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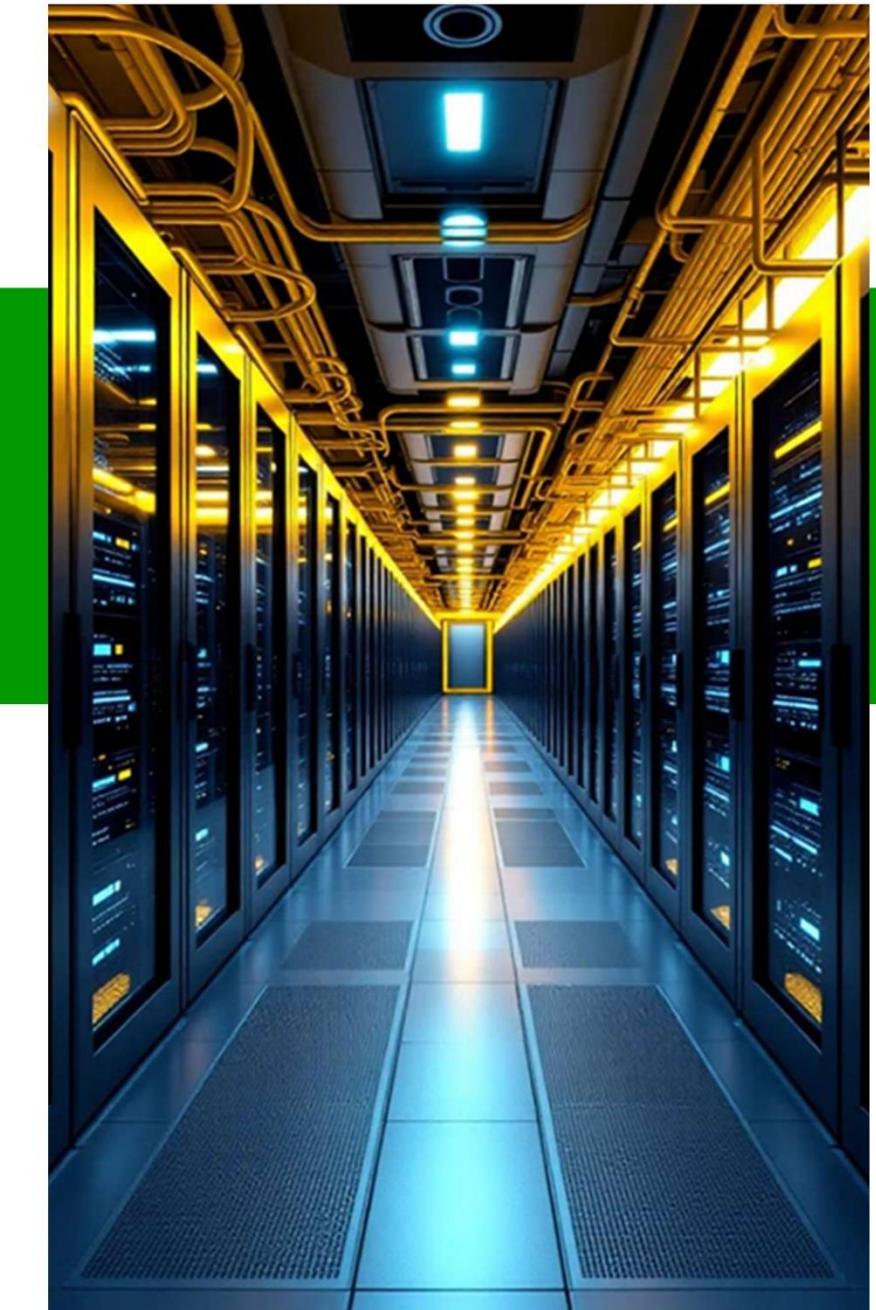
Data Center Maintenance Solutions

A data center maintenance solution involves a comprehensive strategy of regular inspections, cleaning, monitoring, testing, repairs, and equipment lifecycle management to ensure optimal performance and prevent costly outages, including routine checks of electrical, cooling systems, and hardware components like servers and network devices, often utilizing automated monitoring tools for proactive maintenance and reporting.

