



Solution at a Glance

Install Check Point firewall utilities in all systems in an extended environment

Secured by



Check Point

Data Storage and Business Continuity

Security

Horizon, Managed IT Services

IP Communications

Network Infrastructures

Business Systems Management

Help Desk "On-Demand"

Business Solutions

(ACTION, Microsoft Business Solutions, Oracle)

Technical Service and Support

IT Outsourcing

Training

The organization

The City of Montréal public services, which includes the police and fire departments and city management, share a network of critical data that is managed by the Service de police de la Ville de Montréal (SPVM). Their goal was to achieve high network availability and data integrity using a fully secure redundant architecture.

The challenge

The SPVM computer system consists of a complex architecture that includes some 20 interfaces and a variety of networks and communication protocols, which increases the risk of errors and failures, and complicates the installation of a secure redundant architecture. In light of the many potential sources of communication problems, installing robust and effective firewall technology in this type of environment is an extremely detailed task. Another factor that made the challenge even more complex was the migration of the system to a new environment, where the reliability of operations had yet to be tested.

The solution

ESI Technologies started by analyzing the installation setting and developing a highly detailed demo model that carefully defined each phase of the project. ESI then reproduced in the lab the redundant architecture environment that SPVM wanted to create, by installing the same telecommunications equipment the police use in order to configure the integrated system. This enabled all telecommunications to be tested prior to deployment within the SPVM network.

Both environments were required to update themselves automatically and simultaneously, with no time lag, and network bandwidth priority had to be given to the city's public services data. ESI meticulously tested all communication channels that City of Montréal public services might use, while adhering to all transmission and access rules that apply to the organization's 20-odd networks. This stage was crucial for preventing any limitations, failures, or errors in both the base system and the mirror system once they were installed in the new network.

Results

The new secure IT facilities used by SPVM public services have remained fully functional and effective, without the slightest malfunction. ESI succeeded in securing these extremely critical facilities and synchronizing them in real time with a mirror site that is located several kilometres away, while migrating the entire system to more advanced technology. The system has been up and running, without the slightest incident, delay, or failure, ever since it was put into operation by ESI and SPVM's IT department.

About ESI

ESI Technologies est un leader canadien dans le domaine de l'intégration d'infrastructures critiques et le développement de solutions logicielles. ESI se spécialise dans le développement, l'intégration et le support de solutions technologiques qui assurent la disponibilité, la sécurité, la gestion et la performance de vos données, applications et réseaux critiques. De plus, ESI développe des applications logicielles sur mesure adaptées aux besoins spécifiques de ses clients et offre également des solutions d'affaires intégrées telles qu'Action, Microsoft business solutions et Oracle. ESI possède des bureaux à Montréal, Toronto et Québec.

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