CUSTOMER CASE STUDY

DURHAM COUNTY COUNCIL

Market Sector: Local Government

Durham County Council comprises of an elected assembly of 126 councillors accountable to over 513,000 people in County Durham. 18,800 people work for the council, delivering a wide range of services, as well as representing and promoting the interests of the county in regional, national and international affairs.

CUSTOMER NEED

With almost 19,000 employees working across a variety of locations in the region, Durham County Council needed to ensure its employees could securely access the corporate virtual private network (VPN) from any location, in order to maximise the productivity of its dynamic and flexible workforce. Due to the sensitive nature of information hosted on the corporate VPN, it was essential that any employee operating outside the control and protection of the fixed network perimeter was able to do so securely.

In addition to the corporate VPN, the council’s employees also work across the Public Services Network (PSN); a unified, interconnected ‘network of networks’ designed to enable the nationwide secure exchange of information relating to public services. As the PSN provides a means of sharing potentially sensitive public service data, it was again essential that those accessing the systems, either from a remote location or from their own offices, were appropriately authenticated.

To enable its employees to access the corporate VPN and the PSN from any location, the council implemented a token-based multi-factor authentication system. It soon became evident that a solution based entirely on physical tokens was unsuitable; once the initial implementation investment was factored alongside the ongoing cost of provisioning tokens to replace those that had been lost or stolen, the overall system was deemed to be cost-prohibitive.

THE SOLUTION

To try and combat the extensive costs associated with the token-based approach, Durham County Council implemented an SMS-based tokenless solution. While the council found that this alternative was indeed more effective, costs once again began to climb due to the licensing structure of the solution’s supplier.

To address the problem, Durham County Council turned to Sapphire, Trusted Security Integrator. A national ISO 27001 certified solutions provider with a reputation built on providing secure, flexible working solutions to clients in both the public and private sectors.

Knowing that price, usability and flexibility were key requirements for the council, Sapphire recommended a multi-factor authentication solution from global network security solution provider, Swivel Secure. Having previously recommended the Swivel platform for a number of its customers requiring a similar solution, Sapphire was confident that the platform would meet the council’s evolving needs.
Swivel's multi-factor authentication solution, based on a challenge-response system, allows companies to take back control of security and protect their networks by putting the user at the heart of the authentication process; a user is sent a ‘challenge’ to which they must respond. The company has over 14 years' experience in delivering multi-factor authentication solutions to a wide variety of customers, many of which are within the public sector.

Durham County Council elected to implement the Swivel authentication platform with the additional security level provided by its patented technology, PINsafe. The PINsafe protocol generates a one-timecode (OTC) each time a user needs to login, thereby ensuring that only authorised users can access the council's corporate network and the PSN.

Swivel has been designed to provide its customers with a wide range of deployment options which enables easy and rapid integration within all common network environments. With staff previously responding well to the simplicity of an SMS-based system, the council opted to configure the Swivel solution to utilise SMS once again. Despite the popularity of SMS, however, staff were frequently frustrated when they needed to access the network from a location that didn’t have a mobile signal; they were unable to gain access to the services they required until a signal could be re-established and the required SMS received.

The council therefore also opted to configure its system with tokens, thus allowing staff to choose the option that was most convenient, depending on their location and circumstances.

The council provided the following reasons for selecting the Swivel authentication platform and PINsafe protocol:

- Lower total cost of ownership when compared to other tokenless and token-based multifactor authentication solutions.
- Greater flexibility in terms of deployment methods which enabled the council to continue with its current working practices, thereby minimising any disruption for employees.
- Its ability to allow employees to securely access both the corporate network and the PSN.
- The rapid scalability of the product; allowing new users to be quickly and easily provisioned.
- The responsiveness of the Swivel support team which, alongside Sapphire, is able to resolve issues quickly and effectively.
BUSINESS BENEFITS

Since installing the Swivel authentication platform, the council has enjoyed a number of benefits, including:

• **Rapid provisioning of new users to access the network**
  Swivel allows the council to take control of provisioning new users to the system, therefore the speed at which new users can access the corporate network has increased productivity.

• **Authentication appropriate to access rights**
  As a flexible authentication platform, Swivel enables Durham County Council to assign an authentication level to each member of staff, meaning only authorised employees can access certain areas of the corporate network.

• **Improved customer service**
  Employees working remotely are able to access the corporate network and PSN quickly, securely and conveniently, helping them to provide a seamless service to the people of Durham, wherever and whenever they need it.

David Lannin, Director of Technology, Sapphire

“We have worked with Swivel for many years and have always been impressed with the company’s flexibility when it comes to meeting customers’ exacting standards. Durham County Council is another example of how the company exceeds expectations and delivers an outstanding service. We are very confident in the solution and look forward to continuing our work with Swivel into the future.”