ngena
The Shared Network

ngena Local Secure Internet Access – Powered by Zscaler

Solution Overview

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ngena and Zscaler are combining best-in-class technologies to deliver secure local Internet access to future-proof Software-Defined Wide Area Networking (SD-WAN) enabled enterprise networks.

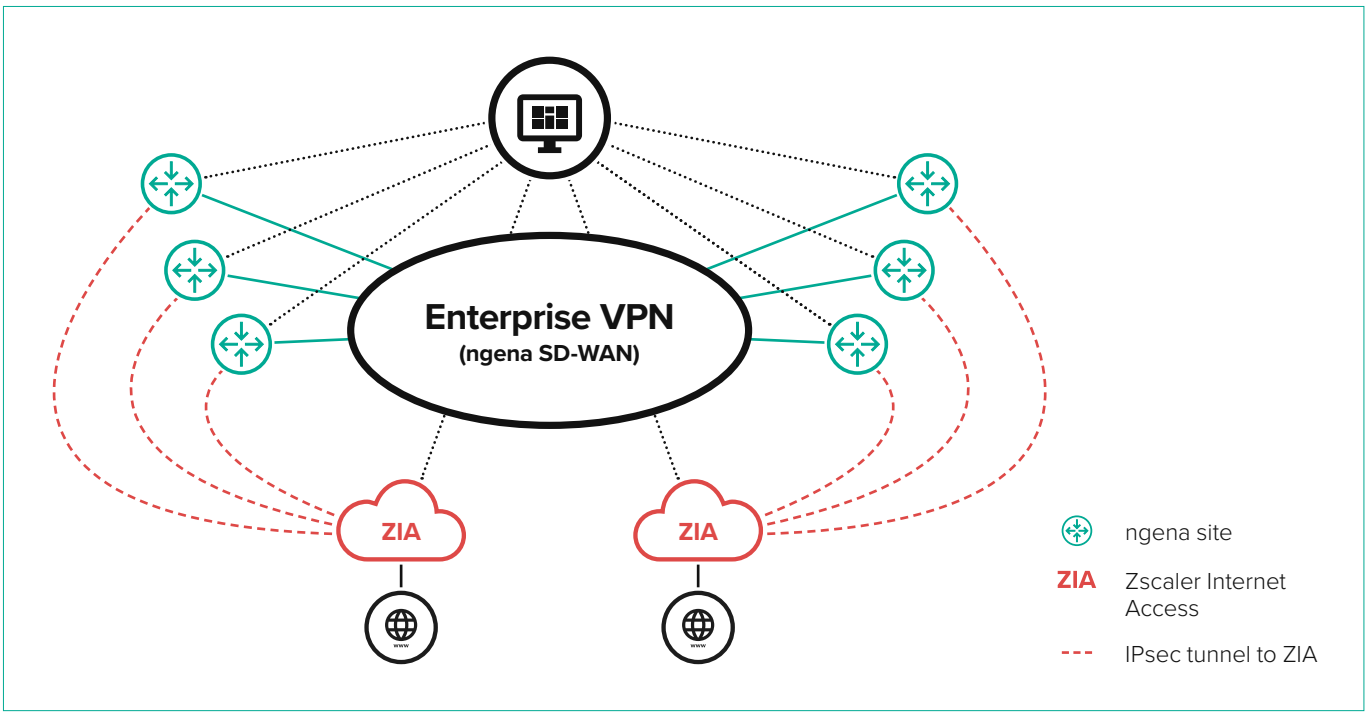
As enterprises increasingly rely on cloud-based applications, the traditional approach of backhauling Internet traffic to centralized Internet gateways is no longer effective – not only from a performance viewpoint, but also from a user-experience and economic perspective. Inherent in the conventional approach is that Internet and cloud traffic must first reach a centralized Internet gateway before being routed on to its final destination.

Since Internet and cloud traffic are growing very rapidly, providing centralized Internet access requires increased WAN bandwidth, resulting in significant, additional network costs. Moreover, latency is detrimental to the user experience and undermines the value proposition of using cloud applications.

Introducing SD-WAN makes it possible to diverge from the traditional enterprise network architectures and benefit from a wealth of new functionalities – such as best-path and application-aware routing, application optimization and class of services – even on less costly and less reliable Internet access links. The use of Internet access lines also enables enterprises to deploy local Internet breakouts, thus overcoming the limitations of enterprises' traditionally centralized Internet access strategies. By using local Internet breakouts, enterprises can offload less business-critical network traffic directly at their local premises, and free up WAN capacities for more mission-critical data traffic. In addition, they can also route cloud-related traffic directly to the Internet and leverage the high-performance networks deployed by leading cloud service providers. This will not only lower WAN costs, but also improve user experience.

