

HPE ProLiant Easy Connect Edge for Remote and Branch Office (ROBO)

HPE ProLiant Easy Connect is transforming edge computing for remote offices and branches. It is purpose built for the edge, delivering high reliability and managing risk in every branch. With Zynstra's cloud management and virtualization technology, powerful automation capabilities centrally manage thousands of distributed sites at a fraction of the cost and enable customers to roll out services faster.

Key Benefits

HPE's unique edge solution for ROBO delivers bottom line innovation that drive operational efficiencies to save you costs, and top line innovation for new applications:

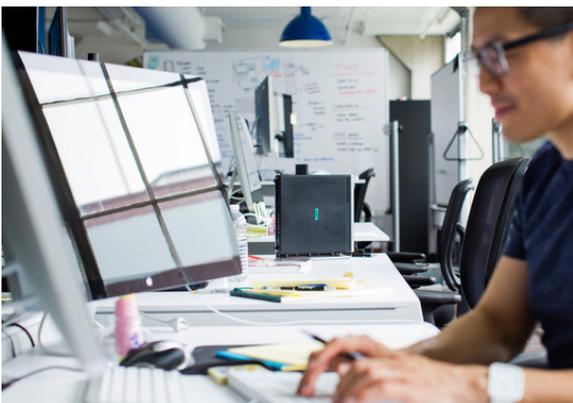
- *Edge-scale hardware and software, managed from the Cloud, which dramatically simplifies ROBO IT and reduces costs.*
- *Ability to run multiple workloads and provide a consistent platform for roll-out of future applications.*
- *Edge Servers that are self-monitoring, running hundreds of tests per hour, and self-healing, with the ability to reboot components if necessary.*
- *Pro-active monitoring, problem resolution and industry-leading SLAs, reducing your support overhead to free up your IT team to deliver strategic business value.*
- *Patching, updates and upgrades as part of the Keep Current service. It removes the need for manual patching or system management of the HCI core and infrastructure services required, while ensuring a consistent and secure system.*
- *Zynstra has achieved Tier 1 PCI-DSS certification, and has been subject to the most rigorous audit level across our software architecture, engineering practices, and operations center. This provides businesses across all sectors with confidence in the security of our products, policies and procedures*
- *Enhanced security with access privileges, data protection, and next generation firewall and intrusion prevention.*
- *Automatic provisioning, patching and configuration of hundreds or thousands of ROBO edges for fast set-up of new branches and offices.*
- *A resilient edge server with the option of high availability clustering and cloud backup services which reduces the risk of downtime, and delivers improved business continuity.*

Solving the branch IT challenge is fundamental to the business success of distributed organizations. Rising cost, security challenges and changing business models are driving the need to deliver advanced and efficient IT to those sites which don't have an onsite datacenter. As always, this must be achieved without putting further strain on already overstretched IT budgets. However, current approaches to stretch datacenter technology, adopt a cloud only approach or simply patch legacy edge computing assets, fall short in achieving this. A new strategy is needed that leverages intelligent automation to transform the economics, speed and responsiveness of your ROBO edge.

Only HPE, in partnership with Zynstra are reinventing edge infrastructure for ROBO. The HPE ProLiant Easy Connect Managed Hybrid Servers are solutions for the ROBO edge, delivering all the IT you need in one simple, unique design. Customers benefit from a solution that is managed and updated via the cloud, delivering advanced capabilities without complexity, and from an advanced, standardized technology platform across all remote sites and branches.

ROBO Challenges

Businesses with remote or branch offices that are fundamental to business success have struggled to find IT that enables them to cost effectively run the branch applications they need, while making the IT infrastructure simpler, more secure and easier to manage. Historically, they have had to put up with stretching datacenter technology to fit the edge, or trying to keep legacy on premises servers up to date.



Escalating cost/skill burden, bottleneck

Many ROBO sites have zero on-site technical support, increasing the burden on overstretched IT teams. As requirements for advanced edge applications grows, new approaches are required to reduce this burden and stop IT being a bottleneck to innovation at the edge. The ability to set-up the IT for a new branch or office must be possible in hours, not days.

Siloed, fragmented ROBO edge

The traditional remote edge infrastructure of PCs, servers and devices assembled over time can present real operational issues, and often cannot serve expanding business applications. Multiple computing appliances running multiple applications - manually managed, site by site, application by application - demands expensive and high skill systems integration and support effort. Inconsistency and equipment proliferation will inevitably result in a poor experience for the end users as IT staff struggle to remotely manage and maintain so many systems.

New client models requiring high-functionality applications

In many businesses, from financial services, to health services, and government offices, branches are the prime client interaction point, where the business and the company meet face to face, and where client satisfaction and loyalty is built. This increasingly requires advanced client service applications with local processing capabilities. Inflexible IT systems make it difficult to quickly deploy new applications across branches in response to rapidly changing client demands. If every branch office needs to be configured and deployed separately, then costs are inevitably high and delays inevitable.

