



# Cisco Enterprise WAN Solutions

By 2014	70 million <b>virtual desktops</b> will be connected <sup>1</sup> .	More than 50% of all workloads will be processed in the <b>cloud</b> <sup>2</sup> .	91% of Internet traffic will be <b>video</b> <sup>3</sup> .	90% of organizations will allow work applications on <b>personal devices</b> <sup>4</sup> .	The <b>security</b> products and services market will grow to \$71B <sup>5</sup> .
	<b>VDI</b>	<b>Cloud</b>	<b>Video</b>	<b>Mobile Devices</b>	<b>Security</b>
Challenges	<ul style="list-style-type: none"> <li>Virtual desktop infrastructure (VDI) end-user experience</li> <li>WAN bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>Cloud application visibility and control</li> <li>Cloud end-user experience</li> </ul>	<ul style="list-style-type: none"> <li>Effect of video rollout on the network</li> <li>Media survivability and troubleshooting</li> <li>Slow connections and poor application experience</li> </ul>	<ul style="list-style-type: none"> <li>Secure, flexible access from any location on any device</li> <li>Consistent policy and access control</li> </ul>	<ul style="list-style-type: none"> <li>Authentication, confidentiality, and data integrity</li> <li>Threat prevention</li> </ul>
Cisco® Enterprise WAN Solution	<ul style="list-style-type: none"> <li>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)</li> <li>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</li> <li>Application Visibility and Control (AVC) on Cisco ISR G2 and Cisco ASR 1000: Visibility and fine-tuned prioritization of Citrix virtual desktop traffic</li> <li>Cisco ASR 1000: Faster VDI delivery with high-performance routing (40 Gbps+)</li> </ul>	<ul style="list-style-type: none"> <li>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</li> <li>Cisco ISR G2 Web Security with Cisco ScanSafe: Scalable, cloud-based web security with 99.9999% uptime</li> <li>Cisco UCS™ Express SRE on Cisco ISR G2: Application survivability and hosted applications (such as Active Directory) for unexpected WAN outages</li> <li>AVC on Cisco ISR G2 and Cisco ASR 1000: Visibility, performance monitoring, and prioritization for cloud services</li> <li>Network Provisioning System (NPS) on Cisco ASR 1000: Network intelligence for optimal cloud-based application resources</li> <li>WAN optimization: Accelerated application delivery and reduced bandwidth from public cloud-hosted software-as-a-service (SaaS) and collaboration applications</li> </ul>	<ul style="list-style-type: none"> <li>Medianet services on Cisco ISR G2 and Cisco ASR 1000: Pinpoint video delays and jitter and test network readiness for video traffic</li> <li>SIP Trunking on Cisco ISR G2: Video interconnect between businesses and customers</li> <li>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</li> <li>WebEx® Node on Cisco ASR 1000: WebEx session traffic consolidation by up to 30%</li> <li>WAN optimization: Clear congestion for more efficient live video delivery</li> <li>Cisco WAVE Appliance virtual blades: Host Cisco Enterprise Content Delivery System (ECDS) for staging and distributing rich media, saving bandwidth and enhancing productivity</li> </ul>	<ul style="list-style-type: none"> <li>Wireless controller on Cisco ISR G2 SRE: Integrated wireless for branch and home offices</li> <li>Cisco TrustSec® security on Cisco ISR G2 and Cisco ASR 1000 and Identity Services Engine (ISE): Identity-based access control and enforcement</li> <li>VPN on Cisco ISR G2 and Cisco ASR 1000: Secure remote VPN connectivity with IP Security (IPsec) encryption</li> <li>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</li> <li>Cisco WAAS appliances and modules: Optimized enterprise applications on mobile devices delivered from Citrix</li> </ul>	<ul style="list-style-type: none"> <li>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)</li> <li>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</li> <li>Cisco ISR G2 Web Security with Cisco ScanSafe: Scalable, cloud-based web security with 99.9999% uptime</li> <li>Cisco TrustSec security on Cisco ISR G2 and Cisco ASR 1000: Identity-based access control and enforcement throughout the network</li> <li>Cisco ASR 1000 secure platform: Protect against reconnaissance and denial-of-service (DoS) attacks</li> <li>WAN optimization: Secure Sockets Layer (SSL) protection to SaaS applications while applying full optimization</li> </ul>



Cisco Integrated Services Routers Generation 2 (ISR G2) Services-Rich Branch Office Routers



Cisco ASR 1000 Series Aggregation Services Routers High-Performance WAN Edge Routers



Cisco Wide Area Application Services (WAAS) WAN Optimization Solutions

1 Forecast: Hosted Virtual Desktops, Worldwide, 2010-2014 (2010 update), Gartner, Inc.  
 2 Cisco Global Cloud Index: Forecast and Methodology, 2010-2015  
 3 Cisco Visual Networking Index: Forecast and Methodology, 2010-2015  
 4 Gartner Top Predictions for 2011: IT's Growing Transparency and Consumerization, Gartner, Inc.  
 5 Gartner Security and Risk Management Summit 2011, Gartner, Inc.

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