



FREJA ID UNLIMITED AUTHENTICATION  
FREJA SSP SIMPLIFIED USER ENROLMENT  
FREJA CONNECT CLOUD SINGLE SIGN-ON  
FREJA MOBILE LOGIN & TRANSACTION SIGNING

# THE FREJA FAMILY OF PRODUCTS

Manage and control the most  
valuable asset in the digital  
world – identity





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# FREJA FAMILY

## CREATING VALUE FROM DIGITAL IDENTITIES

In a world where we are constantly connected, our digital identities have become an integral part of our lives. As we now handle more valuable information and assets over the Internet, we can no longer rely on traditional methods of protecting our digital identities. Fixed passwords are not only insecure; they bring costly administration for password reset and limit your organisation's possibilities to manage identities and credentials.

Freja is a family of products providing your organisation with tools to manage and control digital identities on a large scale:

- **Freja ID** is an authentication server built on open standards that provides true two-factor authentication and generates one-time passwords.
- **Freja Self-Service Portal** is a tool for user enrolment and device provisioning.
- **Freja Connect** enables corporate credentials to be used for cloud single sign on
- **Freja Mobile** is the next generation solution for mobile authentication and transaction signing.

In a world where both our professional and private lives are dependent on being connected, the Freja family provides the necessary tools to manage and control the most valuable asset in the digital world – identity.

### About Verisec

Since 2002 Verisec has been a pioneer in the field of digital identities. In the early days of Internet security, banks were the primary target of attack and Verisec rapidly built a strong reputation among the banks in the Nordic region, providing them with state of the art security solutions. The word of the innovative Swedish organisation spread and soon we had the pleasure of helping customers around the world with secure identity and access management solutions. Today we serve some of the world's largest banks, government authorities and corporations with state of the art technology for protecting and managing digital identities on an internet scale.





**FREJA ID**

# UNLIMITED AUTHENTICATION

**Freja ID** is an innovative solution to one of the biggest problems in the Internet era: How do you securely manage identities, access and credentials for a large number of users while controlling license and token costs.

**F**reja ID is designed for an unlimited approach on identity and access management. It allows your organisation to manage an unlimited number of users, applications and devices at a fixed cost. Freja ID brings you the security of two-factor authentication with one-time passwords and is used by government, corporations and banks throughout the world. Employees gain secure access to internal networks through Freja ID, but the system can also provide secure access on a much larger scale; for e-commerce customers, for players on a gambling site or even for citizens accessing public services.

## User convenience and flexibility

For the user, Freja ID makes the login process much easier as it removes the hassle of remembering complex passwords and also eliminates the need for password-change policies. Freja ID is built on open standards and can be used with all OATH-tokens, both hardware and software-based. With Freja ID, you are free to choose and mix different token types for different users.

Freja ID supports Kerberos and can be used to extend authentication using AD passwords for VPN access. This

can be an important first step in standardizing on a consistent password policy for accessing all corporate applications. And in combination with Freja Connect, Freja ID can achieve a single, consistent, password policy for both internal and cloud based applications.

## Simplicity as a standard

Freja ID's installation and integration is an easy way of negating the need for long complex and costly installation projects. Simplicity is at the core of the system as it is non-intrusive and reuses the information stored in your directories or user databases. Everything is included in the shipment and typical deployments take less than a day. Our record is actually just 49 minutes!

