC Environment Attribute (EA) which references a client method or method with an error locks up system for users	Fully test method prior to using it in an EA, and do not assign a client method to an EA. In the event one is used, login as root and delete EA item.
079145	In cases where one Source row contains several divided, related rows in the configurable relationship grid, only the top related row is exported to Excel.	
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
065360, I-008176	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting in promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
065384, I-006085	MBOM structure is not displayed correctly in Tree Grid View.	
069625, I-006495	English values are shown for ML is_UI props on Japanese localized systems in Enterprise Search.	
072008, I-002519	Windows authentication may display a 'You are disconnected' error if server MemoryCache removes HttpServerConnection from cache.	

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Issue #	Description	Workaround
072506, I-001831	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will complete successfully without any further error messages.
073144, 073145	An error may occur while installing the ES Agent when the Essential Subscription has already been activated and the ES Component has not been installed.	
077333, I-007968	In IE, when using Query Builder, the Context ItemType list is displayed under the Description field.	Use a browser other than IE.
077659, I-006685	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
078074, 078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
081103, I-010889	A console error occurs when trying to add an external document link to any element of a Technical document. The related document cannot be chosen in the Link Editor dialog box.	
F-000315	Toolbars do not provide a dropdown when they extend past the right edge of the browser window.	Resize browser window larger.

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Issue #	Description	Workaround
F-000587, F-000574, F-000581, F-000588, F-000589, F-000591, F-000592, F-000599, F-000600, F-000601, F-000602, F-000603, F-000604	Certain administrator ItemTypes still use the 11.0 style toolbars.	
I-000628	Scrollbars are incorrectly introduced within User menu in some situations.	
I-001137, 078076	It is not currently possible to Add Saved Searches to Forums.	
I-003121	In the “BOM Structure” tab, the split pane accessed via selecting the “View Effectivity” menu option from a BOM row does not automatically update Effectivity details when another BOM row is selected.	Click “View Effectivity” menu option on the selected BOM row.
I-004025	The model orientation changes on subsequent refreshes of the Dynamic Viewer.	
I-005497, I-001432	Scrollbars are incorrectly introduced within a relationship grid context menu in some situations.	
I-005892	Dynamic Viewer rendering performance is slower in Internet Explorer.	Use one of the other browsers supported by Aras Innovator.
I-007375	In BOM Structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox.
I-007440	An error message doesn't appear when deleting a Favorite Search, if the Favorite Search was added to a Forum.	

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Issue #	Description	Workaround
I-007671	The Tree Grid View Export to Excel feature breaks when a multi-level structure containing either Date or Numeric values is used. Excel cannot open the exported file.	
I-007743	'Set/Remove Usage for the 3D View Definition' is not localized.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query definition result in slower processing times.	
I-008385	In the Derived Relationship Family editor, double clicking dropdown on DR row unmaps the row without displaying the change until saved.	Do not double click on dropdown. If done, remap that row and save.
I-008984	Display Issues with complex "combined" row definitions.	Minimize combining (merging) of query results into single rows until fixed.
I-008984	There are display issues associated with complex "combined" row definitions.	Until this issue is fixed, minimize combining/merging query results into single rows.
I-008986	The [+] icon does not display on a "Growth" operation.	Refresh the Tree Grid view.
I-009076, I-008582	The Grow command may display inconsistent results.	Refresh the Tree Grid View to see the display correctly or use the [+] buttons instead of the Grow icon to expand the Tree Grid View.
I-009772	If the + sign next to the Revision property is clicked to create a new revision of a Part while on the "BOM Structure" tab, then duplicate item rows are displayed in the "BOM Structure" tab of the new item revision view.	a) Click refresh after creating the new revision. b) Use the "Create New Revision" menu option instead of the + sign. c) Click the + sign while on a different tab.

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Issue #	Description	Workaround
I-010327	“Data Template” form is empty in default TGV ‘View3D_CAD’. The ‘View’ context menu is disabled for the default Tree Grid View in the Dynamic Viewer.	Create a separate Tree Grid View Definition using the Default Query Definition – View3D-CAD. See the Dynamic Visualization Guide for a description of how to enable opening an item from the Tree Grid View.
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies to all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	

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3.12 Version 12.0 SP1

3.12.1 Enhancements in Aras Innovator 12.0 SP1

Query Builder

- **Exists Function**: The Condition Editor now supports the use of 'Exists().' This function is used with related Query Items in a Query Definition. It enables users to filter items based on the existence or absence of related items.
- **Improved Copy/Paste**: Query Definition Items can be duplicated to make it easier to create a Query Definition similar to the copied item.

Tree Grid View

- **Excel Export**: Tree Grid View now supports the ability to create an Excel file that contains the contents of a Tree Grid View. When created, the generated Excel file contains the same rows and columns that are configured in the related Tree Grid View Definition. The Excel file contains all of the data currently displayed in the client.
- **Sorting**: Tree Grid View now supports sorting on selected columns. Sorting is executed in a way that is similar to other grid/tabular content in Aras Innovator. Content is sorted at each level in the grid where hierarchical data is displayed.

Pinned ItemTypes

- Users can pin their favorite ItemTypes to the Navigation sidebar for quick access. Clicking on a pinned ItemType icon provides direct access to the create and search commands in the secondary panel without expanding the full TOC to find the ItemType.

Current Life Cycle State Indicator

- An item's current state in a Life Cycle Map is now clearly indicated using a yellow highlight.

Effectivity in Part BOMs

- Users can now edit Effectivity on Part BOM in the BOM Structure tab. A split pane enables users to create, edit, and remove Effectivity on any line in a multi-level BOM Structure by selecting **View Effectivity** from the context menu.

3.12.2 Issues Fixed in Aras Innovator 12.0 SP1

Table 8: Framework

Issue #	Description
F-000014, 077447	Added the ability for the user to Pin ItemTypes in order to allow easy access to commonly used ItemTypes.
F-000080	Added a new Sidebar to the Nav Panel and fixed the set of Nav Panel views. A display of new Pinned ItemTypes has also been added.
F-000129	Updated the TOC to use new TOC Modeling Capabilities.