Data Center Maintenance Solution:

- Regular Inspections
- Monitoring and Alerting
- Patch Management
- Backup and Disaster Recovery
- Lifecycle Management
- Cleaning

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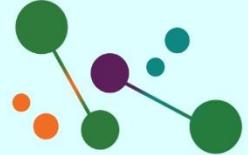




Scope OF Services

- Electrical Systems Maintenance
- Cooling System Maintenance
- Communications Cabling Maintenance
- ELV Data Center Maintenance
- Emergency Maintenance
- Network & Security Maintenance
- Storage & Server Maintenance
- Service Deliverable
- Outsources Maintenance Benefit
- Implementation Plan
- Service Level Agreement (SLA) Options





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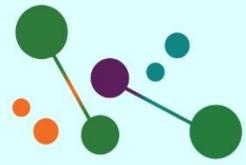
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Electrical Systems Maintenance

Electrical systems maintenance in a data center involves the inspection, cleaning, and servicing of key components. This ensures an uninterrupted, stable, and efficient power supply to the facility. The main components requiring regular maintenance include Uninterruptible Power Supply (UPS) systems, Power Distribution Units (PDUs), backup generators, transformers, switchgear, and switchboards.

- Uninterruptible Power Supply (UPS) Systems
- Power Distribution Units (PDUs)
- Backup Generators
- Transformers
- Switchgear
- Switchboards





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Cooling Systems Maintenance

Cooling systems maintenance in a data center requires routine inspection, cleaning, and servicing of essential heating, ventilation, and air conditioning (HVAC) units. These tasks help ensure optimal temperature, humidity levels, and airflow within the facility, thereby extending the lifespan of the data center's hardware. Key components requiring regular maintenance include chillers, cooling towers, Computer Room Air Conditioning (CRAC) units, Computer Room Air Handler (CRAH) units, heat exchangers, pumps, piping, and humidifiers.

- Cooling Towers
- Computer Room Air Conditioning (CRAC) Units
- Piping
- Humidifiers





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Communications Cabling Maintenance

Telecommunications cabling maintenance in a data center involves inspecting, cleaning, and servicing essential components to ensure reliable, high-speed data transmission. Components requiring regular maintenance include fiber optic cables, twisted pair (Ethernet) cables, coaxial cables, patch panels, cable trays, connectors, and junction boxes. Regular upkeep reduces signal loss, lowers latency, and prevents downtime, all of which contribute to optimal network performance.

- Fiber Optic Cables
- Twisted Pair (Ethernet) Cables
- Patch Panels
- Cable Trays
- Connectors
- Junction Boxes

