Lab 2.4: Customisation and Localisation

Purpose	Requirements
The purpose of this module is to demonstrate customisation of the user interface and support for localisation.	This lab requires you have access to SSO and CustomerID administrative interfaces.

Overview

Ubisecure Identity Server is designed with customisation in mind. The customer decides the branding and customisation requirements, and usually a system integrator is in charge of the customisation and localisation project. The main components that can be customised are:

- Colours and Logos
- Internationalisation and localisation
- Terms and Conditions

The expected outcome of this lab is multi-language support with customised logos and colours.

SSO customisation

- In practice, customising Ubisecure SSO is reflected in the login screens of the customer application
- UI customisation is mainly based on the web agent (application)
- Language selections can be made by the user if multiple languages are enabled for the application in question
- Both the visual and internationalisation customisation can be based on the web agent requesting the authentication
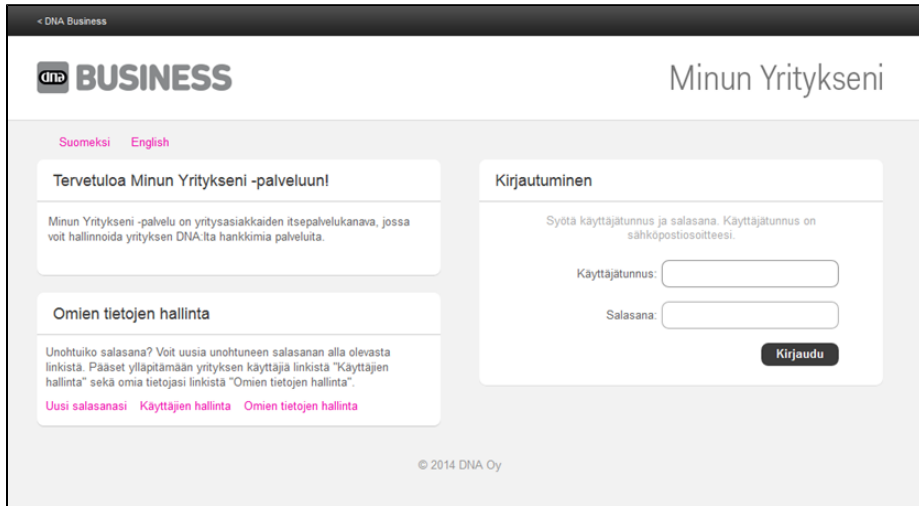
Page layout

The following image shows all the elements that can be customised in a SSO/CustomerID page:
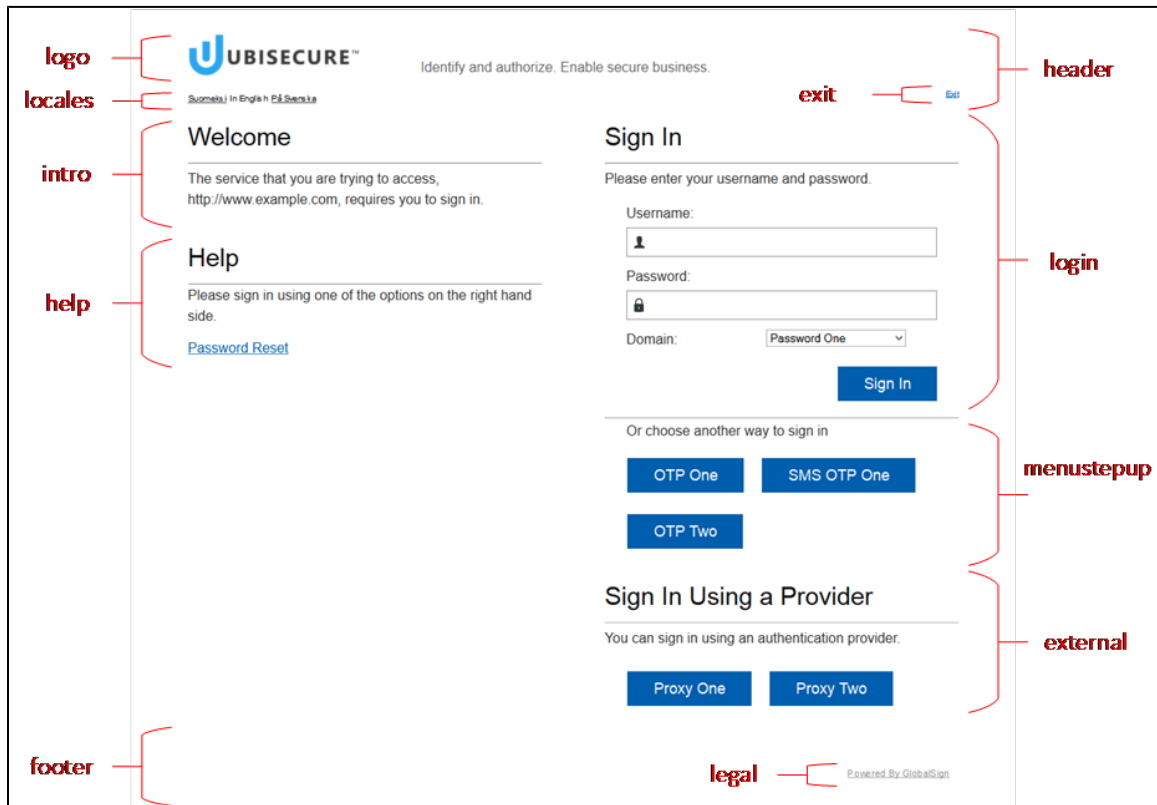
Example login screen

