# **Basic Terms**

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#### 1. Role

Roles are the connection between access control and CMS functionality. On the access control side, you assign Roles to users, IP address ranges and groups at certain URL spaces. On the CMS side, you define which Roles are needed to execute certain usecases and workflow transitions. If the client has a certain Role, this means he is allowed to do something.

Each Role has a unique name. Role names can be arbitrary strings. Examples are

- author
- reviewer
- admin

Another common approach and useful is to use verbs as role names:

- edit
  - review
- administrate

### 2. Identifiable

An *Identifiable* is a characteristic of the client that can be identified. Every *Identifiable* is *Accreditable*. Lenya currently supports the following *Identifiables*:

users

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- machines
- the world (this identifiable is assigned to every client that tries to access the system)

# 3. Identity

An *Identity* is the collection of all *Identifiables* that have access to the system in the current session. The *Identity* always contains the world and the machine that produced the request. If you logged in, the user is also contained in the *Identity*.

For instance, if you log in from the machine 192.168.0.16 as the user john, the *Identity* of the client contains

- the machine 192.168.0.16,
- the user john, and
- the world.

#### 4. Accreditable

An Accreditable can be accredited with Roles in Policies. Lenya currently supports the following Accreditables:

nsers

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- machines (accredition not implemented, use IP ranges instead)
- IP address ranges
- the world
- groups

# 5. Credential

A Credential assigns a set of Roles to an Accreditable, e.g.:

 news\_editors: editor, reviewer means "The group news\_editors has the Roles editor and reviewer."

# 6. Policy

A *Policy* defines a set of *Credentials* for a certain URL. It has the responsibility to return all *Roles* of an *Accreditable* at a certain URL.

If for instance the *Policy* for the URL /tv/news contains the *Credentials* 

- news\_editors: editor, reviewer
- john: admin
- 192.168.0.72: visitor

and user john belongs to the group news\_editors and has logged in from the machine 192.168.0.72, the *Policy* returns the *Roles* editor, reviewer, admin, visitor for the *Accreditable* john.

A *Policy* may not contain invalid *Accreditables*. E.g., if a user is deleted and another user with the same ID is created, he may not get the same privileges as the former one.