

Platform support

		Platform	
		.Net	Java
Operating System 32 or 64 bit support	Windows Server 2003 Windows Server 2008 Linux UNIX (Solaris, AIX, HPUX)	✓ ✓	✓ ✓ ✓ ✓
Application/Web Server	IIS 6.0 ISA 6.0 Weblogic 9x Websphere 6x JBOSS 4x Tomcat 6.x	✓ ✓	✓ ✓ ✓ ✓ ✓
Framework	Microsoft .net Framework 2.0 or greater Java Runtime Environment 1.5 or greater	✓	✓
Database	SQL Server 2005 SQL Server 2008 MySQL SQL Express Oracle 10g Oracle 11g DB2 8.2 DB2 9.x	✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Authentication Support / User Store	LDAP Active Directory IBM Directory Services / Tivoli Directory Services Postgres 2.5 or greater	✓ ✓	✓ ✓ ✓ ✓ ✓
Browser	IE 6.0 or greater Firefox 3.x Chrome	✓ ✓ ✓	✓ ✓ ✓
* JAVA platform is J2EE compliant			



SyferLock is a highly innovative system that delivers the amazing paradox of the **same** password that is **different** every time. This is achieved through the power and process of simple substitution. At log-in, substitute the real password with randomly changing numbers! In effect a substitution cipher with the strength of one to-many.

Contact at Mbits today for a simple, but powerful on-line demonstration
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Remote access and authentication anywhere, any machine, more securely

SyferLock provide users the ease and familiarity of a reusable password, but offer the strength and security of a One Time Password to thwart attackers at **every** log in.

The implementation of SyferLock’s GridOne™ system, and its use of GridPasses™ and GridCodes™, allows organizations to eliminate the threats and risks currently plaguing users of reusable passwords.

From early childhood through adulthood, using and recognizing numbers is a basic skill that is learnt and ingrained. SyferLock leverages and combines this ingrained behaviour with the universal use of passwords to create a GridPass™.

A GridPass™ is a user selected password – a shared secret that only the user and the GridCore™ secured appliance know. Once a password is chosen, the user selects ways to hide the password when they log in. The password is never revealed by using simple substitution via the Grid interface. This substitution creates a more secure, one time password of randomly changing numbers and more importantly, **the actual password is never typed in**.

Syferlock reduces or eliminates the following threats

- Key-logging
- Automated attacks
- Sniffing
- Replay
- Brute force
- Interception
- Shoulder surfing
- Dictionary
- Stored browser passwords

Patented Technology

SyferLock Technology Corporation’s authentication system is patented under **patent no. 7,143,440** with the United States Patent and Trademark Office (additional patents and foreign patents pending).

Key Benefits	
Secure and True One Time Password (OTP) creation	Achieve all the security benefits delivered by one time passwords
Extreme Scalability	Ability to reach and secure millions of users
Agility and simplicity	Ease of installation, ease of deployment, ease of use
No client side software or hardware required	Completely web based! Users only need access to a web browser
Account monitoring and anomaly detection	Built directly into the front end and for User review.
Designed to meet or exceed authentication regulations and guidelines	U.S. and international (FFIEC, SOX, GLB, HIPAA, FISMA, PIPEDA, 21 CFR Part 11, Annex 11, BASEL II, European and Japanese data protection directives)
Lower total cost of ownership	<ul style="list-style-type: none">• No per user token costs• No extra inventory costs• No user token replacement costs• No inventory and token administrative costs

What syferlock delivers companies, agencies and departments

- Do you need to provide strong authentication or more secure access to data, networks and customer accounts? If the answer is yes, then the SyferLock solution delivers you the following:
- Flexible, scalable, non-intrusive, cost-effective secure access and authentication.
 - Device-less OTP and all the security benefits gained from OTP usage.
 - Extremely cost effective way to offer customers and users greater security.
 - Reduction of costly, frustrating password creation and aging rules.
 - Immediate and measurable results in increased security and TCO reduction.
 - Address guidance, compliance regulations and organisational mandates.
 - Non-invasive way to offer greater protection – remove the need to keep asking.
 - Secured stand-alone appliance permitting easy maintenance and trouble-shooting.
 - Extremely light footprint allowing for rapid and seamless roll out.
 - Additional security and additive alternative to existing authentication methods.
 - Highly scalable.
 - Customizable interface allowing for global usage and international authentication.
 - Alternative to a Federated ID **without** the need for sharing of database information or database synchronization.

