

Control System Studio Training

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Authentication, Authorization

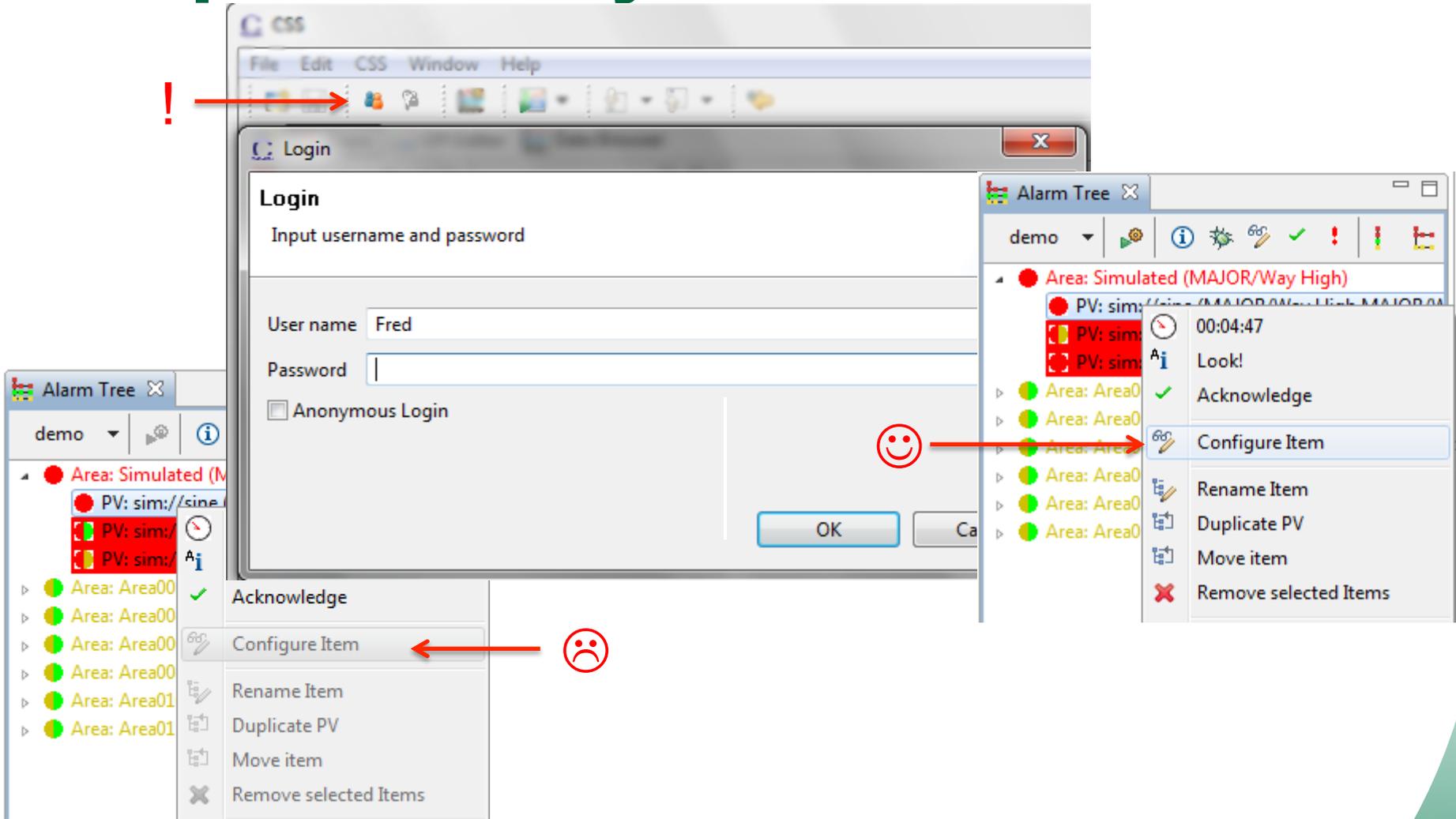
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Jan. 2013

Example: Alarm System



Only authorized users can change the configuration

Auth & Auth

- **Authentication:** Confirm a user's identity
 - Check password

- **Authorization:** Is user permitted to do something?
 - Requires authenticated user
 - Some database: User “Fred” may configure alarm

Auth & Auth in CSS

API:

org.csstudio.auth

Implementations:

- **Authentication**

- **org.csstudio.platform.jaasAuthentication**

- **Authorization**

- **org.csstudio.platform.IdapAuthorization**

- **org.csstudio.sns.dummyAuthorization**

- **org.csstudio.sns.IdapAuthorization**

Can't we just ignore this?

No.

**If you don't configure auth & auth,
nobody can do anything**

What follows is the simple “anybody can do anything” setup.

Dummy Authentication

- **Include plugins in CSS product:**

```
org.csstudio.platform.jaasAuthentication  
org.csstudio.platform.jaasAuthentication.ui
```

- **Configure like this in plugin_customization.ini of CSS product:**

```
# Select 'Dummy' JAAS Authentication  
org.csstudio.platform.jaasAuthentication/jaas_config_source=File  
org.csstudio.platform.jaasAuthentication/jaas_config_file_entry=Dummy
```

Now any user and password will work

- **Except user name “fail”, which can be used for tests**

Dummy Authorization

- **Include plugin in CSS product:**
`org.csstudio.sns.dummyAuthorization`

Now any user and password will work

- **Still needs to log on, though, but any user name and password will be accepted**

For Operational Setups

- **Authentication**

 - org.csstudio.platform.jaasAuthentication**

 - Kerberos, LDAP**

- **Authorization**

 - org.csstudio.platform.IdapAuthorization**

 - org.csstudio.sns.IdapAuthorization**

 - Similar, different LDAP schemata**