

Environments

 This page has been migrated to github wiki: <https://github.com/anotheria/configureme/wiki/Environments>

ConfigureMe Environments

Definitions

Environments is the feature of the ConfigureMe, that gives possibility to predefine properties values for the different using situations.

Situations (actually, anything that have a common criteria) mean something like:

- Different servers
- Different users
- Different countries
- Different groups of users
- ...

Environments support any level **cascading**. The main cascading principles are:

1. Property value from the lower level overrides property (same) value from the higher level.
2. If requested environment not exists, values will be taken from the higher level environment (root is the default environment).

Example

This example covers all variants of environments using.

envexample.json

```
{
  user: "defuser",
  mail: "defuser@anotheria.net",

  managers: {
    user: "managers",
    mail: "managers@anotheria.net",
  },

  developers: {
    mail: "devs@anotheria.net",

    tom: {
      user: "tom",
    },
    klark: {
      user: "klark",
      mail: "klark@anotheria.net",
    },
  },
}
```

The table below shows what values we will have on what requested environment (levels are delimits by underline ('_') symbol).

Requested Environment	User Property Value	Mail Property Value
<empty>	defuser	defuser@anotheria.net
unknownenv	defuser	defuser@anotheria.net
unknownenv_subenv	defuser	defuser@anotheria.net
managers	managers	managers@anotheria.net
managers_bob	managers	managers@anotheria.net

developers	defuser	devs@anotheria.net
developers_tom	tom	devs@anotheria.net
developers_klark	klark	klark@anotheria.net
developers_bob	defuser	devs@anotheria.net

Requesting environments

Set environment using system property

Configuration environment can be set on program running with the following command line parameter: " java -Dconfigureme.defaultEnvironment=<environment> ...".

Examples:

- java -Dconfigureme.defaultEnvironment=developers ...
- java -Dconfigureme.defaultEnvironment=developers_tom ...
- java -Dconfigureme.defaultEnvironment=developers_tom_office ...

Set environment dynamically

Configuration environment can be set inside of program using the next code:

EnvExampleConfig Dynamic Configuring

```
ConfigurationManager.INSTANCE.configure(EnvExampleConfig.getInstance(), "managers_tom");  
String user = EnvExampleConfig.getInstance().getUser(); // user = "tom"
```