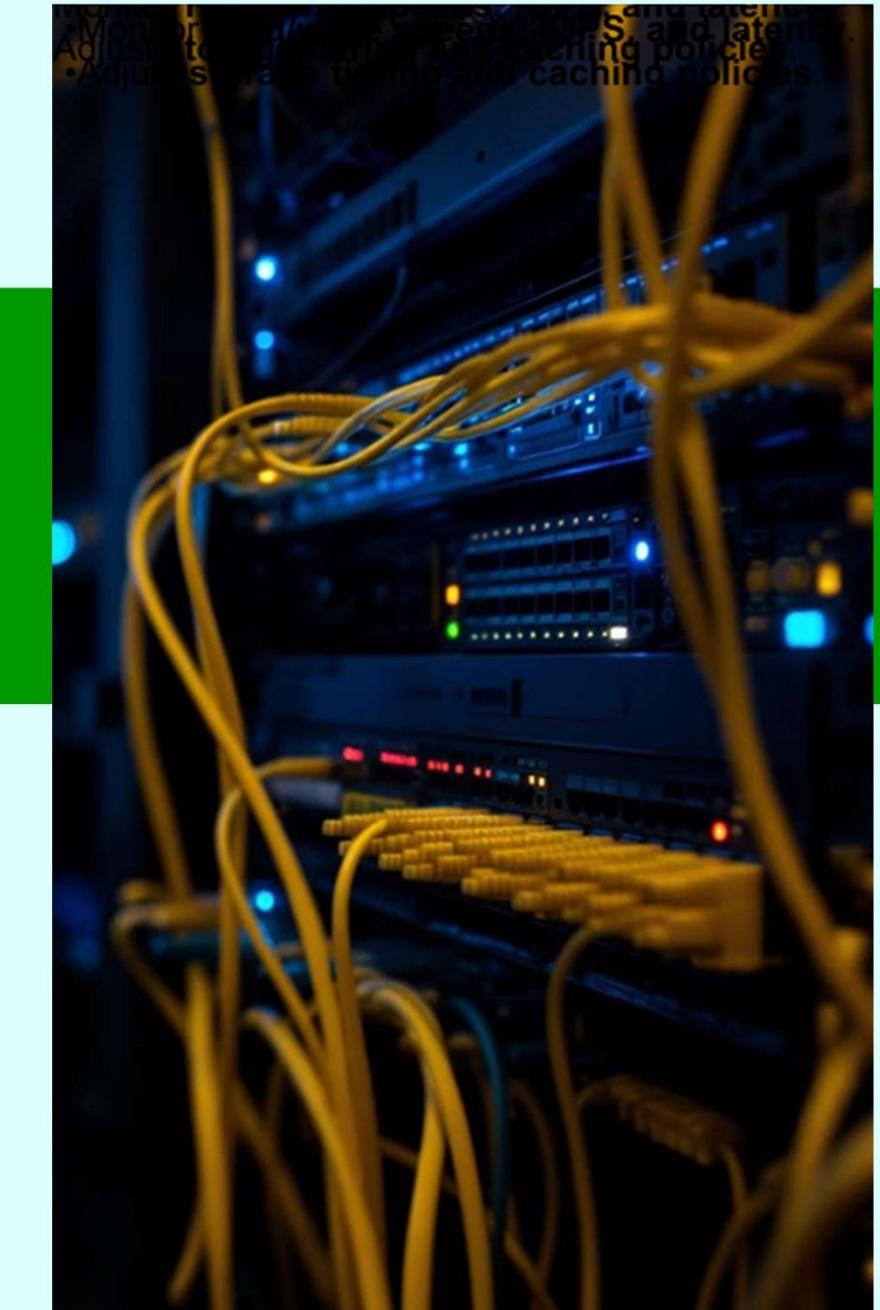




ELV Data Center Maintenance

ELV Data Center Maintenance refers to the regular upkeep and servicing of a data center's "Extra Low Voltage" systems, which include various non-critical electrical systems like security cameras, access control systems, building management systems, fire alarms, and audio-visual equipment, ensuring their proper functionality and reliability within the data center environment.

- Fire Suppression Systems
- Security Cameras
- Access Control
- PA System





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Emergency Maintenance

Emergency hardware replacement

24/7 Availability Emergency services, including weekends and holidays, are usually available to address urgent hardware failures.

Network failure diagnosis & recovery

Identifying the problem, Gathering information, Analyzing the data, Recovery Implementing solutions & Testing and verification.

Data recovery & backup validation

Data recovery & backup validation are two critical components of a comprehensive data protection strategy. They work together to ensure that data can be effectively recovered in the event of loss or corruption.





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Emergency Maintenance

Patch management & firmware updates

Patch management and firmware updates are both important aspects of maintaining secure, stable, and performant systems, but they are different levels of software and hardware.

Incident response & troubleshooting

Incident response is a structured approach to managing and responding to security incidents, such as cyberattacks, data breaches, or system intrusions.





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Network & Security Maintenance

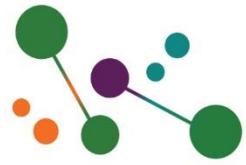
Firewall & intrusion prevention system (IPS) and Intrusion Detection (IDS) monitoring

An IDS examines traffic behavior to detect malicious patterns and generates alerts. An IPS also examines traffic behavior but takes additional steps to block malicious traffic.

Routing & Switching Performance Checking

Data center routing and switching maintenance scope typically includes: regular monitoring of network performance, high availability & redundancy (HSRP, VRRP, BGP/OSPF) & configuration backups, troubleshooting connectivity issues, hardware inspections, preventative maintenance tasks on switches and routers, cable management, security patching, and responding to network outages or alerts related to routing and switching devices.





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Network & Security Maintenance

Access control & security policy enforcement

"Access control and security policy enforcement" refers to the practice of managing who can access specific systems or data within an organization by implementing and actively monitoring security policies.

Network traffic analysis & performance tuning

Network traffic analysis is the process of monitoring and inspecting network traffic patterns to identify anomalies, potential security threats, and performance issues, while performance tuning involves optimizing network settings and configurations to improve overall network efficiency and reduce congestion.





