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IT at the Edge: Remotely Diagnose and Recover Devices

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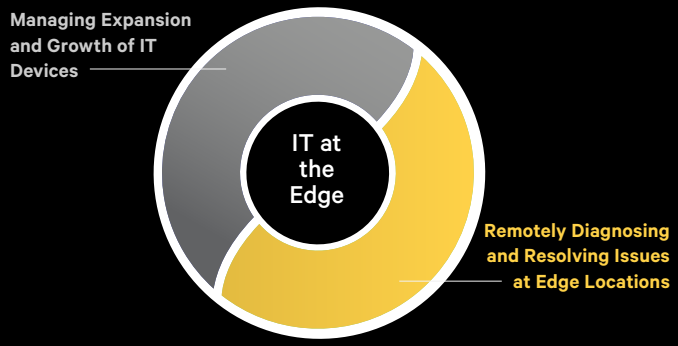

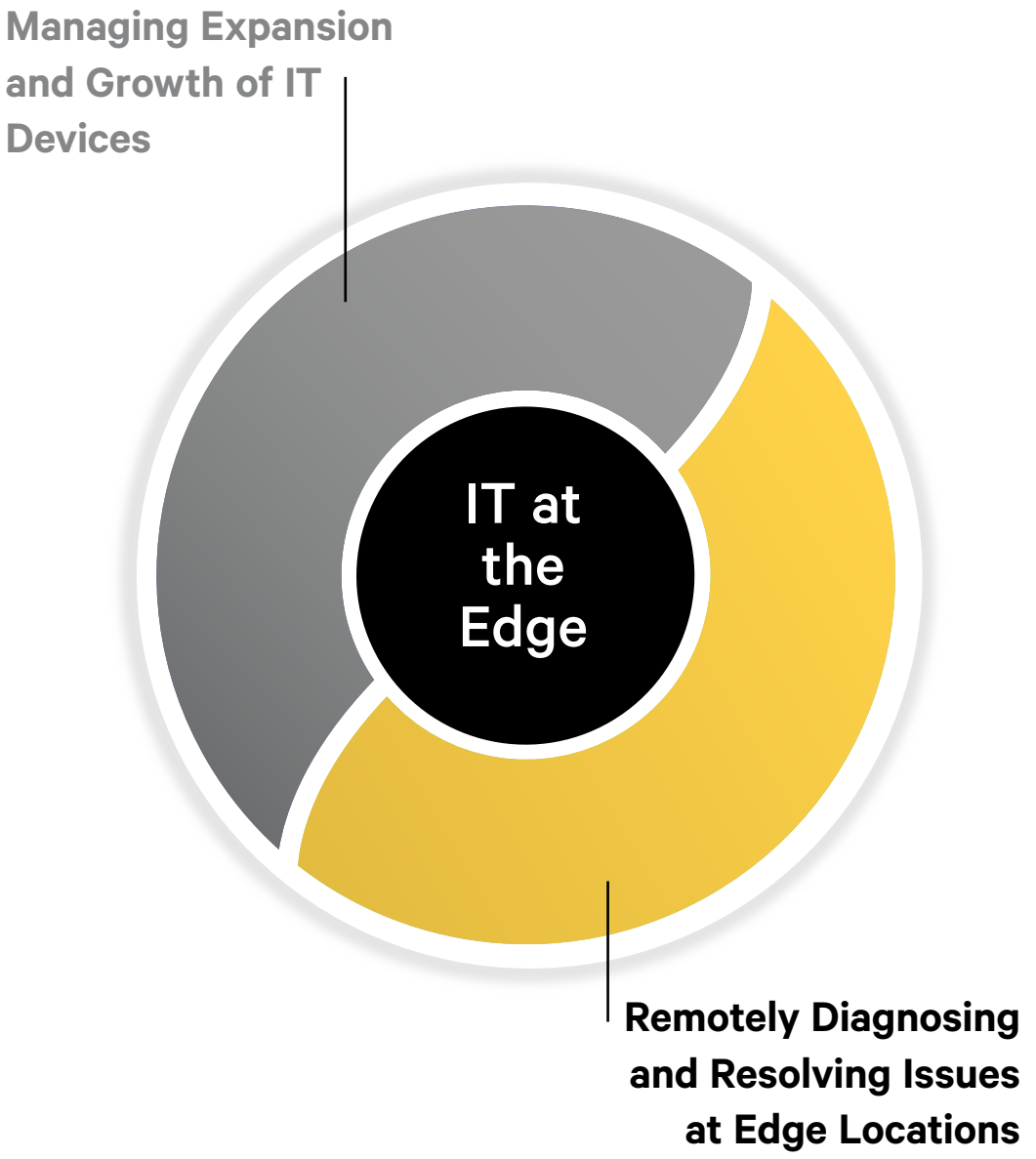

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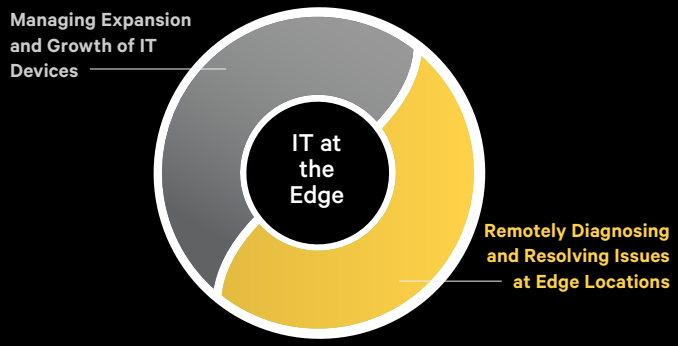

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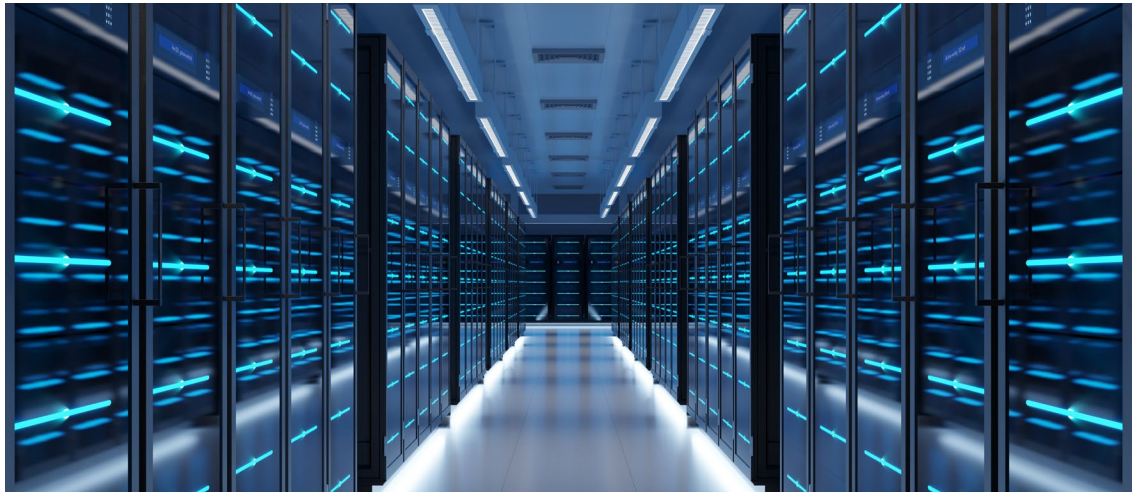
Edge complexity requires a new approach

The growth of edge computing is creating new demands on IT organizations. In our eBook, **IT at the Edge: Visibility and Management for Growth**, we review what is driving this edge growth and some considerations for better visibility, clarity, and management of IT equipment to support organizational growth. But what happens when problems arise? This eBook reviews how to understand, manage, and resolve outages at the edge in the most cost- and resource-effective way.

The IT market is changing and so must the solutions

