

**LOGIX**  
FIBER NETWORKS



# Are You Maximizing Data Center and Application Connectivity and Performance?



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Companies today are adopting a new model to bring digital applications and content closer to people and businesses. The goals are to improve performance and reduce latency. [Latency](#) causes lags in data delivery, which significantly impacts performance.

Take the example of connected cars. You need to be within 1 millisecond of an interconnection point to produce an information flow as close to real time as possible. With virtual desktops and videoconferencing, you want latency within 15 milliseconds. The transition to Web3 and the incorporation of the metaverse and even more immersive experiences will only increase the effects of and the need to minimize latency.

One way LOGIX is meeting the demand to provide internet access as close as possible to customers and end-users is via a partnership between DE-CIX and LOGIX Fiber Networks. This partnership allows more enterprise business and wholesale network operators to benefit from peering and multicloud connectivity, giving LOGIX customers a direct connection to a seamless connectivity point over a dedicated VLAN on a private network. This allows fast interconnection to nearly 2,600 networks globally from that single point.

## Simplifying Your Multicloud Management

The [Flexera 2021 State of the Cloud Report](#) showed that 92% of enterprises have a multicloud strategy. 82% use a hybrid mix of public and private connections, and 43% use multiple public connections and multiple private connections. This creates many different types of communications to manage, often with various providers.

At the same time, businesses must be able to control their infrastructure, in order to overcome challenges such as performance, security, compliance, complexity and cost efficiency. This is possible if you have a solid data center solutions strategy.

With LOGIX, any business can leverage public and private connectivity from transport to peering, to reduce latency and simplify network management.

Here are three use cases showing how companies can improve their network resiliency, security and performance using LOGIX solutions.



# Use Case No. 1: LOGIX Data Center Solutions: Adoption of a Hybrid Cloud

## Scenario

This company has both a headquarters and an on-premises corporate data center with remote regional offices. They house corporate applications and data equipment on-site but had limited real estate for data center expansion. A single network service provider delivers internet access for all their locations.

## Challenges

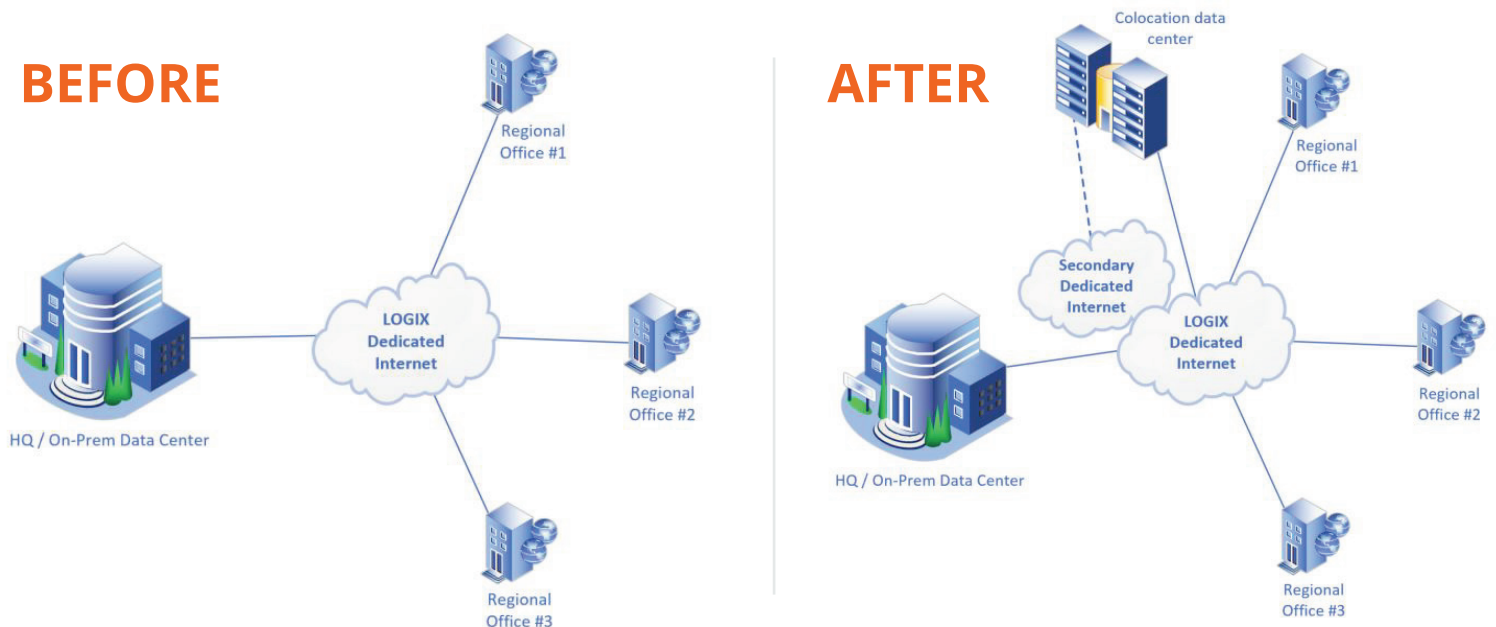
- ✓ Expanding the on-premises data center would be capital-intensive.
- ✓ Limited network availability and redundancy.
- ✓ A risk of downtime, given critical assets in a single location.