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Issue #	Description
F-000143	Updated the styling of Relationship Grids.
F-000159, 077448	The current state of an Item within a Life Cycle map is now indicated graphically, making it clear to the user what the current state is.
F-000162	Improved the Styling of the default ItemType icon.
F-000260	Added the ability for configurable behavior to evaluate a relationship to be effective when it has more than one effectivity on it.
F-000392, 078308	Added the ability to add new, update existing, and delete existing effectivity from a Part's "BOM Structure" tab.
F-000434	Defined the public API for token providers in IOM.
F-000490	Created templates and examples for OAuthServer plugins to speed up plugin development.
F-000497	Moved ItemType Actions to the TOC context menu.
F-000641	Added View and Edit modes in the effectivity editor.
F-000642	Updated the effectivity expression editor to open as a pop-up for Add and Edit.
F-000763	Enhancements were made to improve the accuracy of the search results in Enterprise Search.
I-003044	ItemType actions are now available without creating an item.
037057	Corrected an issue that prevented a new user currently logged in to a can_add group Identity from adding a new item even after the user logged out and then logged back in.
052972	Added functionality to allow for customization of the filter order in the left panel for Enterprise Search.
056715	Customization of context menus on TOC now works as expected.
057669, 078311	Added support to allow the export of tree view content to Excel.

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Issue #	Description
069629	Enterprise Search crawlers can be directly managed from the dashboard in Japanese localized system.
072692, 078309	Columns can be sorted manually in Tree Grid View (TGV).
072873	Updated Query Builder to allow the use of the "Exists" condition function (similar to how "Count" is used).
074581	Instance now works when there is an apostrophe in a TOC Category name.
076332	MAC Policy correctly supports "list" and "text" datatypes.
076483	Corrected Query Definition which would return an Error for "Save As" if it had a long Alias of QueryItem
077017	Potential deadlock issues on tmpTable were addressed.
077091	Content Modeling Framework correctly prints/exports to XPS.
077287	Item can now be saved if it has a tab with a configurable grid that uses the Item/File property cell.
077337	Allows separated SQL transactions in a Server Method.
077595, 076961	Addressed an issue that occurred when creating Domain Access Control definitions. Administrators can now use the same name for Derived Relationships, as long as the Relationships belong to different Derived Relationship Families.
077626	Corrected errors when trying to uncheck the Relationship View checkbox under “Remove Tree Grid View Usage” dialog.
077907	Fixed a condition in which the Derived Relationship grid may disappear after switching from Editor to Form.
077953	Fixed a potential conflict in UPDATE statements with the FOREIGN KEY constraint.

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3.12.3 Known Issues in Aras Innovator 12.0 SP1

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies for all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	

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Issue #	Description	Workaround
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 do not execute after upgrade.	
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes such as Document and CAD Document do not include these file types.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed using click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.

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Issue #	Description	Workaround
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of “related options” dropdown in the relationship grid.	
054514	Action.can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close the browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .net System/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane does not fully work in RTL languages. Grid layout can become corrupt when using the freeze pane feature.	

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Issue #	Description	Workaround
056000	Upgrade from SP11 to SP12 requires a manual SQL script to be run.	Run the SQL script in conjunction with the Upgrade.
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification = Method and Builder Method, results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.

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Issue #	Description	Workaround
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message is displayed.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment></comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with the xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF viewer after moving the Basic Toolbar and opening the view mod dropdown may cause an error.	

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Issue #	Description	Workaround
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification Tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059772	Multi-language translations are missing from Effectivity Services.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing autogenerated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
060621	Tabular View is missing in the TOC section "Administration" -> "Content Modeling." The Export Tool does not support Polymorphic types.	Select Administration -> ItemTypes. Search for cmf_TabularView and select the TOC Access tab. Add the appropriate identity. Search for the related view (cft_ERP_TableView) in the TOC. Select Tools -> Admin -> Add to Package Definition.
061526	The Effectivity Expression Editor is case-sensitive to Boolean Expression nodes.	Use expected upper or lower-case text for expression nodes.

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Issue #	Description	Workaround
061681	Editing comments is only supported in the default template SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.
062216	Enterprise Search queries that use wildcard characters (“?”, “*”) can fail to return search results. For example, searching for “Planning” or “Plan” returns results. Using the wildcard query “lanning” does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning Item or for any document created from a Content Type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History.created_on_tick can be duplicated when changes occur within 10ms.	
062877	An error may occur if saving an Item when a large number of xProperties exist (e.g. 2300).	
063022	view_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol • is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the Table cell.
063542	Logout without Saving from Unsaved Items window doesn't work.	
063591	Domain Access Control permissions are not propagated if the Item defined in the Subdomain has no Life Cycle Map.	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable items through AML.	Do not include is_current in applied AML.
063762	Browser window crashes when attempting to view an ItemType which has more than 500 properties in the main grid (Firefox only).	Use a different browser.

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Issue #	Description	Workaround
063814	Deadlocks on uploading Files attached to an item.	
064108	The order of requests within a ChangeSet in OData is significant, but it should not be; a service should be able to process the requests within a ChangeSet in any order.	
064243	Reference to an item is lost after applying@aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064686	If the user discards edits to the definition property on the Effectivity Expression form, the property value doesn’t get refreshed in the UI with the value from the database.	Close the form and re-open it.
064829	User Login will succeed, but the user will be unable to perform any actions if the JavaScript method was assigned to a server event by mistake.	Method has to be disabled by direct database edit.
065154	Component onChange event is fired constantly (Chrome) and may hang browser session.	Use a different browser.
065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting in promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
065384	MBOM structure is not displayed correctly in Tree Grid View.	
065445	Passwords with non-Latin characters are not supported.	

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Issue #	Description	Workaround
065706	The file name used in the URL for a linked document is not correct – there is a missing appended language identifier in the technical documentation framework.	
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration.	
069612	Icons disappear from the toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.	Log out and log back in
069625	English values are shown for ML is_UI props on Japanese localized systems in Enterprise Search.	
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to "infinite".	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word Document in the technical documentation framework.	
071948	In a simple Query definition, when the join condition of a sub-part is changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure based on the number of parameters.	
072008	Windows authentication may display a 'You are disconnected' error if server MemoryCache removes HttpServerConnection from cache.	