## The solution for identities at scale

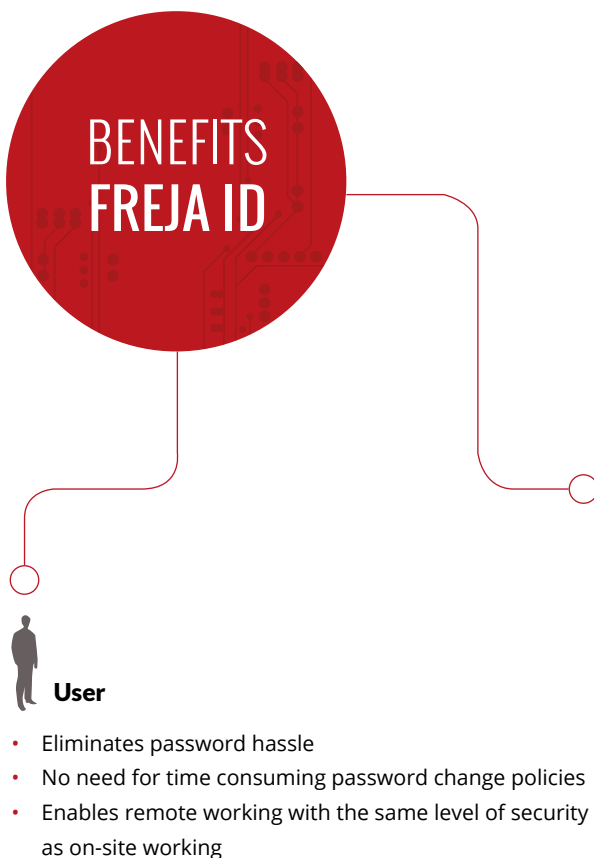
Regardless of whether you need to provide secure access for a few hundred employees or over a million customers, Freja ID is the solution. Along with an increased level of security comes many other benefits: productivity increases as more sensitive information can be managed over the internet and administrative costs are reduced when IT help desk password resets are no

longer required. Providing an easy-to-use login can also be a way to increase revenue. If you have a portal where customers are required to login to access services or make purchases, forgotten passwords or complex password reset processes effectively prevents your customers from doing business with you.

Securing digital identities is essential for the protection of your digital assets. The impact of not securing your identities can be devastating. Consider the consequences of critical business intelligence being hacked. Or the impact on your brand reputation if all your customers' user credentials are shared on the internet after a password breach? Fixed passwords are history. The future is Freja ID.

“THE FREJA PRODUCT ALLOWS US TO AUTHENTICATE EMPLOYEES WHO ARE WORKING REMOTELY ACROSS MULTIPLE LOCATIONS, AND IT’S ALSO FLEXIBLE AND SCALABLE ENOUGH FOR FUTURE EXPANSION NOT ONLY WITHIN OUR OWN ORGANISATION BUT ALSO TO OUR SERVICE PARTNERS.”

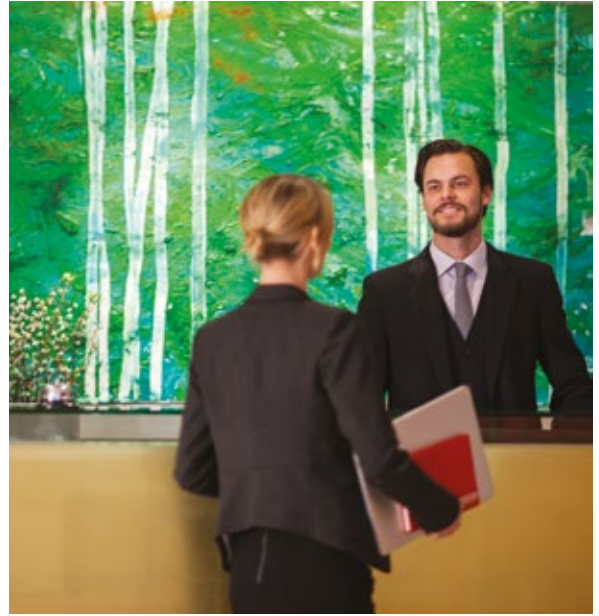
*ICT Project Manager at a local UK council*