## The LOGIX Hybrid Cloud Solution

By shifting its high-priority application and data equipment into a [colocation data center](#), this business can now leverage multiple data center network service providers for greater redundancy with diverse carriers.

## Results

- ✓ Ability to expand colocation space without capital investment.
- ✓ Network redundancy using diverse carriers.
- ✓ Leverage colocation security, cooling, and a diverse power infrastructure to maximize uptime.



# Use Case No. 2: LOGIX Data Center Solutions: Optimizing Network Connectivity

## Scenario

This company has regional offices that are accessing applications housed in a colocation data center. They have single internet access to each office and to the data center. All traffic is centralized through the firewall at the data center, with traffic from the office flowing through the data center.

## Challenges

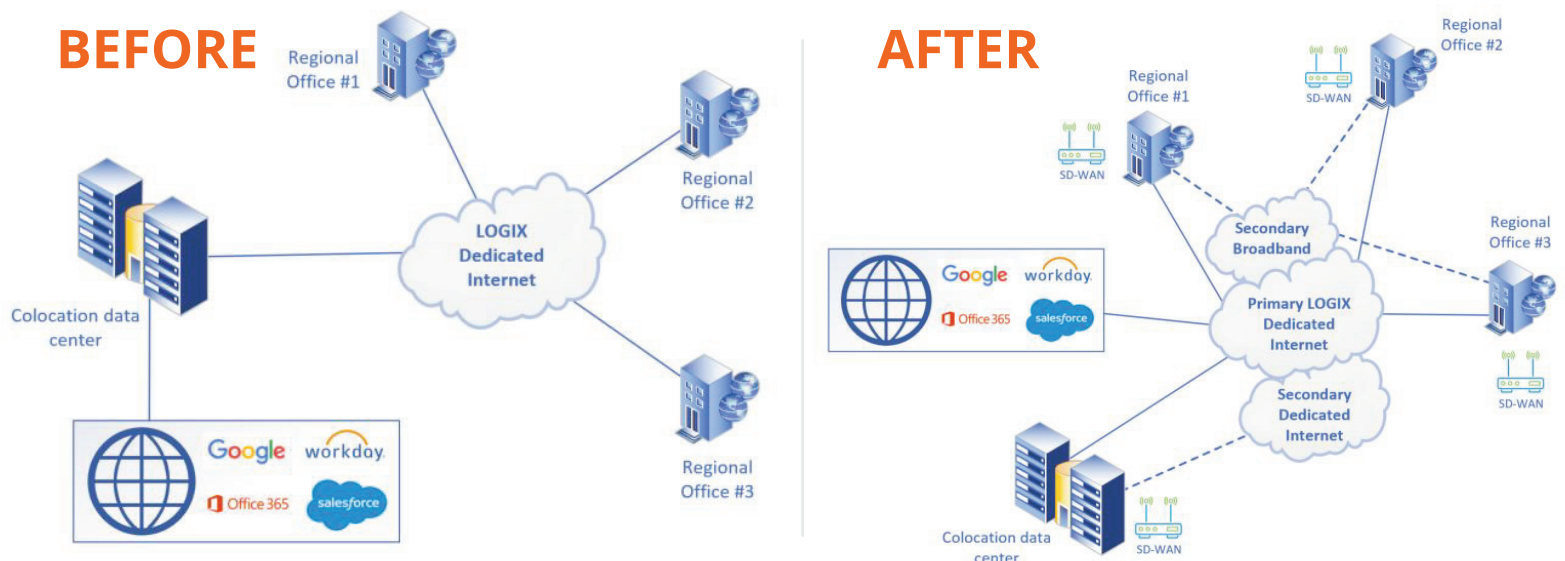
- ✓ A lack of network redundancy or continuity at regional offices.
- ✓ Highly congested internet access, given the centralized data center firewall.
- ✓ A lack of centralized network visibility.