The following image is an example of a real user interface created by a Finnish customer, DNA. Observe and compare it with the previous image.

ⓘ **Homework**

For more information about the Template API, see Template API - SSO

Customisation and localisation in practice

Now we'll have several exercises in which you will customise the user interface of the installation on your own computers.

Part 1: Colours and Logos – Login Screens

See page Login user interface customization - SSO on Developer and Partner Portal.
The goal of this exercise is to create a custom template with own SmartPlan logo and colors.

Ubisecure's default login pages use blue color with **ASCII code #0c73ac**

Step 1: Adding a new template

1. Add new template reference to

C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\template.index

---

c:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\template.index

```
smartplan = templates/smartplan.properties
```

---

2. Create new UI Template
In C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\templates\ copy the file default.properties to smartplan.properties.
Add the following line to smartplan.properties

---

c:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\templates\smartplan.properties

```
logo.svg = /resource/smartplan.svg
```

---

3. Copy smartplan.svg to c:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\resources\. First you have to create subdirectory \resources

```
md "c:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\resources\"
copy C:\Users\Administrator\Desktop\Ubisecure\smartplan.svg "c:\Program Files\Ubisecure\ubilogin-
sso\ubilogin\custom\resources\"
```

4. Add the following line to C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\resource.index

custom/resource.index

```
smartplan.svg = resources/smartplan.svg
```

Step 2. Configuring templates to applications

1. Now add the new template to Smartplan application. This will assign all your modifications (saved as template "smartplan") to the SmartPlan application, which controls the login user interface. On SSO Management console, open: SmartPlan, Applications and SmartPlan Application. Write **s martplan** in the field "UI Template Names." Click "Update."
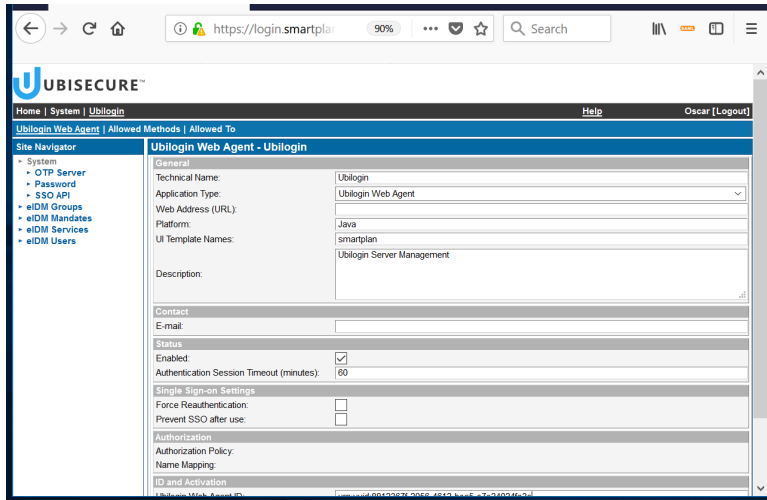
2. Also, add the template to the CustomerID Adminstration interface.

The CustomerID Administration application is located in the "eIDM Services" site, under Applications. It is called eidm2.

Before:

After:

Press Update.

3. Finally, restart UbiloginServer service. The changes can take a few minutes to take effect.

In the future, you can follow the same steps to add a template for any application.

