Cloud Client-Computing solutions for government

Increase security and reliability while lowering costs

Government Solutions

Federal and government agencies rely on IT solutions to help them achieve their mission goals. When it comes to the support of end points, security becomes paramount especially given the need for greater mobility and support for a geographically distributed workforce. Although many commercially-available approaches can be used by government, agencies have requirements that require an approach that's specific to their needs.

Control costs

Government is always under pressure to control costs and improve turnaround times as well. With traditional PC architecture a significant portion of an IT budget goes to managing client PCs. For instance, an average enterprise spends 30 to 45 percent of their IT budget on desktop support[1]. Every dollar saved in operational costs is one more that can be applied to strategic programs.

Protect data and applications

The need to prevent the intrusion of malware and viruses requires that the agency purchase and keep anti-malware programs up to date, implement patches and lock down systems to restrict unauthorized client applications. Managing all of this takes time and resources which could be better applied to ways to help meet their mission, rather than simply 'keeping the lights on'.

Support the secure mobile workforce

Mobility adds a level of complexity to securing end points, as access to data and applications must be tightly controlled. Efficiently supporting work-from-home and 'anywhere' access is a strategic priority for many agencies and government entities today.

Wyse GOV: agency-secure VDI that's easier to manage than PCs

Desktop virtualization is one way to help confront these challenges and better manage the endpoints. We holistically harden Dell's Cloud Client-Computing

desktop virtualization solution architectures to meet stringent government security requirements, those put forth by the National Institute of Standards and Technology (NIST) and the United States Department of Defense (DoD). This process involves thousands of individual modifications to the out-of-the-box systems at the hardware, software and application layers.

To address the security and vulnerability concerns that Government agency IT managers face, Dell leverages currently accredited components, partners and industry experts to ensure their requirements are met. The Wyse GOV desktop virtualization solution also incorporates AppSense® and TrendMicro® into the base platform and supports either Citrix® XenDesktop® or VMware® Horizon® brokers.

The Wyse GOV solution provides the full capabilities and benefits for VDI – including the ability to centrally manage PCs, data and apps – while also increasing security to meet relevant standards.

Wyse GOV: Raising the bar for security

In addition to supporting multi-factor authentication with Personal Identity Verification (PIV) cards, Wyse GOV applies DoD STIGs to harden the host, hypervisor, core services and databases. This hardening process simulates a MAC III classified environment and helps ensure that the core foundation of the solution represents the government environment. With this secure foundation in place, additional modules can be added to form a complete, holistically secure, scalable and reliable solution.

[1] The Road to Desktop Optimization http://www.microsoft.com/en-us/download/details.aspx?id=8827

Wyse thin clients for government solutions

Model	User Type / Workload	Wyse ThinOS OS	Linux OS	Windows Embedded OS
Wyse 3030	**Task/office worker -** Ideal for peripheral support and productivity			✓
Wyse 3040	**Task/knowledge worker –** Highly flexible thin client that can be placed almost anywhere	✓	✓	
Wyse 5040 AiO	**All-in one for offices & kiosks**: Elegant customer facing & highly secure	✓		
Wyse 5060	**Office-based thin client**: Highly secure and easy to manage for knowledge worker activities	✓	✓	✓

Wyse Thin Client Highlights

Secure by design: Wyse ThinOS-based thin clients are virus and malware resistant with an un-published API and zero attack surface. Support a robust 802.1x wired and wireless authentication spectrum of security protocols: from all EAP connection types to robust LAN based authentication including EAP-TLS.

For all endpoints running Windows, the optional Dell Threat Defense anti-virus software offers the ultimate proactive malware protection.

Fast: Boots in under 10 seconds to secure desktops based on a variety of authentication methods, including single sign-on and multi-factor authentication.

Easy to manage: Covers the everyday basics so you don't have to. IT can get out of the desktop hardware maintenance business.

Excellent end-user experience leveraging HDX, RDP, PCoIP and Blast Extreme protocols: RDP support and a custom Citrix receiver from Dell, developed in collaboration with Citrix, enable a rich end-user experience based on the latest HDX feature set, and outstanding ICA and RDP performance. Select thin clients for VMware also support Blast Extreme and PCoIP.

"Citizens get the same high level of service day after day because our personnel have the support of a very reliable solution. There hasn't been a failure with our Dell thin clients since we deployed them more than 18 months ago."

François Madjlessi
CIO
Mairie de Vincennes

Key Benefits

Context Awareness provides the power to set data access and permit operations based on an individual employee profile, as well as the location and type of endpoint device.

Real-time User Personalization/Roaming creates a one-to-one experience on a one-to-many non-persistent infrastructure, helping save money on the infrastructure needed to run an environment.

Increase mobile device security through multi-authentication that enables true any-device, anywhere mobility while helping ensure that IT controls where data travels.

Contextual environment hardening and application mapping applies STIGs or other baseline controls around the visible menus, operations and shortcuts that users may access from their virtual desktops.

Resources

- Press release – US Department of Justice selects Dell XC HCI for VDI solutions worth $28M
- Case study – Vincennes City Council
- Case study – Legal property registry for the State of Morelos, Mexico
- Whitepaper – Protecting Government Information While Reducing Complexity and Ongoing Cost