Enabling resilient, secure, and sustainable IT infrastructure

EcoStruxure™ IT: The next DCIM evolution

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The changing data center landscape

" By 2025, **85% of infrastructure strategies** will integrate on-premises, colocation, cloud and edge delivery options, compared with 20% in 2020. "

– Gartner

" **Edge computing continues to gain momentum** as digital-first organizations seek to innovate outside of the data center. "

– IDC

" The traditional four walls and a ceiling no longer contain the data center. Today's data center exists without clear boundaries, **creating growing complexity**. "
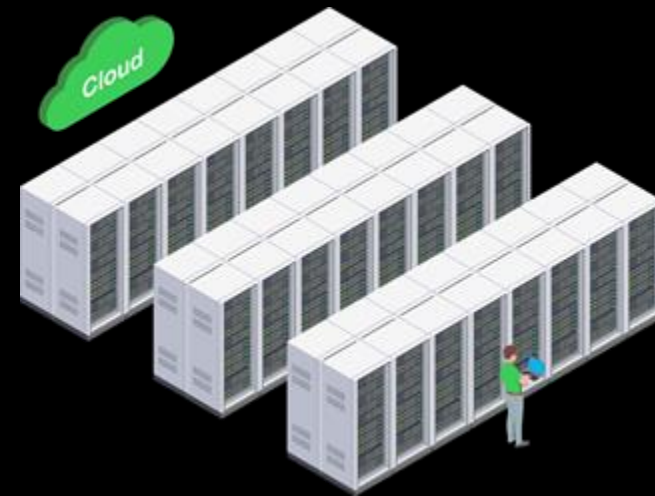
– CIO.com

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Electric

Data Center Infrastructure Management has become more complex
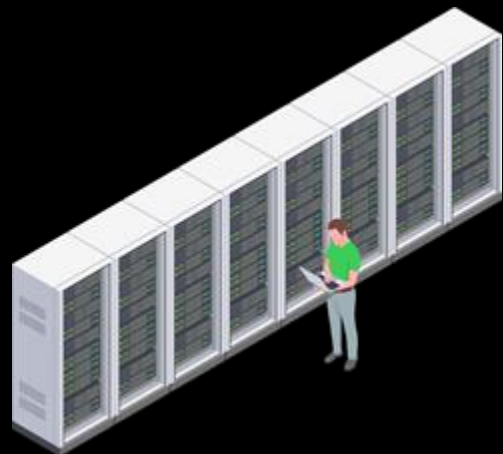
DCIM 1.0
The growth of the client / server model

- Drove need for small UPS'
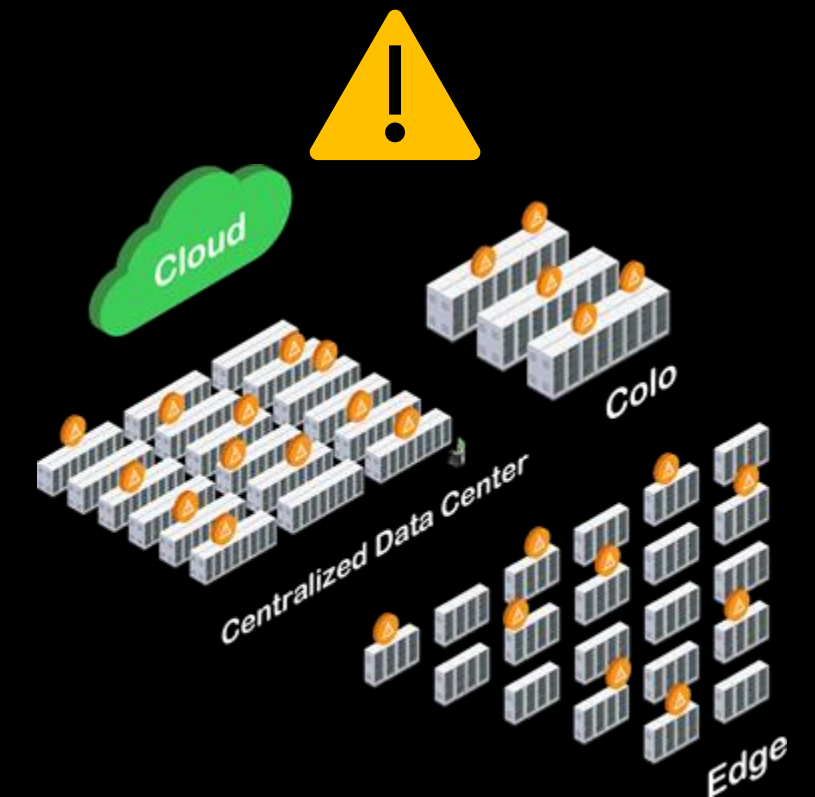- Subsequent software to manage them

DCIM 2.0
Dot-com bubble bursts and centralized IT

- Redefined the data center
- Software for IT space planning, PUE, power, and cooling challenges

DCIM 3.0
Pandemic and remote work drive hybrid IT

- Expanded need for "infrastructure everywhere"
- Must enable uptime, security, and sustainability for distributed IT

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IT trends driving the need to improve DCIM strategy

Cybersecurity tops the list of business concerns.