Today's IT	Tomorrow's IT
• On-premises equipment	• Manage hybrid environment
• Little or no remote access	• Enable remote workplace
• Unable to meet growing performance demands	• Scale systems from enterprise to edge
• Manual IT configuration	• Automate data center IT management
• Challenged with multiple management products	• Build open standards and platforms
• Aged technology and capability	• High security measures



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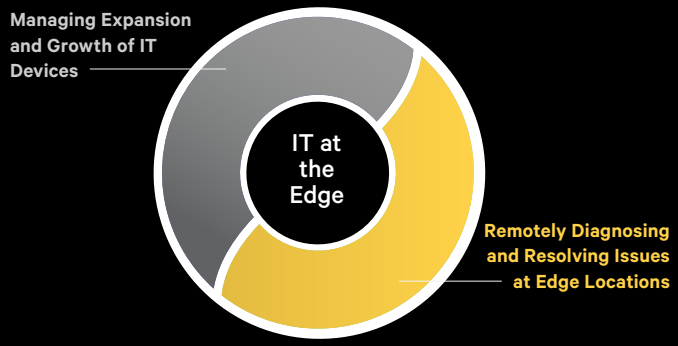

Managing problems at the Edge

Data centers are typically strategically sited to boost business performance and are run by both on-site and remote staff. Edge sites, on the other hand, are located wherever your users are. They may be unmanned and hard to reach or even considered to be dark sites. If your edge sites go down, they could take employees offline or eliminate digital product and service delivery to part of your customer base.