Always behind: Unsecure, missed patches

The challenge of manually keeping edge systems up to date and secure with the latest patches and upgrades across many distributed and often remote sites is enormous. The edge is a hostile environment, and you need to be up to date to minimize risk. Massive security risks arise from remote systems not being kept up to date.

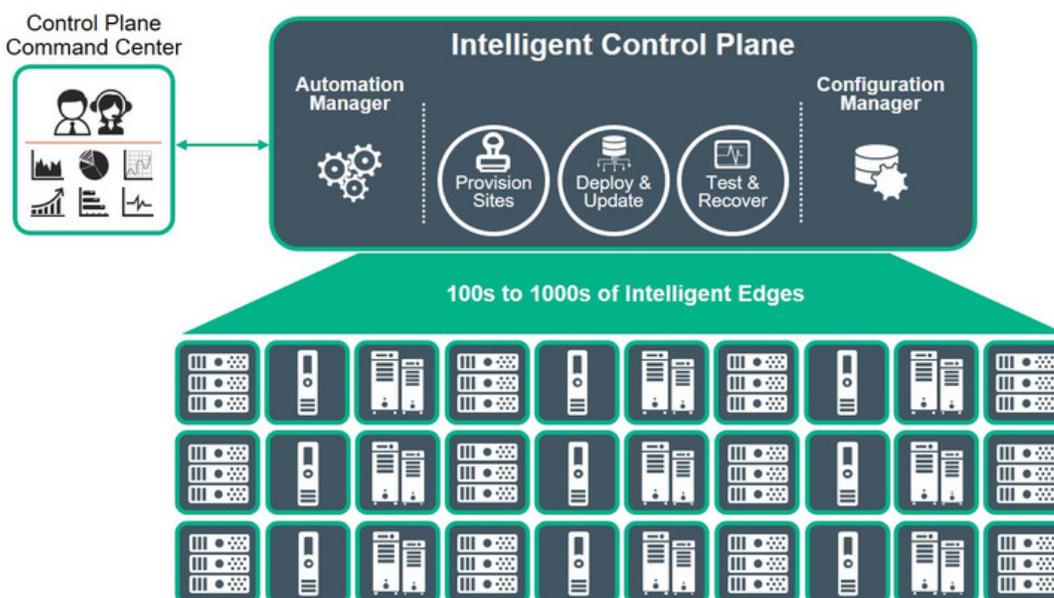
ROBO Solution

HPE ProLiant Easy Connect is comprized of two integrated components:

The Intelligent Control Plane enables the provisioning, management, control and updating of hundreds or thousands of servers and server workloads across your complete distributed estate. It simplifies and accelerates what would otherwise be complex IT tasks, while ensuring a consistent, secure IT environment in every branch or office.

The Intelligent Control Plane makes sure that everything is running smoothly, and if you roll out a new site, it is delivered as it is supposed to be. It makes sure that all patches and updates are automatically applied and is continuously tested to ensure everything is running correctly.