Step 3. Verify the login screen changes

Go to SmartPlan application to verify the changes in the login screen:

http://localhost:8090/smartplanapplication/

Part 2: Colours and Logos – CustomerID User Interface

You will change default colours in CustomerID user interface by editing and making your desired changes on the CSS file C:\Program Files\Ubisecure\customerid\application\custom\style.css

Step 1: Change colours

1. Copy C:\Program Files\Ubisecure\customerid\tools\examples\custom\style.css to C:\Program Files\Ubisecure\customerid\application\custom\style.css

2. Open **style.css** with a file editor. Search for **#0c73ac** (default Ubisecure's blue) and replace all its occurrences with **#FF6600** (SmartPlan's orange).

3. Go to Customer ID user interface.

https://login.smartplan.com:7443/eidm2/wf/admin

The user interface will change from blue to orange elements:
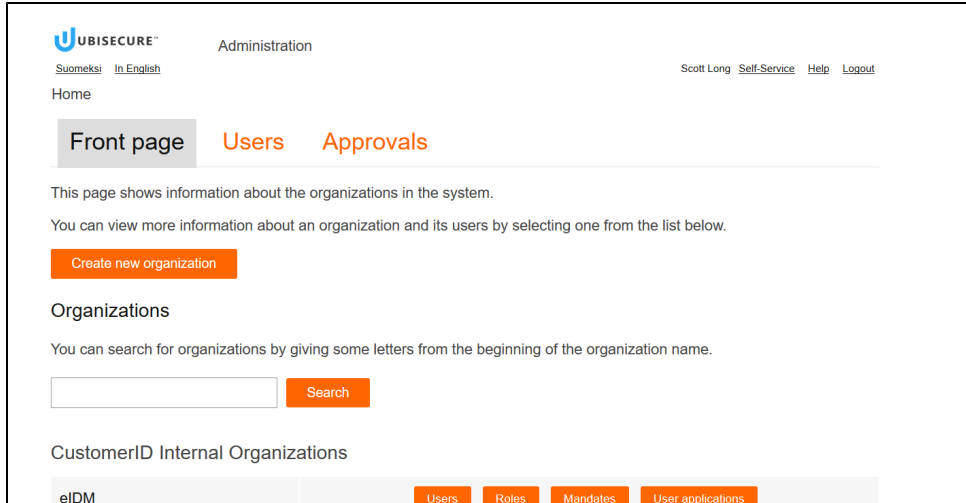
Step 2: Modify favicon

Modify CustomerID's favicon

Copy the new **favicon.ico** file from C:\Users\Administrator\Desktop\Ubisecure\ into C:\Program Files\Ubisecure\customerid\application\custom**favicon.ico**

Step 3: Modify logo

In order to modify CustomerID's default logo, you must use a PNG/JPG file. SVG is not a valid format.

Copy and rename the logo file from C:\Users\Administrator\Desktop\Ubisecure**smartplan.png** to C:\Program Files\Ubisecure\customerid\application\custom**logo.png**

Step 4: Verify the changes in the Customer ID user interface.

1. Restart the Wildfly service.

2. Reload the Customer ID user interface window. Note! You might have to clear the browser cache and restart the browser before modifications take effect.
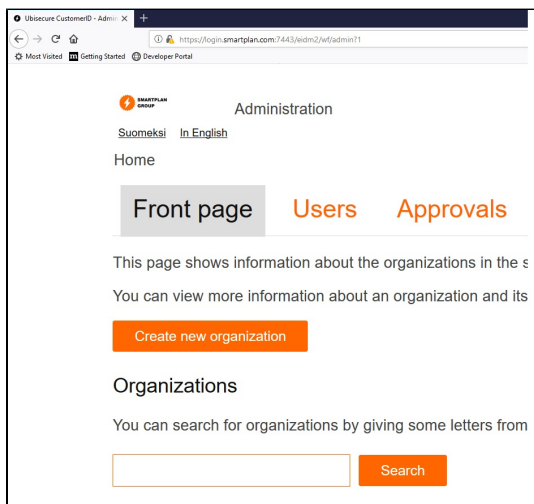
Part 3: Internationalisation and localisation

