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\*Ultra secure is the security gold-standard that only The Bunker can deliver. You'll be secure from unauthorised intrusions and urban disasters and confident of meeting progressive regulatory requirements.

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## CASE STUDY - APACS

Managed Services for Payments Trade Association

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### The Brief

APACS, the UK trade association for payments and for those institutions that deliver payment services to customers, approached The Bunker when they needed a highly secure, robust and fully redundant infrastructure to run a new Fraud Intelligence Sharing System. Because of the nature of the system, security was of particular importance as was the need for high availability.

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### Our Solution

All Bunker-based solutions are protected by The Bunker Protocol<sup>1</sup>, our proprietary, ultra\* secure process framework.

The Bunker designed a bespoke solution employing diverse hardware and software platform expertise. The fully managed solution consists of a high availability primary system with a secondary failover system housed in two of The Bunkers geographically separated Data Centres. The system seamlessly integrates Hardened Microsoft servers with Unix servers demonstrating a convergence of technologies and expertise from The Bunker.

Failover and load balanced front end Microsoft servers are supported by clustered and redundant Microsoft SQL database servers. All of the servers have been built to the Bunkers stringent hardening procedures to provide extra security and resilience. Key components of the system have been built using OpenBSD and FreeBSD providing security, manageability and reporting.

Client remote access security is provided and managed by The Bunker, working hand in hand with Cryptocard Inc, utilising Secure Access Tokens and CRYPTO-MAS Managed Authentication Service delivering Secure Two-Factor Authentication.

At all stages of the Project The Bunker have advised on in-depth security and technical issues and worked side by side with all levels of the APACS team.

Both Primary and Secondary systems were delivered on time, enabling UAT to be carried out, and some further development of the system before the system live date.

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### Benefits

- High availability Ultra\* secure solution
- Dual site redundancy
- DR and UAT platforms combined delivering cost benefit
- Microsoft and Open Source technologies for best of breed solution

### Products/Services

- Architecture design
- Managed Services
- Managed Backups
- Security consultancy
- Monitoring
- Intrusion Detection System
- Secure remote access (2FA)

### Technology

- OpenBSD
- CARP and Pfsync
- Open VPN
- Intel Xeon
- AMD Opteron
- Quad Core Technology
- Microsoft Windows Server 2003 (Enterprise Edn)
- HP Switches
- Microsoft SQL Server 2005 (Enterprise Edn)
- FreeBSD
- Tiny CA
- Symantec Norton Antivirus
- Symantec Backup
- LTO2 Tape drive
- Nagios
- SNORT
- CACTI
- BASE
- Cryptocard 2FA

## Addendum

<sup>1</sup>All Bunker-based applications are protected by [The Bunker Protocol™](#), our proprietary, ultra\* secure process framework that includes:

- **Military-Grade Data Centres** – in our underground bunker outside the M25 in Kent and our mirror facility in Newbury, both protected by integrated processes for physical, digital and human security
- **Hardened Source™** – Our unique combination of open source and proprietary technologies built and integrated in-house from the source code up
- **Tierless Support™** – no ‘first tier helpdesk’; tierless support – direct 24/7 access to qualified hands-on support teams

You will have access to our network operations centre, staffed 24/7 by both technical and security staff. Systems Administrators, familiar with your platform will be available on a 24/7 basis.

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