

## 2 Phase Login

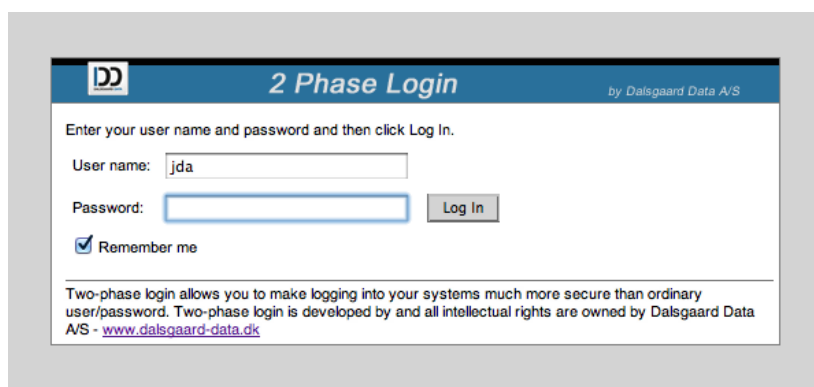
Many companies hesitate to open access to their internal systems from a web browser outside of the company – and with good reason! Quite often there will be great opportunities to make employees' or partners' work more efficient by giving access to some of the internal systems. BUT what if the user's login information is stolen or otherwise lost? That would mean open access to internal systems – often without anyone realising that a breach of the security has happened.

If you are also anxious about this but on the other hand want to exploit the opportunities that exist in opening up access to some of the internal systems then **2 Phase Login** (2PL) may be the solution for you and your organisation!

This solution ensures that lost login information on its own cannot be used to gain access to the organisation's systems! This is obtained by adding an extra check during the login process where the system requires the user to enter a temporary one-time code that the system sends to the user's cell phone as a text message. A thief would therefore have to steal the user's cell phone as well as the login information – and the loss of a cell phone is normally discovered within short time.

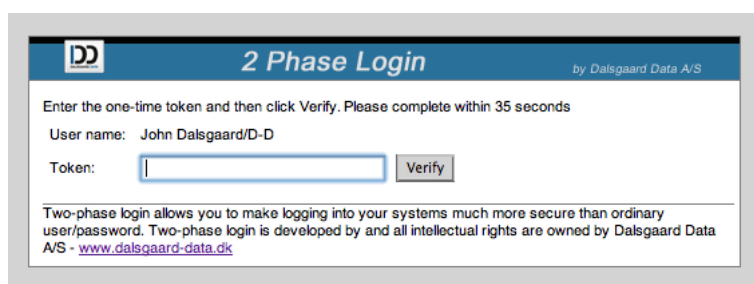
### What does it look like?

When a user tries to open an internal system protected by **2 Phase Login** then the user will see an ordinary login screen at first:



The screenshot shows a web browser window with the title "2 Phase Login" and the Dalsgaard Data logo. The page content includes a header with the logo and title, followed by the text "by Dalsgaard Data A/S". Below this is a form with the instruction "Enter your user name and password and then click Log In." The form contains a "User name:" field with the value "jda", a "Password:" field, and a "Log In" button. There is also a "Remember me" checkbox which is checked. At the bottom of the form, there is a small text block: "Two-phase login allows you to make logging into your systems much more secure than ordinary user/password. Two-phase login is developed by and all intellectual rights are owned by Dalsgaard Data A/S - [www.dalsgaard-data.dk](http://www.dalsgaard-data.dk)".

When the user has authenticated in the traditional way using a correct user id and password the following extra screen will be shown:

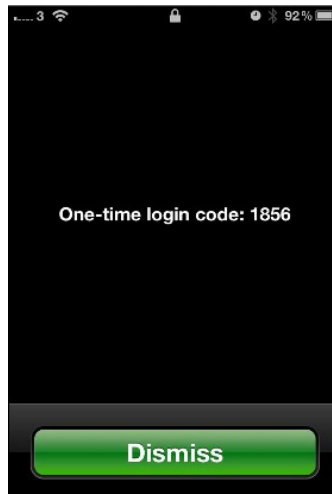


The screenshot shows a web browser window with the title "2 Phase Login" and the Dalsgaard Data logo. The page content includes a header with the logo and title, followed by the text "by Dalsgaard Data A/S". Below this is a form with the instruction "Enter the one-time token and then click Verify. Please complete within 35 seconds". The form contains a "User name:" field with the value "John Dalsgaard/D-D", a "Token:" field, and a "Verify" button. At the bottom of the form, there is a small text block: "Two-phase login allows you to make logging into your systems much more secure than ordinary user/password. Two-phase login is developed by and all intellectual rights are owned by Dalsgaard Data A/S - [www.dalsgaard-data.dk](http://www.dalsgaard-data.dk)".

... and at the same time the system will send a text message to the user's cell phone (see next page).

If the user enters the code from the cell phone then the user will get access to the system in question on the Domino server. However, if the user does not enter a valid code the user will just be returned to the initial login screen and will have to start over again.

## 2 Phase Login



### What do you get with 2 Phase Login?

You get the following:

- A secure login method that requires the user to be in possession of a physical object – without having to invest in expensive physical token generators.
- You can change the login screens to use your own logo/graphics
- Danish and english screens – *contact us if you need more languages!*
- The solutions works in front of all web applications on a Lotus Domino server
- There is also a login screen for mobile access from a cell phone
- An option to enable tracking of logins (time, user, browser, url, etc)

### Some technical facts about 2 Phase Login:

- The solution is built on new technology on Lotus Domino. This means that the server must be running version 8.5.3 or later
- The solution is configured via Lotus Domino's Web configuration (the domcfg database) in the same way as all other login solutions on Lotus Domino
- The websites to be protected must be running session based login (single or multi server)
- Subscription to a text messaging service must be purchased separately from this system

### Prices

Number of users	Price	Program maintenance (25%)
50	1.000	250
100	1.700	425
200	2.800	700
300	3.800	950
+100	1.000	250

All prices are in Euro excluding VAT