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Why Uptime Is Now a Business Metric: The Evolution of Enterprise Broadband Internet

Jim Frey, Principal Analyst, Enterprise Networking

Abstract: In the digital-first economy, downtime can be catastrophic. No organization can afford to be without access to the data, applications, and services that require internet access, creating unprecedented pressure to ensure network uptime. But fragmented connectivity strategies across an enterprise's many locations quickly increases operational complexity and threatens resilience. It's time for a new approach.

The demand for resilience

Reliable, high performing broadband internet access is an essential capability in the digital economy to optimize business reach and efficiency and to reach and serve interconnected digital communities. Whether it's a small/medium enterprise's (SME) online commerce platform, a local municipality's property tax payment site, or a hospital's patient portal, continuous internet access is a must.

This is particularly important for those needing to support multi-location organizations, which have grown beyond single-site, headquarters-centric operations and must support multiple often geographically distributed sites. Large, global enterprises regularly address this requirement by working with multiple global service providers to engage dedicated wide area network (WAN) business connectivity services. Smaller enterprises have the same needs and the same critical exposure to any lack of broadband internet resilience but typically do not have the same level of resources to bring to the table. This leaves SMEs in a difficult position. In fact, 29% of SMEs say connecting people, locations, and things is one of the most difficult IT and networking costs to manage, second only to marketing and sales (see **Figure 1**).[1]

[1] Source: Omdia Research Report, *2025–26 Digital Decision Maker Survey: SoHO and SME Investment Outlook*, November 2025.

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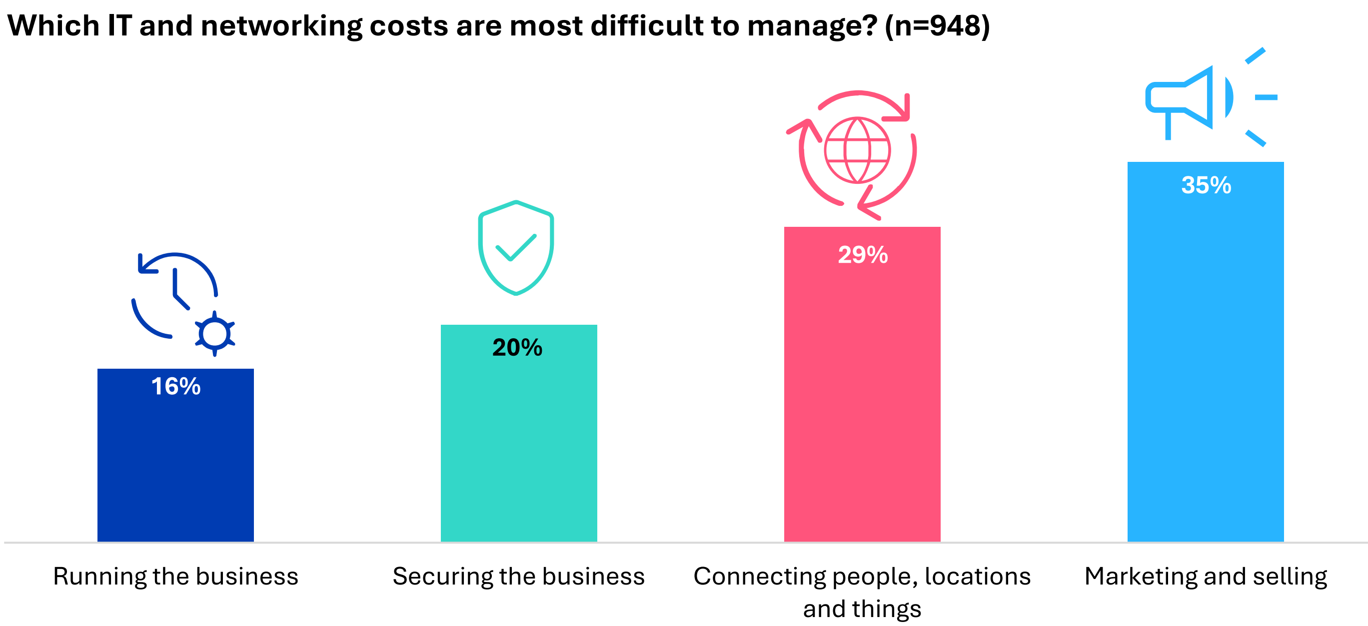
Figure 1. SMEs struggle to balance marketing and connectivity speed



Source: Omdia

This reliance on improved, efficient, and affordable connectivity also comes with a commitment to a zero-downtime mentality. Use cases like real-time payments, healthcare imaging diagnostics, and airline reservation systems are just a few examples of scenarios where anything other than zero downtime carries significant business impact.