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Compute and Storage Maintenance

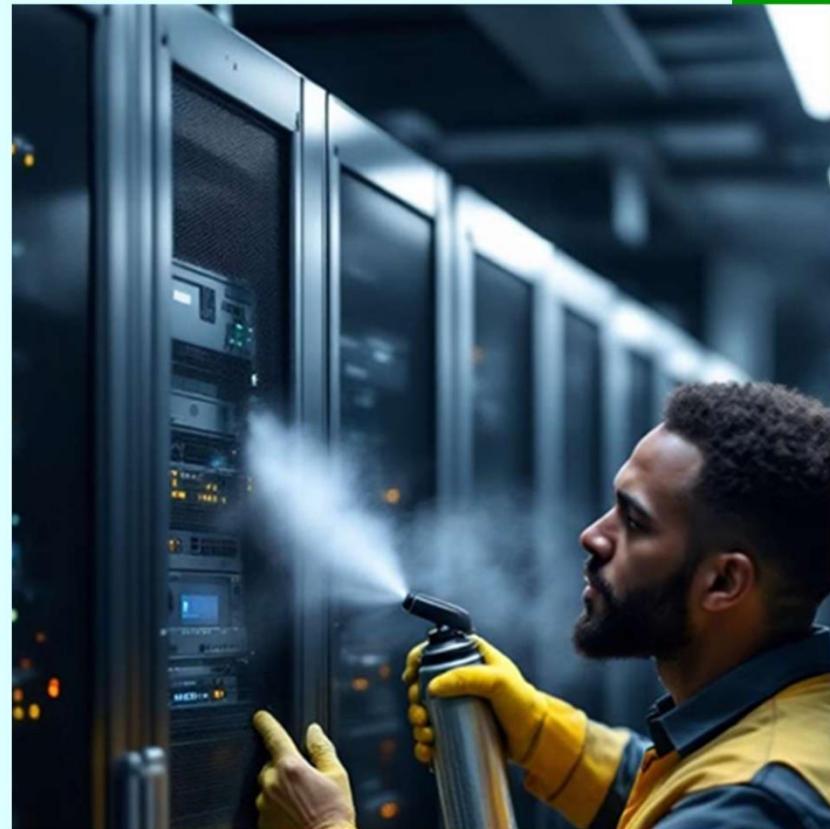
A data center compute and storage maintenance typically includes: regular inspections, preventative maintenance tasks on servers and storage devices, performance monitoring, software updates, hardware replacements, cleaning, environmental monitoring, backup verification, troubleshooting issues, security checks, and ensuring optimal operational efficiency to minimize downtime.

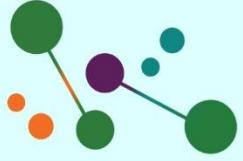
Compute maintenance

- Server hardware inspections and cleaning
- CPU, memory, and storage utilization monitoring
- Firmware updates and patching
- Performance optimization and tuning
- Redundancy checks and failover testing
- Server power supply monitoring and maintenance
- Virtual machine management and optimization

Storage maintenance

- Storage array health checks and diagnostics
- Disk space management and utilization monitoring
- Data integrity checks and verification
- Backup system testing and maintenance
- Storage capacity planning and upgrades
- Data migration and replication processes





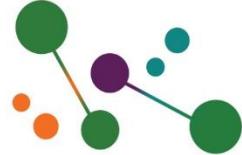
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Service Deliverables Tools and Technologies

- DCIM (Data Center Infrastructure Management)
Software: Centralized platform for monitoring, managing, and reporting on data center infrastructure.
- Environmental Monitoring Sensors: Devices to track temperature, humidity, and airflow throughout the data center.
- Power Monitoring Systems: Tracking power consumption and identifying potential power issues.
- Remote Access Tools: Enabling technicians to troubleshoot and manage equipment remotely.





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Benefits and Considerations

Reduced Downtime

Proactive maintenance helps prevent unexpected system failures, minimizing data loss and disruption to operations.

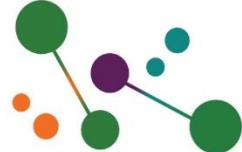
Improved Performance

Maintaining optimal operating conditions ensures consistent system performance.

Cost Savings

Early detection and prevention of issues can reduce repair costs and extend equipment lifespan.





