

## JANUS Solution

### Safeguards Online Transactions

#### *Overview*

JANUS solution is an easy to use, continuous authentication solution that offers a safe online transaction environment to protect all parties in transactions with enhanced security and privacy which builds user trust and business confidence.

#### *Product Descriptions*

JANUS is product of technology innovation in messaging communication and processes that is totally different from conventional methods that it uses "multiple communication paths" with individual human behaviour which creates a uniqueness that is virtually impenetrable.

To further enhance the level of protection, each and every message used in communication with JANUS is unique and each user message is one-way-encrypted (hash) with randomly generated numbers. Every step of the transaction is unique and no single Authentication message is repeated. Additionally, each step in a transaction communicates information via a random path thus eliminating the traditional "umbilical cord" between the user and the organization. This renders Man-In-The-Middle attack ineffective.

Instead of adding another layer in the process, we have neutralized all known forms of phishing and pharming attacks by altering the method in which information is represented and processed. Instead of allowing unrestricted access once the user identity is established, JANUS provides intuitive methods to allow users and the service provider to identify each other easily and securely before new data is accessed or provided. This continuous and bi-directional authentication processes allow both the organization to authenticate the user and the user to authenticate the organization. By providing every user the tool to confirm that they are dealing with the intended organization, makes phishing attacks irrelevant.

Finally and perhaps the most significant of features of JANUS is the ability to provide remote alerts to the authorities when completing a transaction under duress. A "duress" transaction can be concluded as per normal with a signal sent to the nominated authorities so that action can be taken immediately to assist the user and prevent further criminal activity.

### *User Benefits*

In user prospective, JANUS provides a significantly enhanced level of security and privacy, benefited from its foundation principles and approaches - our patented messaging and authentication technologies. With JANUS, the user will be satisfied that the online transaction can be accessed through the browser of any computer or mobile device, easily and safely.

### *Service provider Benefits*

JANUS is a server side security solution. The application module can be used in all major web development platforms such as PHP and ASP.NET. The implementation is very simple, once all files are copied to the designated folder and the communication with JANUS server is configured and established, the JANUS authentication is ready. One server side installation will protect all users using the service or domain. The application of security features is extremely flexible: the system administrator is free to choose the appropriate methods and steps in accordance with its security classification and risk factors. The JANUS interface communicates the user authentication status with the hosting web server only; there is no new potential security risk to existing network infrastructures. Therefore, JANUS is simple, secure and scalable. It is also very cost effective without resource overhead.

### *Applications*

JANUS is a strong authentication solution that can be utilised for organisations large or small in many vertical markets:

- Financial Institutions
- Governments
- Healthcares
- Education and research institutions
- E-Business

Many online transaction services that are dealing with identity based attacks daily would be most beneficial in deploying JANUS solution:

- Online and Mobile banking
- E-Commerce
- Secure Single Sign-on
- Identity Management