Edge growth is driving the following challenges:

Diagnostics

- Need to quickly diagnose problems when they occur without being on site
- Must have visibility and data across vast amounts of equipment

Skill Limitations

- Organizations don't have skilled staff everywhere they are needed
- Unqualified staff physically on site can inadvertently damage equipment

Maintaining Uptime

- Need to see device and equipment status to understand outages
- Need to ensure status and continuity without skilled resources on site

Cost of Recovery

- Edge growth makes accessing all the physical sites unreasonable or unsustainable
- Sending teams on site to resolve issues is costly and time consuming

[Why Data Center and Edge Site Business Continuity Is Now a C-Suite Priority]

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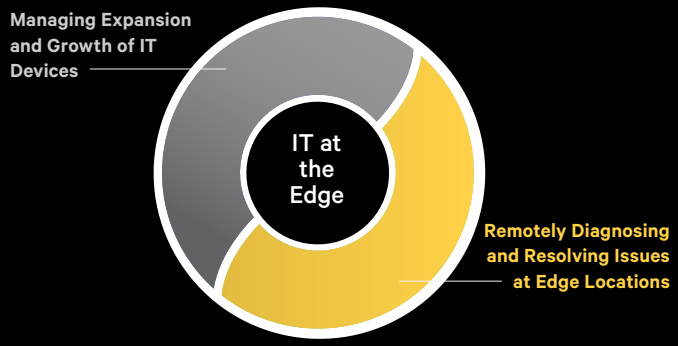

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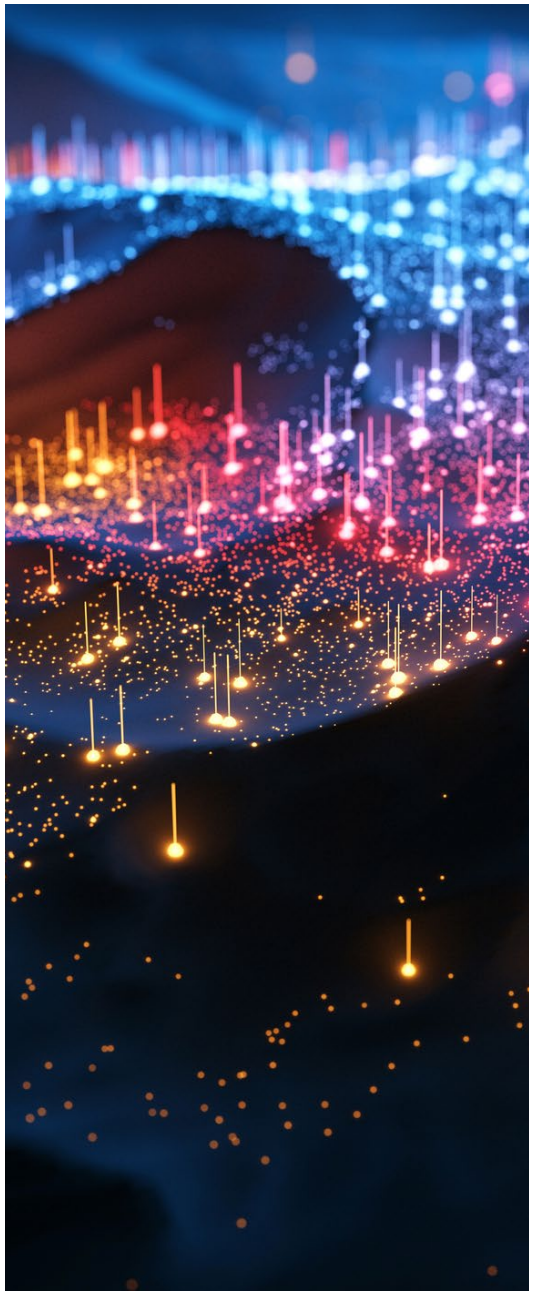
Remotely diagnose, troubleshoot, and restore outages

The theme of data center management today is liberation — from on-site management processes, costly and limiting hardware, and reliability issues. Data center managers and critical infrastructure directors are increasingly using virtualization to reduce their dependence on hardware. These leaders want to reduce their data center footprint; virtualize infrastructure tools; and take full advantage of cloud capabilities, such as ultra-fast provisioning and the ability to scale instantly.

