Cisco Enterprise WAN Solutions

By 2014	70 million **virtual desktops** will be connected[1].	More than 50% of all workloads will be processed in the **cloud**[2].	91% of Internet traffic will be **video**[3].	90% of organizations will allow work applications on **personal devices**[4].	The **security** products and services market will grow to $71B[5].
	VDI	Cloud	Video	Mobile Devices	Security
Challenges	• Virtual desktop infrastructure (VDI) end-user experience • WAN bandwidth	• Cloud application visibility and control • Cloud end-user experience	• Effect of video rollout on the network • Media survivability and troubleshooting • Slow connections and poor application experience	• Secure, flexible access from any location on any device • Consistent policy and access control	• Authentication, confidentiality, and data integrity • Threat prevention
Cisco® Enterprise WAN Solution	• WAN optimization: The networking industry's only Citrix-ready and jointly supported solutions, offered as standalone appliances (Cisco WAVE Appliances and Virtual WAAS) and integrated services on Cisco ISR G2 (Cisco WAAS Express or WAAS Services-Ready Engine [SRE] Modules) • Native Citrix XenDesktop and XenApp acceleration: Improves response times by 70%, supports 2x more VDI users, and provides up to a 60% reduction in bandwidth • Application Visibility and Control (AVC) on Cisco ISR G2 and Cisco ASR 1000: Visibility and fine-tuned prioritization of Citrix virtual desktop traffic • Cisco ASR 1000: Faster VDI delivery with high-performance routing (40 Gbps+)	• Cisco WebEx® availability features on Cisco ISR G2: Cisco Unified Survivable Remote Site Telephony (SRST) for WAN outages and videoconferencing features to reduce video bandwidth up to 30% with local video processing • Cisco ISR G2 Web Security with Cisco ScanSafe: Scalable, cloud-based web security with 99.9999% uptime • Cisco UCS™ Express SRE on Cisco ISR G2: Application survivability and hosted applications (such as Active Directory) for unexpected WAN outages • AVC on Cisco ISR G2 and Cisco ASR 1000: Visibility, performance monitoring, and prioritization for cloud services • Network Provisioning System (NPS) on Cisco ASR 1000: Network intelligence for optimal cloud-based application resources • WAN optimization: Accelerated application delivery and reduced bandwidth from public cloud-hosted software-as-a-service (SaaS) and collaboration applications	• Medianet services on Cisco ISR G2 and Cisco ASR 1000: Pinpoint video delays and jitter and test network readiness for video traffic • SIP Trunking on Cisco ISR G2: Video interconnect between businesses and customers • Cisco Unified Communications Manager Express (CME) on Cisco ISR G2: Videoconferencing with video-enabled endpoints and support for point-to-point video and audio call transcoding • WebEx® Node on Cisco ASR 1000: WebEx session traffic consolidation by up to 30% • WAN optimization: Clear congestion for more efficient live video delivery • Cisco WAVE Appliance virtual blades: Host Cisco Enterprise Content Delivery System (ECDS) for staging and distributing rich media, saving bandwidth and enhancing productivity	• Wireless controller on Cisco ISR G2 SRE: Integrated wireless for branch and home offices • Cisco TrustSec® security on Cisco ISR G2 and Cisco ASR 1000 and Identity Services Engine (ISE): Identity-based access control and enforcement • VPN on Cisco ISR G2 and Cisco ASR 1000: Secure remote VPN connectivity with IP Security (IPsec) encryption • Cisco 819 Machine-to-Machine Gateway: Corporate 3G and 4G wireless WAN network services to nontraditional IP devices (such as ATMs, vehicles, and digital signage) and micro-branch offices • Cisco WAAS appliances and modules: Optimized enterprise applications on mobile devices delivered from Citrix	• Industry-leading firewall on Cisco ISR G2 and Cisco ASR 1000: High-performance, stateful, zone-based firewalling (up to 40 Gbps on the Cisco ASR 1000) • Next-generation VPN encryption on Cisco ISR G2 and Cisco ASR 1000: Increased data integrity and confidentiality with hardware-accelerated site-to-site and remote access VPN • Cisco ISR G2 Web Security with Cisco ScanSafe: Scalable, cloud-based web security with 99.9999% uptime • Cisco TrustSec security on Cisco ISR G2 and Cisco ASR 1000: Identity-based access control and enforcement throughout the network • Cisco ASR 1000 secure platform: Protect against reconnaissance and denial-of-service (DoS) attacks • WAN optimization: Secure Sockets Layer (SSL) protection to SaaS applications while applying full optimization

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Cisco Wide Area Application Services (WAAS)
WAN Optimization Solutions

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