The Challenge
As the move to cloud based computing continues to gather pace, problems exist for those who demand security and high-performance at the desktop. Often, in a conventional ‘thin-client’ based architecture, performance and security are compromised to such an extent that a cloud based solution is simply impractical. While issues of data security can be addressed in a number of ways, the only way that a ‘thin-client’ can be made to handle the graphics throughput required in some applications is to add additional processing power and upgraded graphics capability. By the time all of this has been done, the client can no longer be regarded as being ‘thin’ and the argument for retaining a standard desktop computer becomes hard to resist.

The Solution
Working in partnership with Prolinx, Bohemia and Pitch, Amulet Hotkey offers a combination of desktop and server-side technologies that deliver an HLA compliant, cloud based model without compromising security or graphics performance. In fact, the PCoIP® technology used in these solutions works to enhance security and can drive multiple, high-definition monitors at 60 frames per second using only a single IP connection. Datacentres can be situated in geographically remote locations, hundreds of kilometres from the desktop and still provide a low latency, ‘pixel perfect’ computing experience for the user.

Solution Benefits
- HLA compliant environment.
- Uncompromised graphics performance at 60 frames per second (fps) across multiple monitors.
- Uncompromised data security using AES 256 and third party encryption.
- Fibre and copper IP connections fully supported.
- A state-of-the-art range of server-side hardware options to suit specific requirements.
- The entire system managed and delivered by Prolinx - recognised experts in the field.
- Standard zero client desktop deployments mean simplified spares holdings, ease of maintenance and complete hardware lock-down.
- Perfect for high-end simulation.
- COTS solution - tried and tested.

PROLINX
Secure, Simplify, Collaborate

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At The Desktop
Amulet Hotkey have developed the ideal mobile Zero Client that has been engineered into a rugged unit with an integral mouse, screen and keyboard: The DXZT ZeroTop®. This is the ideal solution for training, home workers, remote locations and anyone who travels. It delivers the ease of use and flexibility of a high-end laptop but without any of the disadvantages. There are no hard drives to protect, no operating system to secure and no locally saved data to be read if the device is lost or stolen. The ZeroTop is a zero risk solution.

Enhanced security
Unlike other remote computing solutions, the ZeroTop has no onboard memory and holds only pixel data for the most recent video frame in a volatile frame buffer. Once powered off, this data is lost and cannot be copied or read. The system is therefore totally secure because sensitive data remains in the remote datacentre.

Superior performance
The PCoIP protocol used in this solution always builds to a loss-less image. There are no artefacts and real-time video at 60 frames per second is handled with ease even on multiple monitors.

Remote or Locally Deployed Host
An integrated back-end solution consisting of state-of-the-art PCoIP enabled workstations and servers in a variety of form factors is available for remote or local deployment. With HLA compliance, hardware graphics and PCoIP acceleration, together with class-leading simulation software, this is the perfect solution for applications that require superior graphics performance and complete data security.

Enterprise Architecture
As business and technology become ever more complex and fast changing in today’s environment, architecture allow us to manage the increasing complexity and uncertainties that exist. By providing a clear and consistent view of the parts of a system and how these work together within the business, and by engaging and communicating with the various stakeholders, architecture can ensure that the systems fully support the business goals and vision.

We deliver these secure, profitable and innovative architectures through experience, partnership and our proven architecture frameworks.

Integration Architecture
Prolinx have designed an orchestration engine that intelligently allows resource management of the zero client technology in an adaptive and scalable integration architecture.

Key Architectural Principles
- Use of commodity hardware
- Requirements based change
- Control technical diversity
- Supports high availability and scalability security

For more information contact: Simulation@prolinx.co.uk

Other Secure Zero Client options
Amulet Hotkey designs, develops and manufactures a range dual and quad video head zero clients in its UK based facilities. These devices are already available in TEMPEST variants and will soon have full CPA accreditation. All are available with copper or fibre network connections.