Login Screen

Login screen has the following customisation options:
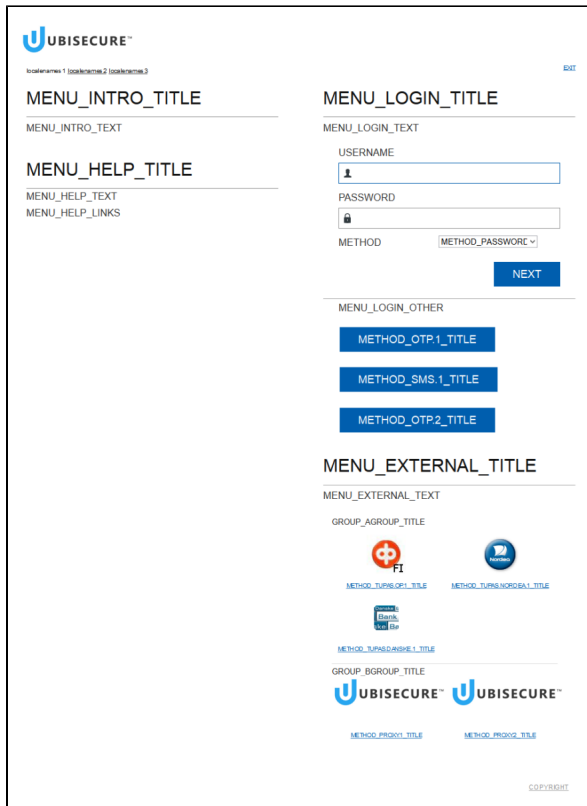
Step 1: Messages

You can customise the texts shown to users during the login phase as they are customisable message files. The `message.index` file holds an index of UI message files. Ubisecure SSO comes pre-configured with default (English) texts for all supplied authentication methods. To override the default *u as*, or *errors* messages, add an entry named *uas*, or *errors* to *message.index*.

1. Copy directory C:\Program Files\Ubisecure\ubilogin-sso\tomcat\webapps\uas\WEB-INF\template\messages\ to **C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom**
2. Add new references to C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\message.index as seen in the box below

   This is for Swedish:

custom\message.index

```
uas = messages/uas.properties
errors = messages/errors.properties
uas_sv = messages/uas_sv.properties
errors_sv = messages/errors_sv.properties
```

This is for Finnish/German:

custom\message.index

```
uas = messages/uas.properties
errors = messages/errors.properties
uas_fi = messages/uas_fi.properties
errors_fi = messages/errors_fi.properties
uas_de = messages/uas_de.properties
errors_de = messages/errors_de.properties
```

3. Create a new properties file **errors.properties** in **C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\messages** folder
4. Add a string in the user interface to make the error message a bit more friendly.

errors.properties

```
USER_NOT_FOUND = Hey :) We didn't find you. Would you try again?
```

Now try to log in with a nonexistent user name, and observe the message that appears in red letters.

5. Add new languages to templates for selection. You must edit **C:\Program Files\Ubisecure\ubilogin-sso\ubilogin\custom\templates\smartplan.properties** file. (For reference, full values of default.properties file are in Template files page)

If you wish to localise to Swedish:

smartplan.properties (To localise in Swedish)

```
defaultlocale = sv
locales = en, sv
localenames = in English, på svenska
```

If you wish to localise to Finnish instead:

smartplan.properties (To localise in Finnish)

```
defaultlocale = fi
locales = en, fi
localenames = in English, Suomeksi
```

If you wish to localise to German instead:

smartplan.properties (To localise in German)

```
defaultlocale = de
locales = en, de
localenames = in English, Deutsch
```

Go to the login screen of the My Smart Plan application to see the changes.

Note, if the Nordic letters don't display properly, change the encoding of the smartplan.properties file to ANSI in the text editor.

6. **Optional exercise:** Add a new language to a template

   Repeat the step 5 to add a new language.

ⓘ **Default options for uas.properties and errors.properties**

Full default options for default uas.properties and errors.properties are available in documentation

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Step 2: Workflows
You can also localise CustomerID user interface. The next settings affects to both Self-service and Administrator views.

1. Change the default language to either Finnish or Swedish. In order to do this, edit C:\Program Files\Ubisecure\customerid\application\custom\eidm2.properties

   If you wish to localise to Swedish:

custom\eidm2.properties
   | ```
default.locale = sv
locales = en, sv
localeName.en = in English
localeName.sv = på svenska
``` |

   If you wish to localise to Finnish:

custom\eidm2.properties
   | ```
default.locale = fi
locales = en, fi
localeName.en = in English
localeName.fi = Suomeksi
``` |

