

WHITE PAPER

DRIVE SUCCESS OF CLOUD, SAAS & INTERNET TRANSFOR- MATION



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Modern enterprise IT teams are tasked with managing networks that are constantly in a state of transformation. This is in support of a wealth of new traffic, locations and cloud-delivered workflows flooding enterprise networks across industries and verticals, putting greater pressure on IT teams to retire their legacy network infrastructure for more agile, scalable and future-facing designs optimized for the cloud.

Many enterprises are going Internet-first, for instance — if not Internet-only — in retiring bulky MPLS connectivity for “direct-to-Internet” access between their users and branch locations, with the goal of unloading bulky hardware and streamlining their WAN. In tandem with this trend is the growing adoption of SD-WAN solutions, which aim to help enterprise IT teams retain a level of control over their infrastructure when they lose explicit “ownership” of the network pathways their traffic leverages. All of this is in pursuit of building networks that are scalable, agile and more suited for a deluge of new users, locations and apps.

No digital transformation effort is a pitfall-free endeavor, however. Migrations are complex projects that aren’t guaranteed to work with existing network architectures. Many transformations uncover underlying issues that also must be fixed to ensure that end-user experience after the transition is not negatively impacted. This is especially true when teams don’t employ monitoring solutions to track performance baselines before, validation during and visibility after the network has been overhauled, ensuring there are no surprises once projects are underway.

VISIBILITY CRITICAL FROM THE GET-GO

There’s no guarantee that a transformation project is going to work without an understanding of the state of the network today and a way to visualize which areas are ripe for improvement. Transformations require comprehensive visibility into the current network status, whether this is

VISIBILITY CRITICAL FROM THE GET-GO (CONTINUED)

as simple as identifying apps that can be offloaded from an MPLS link to one that's direct-to-Internet, or as complex as moving to a hybrid, multi-cloud infrastructure. With visibility into what's working and what's not, teams can better establish a method for tackling transformations of any scale in a time- and cost-efficient manner.

ABILITY TO PINPOINT APPS (AND HOW THEY IMPACT EACH OTHER) IS ESSENTIAL

Once a team has embarked on a transformation project, IT needs visibility into how the introduction of new workflows impact existing tools that users still need to access throughout the effort. As migrations are rolled out, real-time analysis can inform future stages of the project. If new components are taking up network capacity at the expense of the performance of other business-critical tools, teams need to be able to quickly pinpoint the problem and take action so that the existing performance standards are consistent throughout the transformation (and IT retains faith from users, as well as senior leadership).

ACTIVE MONITORING SYNCHRONIZES THE ENTIRE EFFORT

The solutions teams use to monitor this traffic can't introduce additional complexity into the transformation project or added overhead to the network, either. By partnering with an active performance monitoring solution that alerts IT to performance degradation of critical applications before end users are impacted, teams can enjoy a level of automation and confidence that helps speed up and synchronize the entire transformation effort. Additionally, historical reporting enables teams to prove the success of their efforts to other business units.

With this comprehensive monitoring up and running, teams can continue to ensure network performance is aligned with the ongoing needs of end users and work to prime the network for any changes in IT strategy down the line. Once teams have demonstrated their "authority" in being able to manage and improve network functionality, IT can earn the support of both executive leadership and the wider organization when embarking on optimization projects down the line.

Monitoring solutions can also ensure you're holding your third-party partners to task, including ISPs who play a critical role in delivering the network backbone for enterprises migrating to the cloud. Teams can ensure providers are meeting their SLAs by automating alerts for when performance degrades or isn't meeting acceptable thresholds.

ACTIVE MONITORING SYNCHRONIZES THE ENTIRE EFFORT (CONTINUED)

AppNeta by Broadcom Software enables teams to establish their own performance benchmarks and ensure that throughout any transformation, when end users are negatively impacted by a change, IT can react quickly to remedy the issue — or even get ahead of problems before they impact users.

Required monitoring capabilities to drive successful transformation

- Ability to monitor across the internet to cloud and SaaS environments
- Granular, 24/7 monitoring of any business-critical application
- Integration with all business-critical systems
- Ability to trend issues over time
- Easy and scalable deployment
- Root cause determination



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