**Organisation**

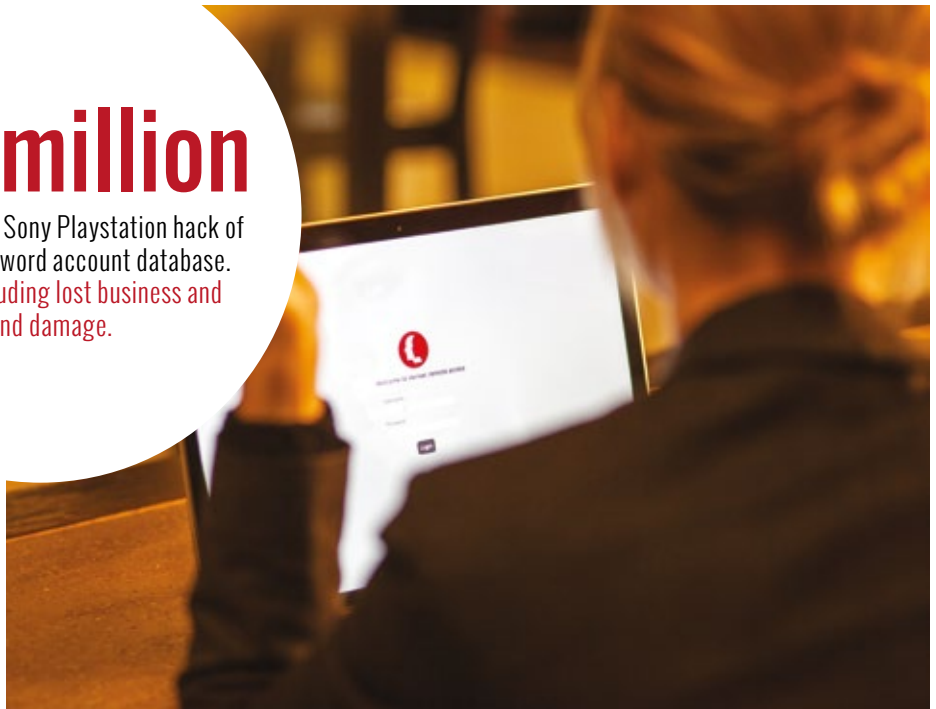
- Unlimited license keeps costs under control
- Increased security boosts productivity
- Non-intrusive integration with multiple directories
- API for easy integration with applications
- All inclusive, just plug and play
- Compatible with all OATH-based tokens, including free smartphone tokens
- Flexible security mode adapts to existing security policies





**\$171 million**

Cost for the 2011 Sony Playstation hack of their fixed password account database.  
That's not including lost business and brand damage.





# FREJASSP





# SIMPLIFIED USER ENROLMENT

**Freja Self-Service Portal** is an add on to Freja ID, simplifying the process of secure user enrolment ensuring that the right credentials are provisioned to the right hardware, software token or virtual token.

Unless the right person gets the right credentials associated with their login tokens, it does not matter how secure the authentication solution is. Ensuring an identity may involve a significant amount of administration if this process is performed manually, i.e. face to face. In these cases, the user has to turn up at a certain place within the organisation and show a proof of identity, after which the user gets a login token associated to that identity. Although this provisioning method is secure, it is extremely demanding from a resource standpoint, often dwarfing the cost of the authentication solution itself.

## Reducing costs and administration

The concept of automating the provisioning process is a stepping stone towards implementing an efficient authentication solution. By leaving the enrolment and token provisioning to the user, Freja Self-Service Portal relieves the organisation of much taxing administration. Letting users verify their own identities is, of course,

utterly pointless. That is why the user has to show some form of proof of identity during registration. This may be login information – username and password – to existing directory schemes. In cases where a user does not have any previous relations to the organisation, it may be in the form of a PIN code delivered in a registered letter, which cannot be claimed without showing proper identification.

## Simplifying for the user

The user can access the Freja Self-Service portal from anywhere through a web browser, and the enrolment is complete in a few simple steps, taking less than five minutes. When the connection between the user token and your directory is established, Freja Self-Service Portal maintains a communication channel with the directory in order to update records, replace tokens or handle PIN resets, which can also be managed by the user directly. For an even better user experience we can customize and brand the portal to the look and feel of your organisation.

## Four easy steps

In Freja Self-Service Portal provisioning is handled in four very simple steps:

- **Select:** The user selects his or her device type (hardware token, Google Authenticator etc.)
- **Register:** The user registers a proof of identity, either a domain user name and password or a combination of these combined with additional identity credential (e.g. a one-time password from an existing authentication system that is being migrated away from)
- **Activate:** For hardware devices the user will activate the token by entering the serial number on the back of the device in the Self-Service portal. For Google Authenticator the user will use the camera on the smartphone to scan a QR code presented on the Self-Service Portal.
- **Verify:** Finally the user will be able to verify that the steps above have successfully provisioned a security device and associated it with him or her.