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Issue #	Description	Workaround
072298	If Enterprise Search has been configured to use the Super User account, the Settings Preference Form for Enterprise Search will not be available.	Configure Enterprise Search as an admin user other than the Super User.
072362	After a derived relationship is added in DAC, users other than “Super User” will not be able to create a new Language item.	Add language Items before creating a Derived Relationship or, if the Derived relationship has already been created, add a language Item using the root (not admin) user account.
072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will complete successfully without any further error messages.
073086	Minimize execution of smoke tests on behalf of admin.	
073231	Workflow process has resulted in SQL Deadlocks, if <200 Workflow Related Items.	
075507	Some PDF files trigger errors on client and server sides.	
076993	Text is displayed outside of the error message window in some long exception errors.	
077131	Add to Package Definition is enabled when an item's form is opened.	
077140	Actions and Reports Item Types with Target=Main and Type=Generic can be available from the user menu without opening the Search or Item Grid. Reports: data may not be properly saved if there are any unsaved items and the user runs a Report with no other Search or Items currently open. Actions: although the message "Changes you made may not be saved." is displayed, it may not be clear which tab the message is referring to.	Save the Actions or Reports Item Types before closing the tab.

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Issue #	Description	Workaround
077226	An error is displayed in the Item's tab when a user tries to unclaim the Item by using Ctrl+L	
077229	Cannot rename non-leaf node in classification.	
077333	In IE, when using Query Builder, the Context ItemType list is displayed under the Description field.	Use a browser other than IE.
077386	Form elements overlap each other in German localization.	
077582	The Replace action for Command Bar Items doesn't work.	
077632	Preferred vendors are not included in the Approved Vendors report.	
077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
078100	A Method isn't executed if file and identity prop adding to item.	
078110	Potential memory leak in part+xpxc.	
078137	Cannot create an Item with 150 properties of type Item.	
078230	The value of an xProperty is not displayed in the grid.	Click on Refine Search and check the “Select All” checkbox. (When all values are selected, all values are displayed correctly.)
078373	Fields on report form overlap each other in Japanese.	
078510	Conversion tasks may be discarded if the instance and agent service installed in different servers with different time zones.	

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Issue #	Description	Workaround
078535	It is not possible to save a source item if a related item is claimed.	
078552	After running a Search operation - Favorite Search is not selected as active.	
078564	Internal Visual Collaboration Notifications are not sent on the cluster server.	
078583	Relationship doesn't work if exclusion is used.	
078628	Fields on a property form overlap each other in German.	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for Searching.	
078630	Fields in User ItemType overlap each other in German.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
078659	An Instance error may occur when saving Item with attachment.	
078694	A User can delete a saved search when a favorite search is shared with him.	
079145	In cases for which one Source row contains several divided, related rows in the configurable relationship grid, only the top related row is exported to Excel.	
079818	Cannot close/discard is_relationship Items tab if the relationship is blank and no edits are made after attempting to cancel the creation of a new relationship.	Make an edit and the relationship can be saved successfully and can then be deleted, if necessary.
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	

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Issue #	Description	Workaround
063879, 064225	Domain Access Control permissions are only propagated to an Item when it is in a Life Cycle State that is part of the Item's ItemType Life Cycle Map when the DAC Definition was activated.	Deactivate and then re-activate the DAC Definition. The new Life Cycle Map will then be used for access calculations.
073144, 073145	An error may occur while installing the ES Agent when the Essential Subscription has already been activated and the ES Component has not been installed.	
078074, 078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
I-001137, 078076	It is not currently possible to Add Saved Searches to Forums.	
F-000315	Toolbars do not provide a dropdown when they extend past the right edge of the browser window.	Resize browser window larger.
F-000587, F-000574, F-000581, F-000588, F-000589, F-000591, F-000592, F-000599, F-000600, F-000601, F-000602, F-000603, F-000604	Certain administrator ItemTypes still use the previous 11.0 style toolbars.	
I-005497, I-001432	Scrollbars are incorrectly introduced within the relationship grid context menu in some situations.	
I-003564	Aras Innovator is broken when Report/Action opens with target=main.	
I-005532	Actions with Can Execute method that return "False" or "NULL" are not shown as disabled for users from user menu.	

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Issue #	Description	Workaround
I-005663	'Prev' button in xClassTree search doesn't change the searched point.	
I-000628	Scrollbars are incorrectly introduced within User menu in some situations.	
I-007375	In BOM Structure, the Effectivity split pane closes if the user clicks the backspace key (Firefox browser only).	Use a browser other than Firefox
I-007671	The Tree Grid View Export to Excel feature breaks when a multi-level structure containing either Date or Numeric values is used. Excel cannot open the exported file.	
I-007920	Query Definitions that include query items such as CAD[Exists(Native File)] in conjunction with a Dynamic 3D Viewer Query definition result in slower processing times.	

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3.13 Version 12.0

3.13.1 Enhancements in Aras Innovator 12.0

Aras Web Client UX (User Experience) Enhancements

The web client has been significantly updated to provide usability improvements that will help every Aras user to get their work done faster. The entire navigation approach has been re-thought and updated for maximum productivity, and styling has been updated to be clear and consistent throughout. These changes represent an evolution of the existing web client, not a completely new client, allowing existing client configuration mechanisms to be maintained. The 12.0 release introduces many specific new features listed below, and sets the foundation for further UX improvements to come.

