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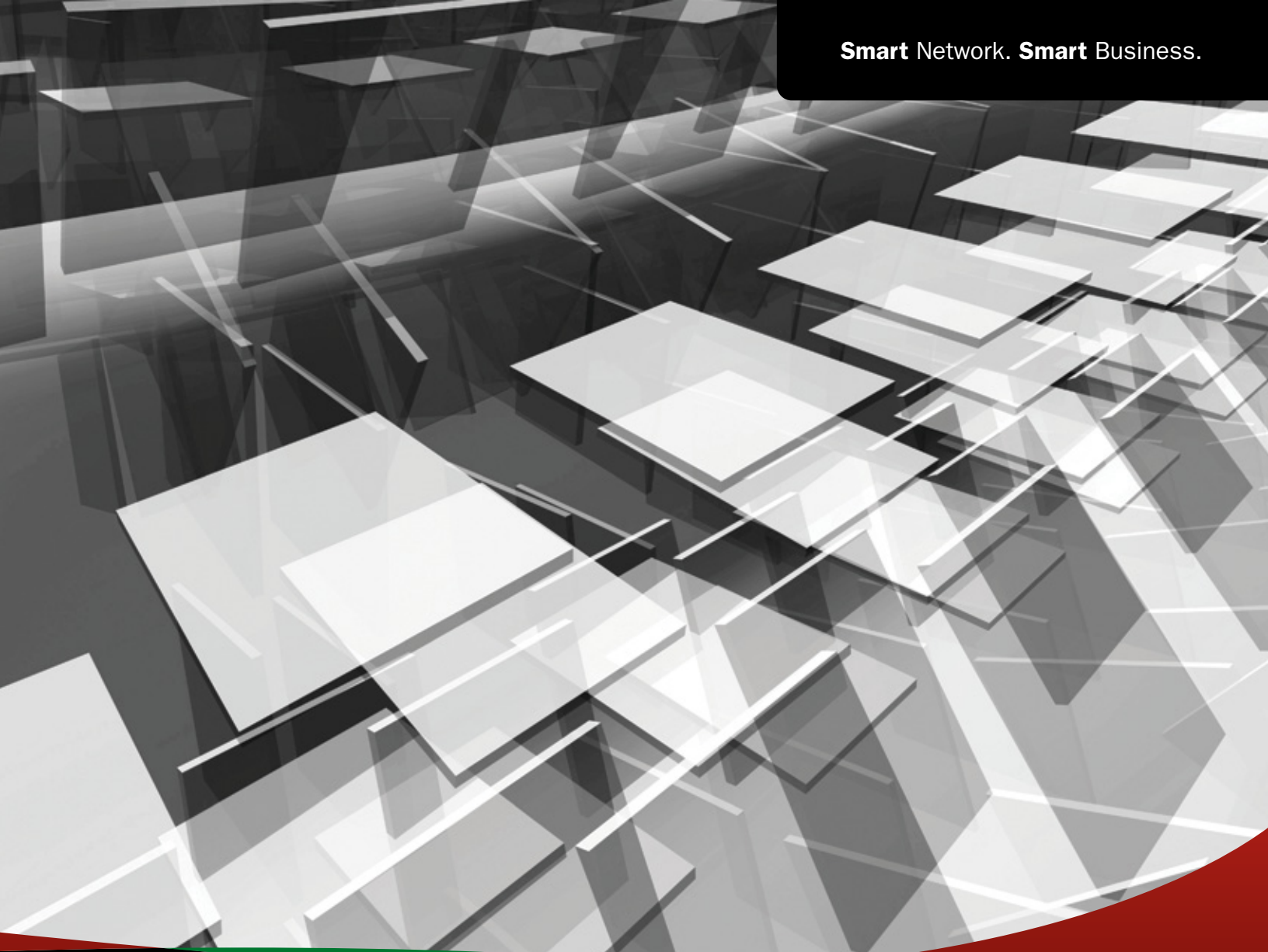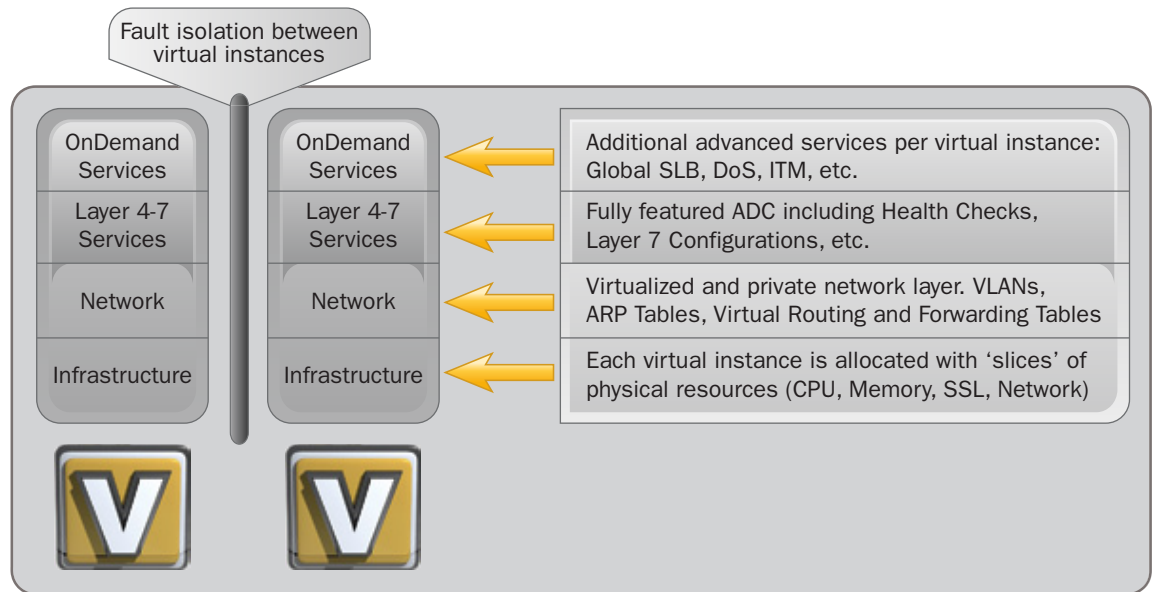
ADC-VX