“THE FREJA APPLIANCE AND SELF-SERVICE PORTAL HAVE ENABLED US TO DELIVER A COST-EFFECTIVE, USER FRIENDLY AUTHENTICATION SOLUTION THAT HAS BEEN EASY TO INTEGRATE WITH OUR EXISTING SYSTEMS.”

*ICT Infrastructure Team Leader at a local UK council*



### Organisation

- Reduces cost and administration for user enrolment
- Enables deployments for large user groups
- Compatible with all OATH-based tokens; hardware, virtual and mobile
- Enables the use of free smartphone tokens, e.g. Google Authenticator
- Customized branding of the user portal interface
- Can be linked to internal help desk and support teams
- Unlimited license; add users without additional cost



### User

- Spend less time with the enrolment process – takes less than five minutes
- Ability to reset or change PIN codes without help desk calls





**17%**  
of all IT help desk calls  
regards password resets  
(At \$22 per call, there's a  
lot of money to save)







# FREJA CONNECT

# CLOUD SINGLE SIGN-ON

**Freja Connect** allows your organisation to take back the control of identities in the cloud by enabling users to securely reuse their corporate credentials for access to services outside of the internal network.

**T**oday cloud services are an integral part of everyday operations in both private and public sector organisations. Cloud services solve many problems, but unfortunately also create new ones. To store critical data outside of your organisations network, protected only by weak fixed passwords controlled by the user is a risk. Almost 70% of users reuse the same password across multiple web sites, identifying huge security concerns and highlighting the need to control identities in-house. Whether employees' websites are work related or not, your business is at risk if passwords are reused. If one site is hacked, intruders will have access to all of the sites accessed with the same password.

## Who is in control?

Even if your employees follow strict password policies, what happens if they resign? Imagine a former sales representative still having access to your cloud based CRM system when starting a new job for a competitor. With hundreds or thousands of employees, each using a number of cloud services, you will be facing major challenges in controlling the access to your critical data.

From a user's perspective, managing a multitude of fixed passwords is a chore, not to mention the hassle that comes with resets when passwords are forgotten, a big reason why people reuse passwords across multiple systems.

## One identity to rule them all

Freja Connect is the solution to resolve all of these challenges. When you log into a cloud service the authentication request is re-directed to your internal authentication system, which means you can reuse your corporate credentials. It could be the directory username and password, but it could of course also be a 2FA hardware token or mobile application, if that is what you are using within the organisation. In short, Freja Connect allows your organisation to regain control of identities and access in the cloud. This also means that the users will have one single identity for all access and you will have a single point of control and a termination strategy.

Not only do you gain control, you also increase security in several ways. If a cloud service your employees are using were to be hacked, the credentials are still in good hands

