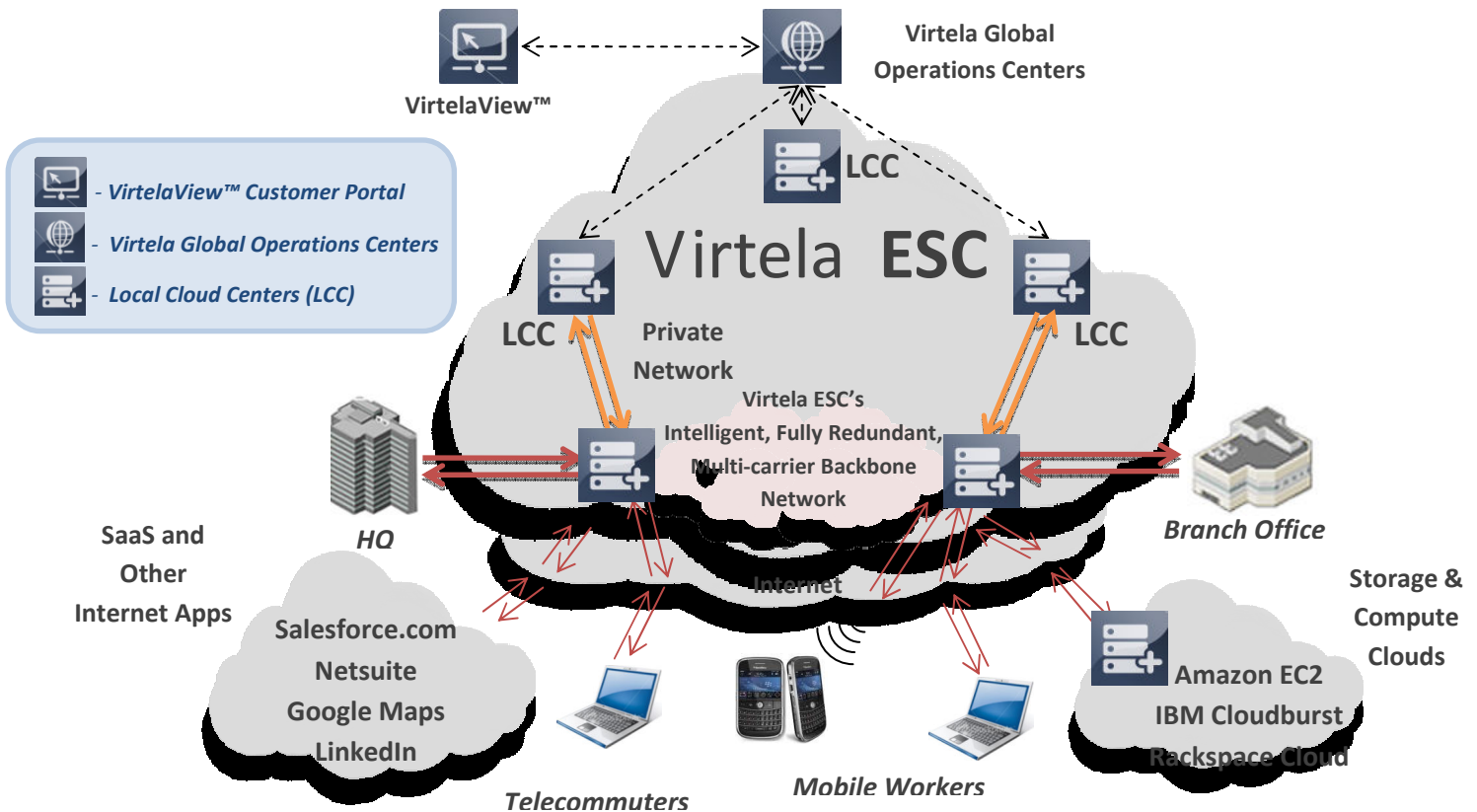


Virtela ESC

Virtela Enterprise Services Cloud (ESC) is the world's first open cloud platform purpose-built for enterprise networking, security, and mobility. Virtela ESC provides seamless communications between enterprise end users using any device (i.e. desktop, laptop, smartphone), private data centers, private and public clouds over any mix of underlying transport networks or network service providers.



To enable seamless communications around the world, Virtela implemented a wholly different cloud architecture. Virtela ESC has a breakthrough architecture that is open at every level, locally distributed around the world, and optimized for virtual devices to support various applications, including delay-sensitive applications. These innovations unlock exponential benefits for enterprises faced with supporting increasingly distributed workforces that need fast and secure access to increasingly centralized applications from anywhere in the world. Additionally, many companies often face decreasing IT budgets and staff. Virtela ESC frees the enterprise from common cloud constraints: closed platforms that tie services to a single network provider, centralized models that are inefficient for delay-sensitive applications, and "rack and stack" approaches that remain complex, costly, and cannot scale with enterprise demand. [Click here to learn more about Virtela's cloud vision.](#)

The key unique attributes of Virtela ESC are as follows:

- Open Architecture**
 Virtela ESC is independent of the underlying network, carrier, and technology. As a result, it delivers the best service to any location, using any network anywhere in the world. This infrastructure independence gives customers the freedom to

choose the best mix of carriers, for example, to optimize network access to any compute, storage, or other public/private cloud service or data center resource. Virtela ESC is the only all-inclusive cloud architecture available today.