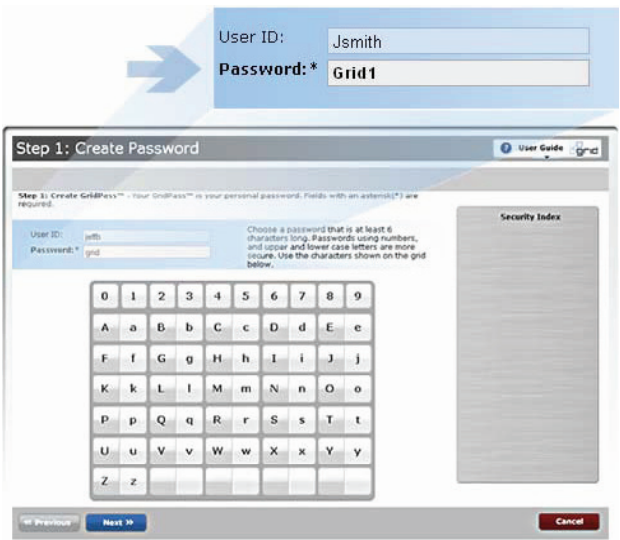


What syferlock delivers your customers and your users – end user experience

- Flexible, non-intrusive, cost-effective and easy to use.
- All the inherent security benefits of OTP usage.
- Once created, the user **never** exposes the GridPassT at any future login, only a random, constantly changing string of numbers.
- No need to carry or pay for **any** additional hardware or print materials.
- Allows the familiar use and creation of password, but with the feeling of a more secure method of logging.
- Non-invasive way to offer greater protection. There is **no** need to divulge information that once compromised cannot be replaced.
- GridPassesT can be changed easily and **as often** as desired.
- As Grid technology becomes pervasive, a user can have **one** secure GridPassT that can be used for **all** accounts.
- No need to offer personal biometric traits.
- Relief of privacy concerns and fears.
- User controlled audit trail and account activity log to detect unauthorized access and/or attempts.

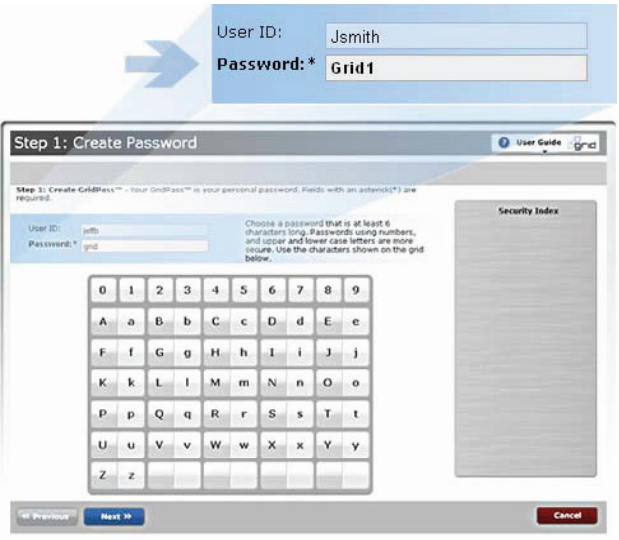
How Does it Work?