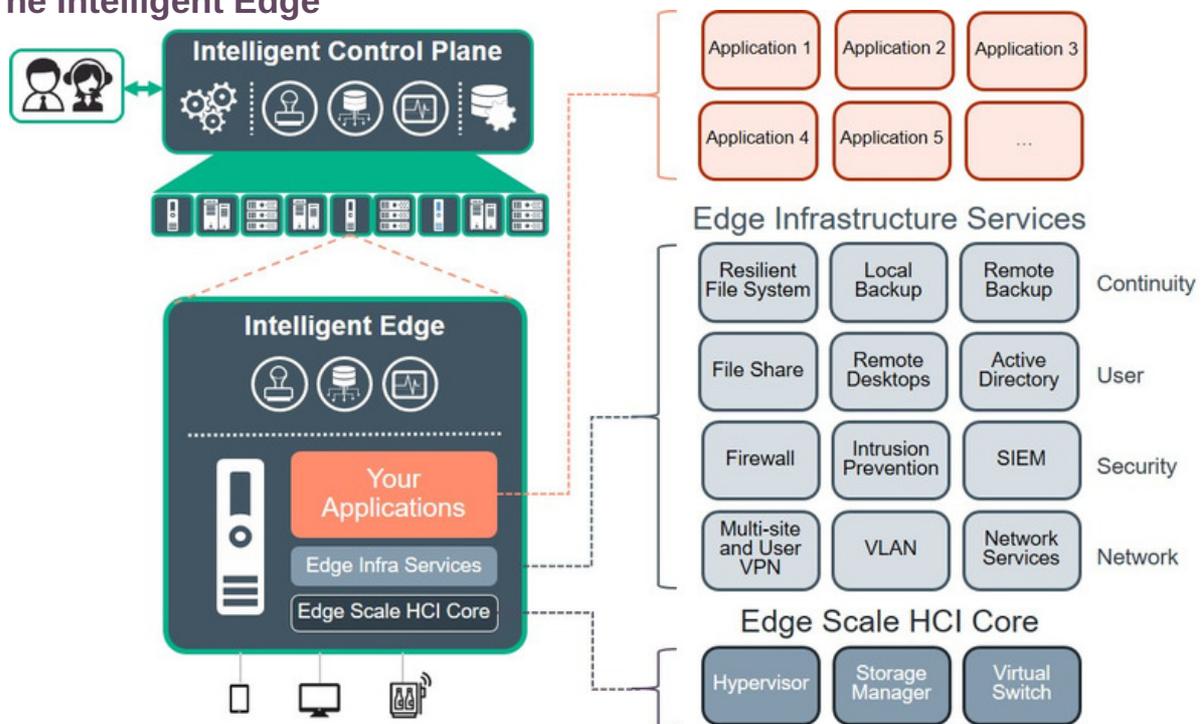
The Intelligent Control Plane



The Intelligent Edge is a virtualized server located in your remote branch or office. It's an edge-scale, hyperconverged core, comprising tightly integrated compute, storage, networking, and infrastructure services. It provides a virtualized platform for in-branch applications and provides infrastructure services such as file management, firewall, user management, secure networking and system back-up.

The Intelligent Edge server is available in a number of hardware configurations, each right-sized for the ROBO environment. Available in small form factor servers, and deployable in single or dual-node configurations, it improves on cost, space and environmental needs, compared with traditional datacenter-based hyperconverged technology.

The Intelligent Edge



The combination of an Intelligent Control Plane and Intelligent Edge replaces the need for multiple server and storage devices on-site, while ensuring the full lifecycle of the server and its application can be managed through a single Cloud-based service.

Key Features

The Command Center

The cloud-based operational environment delivering monitoring and management capabilities across the edge estate, providing a centralized control point across all edge servers.

Automation Manager

Part of the Intelligent Control Plane, Automation Manager governs new site provisioning, patching, updating, backup and numerous other processes. Automation Manager simplifies what are normally manual, complex IT configuration tasks, ensuring IT remains consistent, secure and compliant throughout its lifecycle. Patches and feature updates are rolled-out using automated procedures that test, stage and then incrementally deploy updates across multiple sites. Any issues identified by the updates result in roll-back of affected sites and pauses the update process for pending sites, minimizing the otherwise common risk of downtime due to incompatible software updates.

Configuration Manager

Configuration Manager is the centralized database of edge servers across all sites. Server and service configuration is managed and maintained in the Intelligent Control Plane, rather than being a simple 'audit' of the local state of each server. This ensures consistent provisioning of new servers and services across ROBO sites, and removes the risk of configuration drifting away from the optimal design over the server's lifetime. With Configuration Manager, new branches, offices and applications can be pre-configured before roll-out, even before a server is deployed on site. This significantly reduces the complexity and time spent on-site configuring servers. Once operational, servers and IT services remain under the control of Configuration Manager. Critical settings, if modified locally, will be checked and if necessary reverted by Configuration Manager to ensure the correct on-going operation of the ROBO site's IT.

Edge Scale HCI Core

Replacing the need for datacenter scale hyperconverged solutions, the Edge Scale HCI core delivers virtualized compute resources and simplified storage provisioning.

The Edge Scale HCI Core is designed specifically for the needs of branch payloads and is optimized to deliver reliability and performance on single or dual-node server deployments.

Edge Infrastructure Services

Hyperconverged solutions are designed for the datacentre, and deliver only virtualization, without any of the critical infrastructure services required by a remote site.

Our Intelligent Edge servers include the option to deploy an array of infrastructure services as part of the automated new site provisioning. Business continuity, end user, security and networking services can be deployed quickly and efficiently, fully integrated with the Intelligent Control Plane's management and security features.

Each service is designed for edge scale, providing the right configuration, performance and optimized footprint to make the most of the local server's resources.

Your Applications

Modern branch offices are running an increasing number of applications locally. These include office and staff admin software, advanced client service software, advanced graphic and design applications, and back office processing systems. And increasingly, these applications must be delivered locally, with high capacity, low latency compute resources. Custom applications are deployed in to Windows Server and Linux virtual machines (VMs) running on the edge server. VM configurations are maintained by Configuration Manager and can be rapidly rolled out to sites thanks to Automation Manager. VMs benefit from the performance, reliability and security of being deployed on the Intelligent Edge, while your IT team have full access to manage their configuration and lifecycle.

The HPE – Zynstra Partnership

In April 2016 Zynstra announced a global agreement with Hewlett Packard Enterprise (HPE), under which HPE package Zynstra virtualization and cloud management software as a key part of its HPE ProLiant Easy Connect Managed Hybrid Solution.

About Zynstra

Zynstra is a software company formed by experienced technology and business entrepreneurs. The company has a track record in creating enterprise grade software, and delivering it into successful operation inside some of the most complex and rigorous IT organizations in the world. Zynstra is the winner of the 2015 IT Industry Awards for infrastructure innovation of the year.

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