Today's advanced edge sites need to ensure infrastructure resilience with always-on, always-connected out-of-band management to recover from any outages, especially at remote sites, rapidly.

Here's how it works:

- View health and status of all devices across sites
- Receive notifications when a problem arises
- Diagnose and understand which devices cause an outage or issue
- Remotely access equipment and devices from anywhere
- Use cellular capabilities to connect to equipment and restore service, even when the network is down or doesn't exist
- Recover systems to healthy state by remotely connecting into compute, network or physical infrastructure devices
- Recycle power on systems as needed
- Use audit events and alarm history to understand what may be contributing to device issues



[Read more about managing IT at the edge.]

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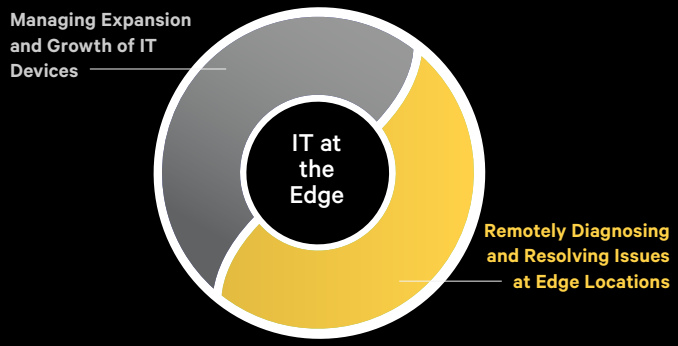

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Key considerations for selecting an IT management tool

Pursue software-first strategies	There will always be a market for data centers, however, even cloud and colocation providers are pursuing software-first strategies to increase business flexibility and speed of deployment. All users benefit by gaining high availability of resources, strengthening business continuity and disaster recovery, and minimizing their dependence on physical devices that need to be replaced at end of life.
Extend virtualization gains	Companies already have virtualized applications, desktops, networks, servers, and storage. Now that so many data center and IT teams are working remotely, these professionals would like to virtualize management tools as well, benefitting from tools that can easily be migrated to any server and provide economies of scale.
Improve visibility and control	With virtualization, teams use automated processes to monitor, manage, upgrade, power up and down, scale, and replicate resources, improving their control.

The Benefits:

- Improved visibility and control
- Increased business resilience
- Improved scaling
- Reduced total cost of ownership

Learn about Vertiv solutions for IT management.

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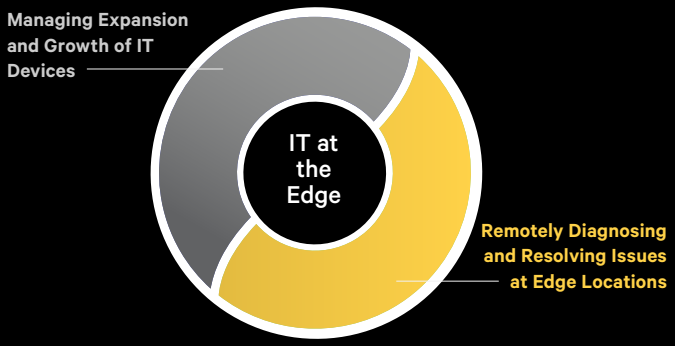

Conclusion and Resources

With the right tools, you can ensure strong management, diagnostics, and resolution of IT equipment for all your edge locations. Ensure optimal performance of your devices and equipment across all your edge locations to increase availability, reduce downtime, and remotely and save time and resources

Click here to learn more.

Additional Resources

IT at the Edge: Visibility and Management for Growth

From Enterprise to Edge: Speeding Deployment and Management of Complex IT Infrastructures

Maximizing the Edge Computing Opportunity With Centralized IT Management

See how Vertiv customers are using IT Management Solutions

Bank Unifies and Centralizes Data Center Management

Leading Global Retailer Improves Resiliency and Asset Management With Edge Computing Solution

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