

# 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
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