- **Run in browser tab:** The client now operates directly in the current tab of the browser, without opening a separate window.
- **Support for Authentication Framework:** The client has built-in support for the new Aras Authentication Framework, making it easier to define the authentication approach, which is then directly available to users from the login screen. Enforcing OAuth is now available in Aras Innovator. In addition, implicit grants for web clients can be enabled. There is also improved infrastructure for authentication plugins.
- **Navigation Panel:** This new panel provides the main entry point for navigation in the system. It initially contains the Table of Contents (TOC), with more features to come.
- **Improved Table of Contents (TOC):** Both the usability and styling of the TOC have been improved, to clarify how users access their available ItemTypes and HTML pages (Dashboards)
- **Everything as separate tabs:** Searches, Enterprise Searches, and HTML pages (Dashboards) are all now supported as independent tabs, which can all stay active simultaneously. Multiple simultaneous search tabs for the same ItemType are also supported.
- **Updated toolbars:** Access to commands has been consolidated to context-specific toolbars, where the most common commands are clearly highlighted and secondary commands are grouped in convenient dropdown selectors. Each toolbar has a clear title to indicate the contents, and command names and icons have been updated as well. All toolbars can be configured using Configurable User Interface (CUI) modeling.
- **Simplified item editing (Edit not Lock):** Users now click on the **Edit** button to edit an item, and on **Save**, **Done**, or **Discard** after editing. The concept of “locking” still exists at the database level and remains unchanged. Users also have the option to set a Claim on an item (which locks the item) without going into edit mode.
- **Item accordion view:** The main view of items has been updated to use accordions, providing a more modern and convenient way to scroll through item information. Tabs can be selected within each accordion as a second level. Standard Aras forms have been simplified to remove the redundant “Item Info” section on the left.
- **New Favorites approach:** A simple, consistent approach for Favorites is introduced in this release, starting with Search Favorites. Formerly known as Saved Searches, they can be easily saved by clicking the star icon on the toolbar. The Favorites concept is planned to be extended to Items and other content in subsequent releases.

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Enterprise Search Enhancements

- **Improved data model:** The administrative data model has been updated to make it easier to handle settings and administration. Changes include updates to Indexed Configuration Type, Indexed Type, Indexed Property and Indexed Files. These changes allow Aras to add future enhancements to Enterprise Search. Changes also include updates to improve visibility into Crawler activity and Component Health.
- **Search UX Enhancements:** Several enhancements and styling updates have been made to the Enterprise Search UX:
    - **New Apply and Clear All Buttons**: Users can now select multiple filter values from the same or different filters and click on the Apply button to execute the search with the selected filters. All selected filters can be cleared by using the Clear All button. Selecting individual filter values by checking the checkboxes within filters will no longer run the search immediately.
    - **Syntax Help Button**: This button provides help on the search syntax and operators that can be used in Enterprise Search. For example, AND, OR, "" (Phrase Search) are some of the operators that can be used. Note that this only applies for Enterprise Search and not the regular search on items.
    - **Search for Filters**: Users can now search for Filter titles (not values) by typing in the text field. This is particularly useful if there is a large number of filters.
    - **Show All and Sorting Filter Values**: Users can narrow down filter values by selecting the Show All button that then allows filtering, and sorting values within that filter.
    - **Run Enterprise Search in separate tabs**: The client UX has been improved to allow running Enterprise Search in multiple separate tabs. A number of small enhancements have been made that allow it to be clearer and more efficient. A number of data model features have also been added to enable enhancements in future service packs.

Product Engineering (PE) Enhancements

The following improvements have been made to the Product Engineering application:

- **Specialized grids replaced with configurable Tree Grid Views:** Relationship tabs that previously used specialized grids have been updated to use standard Aras platform components Query Definition and Tree Grid Views, enabling easy configurability of the grids. Users can specify the level of the structure to expand, and also use the "Show more…" feature to control the amount of data viewed.

  The following tabs have been updated:
    - Part – BOM Structure tab
    - Part – Changes tab
    - Document – Changes tab
    - CAD Document – Parents tab
    - CAD Document – Parts tab
    - CAD Document – Changes tabs
    - Manufacturer – Manufacturer Parts tab
    - Manufacturer Part – Related Parts tab

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- **Reports have been updated to use configurable Query Definitions** via server methods for retrieving and preparing the data to display on the report. Stylesheets are used only for formatting the display.

  The following reports have been updated:

  Multilevel BOM Report

  BOM Quantity Rollup Report

  BOM Costing Report

- **Report styling has been improved**. A print button is available on reports. The print button uses the standard browser print function. Depending on the browser, various print choices, such as printing to a printer, or saving to PDF, are available.

  The following reports have been updated:

  Multilevel BOM Report

  BOM Quantity Rollup Report

  BOM Costing Report

  Approved Vendors Report

  ECN Report

  ECR Report

  ECR Log Report

  PR Report

  PR Log Report

  PE_SearchPartCircularReferences

- **Effectivity in Part BOMs:** Effectivity – conditional inclusion/exclusion – can now be set on Part BOMs. The PE application provides commonly used Model, Unit and Date effectivity variables out-of-the-box with the **Aras Part BOM** scope, with an ability to add other effectivity variables easily. Effectivity scope organizes sets of effectivity variables. Additional effectivity scopes can be created and used without requiring any configuration or customization. Filtering logic based on unique business rules can be handled by customizing the scope builder.

  Effectivity can be set on multiple levels in the Part BOM Structure, and the BOM Structure can then be resolved for selected effectivity criteria. To fully resolve a BOM, a value is expected for each effectivity variable. To resolve a BOM partially, values for one or more effectivity variables can be left blank in the criteria dialog.

Effectivity Services

The following enhancements have been added:

- Effectivity Services now supports variables of type Item. Item has been added to the effs_variableDatatype list. Item processing is supported in the builder method which also builds an associated valid cache dependency.

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- Effectivity Services supports the effs_model. The property name type is multilingual. If users add a variable with the name Model and type Item, they can link the Model variable to the effs_model ItemType. Effs_model is available in the TOC near Effectivity scope.

Query Builder

Min/Max aggregate functions have been added for Conditional logic in a Where Clause.

Tree Grid View

List and Boolean data types have been added along with precision support for floating point data types.

Visual Collaboration

- Support has been added for viewing SolidWorks Configurations, which allow users to choose from a list of stored configurations using imported SolidWorks CAD assemblies using the 3D viewer.
- 3D measurement endpoint selection to snap to endpoints on 3D line segments is improved.

