

WAVE Browser

Secure, Anonymous Browsing

Protecting Information Security and Privacy



A secure browser that protects the user's privacy is a critical cybersecurity tool for staying safe online and keeping your data secure from malicious third parties. Learn why iSign International's WAVE Browser is the best way to achieve real safety.

A secure browser has extra security measures to prevent unauthorized third-party activities, prevents phishing, and supports encryption when the users are surfing the web. Additionally, it should have other security features like multi-factor authentication, information anonymization, etc. to protect confidentiality, integrity, and availability of data.

Why do Users Need Safe and Secure Browsers?

There are many reasons why an average person needs to think about using a secure browser. The browser opens you up to the Internet, and it is also the frontline of defense against Internet threats. Because of this, the average user must become mindful of their privacy and how their data is consumed and used.

Cookies collect user's private information, like the websites they've visited, usernames and passwords, and other tracking data. Safe browsers help stop these third-party tools. Safe browsers also don't share the user's identity, like some of their less secure counterparts. Even if they use a VPN, users are only hiding their IP address, location, and the data in transit. The browser can still expose their identity through leaks or browser fingerprinting.



Some Factors Which Affect the Safety and Security of the Users:

With hackers becoming more technologically advanced, there is an increasing threat from software attacks that exploit and take advantage of vulnerable web browsers. Hackers exploit software vulnerabilities to infect web browsers through malicious or compromised websites. The security risks get complicated exponentially by the following:

- Many users tend to click on links without considering the risks of their actions.
- Hackers can disguise web page addresses or take users to an unexpected site.
- Many web browsers are configured to provide increased functionality, but at the cost of decreased security.
- Security vulnerabilities are often discovered after the software is configured and packaged by the manufacturer.
- Computer systems and software packages may be bundled with additional software, which increases the number of vulnerabilities that hackers may target.
- Third-party software may not receive regular security updates.
- Many websites put the computer at additional risk by requiring the users to enable certain features or install more software.
- Many users do not have the requisite knowledge to configure their web browsers securely.
- Many users are unwilling to disable or enable functionality to secure their web browser.
- Exploiting vulnerabilities in web browsers is a popular way for attackers to compromise computer systems.

iSign International's WAVE Browser is a secure, anonymous browser with multi-Factor Authentication and Single Sign-in, making it the best browser to suit today's modern users. iSign International is a digital security hardware and software company with patents for Biometric Signature, Threat Detection and Prevention.

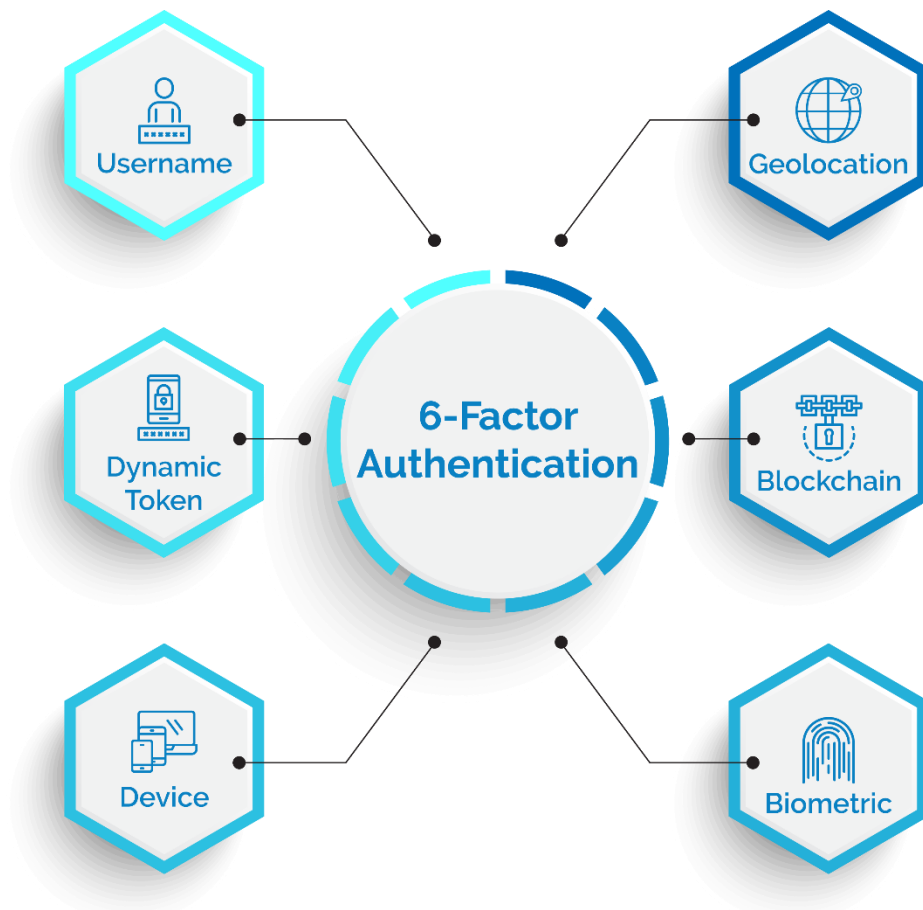


WebAuthn/FIDO2 Authenticators of Usual Web Browsers:

FIDO2 use cryptographic login credentials, which are unique across every website. They never leave the user's device and never get stored on a server. This security model eliminates the risks of all forms of password theft, phishing, and replay attacks.

But strengthening this even further, the WAVE browser provides users with 6-Factor authentication that goes beyond the standard WebAuthn/FIDO2 authenticators.

Wave Browser's Six-Factor Authentication





Username

A username that matches you to the account.

Dynamic Token – 2048 Bit Dynamic Encryption

Dynamic token with time-based code generation per device that only users can recognize.

Device Recognition

The third authentication factor of Wave's is device recognition. Ex: Desktop, mobile, tablet recognition.

Geolocation Based Authentication

Wave's fourth authentication factor, geolocation, is undoubtedly one of the most useful features right now, recognizing your physical location.

Profile Blockchain Technology Uses in the authentication.

Wave's Blockchain technology justifies the issues of security and builds up trust. With this technology, each block contains its hash and the hash of the block before it. Hash codes are created using a math function that turns digital information into a string of numbers and letters. If that information gets edited in any way, the hash code changes as well. In other words, once a block is added to the blockchain, it becomes challenging to select and impossible to delete. Wave browser secured by blockchain technology provides Account integrity and non-repudiation.



Biometric Authentication

Wave browser uses a biometric signature for physical recognition authentication. Since biometric characteristics cannot be conjectured or stolen, they provide a superior security level than the usual means of authentication. The field of biometrics saw significant technological advancements recently. Many people observe biometric technology as the safest and most effective method of individual identification. The top benefits of Biometric technology are authentication, privacy or data discretion, authorization or access control, data integrity, and non-repudiation.

Conclusion

While users are familiar with anti-spyware and antivirus software, which react after a threat becomes apparent, safe browsers prevent specific actions from happening initially, making it a very proactive way to stay safe on the Internet. iSign International's WAVE Browser is a secure, anonymous browser to ensure the safety of the employees.

To learn more about iSign and its SmartGuard innovative solution, which helps monitor and detect malicious activities in real-time by leveraging hardware-assisted security assurance for home and business environments visit our website at <https://isigninternational.com/>.