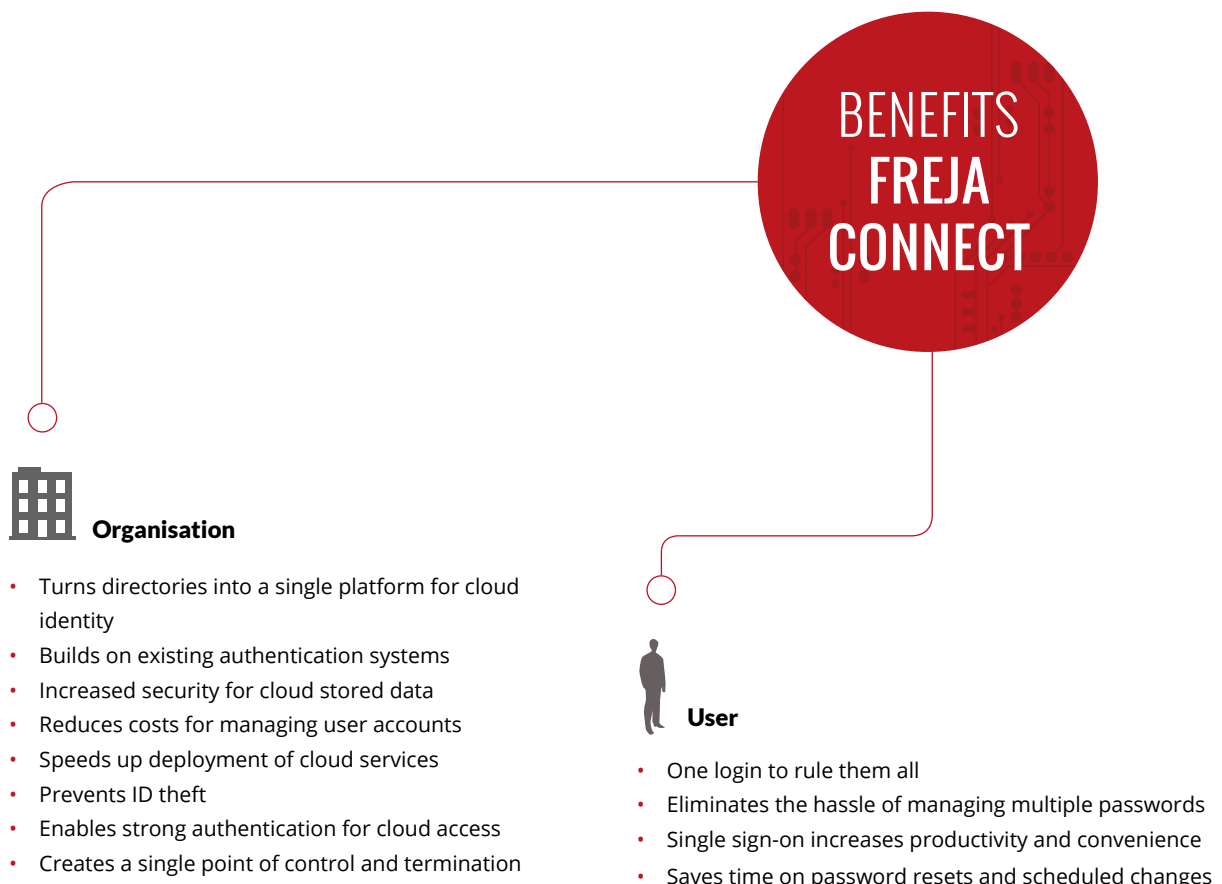
as they are stored safely behind the perimeters of your internal network, and your existing password policies are enforced for cloud based authentication. Also, using Freja Connect gives you the option to apply two-factor authentication for cloud service access.

## Easy for everyone

Freja Connect makes life easier for the user. Instead of keeping track of dozens of passwords, the corporate credentials can be used everywhere. The web single sign-on feature allows the user to have a seamless workflow switching between different cloud services without the need to re-authenticate each time.

Since Freja Connect reuses your existing authentication system it is quick to install and easy to configure. The intuitive GUI allows administrators simplicity when managing users, adding cloud services and controlling credentials.

Cloud computing is one of the greatest innovations within technology today and the trend is clear; an increasing number of applications and services will be managed outside of the internal network. A considerable drawback is the loss of identity control, the security risks associated with fixed passwords and the inefficiency caused by managing multiple credentials. Now there is a solution to all of these challenges – Freja Connect.





