

# aras INNOVATOR® VERSION 9.4.0 SP1

Aras Innovator 9.4.0 SP1 is a patch release. Its primary objective is to introduce client performance enhancements that Aras Engineering developed in response to Subscriber feedback. Its secondary objective is to fix a number of critical issues identified by Subscribers.

- **Enhancements in 9.4.0 SP1**

- Framework
  - Improved metadata caching mechanism for the Aras Innovator client
  - Introduced the ability to persist Forms between Aras Innovator client sessions
  - Improved the performance of loading grids across the WAN into Aras Innovator client.
- Tools and Utilities
  - Improved Aras CAD to PDF converter

- **Affected Versions**

Aras Innovator 9.4.0

- **Issues Fixed in 9.4.0 SP1**

#### Framework

| Required | Issue #                      | Description   |
|----------|------------------------------|---|
| Yes      | 015953                       | Eliminated redundant requests that can occur during login from a non-English locale.  |
| Yes      | 020034                       | Eliminated inconsistencies in search results when using Foreign Properties as criteria in the user interface.   |
| Yes      | 020302,<br>020389,<br>022233 | Improved performance of the getItemById function.   |
| Yes      | 020362,<br>019937            | Eliminated errors that can occur when Aras Innovator is opened in an existing Internet Explorer 9 process.  |
| Yes      | 020564,<br>020779            | Eliminated problems associated with launch of Autodesk Design Review viewer from the Aras Innovator client.   |
| Yes      | 020576                       | Eliminated problems with Web Service Configuration.   |
| Yes      | 020851                       | Improved the performance of loading the InBasket in high latency environments by reducing the number requests to the server during initial load.                                    |
| Yes      | 021083                       | Eliminated problems associated with launch of XVL viewer from the Aras Innovator client in Internet Explorer 9.   |
| Yes      | 021230,<br>021131            | Improved load time of the grids on the client in high latency scenarios by reducing the number of requests to the server  |
| Yes      | 021237                       | Improved the performance in high latency environments by forcing static resources to load from cache on the client.   |
| Yes      | 021441                       | Improved the performance of loading Item windows by enhancing the caching of metadata definitions for Forms and search grids in the client cache.                                   |
| Yes      | 021442,<br>022187            | Improved the OnBeforeAdd event to allow the programmatic setting of the Item's Classification to automatically trigger the setting of the corresponding class-based Life Cycle Map. |
| Yes      | 021498                       | Improved the performance of loading Forms with multiple Fields of type Item by eliminating several redundant requests for each Field  |
| Yes      | 021937,<br>020698            | Introduced new Form Rendering mechanism to improve performance of rendering large Forms with many Fields by persisting Forms between Aras Innovator client sessions.                |
| Yes      | 022202                       | Improved performance of recording History when Items are updated.   |

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|-----|--------|--|
| Yes | 022216 | Improved performance of Version Item and Copy Item actions. Individual Clone Relationship actions were merged into one SQL request that allowed SQL server to perform necessary optimizations. Performance gains are reflected in actions manipulating thousands of Items, e.g during the versioning of Affected Items associated with an Express ECO. |
| Yes | 022239 | Improved the execution of the OnSearchDialog event handler for properties of type Item with a PolyItem ItemType as a Data Source.  |
| Yes | 022519 | Eliminated redundant getItem calls on login. With tens of thousands of users in Aras Innovator database, processing of such requests was time consuming. Significantly improved login performance for installations with tens of thousands of users.   |
| Yes | 022731 | Eliminated IOM.HttpServerConnection.Login() failure in non-US time zone.   |
| Yes | 022850 | Eliminated redundant calls for vault information when a physical file was uploaded to the vault through IOM.Item.apply().  |
| Yes | 022891 | Improved performance of server side core code for Japanese_CI_AS, Korean_100_CI_AS database collation, and similar database collations. Performance gains are reflected in actions manipulating thousands of Items, e.g during the processing of Affected Items associated with an Express ECO.  |

#### Tools and Utilities

| Required | Issue # | Description  |
|----------|---------|--|
| Yes      | 023078  | Updated the Aras CAD to PDF converter. Converter now requires a 64-bit Operating system. |