3.13.2 Issues Fixed in Aras Innovator 12.0

Table 9: Framework

Issue #	Description
033354	Fixed the Activity Assignment Context Menu cache, locked_by, which could get out of sync if a second user locked the controlled item at the same time.
031228	Insert hidden column now correctly respects the current mouse position.
034736	onFocus events work correctly for textarea fields.
034870	Updated Printable View for Forms to work in Firefox with a visual collaboration document open.
042767	Aras Innovator system requirements updated to require .NET Framework 4.7.2
046544	Tech Docs Framework now enforces one to one mapping Classification and Document Element mapping.
051022	Aras Innovator core updated to support server methods C# 6.0 and higher.
052600	Updated Export utility to eliminate unneeded empty relationship tags.
054336	Item window tab label is now updated on save of the Item if the keyed_name includes an item.

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Issue #	Description
054522	Updated the user interface for Enterprise Search.
055969, 056199, 056200	Addressed possible SQL transaction deadlocks related to File transactions.
055969, 056199, 056200, 063814	Updated the data model to prevent possible SQL deadlocks that could occur when updating File Items.
056648	Introduce additional user interface modeling tools to define the layout of UI elements like Item Views and TOC
058252	Updated the backend of Tree Grid View to set a flat Output Format Flag.
058602, 058604	In Effectivity Services the operations >= and <= have been updated to work with or without spaces between the variable and the operator.
059951	Enhance web client usability by improving multitasking, navigation, editing, and presentation
061823	Addressed situation in which it was possible to create a null member that would result in corruption of Aras Innovator data.
062526	Fixed user interface to not show HTML tags in custom error messages.
063591	Addressed issue that could prevent Domain Access Control permissions propagating if the item defined in the Subdomain has no LifeCycle Map.
063879	Improved Domain Access Control permissions are to propagate when an Item is in a Life Cycle State that is part of the Item's ItemType Life Cycle Map when the DAC definition was activated.
064686	Fixed an error where the user discards edits to the definition property on the Effectivity Expression form, and now the property value gets refreshed in the UI with the value from the database.
064728	The root_type property is now required in the ES_IndexedConfiguration ItemType.
064729	The crawler_agent property is now required in the ES_Crawler ItemType. Customers can have instances of ES_Crawler where crawler_agent is null.

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Issue #	Description
064795, 063481, 061572, 062214, 063481	Improved Japanese language pack.
065336, 065337, 065432, 065784, 065785, 065787	Improved Effectivity Services
065440	The name property is now required in ES_IndexedConfiguration.
069608	“Errors” checkbox no longer remains checked in Disabled State.
072208	Introduced User Visibility Policy configurations.
072362	Fixed permission issue that could prevent creation of Language Items.
072645	Display of Boolean properties was corrected in Tree Grid View.
072818	Fixed an issue with invalid XML characters in Model Browser Nodes.
072874	Implemented Max/Min options in Query Builder.
072934, 072953	Fixed an issue in which additional/extra data EDR tabs could be created when Locking/Unlocking an item.
073494	Eliminated possible error when creating Items with foreign properties. Original error message returned was “Column argument cannot be null.”
073545	An issue was corrected in which OauthServer.sqllite could not be created, when the OAuth Server was installed by default path and Aras Innovator Server was installed to any other folder.
075175	Corrected an issue where condition editor output was not consistent with the intended statement in the MAC Policy editor.
075637	Added support of the Default Structure Resolution to Query Builder and Tree Grid View.

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Issue #	Description
075717	Error corrected when using Nash with Windows Authenticated Environments.
077585	Implemented Aras Innovator Variable for Max Levels limit in Query Builder.
F-000001	Searches are now applied as separate tabs, allowing multiple searches to be active at once.
F-000002	Removed Window Mode for Item View.
F-000005	Aras Innovator allows multiple dashboards to be active at once.
F-000010	Improved the navigation Panel such that Aras Innovator will support common item operations in a single panel with clear operation.
F-000016	Aras Innovator now allows the client to be run in a browser tab.
F-000021	Enterprise Searches are applied as separate tabs, allowing multiple enterprise searches to be active at once.
F-000025	Provided an improved display of item properties, related items, and other item-specific information.
F-000056	Implemented updated and improved the Header Commands set.
F-000057	Implemented a new user Notification interface.
F-000081	Added Nav Panel Styling in the new layout.
F-000130	Updated the TOC to the new styling.
F-000131	Implemented actions on leaf entries (ItemTypes) in the TOC.
F-000132	Added the secondary menu within the TOC, which is shown when clicking directly on the ItemType entry.
F-000137	Removed obsolete entries from the TOC.
F-000142	Applied new Search Grid styling.
F-000152	Redesigned Progress Indicator styling.

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Issue #	Description
F-000153	Designed Toast Notification styling.
F-000154	Updated all SVG icons.
F-000201	Moved Viewer menu commands to viewer toolbars.
F-000227	Applied style updates to the main tab.
F-000276	Structure resolution by effectivity criteria has been incorporated into Part's "BOM Structure" tab.
F-000228	Main search grid Preview is now set to Off by default.
F-000229	Changes InBasket Task ItemType to use the new default search toolbar.
F-000274	Added End-user Search enhancements to the User Interface.
F-000276	Structure resolution by effectivity criteria has been incorporated into Part's BOM Structure tab.
F-000283, F-000281	Improved security for Enterprise Search installations and running.
F-000289	Effectivity in PE UI is displayed by default.
F-000292	Added a default string notation for effectivity on Part BOM. When viewing the BOM from the BOM Structure tabs, human-readable effectivity information is now displayed.
F-000296	Added the ability to view the effectivities set on the BOM structure in the multilevel "BOM Structure" tab. In addition to the "Effectivity" column, RMB->View Effectivities will display a list of all effectivities that are set on the selected BOM row.
F-000306	Reduced the generation of baseline data for metadata.

