



Aras Innovator 19

Release Notes

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Send Us Your Comments

Aras Corporation welcomes your comments and suggestions on the quality and usefulness of this document. Your input is an important part of the information used for future revisions.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where and what level of detail?
- Are the examples correct? Do you need more examples?
- What features did you like most?

If you find any errors or have any other suggestions for improvement, indicate the document title, and the chapter, section, and page number (if available).

You can send comments to us in the following ways:

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Attention: Aras Technical Documentation

If you would like a reply, provide your name, email address, address, and telephone number.

If you have usage issues with the software, visit <https://www.aras.com/support/>

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 <code>courier</code> 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.
<i>Italics</i>	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 .

1 Upgrading from Previous Releases

Aras provides tools and services related to upgrading to the latest software release. These tools and services are provided to customers as a benefit of the Subscription. Customers should use the guidelines below to determine the path to upgrading to the latest release.

1.1 Upgrading to Aras Innovator 19

Customers may request upgrade services from Aras Support if they meet 3 criteria.

1. Customers must have an active Subscription for Upgrade Services
2. Customers must be in production with Aras Innovator
3. Customers must be running on a version of Aras Innovator released no more than 30 months ago

If these 3 criteria are met, the Subscriber may email support@aras.com to initiate an upgrade services project.

Note: Customers with an active Subscription running a version of Aras Innovator released more than 30 months ago should still contact Aras Support at support@aras.com to discuss the available options.

2 Key Enhancements

The Aras Innovator 19 Key Enhancements are outlined below:

2.1 Improved Export to Excel

The Export to Excel function is significantly improved, for search grids, relationship grids, tree grid views, and item forms. The exported .xlsx file is opened directly in Excel with no warning message, and column alignment and formatted is preserved.

2.2 Spell Checking for Technical Documents

The Technical Document Editor provides the ability to apply spell checking to text content. It leverages the spell-checking capability of the browser to scan and identify spelling errors in multiple languages.

2.3 PDF Publishing Enhancements

The Technical Document Framework now provides additional support for fonts, page layout, and broader support of CSS for formatting PDF output documents.

2.4 Additional options for ForwardedHeaders plugin

Additional options for ForwardedHeaders plugin are provided to simplify the setup of OAuthServer behind reverse proxy, which is required by load balancers, authentication proxies, etc.

2.5 Federated Properties

The Federated data type for property definitions has been removed and replaced with a new Federated Boolean attribute. All existing Federated properties have been converted to Text properties with the new Federated attribute set to true.

Federated properties can now be created with specific data types by setting the federated flag when adding a property to an item type. The use of typed federated properties will support enforcement of type specific behavior and validations. The following types are supported as typed federated properties: Text, Integer, Float, String, Decimal, Boolean, and Date.

CUSTOMER IMPACTS: All Properties that were defined as Federated will be converted to Text with the Federated Boolean attribute set accordingly during upgrade. Newly created typed federated properties will behave more consistently with non-federated properties.

3 Bug Fixes and Known Issues

3.1 Issues Fixed in Aras Innovator 19

3.1.1 Platform

Issue #	Fixed Description
F-001277	The Technical Document Editor provides the ability to apply spell checking to text content. It leverages the spell checking capability of the browser to scan and identify spelling errors in multiple languages
F-001716	Additional options for ForwardedHeaders plugin are provided to simplify the setup of OAuthServer behind reverse proxy, which is required by load balancers, authentication proxies, etc. These additional options are KnownNetworks, OriginalForHeaderName, OriginalHostHeaderName, OriginalProtoHeaderName, RequireHeaderSymmetry and AllowedHost.
F-003376 I-031405, I-034399, I-034400, I-034401, I-034402, I-034403, I-034404, I-035985, I-040582, I-040597, I-040608, I-040712, I-040714, I-040728, I-040876, I-041318, I-043379, 042875, 044545, 078522, 079119, 082498, 082783, 085651, 087686, 087558, 088232, 091586, 092162, 095907	The Export to Excel function is improved, for search grids, relationship grids, tree grid views, and item forms. The exported .xlsx file is opened directly in Excel with no warning message, and column alignment and formatted is preserved.

Issue #	Fixed Description
F-004413	The Technical Document Framework now provides additional support for fonts, page layout, and broader support of CSS for formatting PDF output documents
F-005013	The Federated attribute can be used on Decimal properties. This allows enforcing decimal behavior and validations on federated decimal properties.
F-005446	Internet Explorer 11 has reached its end of life. The IOM SDK structure has been changed to remove the use of Internet Explorer 11 for customers using the IOM.OAuth.WpfBrowserNavigator functionality. The IOM.OAuth.WpfBrowserNavigator.dll assemblies in ".NET" and "Std" folders has been removed which displayed the login dialog from a non-browser-based implementation, such as the CAD connector. A "Packages" folder has been created to contain the IOM.OAuth.WpfBrowserNavigator within nuget package for developing the same functionality uses Microsoft Edge WebView2. External applications using the IOM.OAuth.WpfBrowserNavigator should update to the latest IOM SDK.
I-025109	The Comparison Viewer will display both files in all browsers after selecting "Start Comparison" correcting a browser issue in which the second file was not being displayed.
I-041566	Addressed an issue in which the client could fail to update the relationship correctly when using the Discard command. This would only occur if the property was initially blank, and only for the Part ItemType. The Discard command is now correctly reflected in the displayed values.
I-040876, 085876	Corrected an issue where the aras.prompt dialog might truncate a strings at a space when entering a default value. The dialog now correctly accepts the full string.

3.2 Known Issues in Aras Innovator 19

3.2.1 Platform

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.
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.	
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.

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.
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.	
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.	

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, considering 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.	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 many 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.	

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.	
077386, 078373, 078628, 078630	Form elements and fields may overlap each other in German or Japanese 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).
078583	Relationship does not work if exclusion is used.	
078645	OAuthServer/AuthenticateService and other OAuth related functions do not proxy SMSESSION cookies.	
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.

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-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.
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-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-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.

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 result 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 may fail for unsaved changes 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-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.	

Issue #	Description	Workaround
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 get access after a change if the change is to be saved.
I-014055	Part save can fail with an "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.
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-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.

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-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-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.
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-030661	The text entries in the dropdown for the Claim column in search grids ("Claimed by me", etc.) are not localized.	

Issue #	Description	Workaround
I-031486	Search criteria are lost when switching from Simple to Advanced search mode if using numeric properties with wildcards.	
I-032724	xProperties values are not shown in Search results when using a saved custom grid layout if the Default layout (as set in preferences) does not include these xProperties.	Add the desired xProperties to the Default Layout.
I-034296	If an item form of a relationship item is opened from a relationship tab, it cannot be closed if pending changes exist in the relationship tab.	Exit and re-start Aras Innovator.
I-036082	User preferences, such as grid column width, are not saved if they were made for an item in edit mode, then the item is not saved, and after that the browser window is closed.	
I-038294	On a slow connection, if the focus is set at the Language field in the TOC Editor, the Language search grid is not loaded by clicking the button.	Re-open Language search grid one more time.
I-043097	Links within a Technical Document that use external URLs cannot be verified in the Link Dialog in the Editor via the Link Editor Dialog.	