TRIRIGA System Performance Review and Health Check

Most TRIRIGA Application implementations are well maintained when it comes to Platform release levels. Clients that are running application versions as old as version 8.4 or 9.5 have maintained their platform version in to the 3.x range. Also, through implementation projects and various configuration efforts, the TRIRIGA application will contain 'configured' objects. These two issues are well understood by the organization that maintains the system. However, there are multiple issues related to these items that can affect the performance, health, and upgradability of the TRIRIGA system.

System Performance:

Over the number of platform releases since version 2.6 performance-oriented advances have been introduced into the TRIRIGA workflow engine. Some of the enhancements to the workflow engine are new default settings for recalculating extended formulas, the ability to pass variables between workflows, and the ability to have a truly temporary object with "In Memory Only" objects. Only workflows that were created after the enhancements were introduced will contain them as existing application workflows were not refactored in order to take advantage of the new functionality. Because of this, there are a number of workflows in the system where the performance of the workflow is less than what the supporting platform allows. Even if the application has been upgraded, it is possible that the older workflow may still exist if it was configured.

The EDI System Performance Review focuses on specific areas where user response time or system performance have become a priority.

Utilizing tools EDI has developed as well as admin console features, a deep analysis of workflow performance is conducted and a set of recommendations is produced. The result may be a recommendation to redesign the workflow(s) or exclude them from being the problem.

Health Check:

A health check consists of checking a system for a variety of potential misconfigurations. The range of issues vary from minor in that there is no adverse impact on the system except for generating more noise in the server log, to data loss.

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Business Objects (BO)

1. Identify Classification fields that don't have the association string set
2. Identify potential data loss issues by identifying fields that are used as a source field in a mapping that have a field size greater than the target field size
3. Identify BO State Transitions with invalid status or previous status values
4. Identify BO State Transition Sub Actions that call a deleted workflow
5. Identify Extended Formula Fields that point to a query that does not exist
6. Identify Regular Formula Fields with formulas that are not set or point to fields that do not exist
7. Identify BOs that have been customized checking eight different criteria

Forms

1. Identify Forms that have been customized by checking 18 different criteria
2. Identify Form Field Actions and Form Section Actions that call a deleted workflow

Queries

1. Identify Queries with user filter fields that are set to fields not on the display list resulting in errors in the server log
2. Identify Queries with invalid GUI_ID's
3. Identify Queries that are custom or customized based on naming convention

Workflows

1. Identify Classification fields that don't have the association string set
2. Identify potential data loss issues by identifying fields that are used as a source field in a mapping that have a field size greater than the target field size
3. Identify BO State Transitions with invalid status or previous status values
4. Identify BO State Transition Sub Actions that call a deleted workflow
5. Identify Extended Formula Fields that point to a query that does not exist

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