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Product Engineering

Issue #	Description
013551, 014208, 054008, 054009, 061683	The Part BOM structure reports have been updated to use Tree Grid View.
023329, 046403, 050348	Corrected an issue which could cause the Related Parts tab in Manufacturer Part or the Manufacturer Parts tab to show as blank.
034699	Update task text of Express ECO workflow to account for the expansion of the affected item types.
069688	Improved default Product Engineering reports to use Query Definition.
045218	Express ECO Impact matrix improved to allow multi-select in grid.
048751	When running the PE_AddItemsToChange action on two parts in a BOM, the dialog to select the Change Management document is now correctly displayed only once
049141	An issue was resolved in which an Express ECO was unable to be printed.
051758	The CAD ItemType has been updated reference .SCS files from FileRepresentation rather than HWF files.
052140	Fixed error that could prevent adding affected BOMs into the Impact Matrix.
052967	Updated code to allow better display of a large number of parts in a Multi-level BOM in IE.
053625	Addressed issue in which a multilevel BOM reported incorrect quantities.
055580	EDRs tab becomes the first one if ECO Item is in a Work state.
055805	Fixed client issue that could prevent the creation of a new revision by the button on the Document Form.
062171	Introduced the ability to select multiple affected Items when adding Items to the Impact Matrix.

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3.13.3 Known Issues in Aras Innovator 12.0

Issue #	Description	Workaround
006830	Cannot change a text property from “not required” to “required.”	A workaround has been provided in the Aras Innovator on-line help.
007281	Vault server cannot resolve host name.	The vault URL computed by Aras Innovator can fail to calculate when based on DNS settings. If you encounter a problem, please contact Aras support.
011985	On-line help is incomplete.	Not all new features in Aras Innovator have been documented in the on-line help section of Aras Innovator. Please contact Aras support if you are having difficulty with a new feature.
021945	Baseline versioning on Part BOM is not compatible with the Impact Matrix.	
021946	Baseline versioning on Part BOM is not compatible with a multi-level BOM structure relationship.	
023511	The OnBlur and OnFocus events are not fired for properties of type Boolean when using Firefox on the client. This applies for all radio boxes and checkboxes.	
023879	The functionality outlined in the Aras Innovator – Login Security document is not certified for use with Aras Innovator.	
024441	Remote/Client servers are not certified for use with Aras Innovator.	
024442	Integrated Web Services are not certified for use with Aras Innovator. Aras Innovator is still compatible with Web Services. Only the integrated UI for creating and managing web services is not certified.	
033559	The standard integration with Microsoft SharePoint is not certified for use with Aras Innovator.	

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Issue #	Description	Workaround
038295	Self-Service Reports created in Aras Innovator 11.0 SP3 will not execute after upgrade.	Existing reports will cause a warning when trying to access the reports. Subscribers can contact Aras support (support@aras.com) for a review of the virtual machine configuration.
040677	HWF files can fail to show in Visual Collaboration on some virtual machine setups in Firefox.	Use alternate browser or contact Aras support (support@aras.com) for a review of the virtual machine configuration.
041312	TIFF and BMP file types are supported by the new Advanced Image Viewer, but the File Selectors for standard Aras Innovator ItemTypes like Document and CAD Document do not include these file types in this release.	The FileSelectors must be updated manually in order to view TIFF and BMP formats.
043668	The Content modeling framework can fail to show the editor in Chrome browser.	Use Internet Explorer or Firefox browser.
046252	An error that occurs when loading a Reporting Services report in Tabs viewing mode could load error text over the main toolbar.	Close the report and reload the main grid.
048590	Tree Grid View does not support the display of all Property Item data types.	
052434	When using the Edge browser, positioning of Fields of type Item or Dropbox on a Form cannot be changed by click and drag in the Form editor.	Designers can either use an alternate browser when editing Forms or key in the x and y positioning of the fields.
052611	Foreign Properties that have a reference to a Property of type Item with a data source of File will not render the “Manage File” icon on the Form field.	
052666	Users must type a space character after any @mention reference in collaboration messages or else further @mention references in the same message may be ignored.	

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Issue #	Description	Workaround
052753	Color List properties can fail to display color on client machines running the MAC OS and using the Chrome browser.	Use Firefox browser.
052912	When a File has several File Representations available only the first representation file returned is available to the user in Viewer.	
052958	Icons in the table of contents can fail to display. The root cause is the use of an SVG file in the ItemType definition that is not compatible with the size constraints of the TOC images.	The SVG file must be identified and altered to be compatible for rendering.
053303	When a Query definition is configured to reuse a root Query Item in both a Parent and a Child Query Item, the result is endless recursion when executing the Query Action.	
053368	Icons are not visible for selecting for ItemType (Edge Only).	
053864	Unexpected search results can occur if Boolean or Color data types are used with invalid conditions in the Query Builder.	
054489	Inconsistent display of “related options” dropdown in the relationship grid.	
054514	Action.can_execute is not called on UpdateTearOff State.	
054883	Session Timeout while in the relationship grid may cause errors and require a new login.	Close browser window and login again.
055070	ItemTypes that have more than 23 characters cannot be added to an xClassification tree.	Use a name that is less than 23 characters.

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Issue #	Description	Workaround
055109	System.DateTime.UtcNow is inconsistently matched to SQL.GETUTCDATE.	Use the .net System/DateTime.utcNow (not SQL GETUTCDATE()) in custom code solutions.
055174	“is defined”/”is not defined” conditions are not supported in Query Builder for xProperties.	
055587	Freeze pane not fully working in RTL languages. Grid layout can become corrupt when using freeze pane feature.	
056000	Upgrade from SP11 to SP12 requires a manual SQL script to be run.	Run the SQL script in conjunction with the Upgrade.
056080	OAuth is installed with default settings and no option to change if “complete install” is selected during installation.	After Aras Innovator installation, re-run the installer and choose to install only the OAuth server or manually change the OAuth configuration after installation.
056154	The Get Value Method currently cannot return a Null value. An incorrect data type error appears.	
056158	Creating a command bar section where the location is “TGV Toolbar” and the Classification = Method and Builder Method, results in the method not executing and an error message being displayed.	
056310	Users can lose information if they change the “Dynamic Content” Setting in the ItemInfo element of Technical Documents.	
056625	Exporting a TGV definition does not result in the export of custom CUI components that have been associated with the TGVD (or relationships associated with it).	The CUI components will need to be exported separately. The user will need to export Command Bar Item, Command Bar section, Presentation Configuration and ItemPresentationConfiguration items associated with the custom CUI components that have been added.