   If you wish to localise to German:

custom\eidm2.properties
   | ```
default.locale = de
locales = en, de
localeName.en = in English
localeName.de = Deutsch
``` |

2. Change the default texts in the "Front Page" that appears in CustomerID Administrative Interface. The steps are:
   a. Copy file C:\Program Files\Ubisecure\customerid\application\custom\messages_en.properties to file messages_de.properties (for German) in the same directory.
   b. Modify some texts in messages_de.properties (or messages_fi.properties or messages_sv.properties),
      for example in German: admin.frontpage.welcometext1 = SmartPlan Organisationen
      for example in Finnish: admin.frontpage.welcometext1 = SmartPlan järjestelmän organisaatiot
      or in Swedish: admin.frontpage.welcometext1 = SmartPlan organisationer
   c. Restart the Wildfly service.
   d. Go to the CustomerID front page to verify the change.

Step 3: Role and attributes

1. Localised role descriptions. Edit C:\Program Files\Ubisecure\customerid\application\custom\roles.properties

2. First observe the contents of the file. Then localise SmartPlan role descriptions by editing the custom roles.properties configuration.

   If you wish to localise to German:

   roles.properties

   ```
   de.friendlyName.mainuser = Kontakt
   de.friendlyName.user = Verantwortlicher
   ```

   If you wish to localise to Finnish:

   roles.properties

   ```
   fi.friendlyName.mainuser = Yhteyshenkilö
   fi.friendlyName.user = Edustaja
   ```

   If you wish to localise to Swedish:

   roles.properties

   ```
   sv.friendlyName.mainuser = Kontakt
   sv.friendlyName.user = Representativ
   ```

3. Localised attribute descriptions. By editing the custom messages_de.properties (or messages_fi.properties or messages_sv.properties) file add the line:

   If you wish to localise to German:

   messages_de.properties

   ```
   organization.crmid = Kundennummer
   ```

   If you wish to localise to Finnish:

   messages_fi.properties

   ```
   organization.crmid = CRM ID
   ```

   If you wish to localise to Swedish:

   messages_sv.properties

   ```
   organization.crmid = Kundnummer
   ```

   Restart the Wildfly service.

Step 4: Terms and Conditions

You can also edit the "Terms and Conditions" in several languages.

1. Create the file **terms_sv.html** (or terms_de.html in German or terms_fi.html in Finnish), which are the Terms and Conditions in Finnish or Swedish, on directory C:\Program Files\Ubisecure\customerid\application\custom This will be used in later exercise.

terms_de.html

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
    <body>
        SmartPlan terms in German
    </body>
</html>
```

terms_fi.html

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
    <body>
        SmartPlan terms in Finnish
    </body>
</html>
```

terms_sv.html

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
    <body>
        SmartPlan terms in Swedish
    </body>
</html>
```

Part 4: Discovery and Template APIs

Step 1: Discovery UI API

Enable third-party implementations of

- authentication method selection user interfaces
- dynamic handling of identity provider selection

Example

- Mobile application selection
- Java-script method selection implementation in SP application

Example:

- https://login.smartplan.com:8443/uas/template/smartplan/json?locale=fi

```
{
  "idp": "https://eidm.demo.ubisecure.com/uas",
  "sp": "urn:uuid:8512397f-8c81-38cb-b500-d1c9b657b1f5",
  "template": {
    "name": "ciddemo",
    "defaultLocale": "en",
    "locales": [
      "en",
      "fi",
      "sv",
      "ru",
      "ee"
    ],
    "localeNames": {
      "ee": "ee",
      "fi": "fi",
      "sv": "sv",
      "en": "en",
      "ru": "ru"
    }
  },
  "locale": "en",
  "settings": {
    "showlogin": true,
    "showmenustepup": false,
    "usemethodlogoimages": true,
    "usemethodtextlink": false,
    "usemethodgroups": false
  },
  "methods": {
    "password.2": {
      "title": "Password CustomerID",
      "type": "password"
    },
    "ubikey.sms.1": {
      "title": "SMS",
      "type": "stepup",
      "password": "password.2",
      "stepUp": "sms"
    },
```

Step 2: Template API

Template API allows for a consistent and safe reference method to elements required for providing custom user experiences

Examples

- Dynamically showing currently supported authentication methods within a third-party application

Benefits

- Reducing redirections
- Faster user experience
- Consistent API across future product releases

Examples:

To get the page logo in Finnish for the template named default:

- https://login.smartplan.com:8443/uas/template/smartplan/logo.svg

To get the logo in Finnish for the authentication method called sms.otp.1 (Obs: this call will not work in the current environment as we didn't configure method-image):

- https://login.smartplan.com:8443/uas/template/default/method-image/sms.otp.1?locale=fi