#1

ranking for cybersecurity in 2022 on

Allianz Risk Barometer

(Source: Allianz)

Resiliency requirements **are rising.**

62%

of IT outages can be attributed to infrastructure failures by cloud and colocation suppliers.

(Source: Uptime Institute)

Sustainability is **good business.**

99%

of CEOs agree that sustainability is critical to business success.

(Source: Harvard Business Review)

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With data centers everywhere, **NOW is the time** to evolve to DCIM 3.0

How do you make hybrid IT more resilient, secure, and sustainable?

Cloud

Colo

Centralized Data Center

Edge

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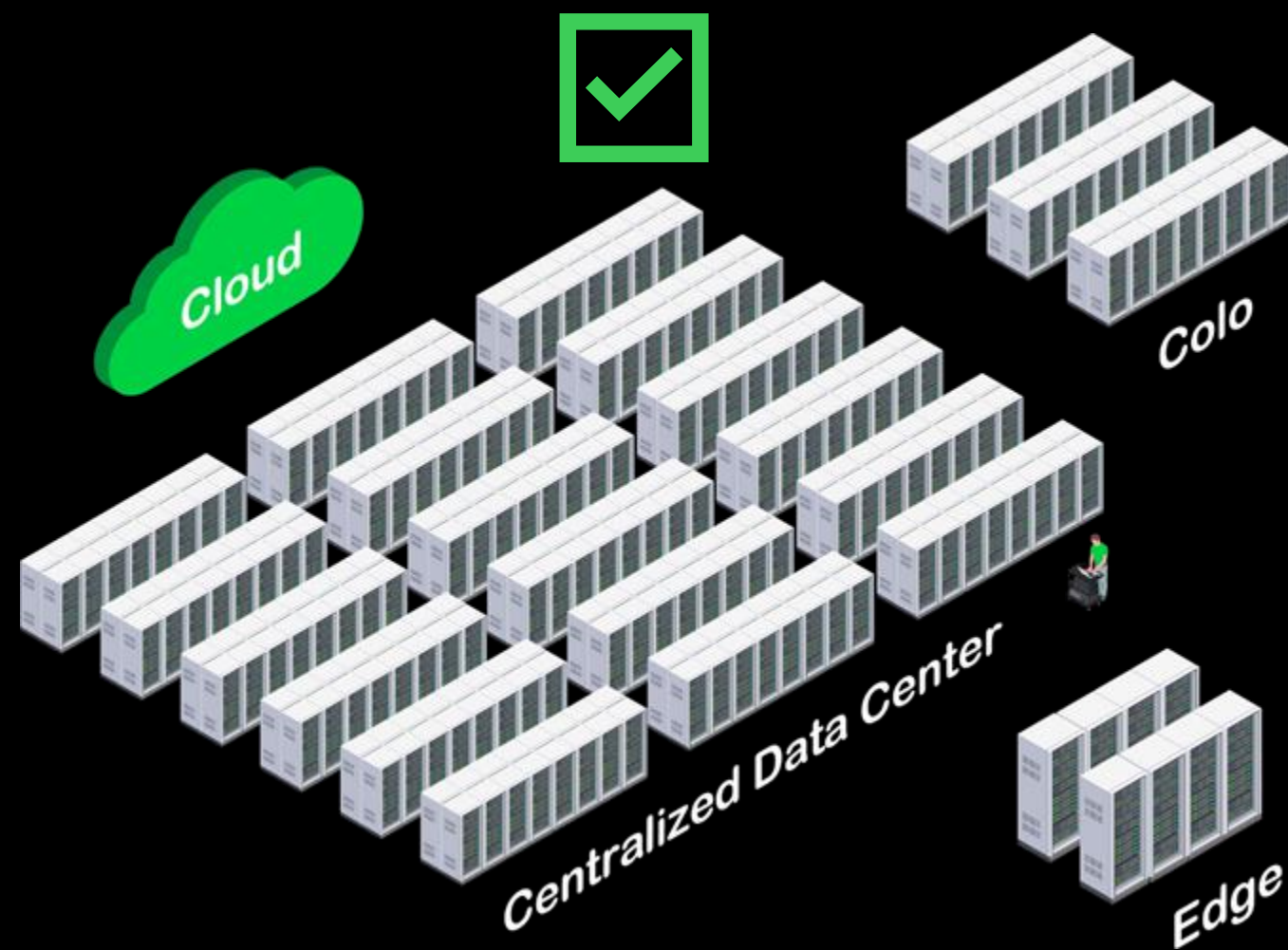
Achieving DCIM 3.0