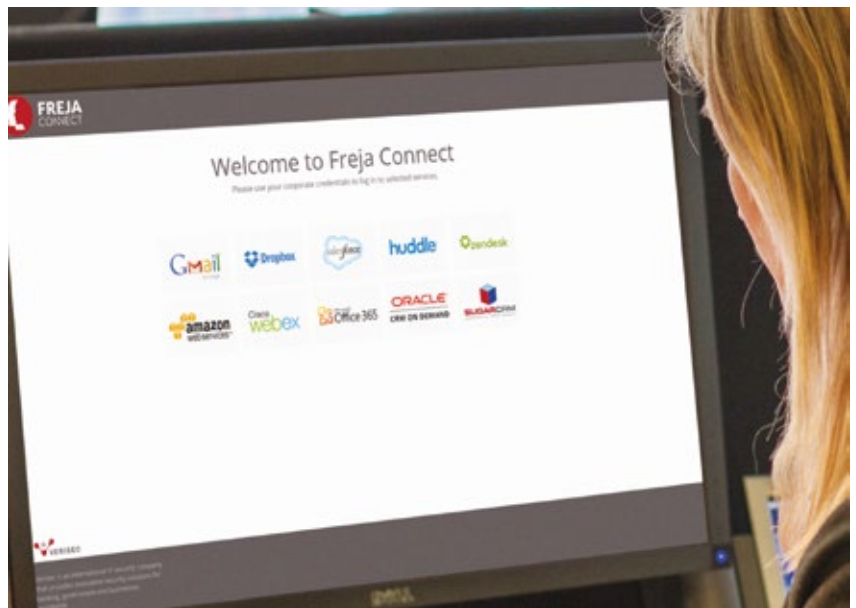


**300%**

increase of password theft in 2012



**7** out of **10**  
reuse the same passwords







# FREJA MOBILE



# SECURE LOGIN & TRANSACTION SIGNING

**Freja Mobile** reinvents technology for digital identities that truly leverages the features of the smartphone, providing elevated levels of security and user convenience for login and signing.

**T**he traditional way of overcoming the security risks associated with fixed passwords has been using hardware tokens generating one-time passwords. Replacing all of your different passwords with hardware tokens would simply not be sustainable, considering the large number of internet services we are using today.

## A new level of security

When smartphones arrived a new generation of password tokens was born. The functionality of a hardware token were simply put inside a mobile application. However, these applications only generate one-time passwords, which is really far from leveraging the fact that a smartphone is a constantly connected computer with a screen that can display much more than a password.

Freja Mobile is the next generation of technology for digital identities. It truly leverages the properties of the

smartphone which enables a whole new level of security, control and user convenience. With Freja Mobile your smartphone displays in detail what you are approving and what kind of transaction you are signing. It also solves the big challenge of securely provisioning smartphones over the internet, making it possible to enroll large numbers of users in an easy way at a low cost.

## An intelligent architecture

Freja Mobile consists of two parts, the mobile authentication server and the smartphone application. It can be used for login purposes as well as for signing transactions. The authentication is transferred on a secure, separate channel directly to the service used, removing the need for the user to manually transfer a password or a code from the mobile to the web browser. This eliminates the risk of Man in the middle and Man in the browser attacks.



## Removing the passwords

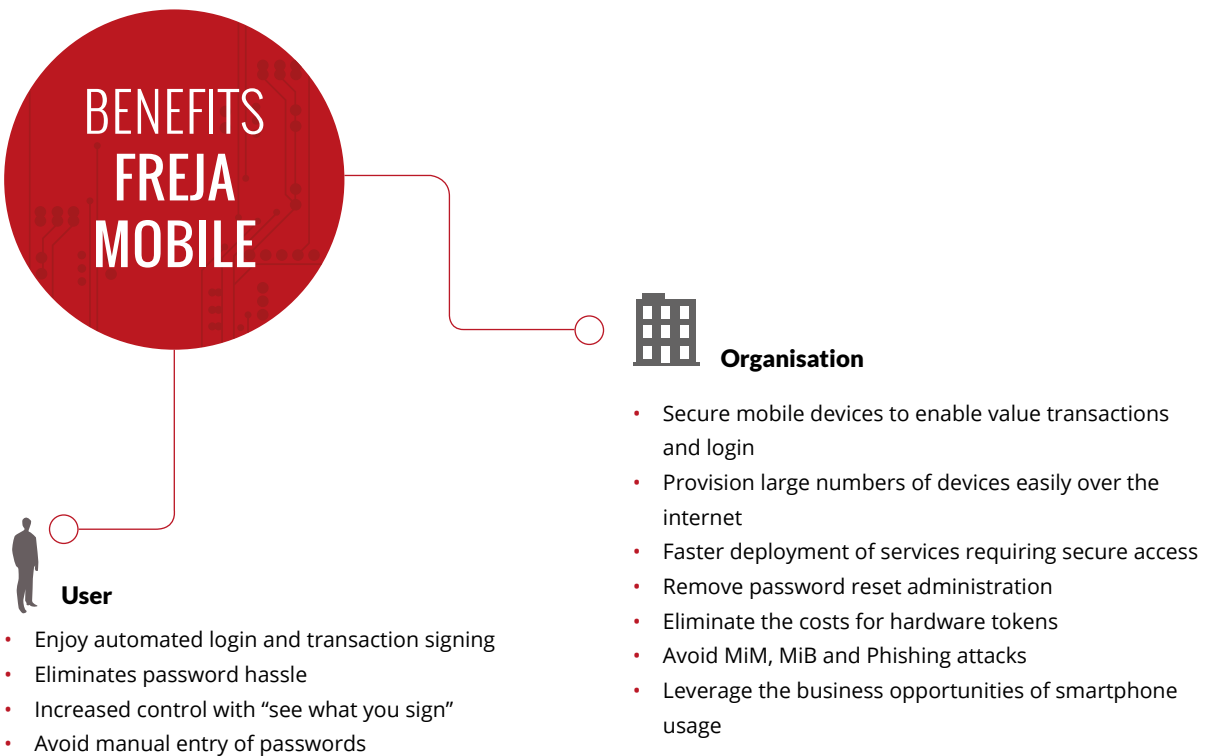
From a user's point of view, all you have to do is to state your username in the browser. The mobile authentication server then sends a request, through the secure channel, to the mobile phone. Instead of getting a one-time password, you get a message displaying exactly what you are about to approve, for example the name of the website you are logging in to. To confirm login, just enter your personal PIN code on the phone and the login is processed through the secure channel.

