

## BEYOND APPLICATION PERFORMANCE

Apcela improves Office 365 performance by up to 60%

Apcela enables enterprises to easily manage application performance in hybrid IT environments. Its global, award-winning platform securely accelerates applications and data between legacy enterprise datacenters and the cloud. Managing distributed application performance and security is simplified with the company's software-defined networking and fully integrated, distributed security service.

Apcela's Office 365 Accelerator was designed to improve performance, latency, packet loss and network congestion that branch office and edge users experience when accessing Office 365 via the public internet. Integrated with Apcela's AppHUB, which maps to Microsoft peering points and brings them closer to the end user, Office 365 Accelerator easily integrates into existing enterprise WAN architecture for improved security and performance.

### Digital Transformation

Digital transformation means leveraging technology to reinvent business processes and improve the customer's experience with a product or service.

An agile network is a key ingredient to fully enabling this transformation — yet, one which many do not possess.

### Why the Move to O365?

There are many reasons to support moving critical productivity applications to cloud or SaaS solutions.

These include: widespread access from any branch, keeping up with software updates and technology changes, reduced costs, and more.

### All Around Productivity

A Wakefield Research study found that nearly three-quarters of respondents had increased workforce productivity after moving to O365. As the most widely used cloud service, with over 155 million users, Microsoft O365 is still growing fast.

## So, What's the Problem?

Even after increasing firewall and network bandwidth capacity, nearly **70%** of companies still experienced weekly network-related performance issues<sup>(1)</sup>. Many of these issues originate due to geographic restrictions or network limitations.



## KEY CHALLENGES AND APCELA'S SOLUTIONS

Identifying root causes of problems is difficult. Rather than attempting to improve performance using a generic overlay software or quick fix, compare your company's situation to the following business cases for specific solutions. Here is how Apcela's O365 Accelerator specifically address each pain point.

	CHALLENGE	Description	SOLUTION
1	Global enterprises restricted by a single O365 instance	Microsoft hosts Office 365 in the region in which the business is headquartered – so if a global enterprise has locations in different continents, they have to deal with a single O365 instance. This means using expensive MPLS between countries to traverse the internet.	<ul style="list-style-type: none"> <li>On-ramp traffic to Apcela's private high-bandwidth, low-latency, global backbone to quickly and securely connect to regional hubs for peering, bypassing public internet.</li> <li>Use AppHubs to distribute your O365 instance around the globe.</li> <li>Improve transport with an SD-WAN overlay.</li> </ul>
2	Companies with centralized internet egress points resulting in network hairpins	Enterprises that use centralized internet egress points will also have a single peering location with Office 365 – which means that more often than not, traffic ends up hair pinning, adding latency that delivers a hit to O365 performance.	<ul style="list-style-type: none"> <li>Stop backhauling traffic over the WAN to a centralized data center. Instead, use AppHubs to connect to the closest regional hub.</li> <li>Directly connect these distributed regional Hubs to Microsoft peering points, reducing latency and improves performance for remote O365 users.</li> </ul>
3	Cloud-based security and network limitations	Companies that use cloud-based security deal with security sitting between users and Microsoft. This means performance is bound by the cloud provider's performance, and the number and/or location of service provider sites through which traffic is routed. Users distributed around the US can access O365 anywhere, but because of a single security product location, such as a firewall in Washington D.C, all Microsoft user traffic has to go through that one data center instead of through a closer one.	<p>Distribute security controls at regional AppHubs and steer apps the right way with application-aware routing, saving traffic from traveling unnecessarily through a distant firewall.</p> <ul style="list-style-type: none"> <li>Deploy existing cloud security products into Hubs</li> <li>Provide security-as-a-service from each specific location</li> <li>Minimize cloud compliance bottlenecks</li> <li>Accelerate O365 performance</li> </ul>



## HOW APCELA'S OFFICE 365 ACCELERATOR WORKS

### Map

Accelerator services continuously optimize the path between your users and the infrastructure components they utilize.

### Accelerate

Apcela's Office 365 Accelerator connects directly to Microsoft peering points around the world, establishing BGP peering relationships at each. With Apcela's telemetry and mapping, users are connected using the fastest and most reliable path.

### Monitor

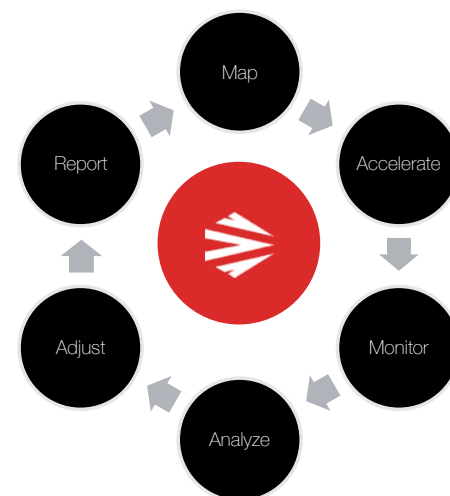
Apcela's AppSensor runs telemetry from the backbone, customer premises, and hundreds of O365 service endpoints to baseline performance enabling machine-learning-based anomaly detection.

### Analyze

The results from AppSensor's monitoring are reviewed by senior network architects to ensure that the service is running at an optimum configuration. XaaS providers routinely move, add, and change service endpoints in the provider cloud. Without constant analysis, static configurations can drift resulting in sub-optimal performance.

### Adjust

Experts use the data results gathered to adjust the configuration of the Office 365's performance. This constant attention to the day-to-day dynamic nature of XaaS and the global network ensures that you can focus on higher value-adding activities. Using automated processes and consolidated dashboards reduces Mean-Time-To-Repair.



### Report

The Apcela Enhanced Analytics Platform (EAP) for Office 365 Accelerator provides an analytical and data visualization platform in which customers can consult 24/7/365 for help to identify instantly any performance issue or loss of service.

## KEY BENEFITS FOR YOUR BUSINESS

Apcela's Office 365 Accelerator eliminates the internet from the path between your users and assigned Microsoft infrastructure resources. This eliminates the primary source of jitter, high latency, and packet loss from the Office 365 data flows.

### Connectivity and Latency

- Office 365 Outlook email performs 30-50% better on the Apcela backbone versus the internet
- Non-email Office 365 applications perform 40-60% better on the Apcela backbone versus the internet

### Traceability and Accountability

- Because applications travel across our network, Apcela guarantees the service quality
- Root cause identification and rapid remediation

### Application Performance Visibility

- EAP provides query-able data discovery and analysis
- Visibility into application performance such as point in time trends in latency between arbitrary endpoints

For more information, visit <https://www.apcela.com/office-365-accelerator/> or email [sales@apcela.com](mailto:sales@apcela.com).