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Issue #	Description	Workaround
056725	Export to Word/Excel returns an error for a large number of Parts when using Edge.	Use an alternate browser.
056836	CSS is not applied to Item properties in the main grid.	
057648	Incorrect access controls based on Boolean properties/xProperties where value = NULL. NULL values are incorrectly treated as 0.	Do not use logic for NULL in the Boolean properties of access controls. Use a defined Boolean value or 1/0. The target value should have a default of 0.
057701	Cannot create an xProperty for Type item with a datasource file.	
057724	It is possible to rename an xProperty being used in an active MAC policy. An undescriptive error message is displayed.	
057911	The incorrect password warning may display an incorrect message if using a login name in a non-Latin character/language set.	Usernames should use alphanumeric characters.
058103	If a secure message containing a video is added using Nash without a <comment> tag, the message does not appear in the Discussion panel. Previously created secure messages will disappear and a script error will occur.	If using Nash to add a secure message with a video, it must include a <comment></comment> tag set with a non-null value.
058445	If the OnGet event is overridden for an ItemType referred to by a Query Item that also uses the Count() condition, then the execution of the OnGetEventArgs.BaseGetItem() method within the custom 'OnGet' method returns all the items associated with the ItemType from the database regardless of the Root Query Item restrictions.	
059002	Adding files through File Handling returns an error.	

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Issue #	Description	Workaround
059094	Using the same xProperties in different xClasses within an xClassification tree results in an error message. The Item associated with the xClassification tree cannot be saved.	
059181	A new Tree Grid View Definition (TGVD) containing a mapped element cannot currently be saved.	
059451	When using Edge, closing a document in the PDF viewer after moving the Basic Toolbar and opening the view mod dropdown may cause an error.	
059692	xClassification Trees cannot be updated after renaming the polysource ItemType associated with the xClassification Tree. This problem can be related to other implicit polysource ItemTypes in Aras Innovator. The user sees the standard error message, but because the error occurs in the database layer due to inconsistencies in the data, it contains low level information about the SQL exception. At the same time, the secured function is too large to fit into the error dialog box.	Trigger the update of the xPropertyContainerItems ItemType by locking it and then clicking Save, Unlock and Close. The server rebuilds the SQL view, taking into account the new polysource names.
059772	Multi-language translations are missing from Effectivity Services.	
060246	Focus is lost from the Reply button if the cursor is moved to the middle of the Reply button and the snapshot checkbox is selected.	
060454	If the WebDAVModule is installed on the server, it throws a 405 error when running a DELETE action on an item.	

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Issue #	Description	Workaround
060477	Extended Classification functionality is broken after importing autogenerated relationships using the Import tool.	Create the export package without the auto-generated relationship type. Add the following to the package definition: All used ItemTypes except (*_xClass) Relationship ItemTypes. • All used Standard and xProperty Permissions. • All used xProperty Definitions. • All used xClassification Trees. • All used items of used ItemTypes. Export the created package definition: 1. Select the desired package. 2. Select the Don't Remove checkbox for references to Unknown Packages. 3. Export selected Import package definition that was exported. 4. Select the exported package, 5. Import the selected package (if DB is clear, use the Import tool default settings).
060494	Pressing F2 while in the classification cell of a search dialog displays a blank response window and a JavaScript error.	
060621	Tabular View is missing in the TOC section "Administration" -> "Content Modeling." The Export Tool does not support Polymorphic types.	Select Administration -> ItemTypes. Search for cmf_TabularView and select the TOC Access tab. Add the appropriate identity. Search for the related view (cft_ERP_TableView) in the TOC. Select Tools -> Admin -> Add to Package Definition.
061526	The Effectivity Expression Editor is case-sensitive to Boolean Expression nodes.	Use expected upper or lower-case text for expression nodes.
061681	Editing comments is only supported in the default template SecureMessageViewTemplate. If this template is modified, editing comments results in an error message.	Use the default SecureMessageViewTemplate for editing comments.

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Issue #	Description	Workaround
062216	Enterprise Search queries that use wildcard characters (“?”, “*”) can fail to return search results. For example, searching for “Planning” or “Plan” returns results. Using the wildcard query “lanning” does not return any results.	
062451	In Chrome v67, the Tree View is not displayed in the Editor for a Quality Planning Item or for any document created from a Content Type.	Use an alternate browser or contact Aras Support (support@aras.com) for hotfix availability.
062575	History.created_on_tick is can be duplicated when changes occur within 10ms	
062877	An error may occur if saving an Item when a large number of xProperties exist (e.g. 2300)	
063022	view_restriction_type list is not yet available in gn_GraphViewDefinition ItemType.	
063170	Symbol • is displayed in empty cells to avoid collapsing of the cell in the technical documentation framework.	This is just cosmetic and will be removed when content is added to the Table cell.
063542	Logout without Saving' from Unsaved Items window doesn't work.	
063591	Domain Access Control permissions are not propagated if the Item defined in the Subdomain has no Life Cycle Map	
063702	The Aras Innovator Server allows setting is_current=0 for non-versionable item through AML.	Do not include is_current in applied AML.
063762	Browser window crashed when attempting to view an ItemType which has more than 500 properties in the main grid (Firefox only)	Use a different browser.
063814	Deadlocks on uploading Files attached to an item	

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Issue #	Description	Workaround
064108	The order of requests within a ChangeSet in OData is significant, but it should not be; a service should be able to process the requests within a ChangeSet in any order.	
064243	Reference to item is lost after applying@aras.action=purge in ChangeSet in OData.	
064402	The is_combined property is not yet available in the current NodeType usage in Graph Navigation.	
064540	Enterprise Search permission crawler doesn't support MAC/DAC features	
064686	If the user discards edits to the definition property on the Effectivity Expression form, the property value doesn't get refreshed in the UI with the value from the database.	Close the form and re-open it.
064829	User Login will succeed, but User will be unable to perform any actions if JavaScript method was assign to a server event by mistake	Method would have to be disabled by direct database edit.
065154	Component onChange event is fired constantly (Chrome) and may hang browser session.	Use a different browser.
065360	When an administrator is promoting multiple DAC Definition items concurrently, SQL deadlocks may be encountered, resulting in promotion failure.	Promote one DAC Definition at a time. It is necessary to wait until each promotion is complete before starting the next one.
065384	MBOM structure is not displayed correctly in Tree Grid View	
065445	Passwords with non-Latin characters are not supported	
065706	The file name used in the URL for a linked document is not correct - missing appended language identifier in the technical documentation framework	