Step 1



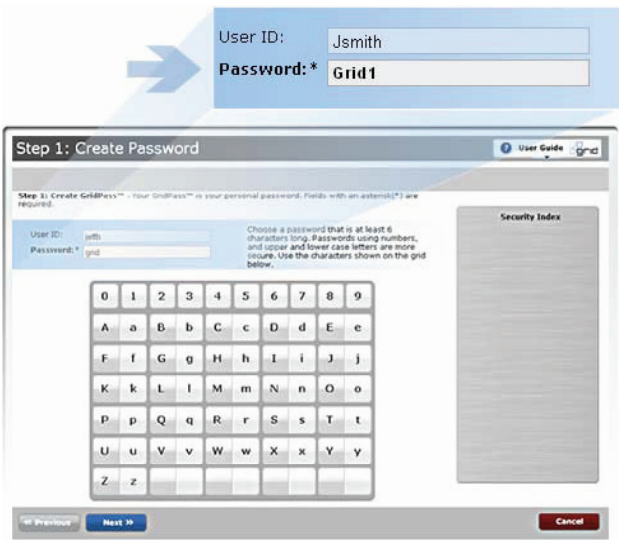
Create a password

Step 2



Choose a target corner that will be used at log-in (this wizard tool creates the mathematical concept of Axiom of Choice). The user then memorises this password+ target corner combination (the GridPass™) and saves it to a secure appliance where it is encrypted and stored. The user will never type in the actual password, and only they and the secure appliance know what it is.

Step 3



Simple substitution takes place. The target corner number associated with each letter of the password is typed in. The actual password letters are never typed in; only the target corner numbers (called a GridCode™) are keyed or clicked. These numbers and GridCode™ change at every log-in.

The next login

The next, and each subsequent login will have **all new** random numbers assigned to the same characters of the user's GridPass™.

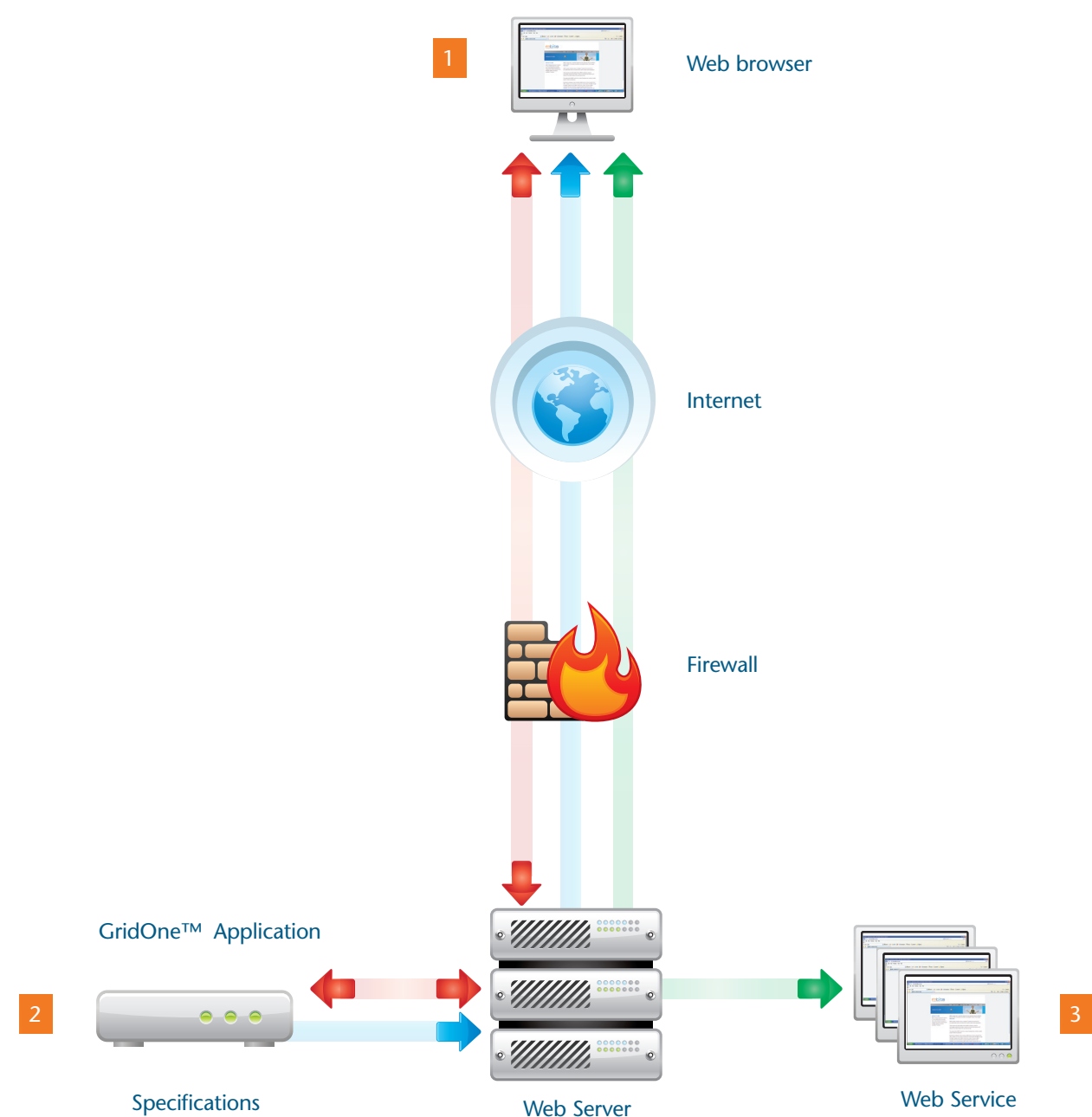
The Grid user interface can be completely customized for any language and its letters, and the UI can be laid out in any number of configurations.

