

Cisco SD-WAN & ThousandEyes Internet and Cloud Intelligence

Solution Brief

Cisco® ThousandEyes internet and cloud intelligence, combined with Cisco SD-WAN, delivers end-to-end visibility from the WAN edge to everywhere that matters to your business, so you can deliver an optimal digital experience for every user to any application, over any network.

To enable enterprises to quickly and easily gain insight into application experience and how the SD-WAN overlay and underlay networks impact performance, ThousandEyes Enterprise Agents are now natively integrated within Cisco SD-WAN routing platforms. Supported Cisco SD-WAN routers provide a turnkey hosting environment to run ThousandEyes vantage points at your branch and campus WAN edge—without the need for separate computing infrastructure. Now you can see every Layer 3 hop across the network underlay and correlate network and application performance to quickly solve user-impacting issues.



With the ThousandEyes agent placed on your Cisco SD-WAN routers, you can:

- Rapidly enable visibility from the edge to the internet, cloud, and SaaS with simplified, mass activation of the embedded agent through Cisco vManage
- Gain hop-by-hop visibility into the network underlay, including detailed path and performance metrics
- Measure and proactively monitor SD-WAN overlay performance and routing policy validation
- Measure the reachability and performance of software-as-a-service (SaaS) and internally owned applications
- Mitigate risk by establishing internet and SaaS performance baselines before SD-WAN rollout

See and take control of your digital experience

As organizations continue to embrace cloud, SaaS, and internet connectivity, network and IT teams are challenged to deliver reliable application performance over networks and services they don't own or directly control. When something goes wrong, network teams often carry the burden of proving the network innocent—with no visibility into end-to-end dependencies, such as ISP networks or SaaS application performance. This leads to wasted resources, higher mean time to identify (MTTI) and mean time to repair (MTTR), and more disruptions to your business.

To take control of digital experience, you need actionable insights into every external network and service your users rely on. With ThousandEyes internet and cloud intelligence, you can gain a 360-degree view of your WAN and external dependencies, whether network, application, or cloud-delivered security.

Internet and network visibility	Application experience	Secure edge service
<p>Help ensure the reachability and availability of business-critical SaaS, internally hosted applications, and cloud-based services over any network, including the internet and corporate network.</p> <ul style="list-style-type: none"> • See hop-by-hop network paths across ISPs and cloud networks, and ensure the integrity of external Border Gateway Protocol (eBGP) routing • Proactively benchmark and monitor service providers to verify that committed operation-level agreements (OLAs) and service-level agreements (SLAs) are met 	<p>Monitor and validate the performance of web applications, including SaaS and internally hosted apps, to optimize users' digital experience.</p> <ul style="list-style-type: none"> • Reduce time and complexity of troubleshooting user issues, with proactive, correlated insights 	<p>Monitor the reachability of and optimal connectivity to cloud-based security services and optimize their influence on application performance.</p> <ul style="list-style-type: none"> • Visualize and measure the hop-by-hop network path between branch and cloud-based security points of presence (PoPs) • Validate control and management plane connectivity between your secure access service edge (SASE) components

Get Started with ThousandEyes on Cisco SD-WAN Routing Platforms




The ThousandEyes agent is included with supported Cisco Catalyst® 8300 and 8200 Series Edge Platforms and Cisco 4000 Series Integrated Service Routers (ISRs) running Cisco IOS® XE version 17.6.1* or newer. Current Cisco SD-WAN customers who upgrade eligible** routers to the latest version of Cisco IOS XE can also use vManage 20.6 or newer to orchestrate the ThousandEyes agent deployment. Natively embedding the ThousandEyes agent on Cisco SD-WAN routers eliminates the need for separate compute hardware and enables scalable management of the agents across all SD-WAN sites.

To begin leveraging the ThousandEyes agents to run proactive tests, you will need an active ThousandEyes account. Existing ThousandEyes customers can use their available ThousandEyes subscription and unit capacity for these agents. Non-ThousandEyes customers can sign up for a [free trial](#) or [contact us](#) to purchase a ThousandEyes subscription.

*Cisco IOS XE 17.6 is targeted to be released in Q3CY21.

**All Cisco Catalyst 8300 Series Edge Platforms, as well as Catalyst 8200 Series platforms and 4000 Series ISRs with a minimum of 8 GB DRAM and 8 GB flash storage are eligible.

Why ThousandEyes plus Cisco SD-WAN?

 <p>Lower MTTI of issues</p>	 <p>Eliminate wasteful finger-pointing between teams</p>	 <p>Hold providers accountable and get swift resolutions</p>
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Visibility to thrive in an internet and cloud-centric world

By combining the power of Cisco SD-WAN and ThousandEyes, you can now rapidly pinpoint the source of application and network disruptions and gain actionable insights to optimize performance and accelerate resolution time—ultimately improving the digital experience for every user.



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ABOUT THOUSANDEYES

ThousandEyes delivers visibility into digital experiences delivered over the Internet, so companies can deliver superior customer and employee app experiences, successfully adopt the cloud and deploy SD-WANs.

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