
Wizard Performance 2.18

FIRELIGHT BASE

FireLight®

Platform

WIZARD PERFORMANCE 2.18

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Table of Contents

iConnect 227702 Design Approach - Wizard Performance 2.18.....	4
1 Wiz Performance: Explore caching rules and forms definitions	4
2 Wiz Performance: Improve field update speed in wizards	5

iConnect 227702 Design Approach - Wizard

Performance 2.18

Project Overview

Enhancement to research and improve the performance of wizards. This includes opening and loading a wizard, editing fields in wizards, and saving wizards. This will be a multi-release approach with several changes being introduced in April 2.17 and continuing into August 2.18.

- Explore caching rules and forms definition.
- Improve field update speed in wizards.

Impacts:

- Opening a new wizard activity.
- Open new wizards and forms activity.
- Updating wizard fields.
- Saving new wizard activity.
- Saving wizard and forms activity

1 Wiz Performance: Explore caching rules and forms definitions

Explore caching rule, wizard, and form definitions. These can be large and storing in the cache manager and loading from there if found could reduce time querying and deserializing from the database.

However, we cannot affect a common test scenario of changing a rule, wizard, or form, then reloading the application and immediately see the changes. We cannot remove the cache item when something is updated because there are multiple presentation servers, each with its own cache. Investigate whether querying for the timestamp to invalidate from the cache would continue to justify caching. The query should be done in bulk, not using a separate query for each rule set/wizard/form.

Also, cache the results of GetOrganizationAssembly to minimize DB lookups and instantiation of the provider class.

Acceptance Criteria

- Reduce time to create or load activities.
- Caching will only reduce load times in cases where the data has already been cached. Items are removed from the cache after 20 minutes and will be reloaded from the database when not in the cache.

2 Wiz Performance: Improve field update speed in wizards

Updating fields in wizards takes several seconds.

Acceptance Criteria

- Reduce time to move from field to field in wizards.