The tricky part is accomplishing this. There are many choices for broadband connectivity in the market, but they often vary widely based on location. Simply adding more network bandwidth will not necessarily solve the problem, either; the right approach should take advantage of multiple connectivity technologies and access methodologies to deliver internet capacity and also provide failover resilience and protection of downtime. Further, solutions must support existing needs today and keep the door open for success with new and transformative technologies such as artificial intelligence.

Sorting through the options can be difficult. The need to support multiple distributed business locations commonly leads decision makers to engage with multiple broadband service providers. While this covers the need, each new service provider adds complexity for procurement and operations.

The right approach: Layered connectivity

The best approach to ensuring resilience is to have more than one option at hand for broadband network connectivity at each site of operations. Having both a primary and failover network service, known as layered connectivity, is an effective method for eliminating risk and maintaining continuous uptime.

In this model, traffic can be automatically and immediately redirected to a backup link in the event of an outage or unacceptable performance degradation. Additionally, the primary and backup layered framework facilitates network segmentation to help limit the impact of problems in one part of the network without impact on other segments.

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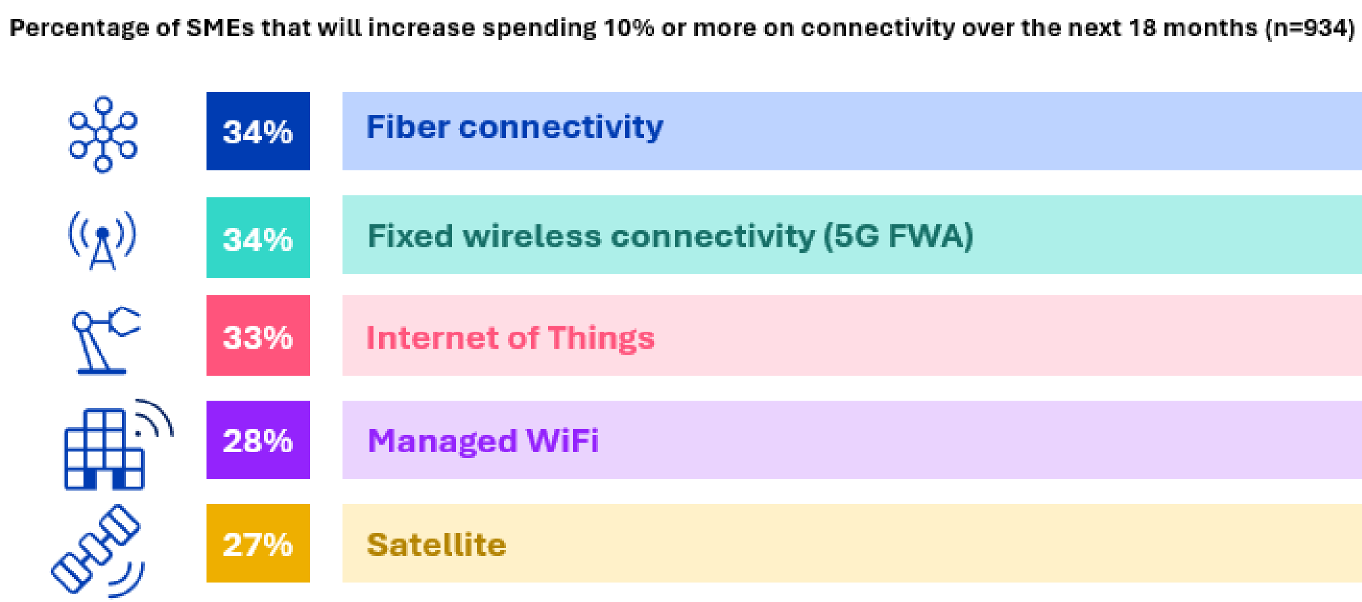
Other important capabilities delivered by a layered connectivity approach include:

