

Matrix Pattern Authentication

Secure and simple



The use anywhere with anything tokenless token

pin+ is a revolutionary patent-pending technology which leverages the human minds ability to easily remember patterns and shapes to provide a highly secure, yet simple to use authentication system. This removes the need to carry proprietary key fobs or tokens and remember/store/enter multiple passwords or PINs, thereby reducing cost and complexity whilst increasing security.

Using pin+ is incredibly simple as many people remember things via a pattern without even realising it. Every time you unlock your phone or use a bank ATM machine, do you actually look at the numbers or do you just press the buttons in a remembered pattern or sequence?

pin+ requires you to only remember a pattern, not a number or a password. When you need to logon, you use a pin+ security shield (on a web page or mobile device) made up of a matrix of numbers. By overlaying your pattern onto the matrix in your mind you will "see" a passcode which you then use to logon. A key part of the security is that nobody else can figure out your pattern by observing or capturing a logon as the secret pattern never leaves your mind.

Every minute the pin+ security shield produces a new set of numbers which in turn makes your passcode unique resulting in a true One Time Code (OTC) solution.

pin+ is available via Winfrasoft AuthCentral, an enterprise ready authentication and management platform designed to easily fit into existing Active Directory based environments.



Solution highlights:

- **Strong 1½ and 2 factor authentication** using a visual pattern
- **Cost effective** compared to token-based authentication solutions
- **Secure** remote access to internal AND cloud-based applications
- **Active Directory or LDAP** database storage without extending the schema
- **FIPS 198 & 180-3** compliant cryptography that exceeds OATH specifications
- **Rapid** user provisioning with auto-generated patterns
- **RADIUS & Web Services** interface for universal integration
- **Free Soft Token** download from all major phone application stores
- **Out of the box support** for Microsoft IIS web servers and Forefront UAG 2010



Required Products:

- Winfrasoft AuthCentral Appliance / Microsoft IIS 7.5 server



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Winfrasoft AuthCentral is a Multi-Factor Authentication management platform which can integrate with any backend system via RADIUS or Web Services, while leveraging existing investments e.g. Active Directory and remote access solutions.

Traditional 2 factor vs pin+ 2 factor

A traditional 2 factor token, the "something you have" can be used by anybody who is in possession of it - not just its intended owner. Furthermore the "something you know" (the 4 digit PIN) is divulged in full during each login. With pin+, the "something you have" can only be used by the assigned owner and is of no use to anybody else, even if they have possession of it. Furthermore, the "something you know" is never divulged and remains private during a login. As such, pin+ is a true "something you have" & "something you know" solution.

pin+ Editions

pin+ is available in 2 editions to cater for any requirement, pin+ Core (1½ factor) and pin+ Pro (2 factor). When using pin+ Core, a pin+ security shield is displayed directly on the login page removing the need for a physical token. Full 2 factor authentication is achieved with pin+ Pro by displaying a pin+ security shield on a separate device e.g. a mobile phone. Both editions function in the same way to the end user which saves on support and training.

Plugging in pin+

Winfrasoft AuthCentral seamlessly integrates with many systems via RADIUS and Web Services and includes native plugins for Microsoft Forefront UAG 2010 and IIS.

Microsoft Forefront UAG 2010 allows users anywhere, anytime to Exchange Server, SharePoint, Terminal Services and other Cloud or intranet applications.

Winfrasoft AuthCentral benefits

Cost-effective multi-factor authentication which eliminates the need for expensive traditional tokens and removes the burden of token issuance and additional helpdesk support.

Leverages Active Directory (no schema extensions required) to provide resiliency without the overhead and complexity of an additional directory system or user account database. A standalone LDAP directory is also available for non-AD environments.

Simple user provisioning which can be done either automatically or manually by an administrator using the Microsoft Management Console (MMC) based administration tool.

Policy control and management complying with the strictest compliance requirements in high security environments.

Password management of Active Directory accounts can be self-maintained and reset by the user once they have successfully authenticated using pin+.

Universal integration with remote access systems and applications is possible via RADIUS and Web Services interfaces.

Integrates with existing network infrastructure, AuthCentral will easily work with IPSec and SSL VPN concentrators, Web page logins, Secure WiFi etc.

Mobile Soft Tokens are freely available from all major app stores for Android, Apple iOS, BlackBerry and Windows Phone 7 & Mobile 6.5 devices – a Windows Desktop Token is also available. Soft tokens do not require any data connectivity when running thus lowering data costs and allow for use in areas where there is no network signal coverage.



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