- **Locally Distributed**

Virtela ESC effectively brings services to the end user's doorstep via its highly distributed network of 50 Local Cloud Centers (LCCs) in major financial centers around the world. By pushing service delivery to the network edge, Virtela accelerates applications immediately, near the content source, and instantly mitigates security threats near the source of attack. Conventional clouds follow a centralized hosting model that may take end user traffic halfway around the world before reaching desired content. Virtela ESC offers the deepest geographic reach of any cloud platform available today.

- **Optimized for Virtual Devices**

Virtela ESC changes the "One Device, Per Service, Per Location" status quo model. Virtela has decoupled service delivery from hardware, virtualizing multiple services within the network cloud to eliminate the complexity and expense of deploying multiple devices at your offices. This results in an order of magnitude cost savings and ease of use. Virtela ESC services can be activated within minutes and feature a consumable pay-as-you-go pricing model.

Virtela's overlay multi-carrier backbone network uses intelligent routing and switching capabilities within the LCCs to deliver highly reliable service across best-of-breed carrier networks around the world. This backbone can withstand the smallest performance issue to major infrastructure outages, including complete carrier network failures. Virtela ESC also leverages predictive analytics technology called VirtelaPredict to diagnose over 95 percent of potential network and security issues before they can impact network health. VirtelaPredict helps ensure that major issues affecting availability are prevented before they occur, that recurring bottlenecks are proactively investigated and that issues are responded to and remediated before they cause an outage. The combination of Virtela ESC's intelligent, fully redundant, multi-carrier backbone and VirtelaPredict ensures industry-leading service performance and availability.

Virtela ESC supports a wide variety of services including:

- **Managed Cloud-based Application Acceleration.** The service makes applications such as email, web-based collaboration, backup and storage, ERP/CRM and windows file sharing run 5-25x faster with a 250% money-back guarantee. The service works regardless where the applications are hosted-within the enterprise headquarters or office locations, private cloud or public cloud such as Amazon EC2, IBM Cloudburst, and Rackspace cloud. If end users do not experience faster application response time, Virtela pays the customer 250% of the service charge. Virtela's cloud-based application acceleration interactive model show how much performance improvement by application customers can achieve based on their locations and remote access speed around the world.
- **Managed Cloud-based SSL VPN.** This service provides reliable and secure remote access for mobile and remote workers around the world using a simple web interface and Internet access. It offers the highest remote access availability SLA-up to 100%-in the industry with Virtela's global load balancing, global redirect capabilities, as well as Virtela's resilient, multi-carrier backbone. The service also offers a seat reservation feature that allows IT managers to reserve seats in the event of traffic spikes or in a disaster recovery situation.
- **Managed Cloud-based Security.** Virtela's portfolio of cloud-based security services includes cloud-based firewall, Intrusion Prevention System (IPS), Distributed Denial of Service (DDoS), web filtering, Security Event and Information Management (SIEM), and malware services. This suite of services allows customers to save on upfront hardware while getting the benefits of a fully managed service. With a layered security approach, Virtela's Managed Cloud-based Security detects and blocks malware coming from the Internet, WAN, or LAN and offers an extra layer of defense with protection purpose-built for bots.

- **Managed Cloud-based SIEM.** Virtela's SIEM service tracks traffic events on a multitude of network devices, including routers, switches, firewalls, and IDS/IPS. This service helps companies strengthen their security posture, protect their intellectual property, and facilitate the collection, management, and analysis of log data that is integral to meeting SOX, GLBA, HIPAA and PCI audit requirements. This service is also wholly integrated within the security services that Virtela offers.
- **Cloud-based Mobile Device Management.** As smartphones become more common in the workplace, IT managers now need to manage these devices as part of their IT infrastructure. This service helps with mobile expense and security management. Companies will be able to control costs by getting alerts when usage limits are reached and when roaming occurs, as well as set different policies by user group, as examples. IT managers also have the ability to locate lost or misplaced phones, remotely wipe/selective wipe applications, prevent access to corporate data if rogue applications are detected, and more. Virtela's service is mobile operator and OS platform independent. The service can be activated quickly from the cloud, includes a unified management portal called Virtelaview™, and offers the industry's first real-time notification SLA.

Virtela's managed cloud-based services, enabled by Virtela ESC, complement our managed CPE-based services, giving you the flexibility to choose the best solution on a location-by-location basis and allowing you to leverage our in-depth experience and expertise in deploying, managing, and maintaining global networking, security, and mobility services.