

# Connectivity to O365

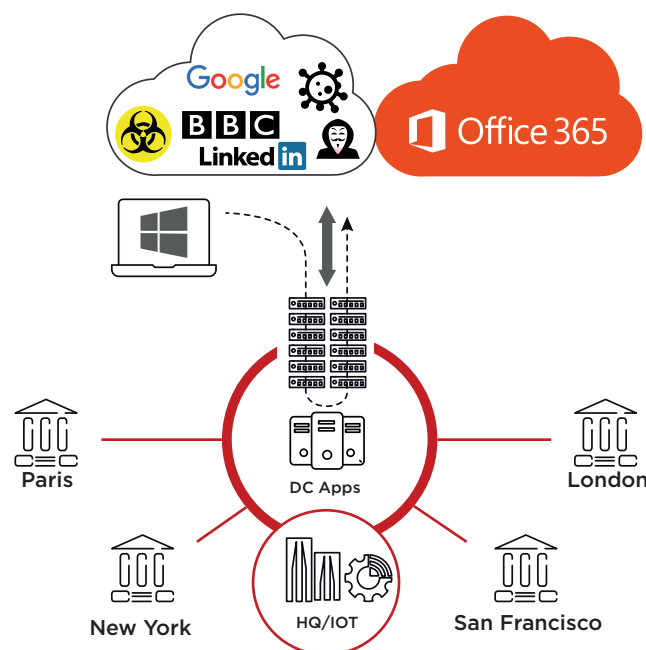


Microsoft Office 365 has a rapid adoption rate because of the benefits to how businesses are transforming. However, these benefits of Office 365 are not achieved without challenges. Resource requirements resulting in Microsoft's recommendation has some organizations scrambling to evaluate their network and security readiness and ensure that an Office 365 deployment does not cause significant impact on user performance or cost.

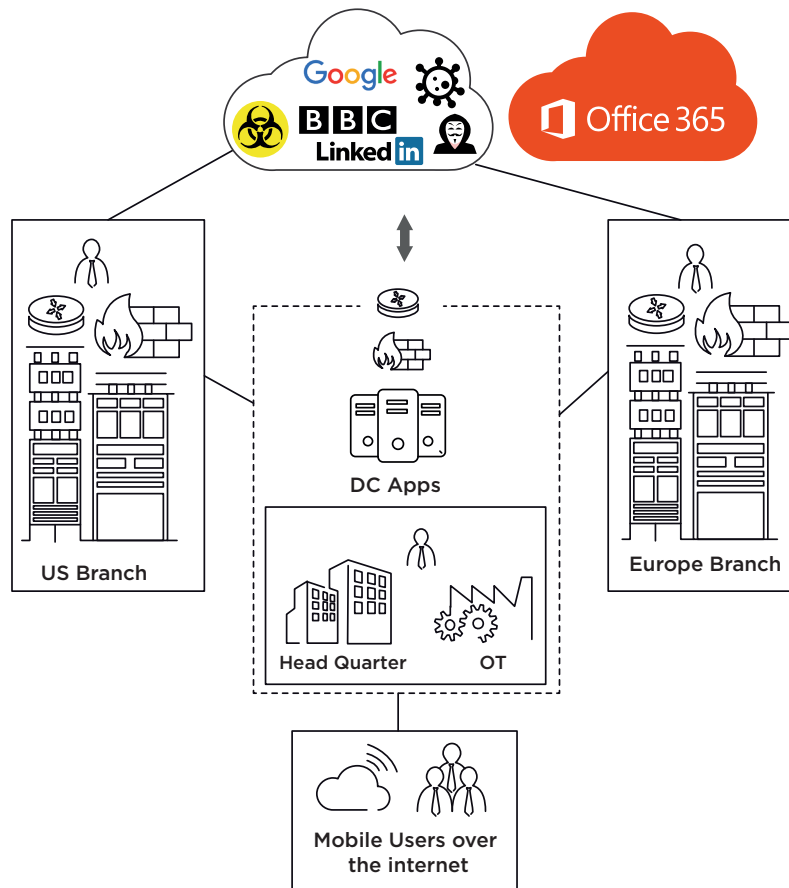
## Challenges with the Traditional Approach



- As enterprises rely more and more on SaaS applications to run their businesses, they face challenges imposed by traditional hub-and-spoke architectures. Most companies with legacy setup backhaul traffic through Hub-and-Spoke networks and ExpressRoute while Microsoft recommends direct internet breakout and not ExpressRoute.
- Due to the routing of user traffic back and forth from Microsoft Office 365, the network utilization/MPLS usage increases by 40%. Most of the appliance-based products in the customer infrastructure can't handle such bandwidth requirements which leads to poor user experience.
- Migration to Microsoft Office 365 (O365) need upgrades in existing firewalls and constant updates needed for regular MS URL updates. Missing an IP or URL in the updates will cause connectivity issues. Corporate IT staff find it hard to keep up with such demands of deployments.
- Visibility and reporting usage of applications associated with O365 is unavailable with the IT administrators of the organizations.



