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INFOSECURITY

secure access to your website

@Web Authentication



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@Web Authentication

WebIdentity and **WebOTP** represent the USB device family that enables recognizing and authenticating the user of a Web-based application univocally and establishing protected and encrypted transactions with it on the Internet, Intranet and Extranet networks.

They prove ideal for solving any management and replicability problems of user-name and password-based systems simply and functionally.



Practical applications

Control of access to Website allocated areas for:

- Remote management of sales networks and Competence Centers
- Selling of by-consumption services on the Internet
- Online publishing
- Secure management of ASP services
- Selling of software and computer services on the Internet
- Secure access to financial and insurance services
- Controlled release of information
- Home Banking

Advantages of WebOTP versus a traditional OTP device

Lower costs • WebOTP: No expiration date therefore no cost of replacement as it comes without battery • WebOTPtime: Duration of the battery independent from the number of authentications processed • Greater usability: it is not necessary to type any authentication code or user ID manually, it is simply plug&go • No more problems of display readability • It's more secure: it relies on authentication strings longer than those of a traditional OTP unit (20 byte against 4 byte) • Compact size: it can be kept in a wallet

WebOTP

This solution comes with a particularly aggressive price and it allows secure authentication with a WEB server. The main feature of this token is the possibility to send authentication information via the USB port of the computer without having to install any software and/or driver and without also any need for administrator privileges. The WEB server receives an authentication string that contains the user's ID and an incremental counter; it is absolutely secure thanks to double encrypting carried out with AES 256 bit algorithm by using first the user's private key and then the WEB server's.

WebOTPtime

The product uses the same technology of the base product with the addition of the time factor inside the authentication string though. Indeed the USB token contains a timer that is synchronized with the WEB server's. An even more secure solution then, ideal also for home banking projects.

WebIdentity

As for this product the authentication technology is based on the challenge/response information exchange between the USB device and the WEB server. Managing such communication is guaranteed by the ActiveX or by the proprietary plug-in that is installed on the client when first connecting with the Internet site protected area. WebIdentity has also a 8kb remotely updatable memory at disposal that allows exploiting the USB key for other application needs too, such as the protection of software locally or the management of an electronic wallet.

WebIdentity Combo

In addition to the WebIdentity features it has also a flash memory at disposal that can reach 4GB and that enables saving any type of file on the same USB device, as it happens with a standard removable unit. This further memory can also be partitioned into 4 different types of logic units, thanks to the PicoDisk 4CD product technology, in order to support as much as possible the needs of a software that must be distributed on a memory USB key.

Features	WebOTP	WebOTPtime	WebIdentity	WebIdentity Combo
Requirements				
Client	Windows 98 or higher, Mac OSX, Linux 2.4 or higher		Windows 98 or higher, Mac OSX support is under development	
Web Browser	Internet Explorer, Netscape, Mozilla, Firefox, Camino			
Server	The developer's kit allows the integration with every web authentication platform		ActiveX for Windows platform, the Java classes for the support of other platforms (Linux, Unix) are under development	
Authentication system	OTP event based, challenge/response optional	OTP time based, challenge/response optional	challenge/response	challenge/response
Encryption	AES 256 bit on board, SHA 256	AES 256 bit on board, SHA 256	AES 256 bit on board, blowfish 256 bit for client-server communication	AES 256 bit on board, blowfish 256 bit for client-server communication
Authentication variables	incremental counter	incremental counter and timer	session number	session number
Application PIN	implementable	implementable	implementable	implementable
Supply Battery	no	Internal battery, 5 years of use guaranteed	no	no
Internal memory for custom projects	no	no	8KB	8KB
Flash memory	no	no	no	256MB to 4GB
Driver installation	driverless	driverless	driverless	driverless
Software components on client installation	no	no	ActiveX or Plug-in depending on the browser	ActiveX or Plug-in depending on the browser
Client administration privileges	not required	not required	required only at first use	required only at first use

Customization options are available, such as: the shell colour, the prints or labels to apply on the shell and the accessories that can be matched with the device, among which the USB extension cable, the USB connector cap, up to the packaging customization.