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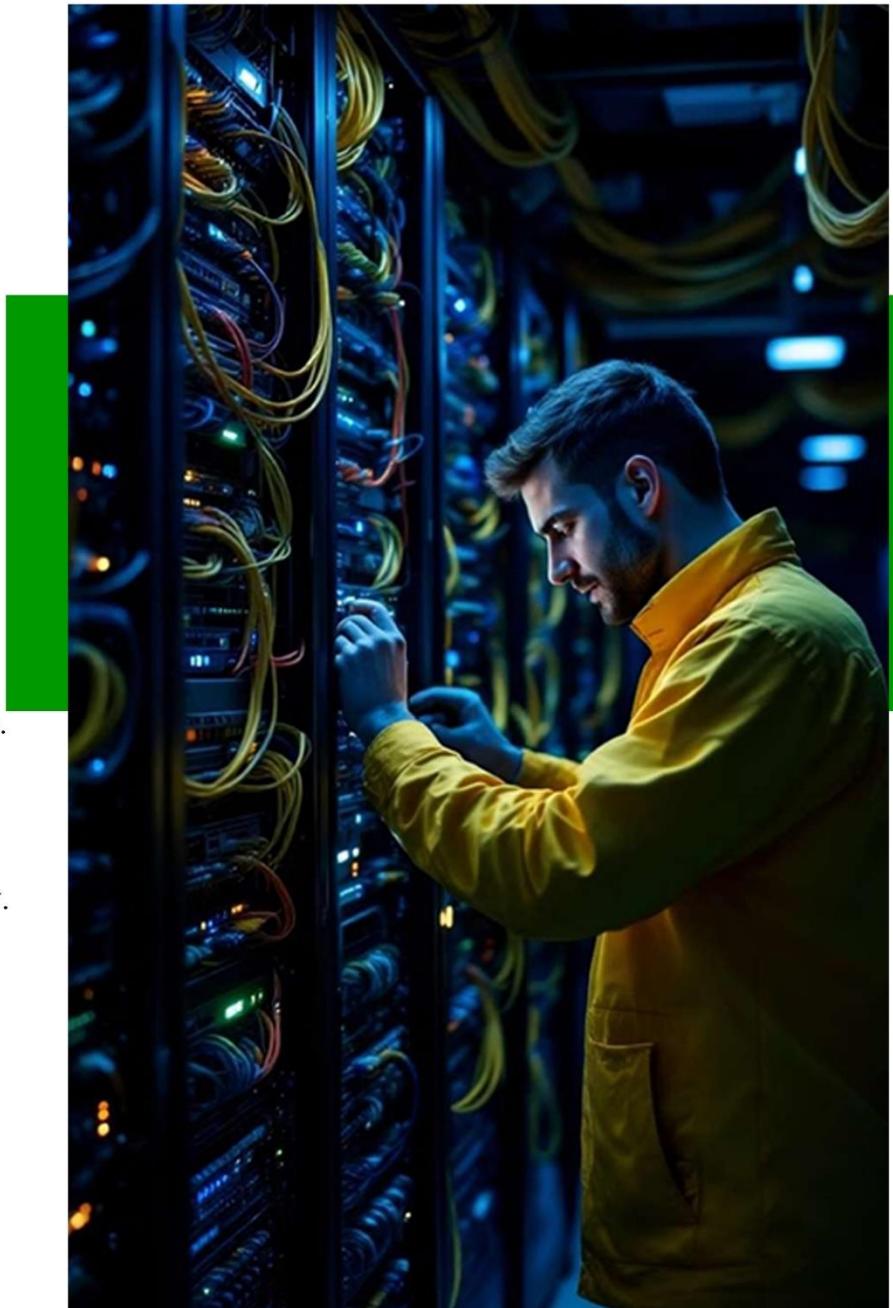
Benefits and Considerations

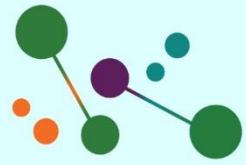
Enhanced Security

Regular maintenance checks can identify potential security vulnerabilities.

Increased Reliability

Consistent maintenance practices contribute to overall data center reliability.





