



Caerphilly implement fully scalable security architecture

The requirement:

Caerphilly County Borough Council stated a requirement for a high performance, fully scalable security architecture to meet the demands of a large user base, whilst re-using and integrating equipment from their existing environment and conforming to the principles of BS7799 and Best Value practices.

The Solution:

Enline plc carried out a comprehensive study and review involving key council IT staff and produced detailed recommendations.

The proposed security environment used the principles of defence in depth and guidelines defined in Infosec Manual M and BS7799. The architecture provides high performance double bastion Firewall and VPN solution for Council-critical applications. The external firewall layer will ensure secure connections and load balancing between multiple Internet Service Providers to ensure continuous network connectivity, whilst the internal layer provides additional resilience.

Each layer of the architecture utilises components from varied manufactures to maximise resilience.

The Council Web site was moved to in-house hosting and in order to provide high levels of resilience, clustered for automatic failover. All schools within the county (100 plus) access the Internet via this central architecture, with the level of traffic across this link being considerable. Finally, full integration to existing content checking and Antivirus products was carried out.

The service provided by Enline plc included Comprehensive scoping and recommendation review, implementation, full training in the use and on-going management of the architecture and comprehensive documentation. All resources and tasks were managed by a dedicated Project Manager, using PRINCE2 methodologies.

During the initial review, Caerphilly County Borough Council arranged for the final environment be independently Penetration Tested to ensure the overall solution had been implemented in line with best practice. The report produced by the Test Authority did not identify any issues with the architecture and component implemented and ultimately the Project was completed within budget and timescales.

