Keypasco Products: How it Works

Keypasco offers a hardware-free, patent-approved and software-based authentication solution. The service combines factors like device authentication, geographical locations, a 2-channel structure, macro & micro proximity, and a risk behaviour analysis to offer strong **multi-factor authentication**. **The Keypasco solution is a unique solution with excellent user-experience, while being cost saving!**

How Does it Work?

The Keypasco technology is a strong authentication solution consisting of the Keypasco server (Borgen), one or several clients (Vakten), and a web channel.

The first channel sends information between the end user's device (client or browser) and the online Service Provider. The second channel sends information between the end user's device, Vakten client, and the authentication server. To verify the authentication and add the multi-factor levels of security the online Service Provider checks with the Keypasco server to verify the device authentication, geographical locations, proximity and the risk management analysis.

Verifying channel
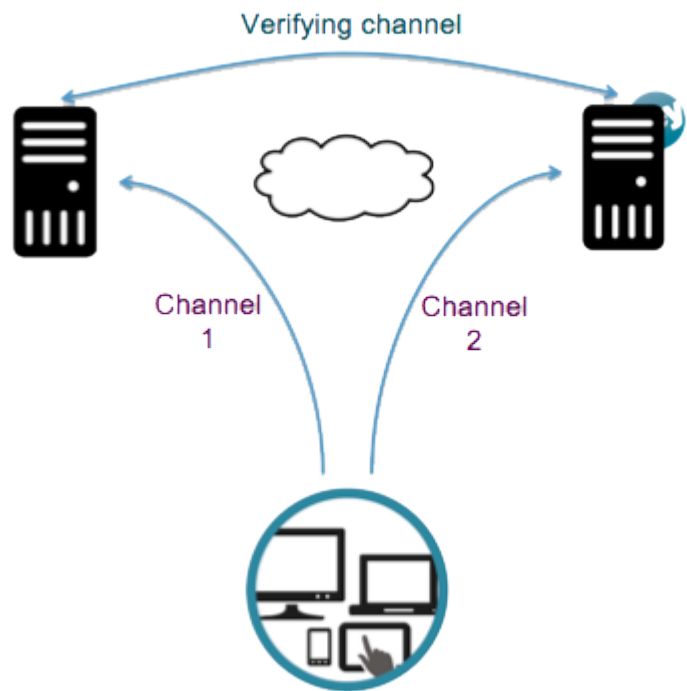
Channel 1

Channel 2

The **Keypasco Service** is based on different components, the software clients (Vakten for Desktop, Smartphone, Tablet and Browser), and the back-end server (Borgen). All versions of Vakten provide a two-channel structure for secure authentication, verifications and signatures.

More information is available on keypasco.com

Vakten for Desktop

The Desktop client is installed on the end users desktop computer for identification of the device and location. Supported platforms are Windows, Mac and Linux. The Vakten for desktop also provides the functionality of secure verifications and signatures. These are secure Out of band confirmations and they are distributed via the secure channel between the Vakten client and Borgen server. Vakten for Desktop can be used to secure web solutions as well as desktop applications.

Vakten for Smartphone & Tablet

The Smartphone/Tablet client is installed on a device to identify the device and location, and can confirm secure verifications and signatures through the Out-of-Band verification channel. One of the signature options is the Keypasco PKI Sign, which has no need of a secure element. Supported platforms are iOS and Android.

Vakten for Browser

The Keypasco solution can even verify device and location without an installed client by offering the Vakten for Browser option. Supported platforms are Chrome, Firefox, Internet Explorer, and Safari.
We use a JavaScript integration and a personalized cookie as the distribution channels.

Borgen: Keypasco server

Keypasco authenticates the end user by identifying and associating their device(s) and location(s) to a anonymous userID within the Keypasco Borgen server. *No personal data is ever stored in either the client or server!*
The server is located in the Cloud and self-scalable to handle any volume.

Keypasco also offers a **Server Licence** where online Service Providers are able to host their own version of the Borgen server on their premises.
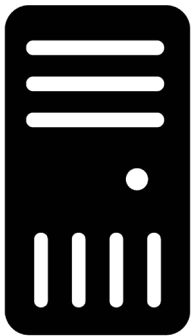
Where does it work?

Keypasco offers the service to a global market and has established partners around the world. Support is offered 24/7, and we guarantee a 99.999% availability.

Head-quartered in **Gothenburg, Sweden**, Keypasco has a second office in both **China** and **USA**. We have local partners in **Japan**, **Brazil**, **Taiwan**, **Vietnam**, **Russia**, **Myanmar**, **Laos**, and **Cambodia**.