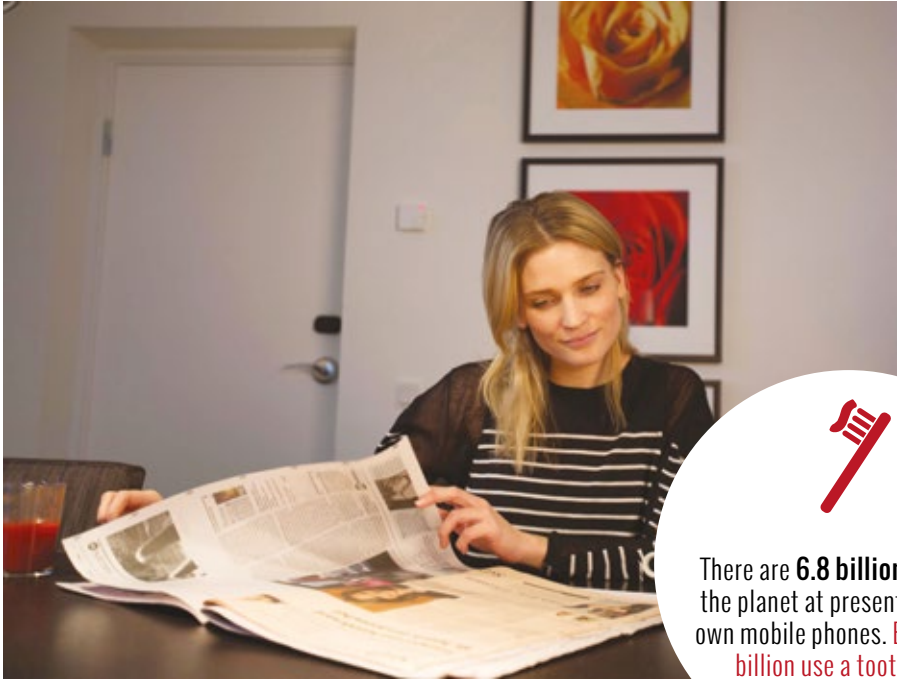
The same procedure takes place when signing transactions – providing the user with a message of the exact details of what is being signed – making the technology secure enough to handle money transfers and other transactions requiring top level security.

The Freja Mobile technology can be deployed everywhere fixed passwords or any kind of multi factor tokens are used; corporate networks, public sector services, e-commerce, banking, gambling or any other service where you need the combination of strong security and user convenience for large user groups. Freja Mobile can be used as a standalone application or as an integrated component in your existing app.

## A revolution for identity

Freja Mobile is truly revolutionary in terms of user convenience but the real benefit it adds to your business is the fact that it turns the mobile into a trusted security device. The extra layer of security, provided by the mobile authentication server, turns the mobile into a unit secure enough for any kind of login and transaction.





There are **6.8 billion** people on the planet at present. **4 billion** own mobile phones. **But only 3.5 billion** use a toothbrush.



Your mobile phone has more computing power than the computers used for the **Apollo 11** moon landing.



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