## The LOGIX Hybrid Cloud Solution

Adding a secondary dedicated internet at the colocation data center and secondary broadband at the regional offices enables this business to improve network resiliency. Their incorporation of [LOGIX SD-WAN Secure](#) for traffic management and security gives remote offices direct access to the internet and leverages optimal network availability paths. This also extends network security, and threat prevention to all endpoints.

## Results

- ✓ Network redundancy through the use of diverse carriers.
- ✓ Automated network failover for business continuity.
- ✓ A single platform solution for wide-area network optimization and network security.



# Use Case No. 3: LOGIX Data Center Solutions: Colocation and Hybrid Cloud Resiliency

## Scenario

This company has a national data hub for all corporate locations. They are using a single colocation data center for all private corporate applications, while regional offices had internet access via a single internet access.

## Challenges

- ✓ A lack of data equipment and application redundancy.
- ✓ Data storage colocated with application servers.
- ✓ Expensive and inconsistent access to cloud service provider resources.

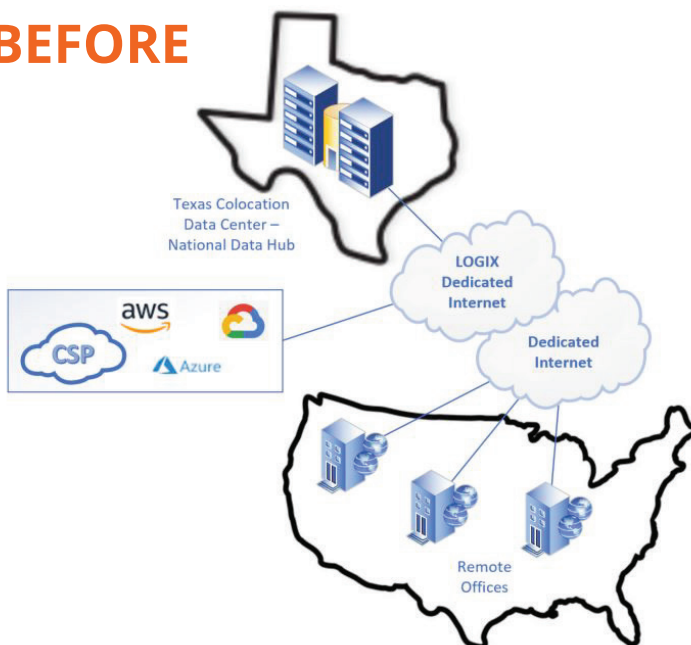
## The LOGIX Hybrid Cloud Solution

Adding a secondary data center colocation maximizes uptime. [LOGIX Cloud Connect](#) provides dedicated access to cloud service providers. Adding multiple carriers increases network resiliency, and private network connectivity deployed between locations data centers ensures reliable, high-speed connectivity between locations for business continuity.