TRY OUR DEMO @ demo.keypasco.com

Keypasco mitigates all present threats
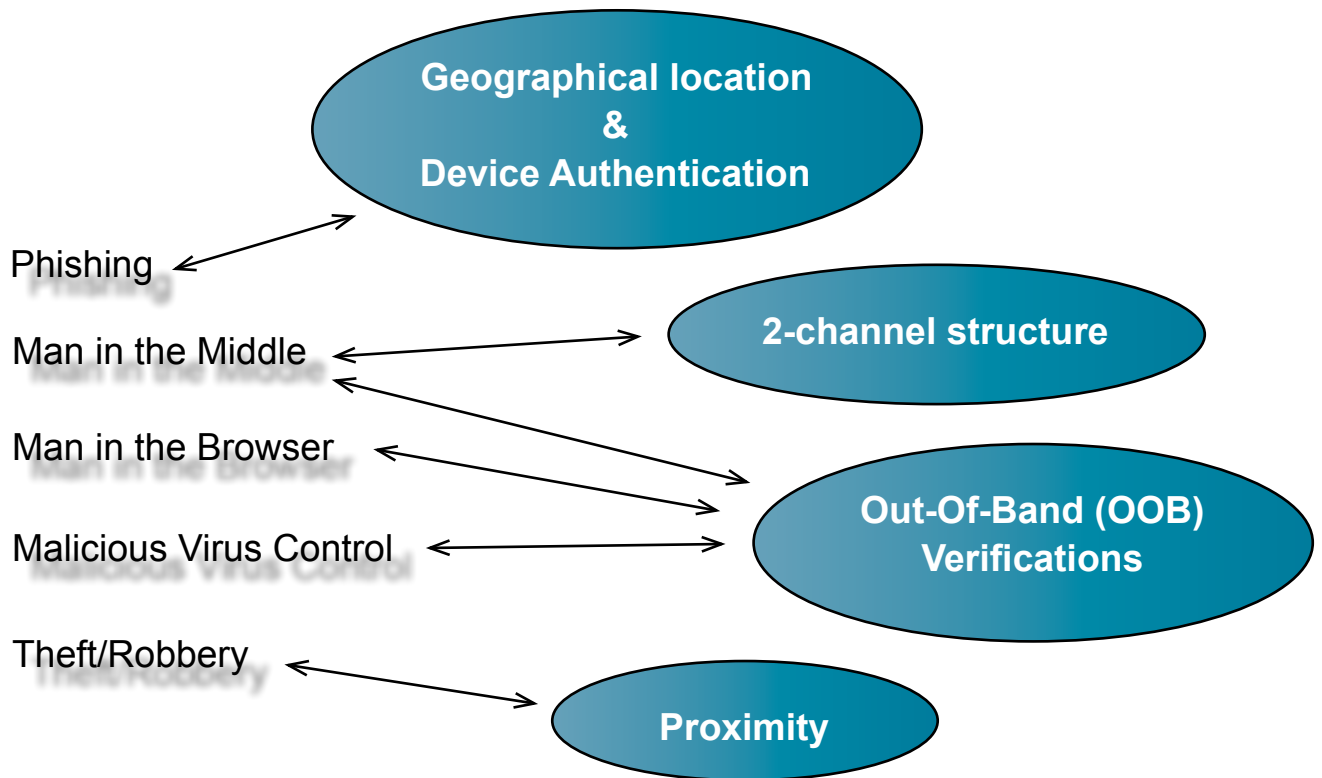
Keypasco mitigates Phishing by linking the user with a geographical location and the device authentication. Your username and password only works on your devices and locations.

Man in the Middle (MitM) and Man in the Browser (MitB) attacks are mitigated by Keypasco's 2-channel structure and Out of band secure notifications.

Malicious Virus Control (Viruses, Trojans, etc.) can control or replicate an end user's device. Keypasco mitigates these with an Out of Band secure notifications.

Theft/Robbery of a device can compromise a user's security. With the Keypasco micro proximity feature, a user's account is safe even if a device is stolen.

ABOUT KEYPASCO

With more than 25 years of experience in IT security Keypasco's founders are the minds behind some of the revolutionary authentication technology solutions used today. Keypasco offer a patent-approved secure authentication and secure mobility solution to companies in the online gaming and financial/banking industry.

When Keypasco was awarded by Frost & Sullivan we were described as *"a true pioneer of the 21st century for mobile security"*.

For more information, visit www.keypasco.com, email your question to info@keypasco.com, or contact us at +46-31-102360.

Keypasco Services: What We Offer

The Keypasco solution enables You to keep the investment and ongoing costs to a minimum while employing a solution that rapidly adjusts to new emerging threats.

- A very affordable solution, with a $0 upfront fee for the Cloud deployment
- A low and fixed annual fee per active user
- A true chameleon - no change in established user behaviour
- Simple and quick integration
- Plays well with others as it can be offered as an add-on solution

Keypasco was awarded the 2014 Product Innovation Leadership Award for Secure Authentication by Frost & Sullivan, which describes Keypasco as *"a true pioneer of the 21st century for mobile security."*

www.keypasco.com

Keypasco Service

Keypasco offers secure authentication, verification and signatures with a patent-approved multi-factor security solution. The service combines the device authentication, geographical location, 2-channel structure, micro & macro proximity factors with a risk behaviour analysis. The Keypasco Service is a true chameleon and can be completely hidden from the end users so the established user behaviour can stay identical as before. The Keypasco Service can be offered with or without an installed client, and it can be offered both as a seamless addition to an existing solution or as a stand-alone solution.

Secured by Keypasco with an installed client

Keypasco secures all major platforms for PC, Tablet and Smartphone. If you combined multiple platforms, Keypasco can offer authentication, secure BYOD (Bring your own device) and a Out Of Band channel to verify secure verifications and signatures (**Keypasco PKI Sign**). When a end user has responded to the secure task the response is reported to the online Service Provider with the information of both what Out of Band device and location is used as well what device and location that initiated the attempt.

Supported platforms are:
Windows, Mac, Linux, iOS and Android

Keypasco can even handle an offline robbery situation! The micro proximity feature make sure that the devices has to be in proximity of each other to be able to work.
Supported platforms are: Bluetooth, Wifi and NFC.

Secured by Keypasco without an installed client

Keypasco can offer strong, multi-factor security to a Service Providers without requiring an installed client. Vakten and the Vakten for Browser also identifies the device and location and report it to the server. Keypasco can effortlessly offer the convenience of a non-installed client with secure Out of Band tasks when combining Vakten for Browser and Smartphone/Tablet.

Supported platforms are: Chrome, Firefox, Internet Explorer, and Safari.

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