Redmine - Defect #36801

Rails Autoload Paths contain plugin libs twice

2022-03-18 21:44 - Stephan Wenzel

Status:	New		**Start date:**	
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:	Plugin API		**Estimated time:**	0.00 hour
Target version:				
Resolution:			**Affected version:**	4.2.4

Description

Due to the way plugins are loaded by Redmine the variable

```
ActiveSupport::Dependencies.autoload_paths
```

contains the path to the 'lib' directory of each plugin **twice**, which should not happen.

When Redmine loads the plugins from config/initializers/30-redmine.rb it calls

```
Redmine::Plugin.load
```

Redmine::Plugin.load (defined in lib/redmine/plugin.rb) adds the 'lib' directory of each plugin to

```
ActiveSupport::Dependencies.autoload_paths
```

and to

```
$LOAD_PATH #alias $:
```

When each plugin calls

```
Redmine::Plugin.register
```

from init.rb (which they ought to do), then in Redmine::Plugin.register all Rails paths in the plugin directory are created by calling

```
engine_cfg.paths
```

implicitly by calling

```
engine_cfg.paths.add 'lib', eager_load: true
```

Then in Redmine::Plugin.register the following call causes the second addition of the autoload_paths

```
ActiveSupport::Dependencies.autoload_paths +=
        engine_cfg.eager_load_paths + engine_cfg.autoload_once_paths + engine_cfg.autoload_paths
```

In some environments this may cause trouble.

History

#1 - 2022-03-18 21:46 - Stephan Wenzel

A fix could be adding

```
ActiveSupport::Dependencies.autoload_paths.uniq
```

as the last line in @Redmine::Plugin.load

#2 - 2022-03-18 22:25 - Marius BĂLTEANU

Can you test on current trunk where we switched the autoloading from classic to zeitwerk ([#29914](#))?