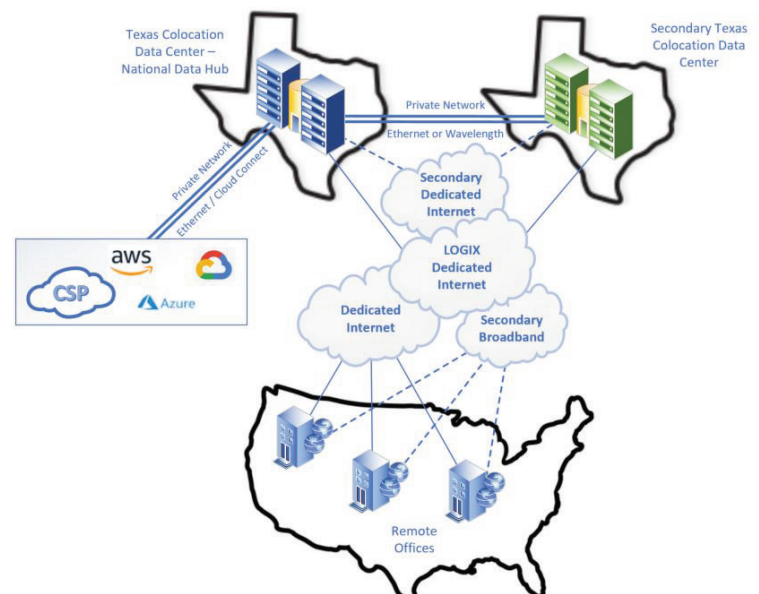
## Results

- ✓ Dedicated high-availability connectivity between data center locations.
- ✓ Private, secure, predictable access to cloud service provider resources.
- ✓ Network redundancy through diverse carriers.

### BEFORE



### AFTER



# Maximize Your Application Connections and Performance

Building and managing on-premises data centers is expensive, especially if you want redundancy, resiliency, and proximity to internet connectivity. Using a colocation data center provider such as LOGIX to house servers and network equipment is a cost-efficient, secure, and reliable solution.

[LOGIX's data center solutions](#) ensure maximum continuity and availability for mission-critical applications in a hybrid environment using a LOGIX colocation data center or one of the nearly 100 3rd party data centers LOGIX connects too. LOGIX data center solutions provide flexibility to utilize dedicated internet access, point-to-point connectivity, cloud service provider connectivity, and SD-WAN.

## The Preferred Fiber Network Solution Provider in Texas

With more than 290,000 fiber miles, 7,000 route miles, and connections to nearly 100 on-net third-party data centers and colocation data centers in Austin, Houston, San Antonio, Dallas and Fort Worth, LOGIX is the preferred fiber network provider in Texas.

## Peering Over LOGIX Fiber Networks

LOGIX's interconnection with DE-CIX Dallas allows turnkey connectivity to the largest neutral peering exchange in the Southwest. iNetwork operators throughout the LOGIX footprint can now buy transport connectivity directly to DE-CIX Dallas.

## About DE-CIX

[DE-CIX](#), the operator of the world's largest carrier and data center neutral Internet Exchange (IX), with the largest IX in Dallas, provides networks a variety of ways to improve performance, reduce costs and reach the greatest number of carriers, ISPs, content, cloud, and other networks through a port on our Internet Exchange Platform. The multi-service interconnection platform now ranks among the top 20 IX's in North America and is the fastest growing OIX1 certified Internet Exchange in the market.

To learn more about  
LOGIX's data center solutions,  
call 281-688-6231, or  
[request a quote online.](#)

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