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HOTPin™: High Security, Low Cost Two-Factor Authentication

Overview

Form grabbers, keyloggers, and phishing are a few of the tools hackers use to steal user-login IDs. Selling stolen IDs has become a sophisticated business, which brings up the question: who really is on your network? Authenticating users is the security issue to tackle today.

Two-Factor Authentication (2FA) systems screen users by asking them for something the user knows (like a password or PIN) and something the user has (such as a hardware token or card). HOTPin™ is Celestix' new 2FA system. Celestix designed HOTPin from the ground up to deliver highly secure 2FA with one-time passwords (OTPs) — delivered to users' mobile phones and PCs to slash costs. HOTPin is the first 2FA system fully integrated with Microsoft IAG 2007 SSL VPN software. Deployed on WSA™, the world's best selling IAG appliance brand, HOTPin is the 2FA solution for IAG.

HOTPin™ drives out cost

Usually 2FA systems have very high per-user costs. Traditional hardware tokens used in legacy 2FA systems can cost \$150 per user. In contrast, Celestix HOTPin™ systems put OTPs on users' mobile phones to eliminate the entire cost of expensive single-function hardware tokens.

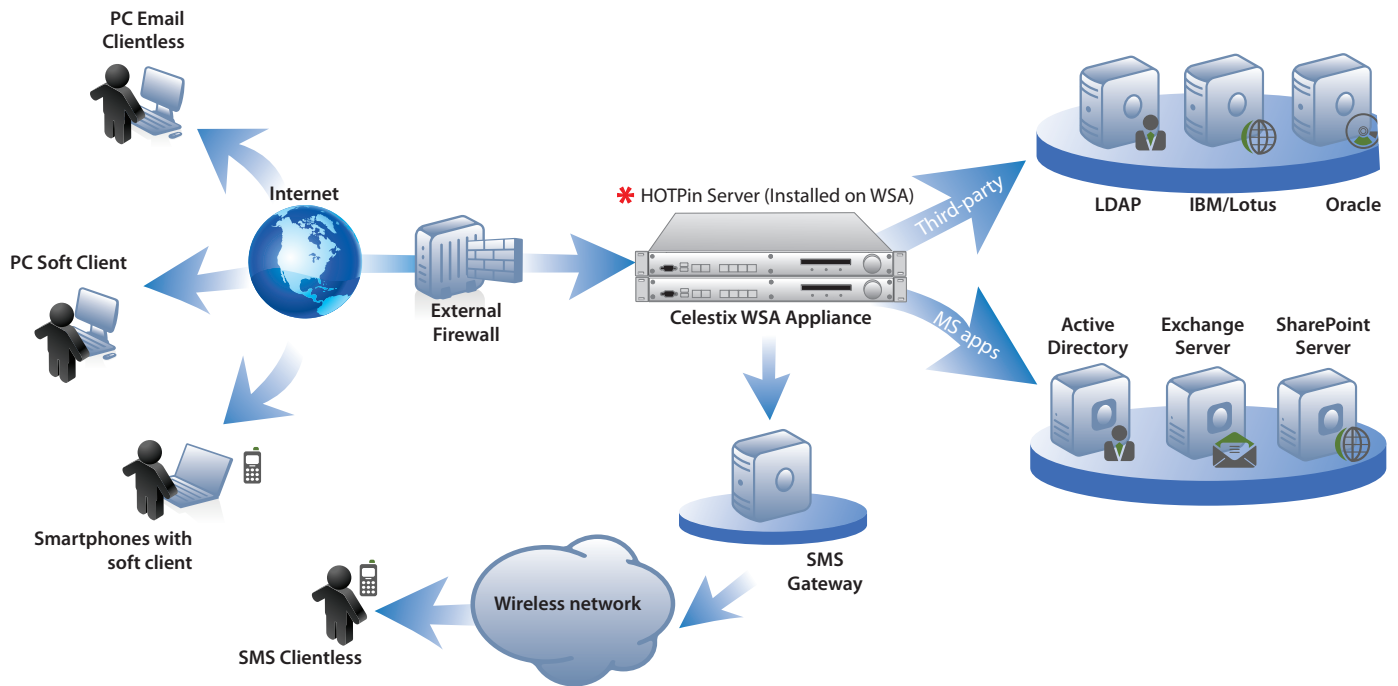
HOTPin's server-side application deploys as a plugin on Celestix WSA™ series appliances. WSA appliances use IAG software to provide remote users with secure connectivity to networks by creating SSL VPNs. The HOTPin server plugin manages user credentials and authenticates users. HOTPin uses HOTP, which is an HMAC-based algorithm for generating OTPs. Unlike the algorithms used by many legacy vendors, HOTP is an open standard that has received extensive scrutiny from security-industry experts and leading academics.

HOTPin

2FA for Celestix WSA SSL VPN Appliance

Benefits

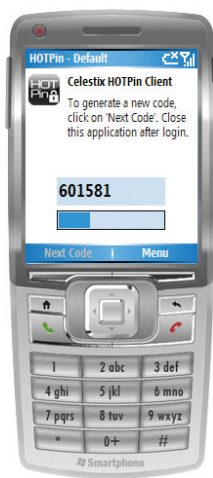
- Great for extranet partners, bank customers, medical patients, and other transient users since there is no need to redistribute hardware tokens after short-term use. You can repurpose user licensing on the fly.
- Open-standard HOTP provides a higher level of trust.
- Low cost: avoid expensive hardware tokens and enjoy lower costs on server software.
- Convenience: easier to use and manage without extra hardware tokens.
- Stronger compliance with PCI, SOX, HIPPA and other regulations.
- Enable employee mobility.
- State of the art technology keeps you on the leading edge of 2FA.
- Highly interoperable with Microsoft infrastructures for reliable operations.
- On-box integration with IAG 2007 SSL VPN for fast installation and easy management.
- Total solution: Celestix is your single-point supplier for hardware, software, professional services, and support.
- Lower environmental impact: no expired hardware tokens to send to landfills



HOTPin puts OTPs on mobile phones two ways: clientless mode and client mode. In clientless mode, the HOTPin server application generates OTPs and sends them via SMS text messages to users' mobile phones or PCs. Clientless mode is perfect for users who don't have smart phones. For client mode, users download HOTPin client software to their smart phones or PCs. HOTPin client software generates OTPs directly on the smart phone or PC. The advantage of client mode is that it delivers OTPs regardless of wireless reception. HOTPin also has a Windows client you can install on PCs to deliver OTPs directly to the desktop. Here are the clients HOTPin currently supports in client mode:



HOTPin Client for RIM BlackBerry



HOTPin Client for Windows Mobile 5/6, Pocket PCs



HOTPin Client for Apple iPhone



HOTPin Client for Standard Win32 Software Devices

Celestix North Star™ Professional Services

Celestix can provide engineering services to help you customize HOTPin and IAG solutions to your specific deployment challenges.

For more information visit: www.celestix.com/products/hotpin.html or contact sales@celestix.com.

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