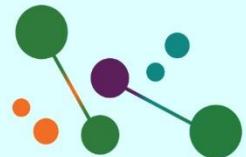
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Implementation Plan

- Initial Site Assessment & Audit
- Deployment of Monitoring & Security Tools
- Preventive Maintenance Schedule Implementation
- Incident Response & Corrective Maintenance
- Performance Review & Documentation Updates



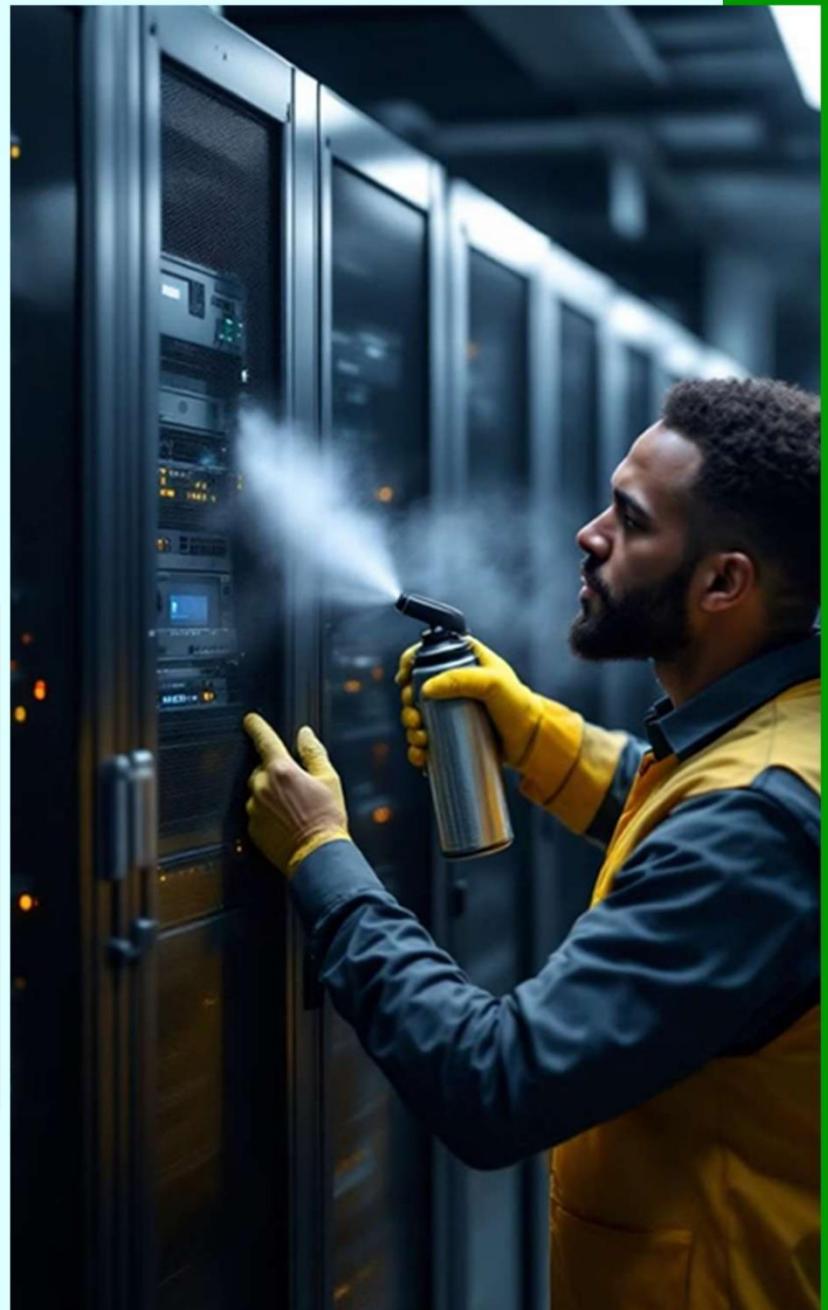


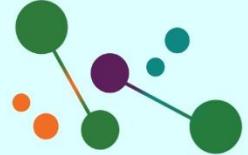
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Service Level Agreement (SLA)

SLA Tier	Response Time	Response Time	Support Type	Availability
Basic	1 Day	Next Business Day	Remote Support	8x5 (Mon-Fri)
Standard	8 Hours	6 to 12 Hours	Remote & On-Site	24x5 (Mon-Fri)
Premium	4 Hours	4 to 8 Hours	Remote & On-Site	24x7 Support





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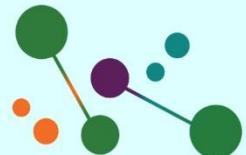
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Our Experience

UK Bakery Myanmar Data Center (Tier 1)

- Data Center Network Security
- Data Center Switching
- Data Center Computer & Storage
- Data Center Structure Cabling and Cable Management





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Get in touch with us for all of your Data Center requirements, our Technical & Solutions Team ready to support you.

Thank You !

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