Enable Twofactor SMS authentication

Understanding two factor authentication

Two factor security will require authenticated user to

1. Provide a passcode sent to their cell phone
2. Login from one the office IP addresses ("Office IP")
3. Login from an IP that they have succesfully logged in from X times before ("Home IP")

The IP based requirements are optional, and HomeIP is a subset of the OfficeIP solution.

Note: This functionality is still considered BETA

Preparation

To enable 2 factor authentication for users you will need to prepare the following:

- List of IP's that should not require 2 factor authentication
- An messaging URL for sending SMS's

Optionally you will also enter cellphone numbers for all employees in their user user profiles.

Step by step setup

System configuration

First you will setup the system to run in testmode, so that all messages are sent for you. After checking everything works, disable the testmode.

Change server configurations

- Set **smsConnectUrl** to your connection URL
- Check that **smsParamMessage** fits the parameter name of your SMS provider
- Check that **smsParamNumber** fits the parameter name of your SMS provider

Optionally you can allow IP based exceptions from the rules

- Set **passcodeTrustedIp** to true
- Set **passcodeTrustedIpList** to contain your office IP's

Furthermore you can allow multiple logins from the same IP to

- Set **passcodeUserIpHistory** to true
- Set **passcodeUserIpHistoryCount** to minimum succesfull logins

Activate passcode filters

Stop the application server

Go to the application folder and dive into: <application>\WEB-INF\web.xml

Uncomment the section containing the servlet mapping

```
<filter>
  <filter-name>TwoFactorAuthentication</filter-name>
  <filter-class>dk.tempusserva.passcode.SmsVerificationFilter</filter-class>
</filter>
<filter-mapping>
  <filter-name>TwoFactorAuthentication</filter-name>
  <url-pattern>/main</url-pattern>
</filter-mapping>
```

Start the application server

Test and go live

Validate that two factor login works as intended.

Change server configurations

- Set **smsTestMode** to false

Revision #1
Created 4 April 2025 13:13:54 by Theis Villumsen
Updated 4 April 2025 13:16:39 by Theis Villumsen