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Issue #	Description	Workaround
065800	Active 'Pick Plane' is cloned after the selection of any 'CAD View' in the Model Browser 'Views' tab in Visual Collaboration	
069612	Icons disappear from toolbar and TOC if the user starts to log out but cancels the logout due to unsaved items.	Log out and log back in
069625	English values are shown for ML is_UI props on Japanese localized systems in Enterprise Search.	
069629	Enterprise Search crawlers cannot be directly from dashboard in Japanese localized system.	Go to Administration > Enterprise Search > Crawlers Click RMB on crawler and select needed option.
069664	When updating a Graph Visualization and a single NVD is specified in a GVD, it is applied to all nodes instead of only the ones that are defined by the query item.	
069791	Timeout in HttpServerConnection has no effect. (Server) Timeout is always set to "infinite".	
070139	Newline characters are being added in the middle of text content that is cut and pasted from a Word Document in the technical documentation framework.	
071948	In simple Query definition, when the join condition of a sub-part are changed, the structure is incorrectly cropped.	
071952	Browser may crash during execution of a large Query structure with based on the number of parameters	
072008	Windows authentication may display a 'You are disconnected' error if server MemoryCache removes HttpServerConnection from cache.	

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Issue #	Description	Workaround
072298	If Enterprise Search has been configured to use the Super User account, the Settings Preference Form for Enterprise Search will not be available.	Configure Enterprise Search as an admin user other than the Super User.
072362	After a derived relationship is added in DAC, users other than “Super User” will not be able to create a new Language item.	Add language Items before creating a Derived Relationship or, if the Derived relationship has already been created, add a language Item using the root (not admin) user account.
072506	When uninstalling Aras Innovator, the system can indicate that a file cannot be deleted because another program is still using it.	In IIS, cycle the OAuth App pool (stop the service and then restart it). Once this process is complete, the uninstall will complete successfully without any further error messages.
072692	Columns cannot be sorted manually in Tree Grid View (TGV).	Refer to the “Product Engineering (PE) Enhancements” section for the list of tabs using TGV.
073086	Minimize executing of smoke tests on behalf of admin	
073231	Workflow process has resulted in SQL Deadlocks, if <200 Workflow Related Items	
075507	Some PDF files trigger errors on client and server sides	
075847	It is possible to create a null member that results in corrupted data.	
076993	Text is displayed outside of the error message window in some long exception errors.	
077131	Add to Package Definition is enable when item's form is opened	

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Issue #	Description	Workaround
077140	Actions and Reports Item Types with Target=Main and Type=Generic can be available from the user menu without opening the Search or Item Grid. Reports: data may not be properly saved if there are any unsaved items and the user runs a Report with no other Search or Items currently open. Actions: although the message "Changes you made may not be saved." is displayed, it may not be clear which tab the message is referring to.	Save the Actions or Reports Item Types before closing the tab.
077226	An error is displayed in the Item's tab when trying to unclaim the Item by using Ctrl+L	
077229	Cannot rename non-leaf node in classification	
077287	Item cannot be saved if it has tab with a configurable grid that uses the Item/File property cell.	
077333	In IE, when using Query Builder, the Context ItemType list is displayed under the Description field.	Use a browser other than IE.
077386	Form elements overlap each other in German localization	
077582	Replace action for Command Bar Items doesn't work	
077632	Preferred vendors are not included in the Approved Vendors report.	
077659	When creating a new generation of a Part that has a list of Manufacturer Parts, the AML tab under that new Part generation shows all AML states as “Preliminary.”	
077953	UPDATE statement may result in a conflict with the FOREIGN KEY constraint	

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Issue #	Description	Workaround
078074, 078237, 078238	In Visual Collaboration, sharing a Forum may fail and a Forum which is shared for public stays private.	
078100	Method isn't executed if file and identity prop adding to item	
078110	Potential memory leak in part+xpxc	
078137	Cannot create an Item with 150 properties of type Item	
078230	The value of an xProperty is not displayed in the grid	Click on Refine Search and check the “Select All” checkbox. (When all values are selected, all values are displayed correctly.)
078373	Fields on report form overlap each other in Japanese	
078510	Conversion tasks may be discarded if the instance and agent service installed in different servers with different time zones.	
078535	It is not possible to save a source item if a related item is claimed	
078552	After running Search operation - Favorite Search is not selected as active	
078564	Internal Visual Collaboration Notifications are not sent on cluster server	
078583	Relationship doesn't work if exclusion used	
078628	Fields on property form overlap each other on German	
078629	In Visual Collaboration, the Calendar may not be visible in the Discussion panel for Searching	

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Issue #	Description	Workaround
078630	Fields in User Item Type overlap each other on German	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies	
078659	Instance error may occur when saving Item with attachment	
078694	User can delete saved search when a favorite search is shared to him	
059815, 059902	Type-ahead does not work in Simple Search in relationship grids or for search criteria of type Item or Class.	
063879, 064225	Domain Access Control permissions are only propagated to an Item when it is in a Life Cycle State that is part of the Item's ItemType Life Cycle Map when the DAC Definition was activated.	Deactivate and then re-activate the DAC Definition. The new Life Cycle Map will then be used for access calculations.
073144, 073145	An error may occur while installing the ES Agent when the Essential Subscription has already been activated and the ES Component has not been installed.	
I-001137, 078076	It is not currently possible to Add Saved Searches to Forums.	
I-003044	ItemType actions are not available without creating an item.	
I-003564	Aras Innovator is broken when Report/Action opens with target=main.	
I-005532	Action with Can Execute method that returns "False" or "NULL" are not shown as disabled for users from user menu	
I-005663	'Prev' button in xClassTree search doesn't change the searched point.	

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Issue #	Description	Workaround
077140	Reports with Target=Main are no longer supported	Change target to Window.

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