Radware's ADC-VX
The Agility of Virtual; The Predictability of Physical

ADC-VX™ is the industry's first Application Delivery Controller (ADC) Hypervisor that runs multiple virtual ADC instances on a dedicated ADC hardware, Radware's OnDemand Switch platforms. ADC-VX is designed from the ground up to enable organizations to consolidate their ADC hardware devices without compromising **resiliency** or performance **predictability** of their ADC services — resulting in significant savings of hardware costs and operational expenses. Additionally, ADC-VX provides the **agility** and the **simplicity** that is required in the dynamic, ever-changing virtualized data center, driving faster deployment of new services and better alignment of ADC services with frequent configuration changes.

Fault isolation between virtual instances

OnDemand Services	OnDemand Services	Additional advanced services per virtual instance: Global SLB, DoS, ITM, etc.
Layer 4-7 Services	Layer 4-7 Services	Fully featured ADC including Health Checks, Layer 7 Configurations, etc.
Network	Network	Virtualized and private network layer. VLANs, ARP Tables, Virtual Routing and Forwarding Tables
Infrastructure	Infrastructure	Each virtual instance is allocated with 'slices' of physical resources (CPU, Memory, SSL, Network)

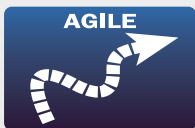**ADC-VX Hypervisor**

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Resilience & Complete Isolation

Radware's ADC-VX is designed from the ground up to ensure complete fault isolation, network isolation and management isolation between neighboring virtual ADC instances. By providing this unique isolation architecture that is similar to dedicated physical ADC devices, Radware ADC-VX eliminates the risks involved with consolidation and physical to virtual (P2V) migration. In addition, the entire network layer is virtualized and private – including interfaces, VLANs, ARP and routing tables, which ensures that traffic is routed through isolated paths for maximum privacy.

Predictable Performance & SLA Guaranty

A unique resource guarantee mechanism ensures that each virtual ADC instance is allocated dedicated resources for its operation. This way, every virtual instance can utilize only those resources for which it was specifically allocated, resulting in predictable performance and service level agreement (SLA) guaranty for each instance. This approach completely eliminates the risks of resource starvation even under the most challenging scenarios. For example, a flash crowd event on one of the virtual instances will not affect the performance of other instances.

Full Business Agility

Instant provisioning, decommissioning and resource reallocation of virtual instances running on top of the ADC-VX drives business agility by significantly shortening the deployment time of new applications and services in the virtualized data center. Radware's ADC-VX makes it easy to reallocate resources and distribute them across virtual ADC instances, adjusting their performance and functionality to meet changing business needs.

Simple to Operate & Manage

ADC-VX Hypervisor assigns physical resources such as CPU, memory, network and acceleration resources to *capacity units*, which are allocated to the virtual ADC instances by a simplified resource abstraction mechanism. This automatic process eliminates complicated calculation and reduces human errors. In addition, the centralized management system and dashboard provide a real-time view of the virtual instances' health and resource utilization, resulting in a scalable solution that is simple to operate and manage.

Significant Cost Reduction & Accelerated ROI

Radware's ADC-VX ensures fast ROI achieved by significant CAPEX and OPEX reduction. With Radware's ADC-VX, the business needs less ADC hardware to support ADC requirements, reducing the operational costs of real estate, power, cooling and spare parts. Consequently, the ADC-VX significantly reduces product service costs compared to multiple dedicated ADC devices.

Radware's Virtual Application Delivery Infrastructure (VADI)

ADC-VX is a key component in Radware's VADI architecture which transforms computing resources, ADC and virtualization services into an integrated, agile and scalable Application Delivery Virtualization Infrastructure. It is designed to bridge across the underlying hardware resources and to cater for the various application needs in terms of SLA and performance predictability while delivering maximal agility to the application delivery space. Radware VADI transforms standard application delivery infrastructure into a virtual application delivery control plane.

Supported Platforms

The first platform to support ADC-VX is Radware's OnDemand Switch 3. Packed with four 10GE ports and 12 Gigabit Ethernet Ports, OnDemand Switch 3 reaches up to 20Gbps of throughput capacity and supports up to 28 virtual ADC instances.

Radware APSolute® Product Suite

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for nearly 10,000 enterprises and carriers worldwide. With Radware's comprehensive APSolute suite of application delivery and network security products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements – phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

Learn More

To learn more about the full range of Radware's virtual application delivery solutions or other "business-smart" offerings from Radware, email us at info@radware.com or visit www.radware.com