This innovative system delivers the amazing paradox of the **same** password that is different every time.

The Grid Data Security approach and system offers escalating levels of security through the use of add-on security modifiers, Decoy Digits™, and multi-factor authentication capabilities delivered by AutoToken™.



SyferLock GridOne™ simplicity, agility and performance



1	2	3
<p>GridOne replaces the old login functionality.</p> <p>PHP/ASP pages are located on Customer's Web server.</p> <p>Completely transparent to User, login is initiated by User through Customer's Web site.</p> <p>UserID and OTP - derived from the GridOne User Interface.</p>	<p>Secure, dedicated, GridOne appliances authenticates UserID and OTP.</p> <p>Appliance encrypts and stores the User's password and houses the OTP generator.</p> <p>When authentication takes place nowhere is the User's password transmitted or keyed in. NOT on the Web server nor the browser. User simply converts the password via the GridOne User interface and sends the OTP over the channel. A secure 'shared secret'.</p>	<p>Once User is authenticated, User is transmitted to the appropriate service.</p>

SyferLock offers enterprises a range of user authentication options, helping to identify users before they interact with mission-critical data and applications through Remote Authentication (SSL VPN), Intranets & extranets, E-mail, Microsoft Windows Desktops, GridGuard Services (SDK, custom integrations).

Product	Description
GridOne™	The GridOne™ solution works within the guidelines of a portal environment, providing organisations a solution that is as easy to deploy and administer. With GridOne™, no interaction with a desktop is required—that is, no need for an install, therefore no client side software maintenance. Equally important, there are no tokens to manage. GridOne™ is a device-less solution where authentication can occur from anywhere a web URL is available.
GridGuard™	The GridGuard technology provides enhanced authentication for Remote Access, Outlook Web Access and SharePoint. Some of the supported remote access solutions include Juniper SA SSL VPN , AEP Netilla, Citrix Access Gateway, Connectra – Checkpoint and others.
GridPro™	GridPro™ offers enterprises a solution for the personal computer leveraging a Microsoft Windows® operating system platform. This solution consists of a login application (replacing the standard Windows login) that presents a user with a Grid for authentication.
Grid Services	SyferLock offers an Software Developers Kit (SDK), as well as for those organisations where resources (time/people) are limited so developing off of the SDK is not an option , SyferLock can provide that service (customised solution). Custom solutions include, but not limited to JAAS, Servlet Filters and many more.
Grid2Go™	Grid2Go is a two-factor authentication system based on SyferLock's patented authentication system and methodology. The system leverages current-generation "smart" mobile devices such as the Blackberry and iPhone as the second factor in the authentication process.