- Easing the risk of operational complexity that often leads to errors, misconfigurations, and outages in the first place.
- Traffic balancing to distribute workloads across available connections; this helps improve performance and reduce network bottlenecks for the highest priority traffic, which can substantially enhance the user experience.
- Fast failover to ensure access to essential data is not lost or interrupted. A key element here is the ability to intelligently catch, diagnose, and remediate the sources of potential disruptions in real time.

There are several technology options for services that can be part of a layered connectivity model, from wired options like fiber and copper to wireless like 4G or 5G cellular and satellite. All of these are finding success, given research findings that a quarter to a third of SME organizations plan to increase spending at least 10% on a range of such connectivity options (see **Figure 2**).[2]

Figure 2. SMEs are running more complex, hybrid networks



Source: Omdia

A potential downside of layered connectivity can occur if deployment necessitates engaging multiple service providers, which introduces increased operational complexity. The full benefits of layered connectivity can be enhanced by working with a single network service provider that can offer more than one connectivity technology at each site, and ideally across all sites, thus delivering the desired operational uptime and resilience together with the greatest possible operational simplicity.

[2] Ibid.

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When layered connectivity is not an option: Resilient standalone solutions

Sometimes there simply aren't sufficient service options for dual, layered connectivity, perhaps due to insufficient wireless coverage in remote locations or other access gaps for wireline providers. This may occur when organizations seek to connect temporary facilities in remote locations, such as retail pop-ups or construction sites, or in rural, geographically remote, or bandwidth-constrained locations.

When this happens, designing the network to operate as a resilient standalone system is vitally important, and the same core principles of network resilience and operational simplicity apply. These include finding a single service provider that can provide coverage to all remote sites, network segmentation for traffic prioritization, and centralized management for operational simplicity.

Once again, having a single, high-quality network service provider is a major plus because it reduces the challenges associated with managing multiple vendors on several fronts, including pricing, contract terms and conditions, technology roadmaps, service-level agreements, and customer service.

How T-Mobile For Business can help

T-Mobile has long been known for its wireless network services, including 5G fixed wireless broadband internet access. Now, T-Mobile For Business has made a major push into additional business internet service options with SuperBroadband, which combines its 5G wireless and Starlink's satellite broadband.

Aimed specifically at enterprises large and small that need flexible, resilient, layered connectivity options, SuperBroadband is available both as a layered hybrid wireless-and-satellite architecture for load balancing and as a satellite-only failover backup or primary standalone offering.

As part of T-Mobile's lineup of high-performance 5G services, SuperBroadband delivers enhanced connectivity through an optimized network slice designed to perform reliably during periods of network congestion. This capability helps support more consistent performance for data-intensive applications where maintaining connectivity is critical, such as business operations and certain enterprise use cases.

The inclusion of a satellite component makes T-Mobile SuperBroadband an even better fit for organizations that need reliable failover or the ability to operate as a standalone network. Satellite significantly enhances network resilience as an always-on broadband feature for SMEs and enterprises with multiple remote locations, supporting essential business continuity during events that otherwise would prompt damaging downtime scenarios, such as wireline service failures or natural disasters.

With the addition of SuperBroadband, T-Mobile has expanded the reach of wireless broadband services to essentially anywhere in the US, which makes T-Mobile a viable option for single-sourcing business internet access services nationwide.

Conclusion

Anything less than 100% network resilience represents a substantial threat to any organization's ongoing viability and success. Network resilience, in the form of consistent, secure, high-performance business internet access, is just as critical as other infrastructure like the power grid and water utilities. In order to deliver on a zero-downtime promise, organizations should adopt a layered networking architecture for business internet access. T-Mobile For Business' new SuperBroadband solution represents a strong foundation for optimizing uptime in a flexible, affordable manner.

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