

European Mobile Phone Retailer, the Carphone Warehouse, Secures Employee Remote Access with ActivIdentity Authentication Solutions

THE Carphone Warehouse

"The whole point of deploying the ActivIdentity solution was to enable secure remote access for our Carphone Warehouse employees – ensuring their mobility and access to network resources from anywhere. We've achieved that objective with ActivIdentity tokens and the ActivIdentity 4TRESS AAA Server. As a business, we're now confident in the knowledge that the user will only see what we have given them rights to – and that they can access their information at anytime in a secure, reliable, and convenient manner."

– **Tatjana Relkovi**, Network Analyst, *The Carphone Warehouse / ISE-NetSolutions*


London-based Carphone Warehouse Group PLC is Europe's leading independent mobile communications retailer. The company operates across 10 markets and employs over 8,000 people in more than 1200 stores and via online outlets throughout Europe. Its UK market share is over 22 percent. The Carphone Warehouse operates in other European markets as The Phone House, including Belgium, France, Germany, Ireland, the Netherlands, Portugal, Spain, Sweden and Switzerland.

Since 1989, the core business has been to provide reliable and innovative mobile communication products and services – accompanied by a commitment to the highest levels of customer support. Consistent with that philosophy, the company seeks to constantly arm its large workforce with productivity tools that give them maximum business mobility and agility, while simultaneously protecting corporate assets by securing dynamic communication and the company's IT infrastructure. Employees and partners require direct access to leading computing applications, online and retail sales and inventory data, and secure email. ActivIdentity meets those stringent criteria with easy-to-use token authentication that verifies employees and partners are who they say they are for streamlined remote access to network systems and services.

The Challenge

Finding an Easy-to-Use and Cost Effective Secure Remote Access Solution

With its leading position among mobile phone and telecom retailers, The Carphone Warehouse is in constant pursuit of solutions that maintain its competitive edge and innovation. The previous "dial-up" remote access system that was in place for many years had proven to be costly to the company due to mounting traditional phone line expenses, and frustrating to users due to limited bandwidth for supporting access and



transfer of large files. Also, the sheer magnitude and complexity of managing systems for a diverse and distributed workforce to remotely connect to IT systems presents a daunting infrastructure challenge, and led to a desire for a solution that would not require the installation of client software on user PC's and laptops across the various corporate offices and 1200 store locations. Acknowledging the unacceptable risk posed by weak and insecure static passwords (username-password) for the enterprise, the company sought a better way of validating the identity of users prior to granting mobile access. In addition, to guard against unauthorized access and malicious activity, The Carphone Warehouse was looking for a digital identity solution that would reduce the administration time for managing thousands of distributed token users, and that would enable the company to know with certainty who is accessing the network from any location, at anytime. Those employees include management teams responsible for driving business at corporate, regional and branch levels as well as IT-focused staff – all of whom are users requiring fast and seamless access to databases, secure email, the Internet, sales applications, company data, and systems.

The Solution

ActivIdentity Authentication Software and Keychain Tokens for Identification of Users for SSL VPN Access and Maximum Employee Mobility

The Carphone Warehouse decided to deploy a Virtual Private Network (VPN) in combination with strong token-based authentication of users to meet its remote access needs. They specifically chose a Netscreen Secure Socket Layer (SSL) VPN solution with Citrix server-based computing, over a traditional IPSec VPN, as a more secure and more accessible solution for employees and partners. Unlike IPSec VPN's, the web-based interface of the SSL VPN, coupled with strong security from ActivIdentity, truly enabled employees to connect from any company office, retail store locations, from home, and the growing number of hotspots and web cafes. Remote users logon to the system using ActivIdentity Tokens with any PC or computing device through a web browser – and are transparently authenticated at the backend with ActivIdentity 4TRESS™ AAA Server for Remote Access software for:

- Versatile end-user SSL VPN access from any location or device to any client / server, web, or file sharing resource.
- Lower total cost of ownership through reduced administration integrated with LDAP directories, reduced expenses for password change policy enforcement, and no dependence on costly leased tokens.

- Increased security of strong authentication that eliminates vulnerabilities of static passwords as the weakest link in the chain of security – and the risks from reusable passwords that are easily hacked, guessed or stolen by unauthorized parties

After thorough piloting and evaluation, The Carphone Warehouse came to the conclusion that other solutions on the market for strong authentication were less efficient and more costly due to dual administration requirements. In contrast, with ActivIdentity there is no need for the addition of a separate user database for managing digital identities on top of the existing corporate systems. ActivIdentity 4TRESS AAA Server for Remote Access integration with Microsoft® Active Directory® met The Carphone Warehouse's requirements for centralized management, a single point of administration, and streamlined provisioning of user accounts – and also supported the planned migration from Windows® 2000 to Active Directory. As a major consumer retailer, the company has a large number of external users made up of manufacturers, vendors, and IT product suppliers. The Carphone Warehouse simply adds those third party individuals into Active Directory, based upon a designated role that defines what content and applications they can access. From the user perspective, authentication "On-the-Go" is made possible with ActivIdentity's Keychain Token that solves the problem of weak static passwords in a portable strong authentication device. ActivIdentity, two-factor authentication validates employee identity via something the user has (the token) and something the user knows (their PIN code) in order to produce a secure one-time-use password. As its dynamic password solution, The Carphone Warehouse chose the compact form factor that conveniently attaches to the user's keychain. Unlike other keyfob tokens on the market, the user simply types their PIN into the trusted pin-pad on the device itself – instead of sending the sensitive PIN credential over the network. ActivIdentity offers the advanced security benefits of challenge / response and synchronous authentication with a patented three-variable algorithm: time, event, and secret key.

"Our employees quickly embraced the ActivIdentity security solution due to its ease-of use and the real-time remote access to what they need, exactly when they need it. From an IT staff perspective, I've experienced firsthand that the solution is easy to implement and that our investment in ActivIdentity directory-integrated strong authentication is future proof. ActivIdentity has proven through our stringent testing that it has best-of-breed technology, with the vision and flexibility to address Single-Sign-On and smart card-based digital ID requirements in the future."

– **Tatjana Relkovic**, Network Analyst, *The Carphone Warehouse / ISE-NetSolutions*

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About ActivIdentity

ActivIdentity Corporation (NASDAQ: ACTI) is a global leader in strong authentication and credential management, providing solutions to confidently establish a person's identity when interacting digitally. For more than two decades the company's experience has been leveraged by security-minded organizations in large-scale deployments such as the U.S. Department of Defense, Nissan, and Saudi Aramco. The company's customers have issued more than 100 million credentials, securing the holder's digital identity.