



i-net
Clear Reports
2016

Migration Guide

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1 Migration to version 15

1.1 Content

The following chapters describes the various things to know when migrating from version 14.x of i-net Clear Reports to version 15.x. If you migrate from older versions of i-net Clear Reports then you should also read the other migration information depending on the version that you migrate from.

1.2 WebServer plugin

The i-net Clear Reports web server was moved into a plug-in. Since plug-ins will be initialized automatically, the web server will start automatically, for example if the API was used. You need to remove the webserver plug-in if you embed i-net Clear Reports instead of using it as report server.

1.3 64bit Java VM embedded on Windows

The setup and report server on Windows use a 64bit Java VM to install and use i-net Clear Reports. As the 32 bit and 64 bit preferences on Windows are stored on different locations it may be necessary to export the configuration using the older i-net Clear Reports version and import it using version 15.

1.4 Plugins

In the configuration manager dialog "Plugins" it is now possible to activate/deactivate plugins to extend or restrict the functionality of i-net Clear Reports. Some plugins are deactivated by default, e.g. Statistics and Scheduler.

2 Migration to version 14

2.1 Content

The following chapters describes the various things to know when migrating from version 13.x of i-net Clear Reports to version 14.x. If you migrate from older versions of i-net Clear Reports then you should also read the migration information depending on the version that you migrate from.

2.2 i-net Clear Reports consists of plugins

With version 14 we are adding the concept of plugins to i-net Clear Reports. This removes a large amount of libraries from the installation and adds a single zip file per feature. This makes it much easier to say which library is required for a specific feature, this also avoids `ClassNotFoundException`s which could occur when removing libraries for features you didn't need.

2.2.1 Loading

Every plugin is a single zip file. All plugins are located in a folder named "plugins". On server start this directory is scanned and a plugin dependency hierarchy is created. All plugins with unresolved dependencies will be disabled. Now the start classes of all valid plugins are instantiated and the extensions for the core or other plugins are registered. The last step is the initialization of all valid plugins. To check which plugins were successfully loaded, activate the logging of i-net Clear Reports and set the log level to at least INFO.

2.2.2 Architecture

A plugin is a zip file. It contains at least the files "plugin.properties" and "server.jar". The plugin.properties defines the start class which implements the interface `com.inet.plugin.ServerPlugin`. Further properties of the plugin are defined by annotations of the start class. These annotations cover the id of the

plugin, its dependencies and the plugin version. For further details refer to the Server Programming Guide.

2.3 Scheduler - Custom Actions / Dynamic Properties

If you are using a custom scheduler action and/or dynamic properties, it is necessary to write a plugin for this action and/or dynamic property class. Registering custom actions or dynamic properties to the scheduler does no longer work by adding a jar-file to the lib path. For more information please refer to the samples in the i-net Clear Reports installation directory.

2.4 API Changes

- The following constructors of the class **com.inet.report.Listener** have been **removed**:
 - Listener(int port, boolean throwException)
 - Listener(boolean standalone, int port, boolean throwException)
- The other constructors of class **com.inet.report.Listener** are new throwing an IOException in case of IO error.

- The following interfaces and classes were **moved** from package **com.inet.report.config** to **com.inet.config**:
 - Configuration
 - ConfigurationChangeListener
 - ConfigurationChangeEvent
 - ConfigurationManager

- The following interfaces and classes were **added**:
 - com.inet.authentication
 - UsersAndGroupsProvider
 - com.inet.problemfinder.rules
 - ProblemFinderRule
 - AbstractRuleElement
 - AbstractRuleField
 - AbstractRulePropertyFormula
 - AbstractRuleSection
 - com.inet.plugin
 - ServerPlugin
 - ServerPluginManager

- com.inet.report
 - ListenerSettings
- Removed deprecated API:
 - com.inet.report.ReportProperties
 - getLabelFormat()
 - setLabelFormat(String s)
 - com.inet.report.ValueProperties
 - getBooleanFormatTypeFormula()
 - com.inet.report.AbstractValueElement
 - getBooleanFormatTypeFormula()
 - com.inet.report.chart.plot.BarPlot
 - DEFAULT_BAR_MARGIN_PERCENT
 - getBarMarginPercent()
 - setBarMarginPercent(double barMarginPercent)

2.5 Email settings

The email settings in the configuration moved from the category "Scheduler" into the new category "Email Settings" because they are used by "Error Notifications" as well.

2.6 Support Email Address

It is now possible to display a link with a support email address in the error dialog of HTML and Java report viewer. You can configure it in the configuration manager category "Email settings". The default value is "clearreports@inetsoftware.de".

2.7 Error notifications

It is now possible to send an email notification in case of an error. In the new plugin "Error Notifications" you can set an email address to which all error notifications will be send.

3 Migration to version 13

3.1 Content

The following chapters describes the various things to know when migrating from version 12.x of i-net Clear Reports to version 13.x. If you migrating from older versions of i-net Clear Reports then you should also read the other migration information depending on the version from that you migrate.

3.2 Java 7 required

The i-net Designer and the i-net Clear Reports server now requires Java 7 as minimum version of the Java virtual machine. The i-net Clear Reports viewer requires Java 5.

3.3 Fixed point numbers instead of floating point numbers

Formulas and summaries now use fixed point numbers instead of floating point numbers. This reduce rounding problems. If there are problems then you could set the configuration property "Compatibility Level" to version "12.x" in the configuration manager category "Behavior".

3.4 Default report viewer: HTML

The HTML report viewer has replaced the Java report viewer as the default viewer. In the configuration manager category "Behavior" it is possible to set the default viewer.

3.5 Query files are deprecated

Crystal Reports query files are deprecated. The API for query files has been deprecated. The support will stop in version 16. We recommend to use a command in the report instead of a query file.

4 Migration to version 12

4.1 Content

The following chapters describes the various things to know when migrating from version 11.x of i-net Clear Reports to version 12.x of i-net Clear Reports. If you migrating from older versions of i-net Clear Reports then you should read the other migration information depending on the version from that you migrate.

4.2 Image URL in HTML export

The URL of the images in exported HTML files has been changed.

4.3 Scheduler redesigned

The web GUI of the i-net Clear Reports scheduler has been replaced by a new Remote Interface module.

4.3.1 URL parameter "init=scheduler"

The URL parameter "init=scheduler" has been removed. You can access the new scheduler module in the Remote Interface or using the URL:

```
http://<servername>:<port>/[<servlet-context>]/remote/scheduler
```

4.3.2 Configured Tasks saved in preferences

In previous versions the file scheduler.xml was used to store the configured task. With version 12 the tasks are stored in the Java preferences, like the i-net Clear Reports configurations.

4.3.3 One Action per Task

With version 12 only one action per task is supported. During import of the task

of the scheduler.xml, multiple tasks created for a task with multiple actions.

4.3.4 Cache Action removed

The cache action is no more supported in the scheduler of version 12. Instead of this action you should use a file action to save the executed report as file and then request this file from the server.

4.4 Remote Configuration Manager redesigned

The Configuration Manager module in the Remote Interface has been redesigned. We have added some new categories and restructured the properties partially. To get more help, please click on the help link in a configuration manager category.

The remote configuration manager is now the default configuration manager. The configuration manager Java application has been removed. With the new recovery and standalone configuration tool it is possible to repair configurations. This tool is available in the installation directory.

4.5 Embedded fonts independent from property "Use Native Fonts"

If a "Font Path" is configured then the used fonts are embedded. This occurs regardless of the value of the property "Use Native Fonts".