Highlights of ngena's Local Internet Access – Powered by Zscaler

- Brings together Cisco's best-in class SD-WAN and Zscaler's security technologies to deliver future-proof enterprise networks
- Provides advanced network security without the need to buy, deploy or maintain security appliances at the local branches
- Simplifies the delivery of local secure Internet accesses by automating laborious configuration tasks, thereby allowing enterprises to focus their efforts and resources on more business-critical matters.
- Deploys centrally managed security policies across the entire network, and instantaneously changes and enforces security and access policies – all in a matter of minutes.
- Allows Internet traffic to be offloaded at the local branch to reduce network WAN costs and improve customer experience.



When it comes to the Internet, security is hugely important for enterprises. For this reason, ngena has partnered with Zscaler, one of the world's leading providers of cloud-based security, to offer enterprises the possibility to deploy best-in-class local secure Internet access at their premises.

ngena's fully orchestrated service configuration simplifies the setup of Zscaler's Internet Access (ZIA) by automating a range of configuration tasks and enables quick delivery of secure Internet access to cloud applications from enterprise locations.

This simplification is made possible by ngena's management platform which acts as a repository for the enterprise network design and its associated configuration. Additionally, ngena's management platform and orchestration engine allow to deploy and to configure all the CPEs in an enterprise network fully automated. Combining these functionalities with the capabilities of configuring Zscaler's Internet Access enable ngena to set up secure local Internet accesses automatically. In practice, this means that enterprises no longer have to laboriously configure and maintain IPsec connections between their branches and Zscaler's Internet Access; in other words, they can focus their efforts and resources on more business-critical matters.

The following illustration shows how split tunnels are created automatically at a given Internet Public Line (IPL) WAN interface at an enterprise's site where local secure Internet access is required. ngena's platform automatically sets up primary and secondary tunnels to Zscaler Internet Access, ensuring high availability on the local Internet breakout side.

About Zscaler

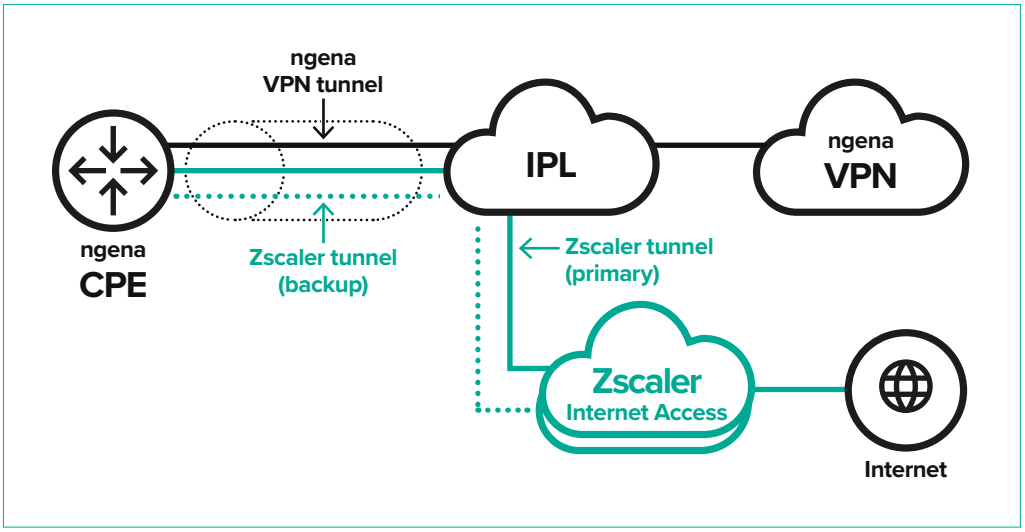
Zscaler™ enables the world's leading organizations to securely transform their networks and applications for a mobile and cloud-first world. Its flagship services, Zscaler Internet Access™ and Zscaler Private Access™, create fast, secure connections between users and applications, regardless of device, location, or network. Zscaler services are 100 percent cloud-delivered and offer the simplicity, enhanced security and improved user experience that traditional appliances are unable to match. Used in more than 185 countries, Zscaler operates a multi-tenant distributed cloud security platform, protecting thousands of customers from cyberattacks and data loss. Learn more at www.zscaler.com.

About ngena

ngena provides enterprises with consistent data connectivity services, integrating the networks of its alliance partners into a single global Software-Defined Network (SDN). Using state-of-the-art cloud and virtualization technologies of Cisco-Viptela, ngena offers end-to-end managed Software-Defined Wide Area Networks as a Service. The combination of this technology with the alliance's operating model gives customers access to secure, stable, scalable and easy-to-use global corporate networks, and provides high-quality local customer care.

ngena is founded on the strong technologies of Cisco, Comarch, Equinix & Zscaler. The alliance is grown to include several leading partners such as A1, Altice with SFR and Portugal Telecom, British Telecom, CenturyLink, China Unicom Global, Deutsche Telekom, Expereo, KPN, MTN, Neutrona, PCCW Global, PLDT Enterprise, Reliance Jio, Retelit, SK Telekom, StarHub, Sunrise, Telia Company, Telus and Viettel.

For more information visit: www.ngena.net



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