Hub-and-Spoke Network

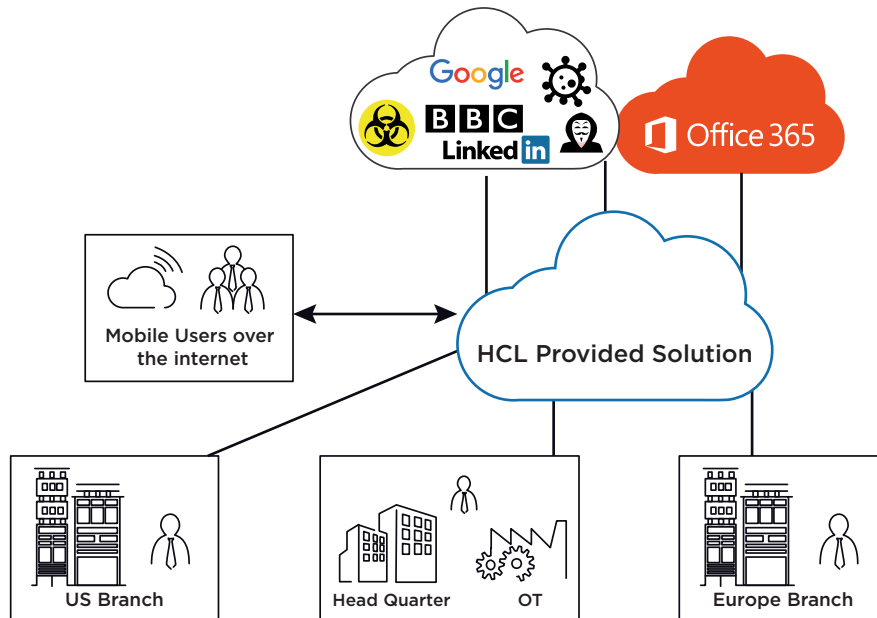


## HCL Approach/Solution



Whether the traffic is routed through express route or backhauled through the Central datacenters, it results in increase in bandwidth requirements and unnecessary upgrade in network security hardware deployed. HCL recommends its clients to redirect the entire web traffic directly to the cloud-based web access services for better security and user experience without the need to spend on network and security upgrades.

Instead of the network routed to O365 through corporate network, the users can be directed to O365 cloud through cloud-based web access services powered by the Zscaler Cloud Platform from remote offices and data centers. The solution will sit in line between the user and internet and will provide complete protection of the traffic going in and out of O365 tenant including the SSL traffic. Users will get full protection from web and internet threats. Along with that, features like Cloud Sandboxing, Next-Generation Firewall, Data Loss Prevention, Cloud Application Visibility, and Control can also be utilized per need basis. Backed by HCL Managed Services with respect to deployment and support, this approach will help customers to meet their security needs with an enhanced user experience.



## Solution Features



### Zscaler Cloud Platform

- Direct peering with Office 365 in major data centers
- Scalable cloud access control
- Network path optimization and optimized TCP stack
- Guaranteed bandwidth for Office 365

### HCL Managed Services

- Easier and faster deployment
- Simplified policy administration
- Real-time monitoring and incident response for threats
- Real-time visibility and bandwidth prioritization

## Benefits of HCL's Recommended Approach



- A high magnitude of savings in total cost of ownership versus traditional on-premises point products
- Enhanced user experience
- Enhanced security policy management
- Real-time visibility with 24\*7 managed services powered through HCL CSFCs (Cybersecurity Fusion Centers)
- Monitoring of usage of Office 365 and other cloud services like OneDrive for Business, etc.



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CUSTOMER CHALLENGE	HCL SOLUTION	BENEFITS
<ul style="list-style-type: none"><li>• Spike in the network bandwidth utilization due to backhauling traffic over MPLS with the movement to O365</li><li>• User experience hampered due to choking of network bandwidth</li><li>• 100+ firewalls needed device upgrade</li></ul>	<ul style="list-style-type: none"><li>• Local internet breakout points with backhauling of DC traffic only</li><li>• Migration of remote firewalls to next-generation cloud firewall features</li><li>• Simplified management with real time visibility</li><li>• No CAPEX involved</li></ul>	<ul style="list-style-type: none"><li>• Cost of hardware installation and management nullified by 40%</li><li>• Operational cost reduced by 20%</li><li>• MPLS cost reduced significantly</li><li>• Rapid deployment</li></ul>

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