with a comprehensive DCIM portfolio

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EcoStruxure IT helps organizations evolve to DCIM 3.0

Schneider Electric's comprehensive DCIM solution, EcoStruxure IT, ensures business continuity by enabling secure monitoring, management, insights, planning, and modeling whether from a single IT rack to hyper-scale IT, on premises, in the cloud, and at the edge.

EcoStruxure IT

Monitoring & management

Planning & modeling

Custom solutions & integrations

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EcoStruxure IT suite of comprehensive capabilities

Covering the market shift to hybrid IT data centers to solve customer challenges

EcoStruxure IT

Monitoring & management

On-premises and cloud-based solutions
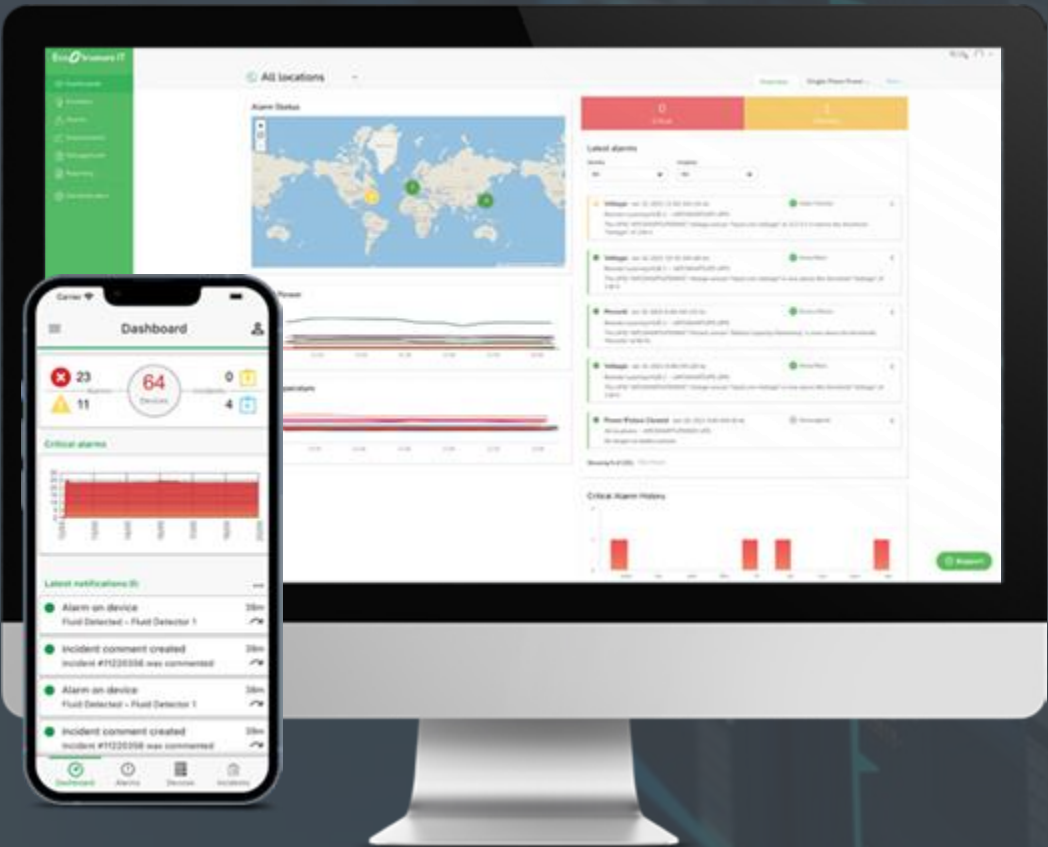
Power

Cooling

Environment & Security

VM Protection

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EcoStruxure IT suite of comprehensive capabilities

Covering the market shift to hybrid IT data centers to solve customer challenges

EcoStruxure IT

Planning & modeling

On-premises and cloud-based solutions
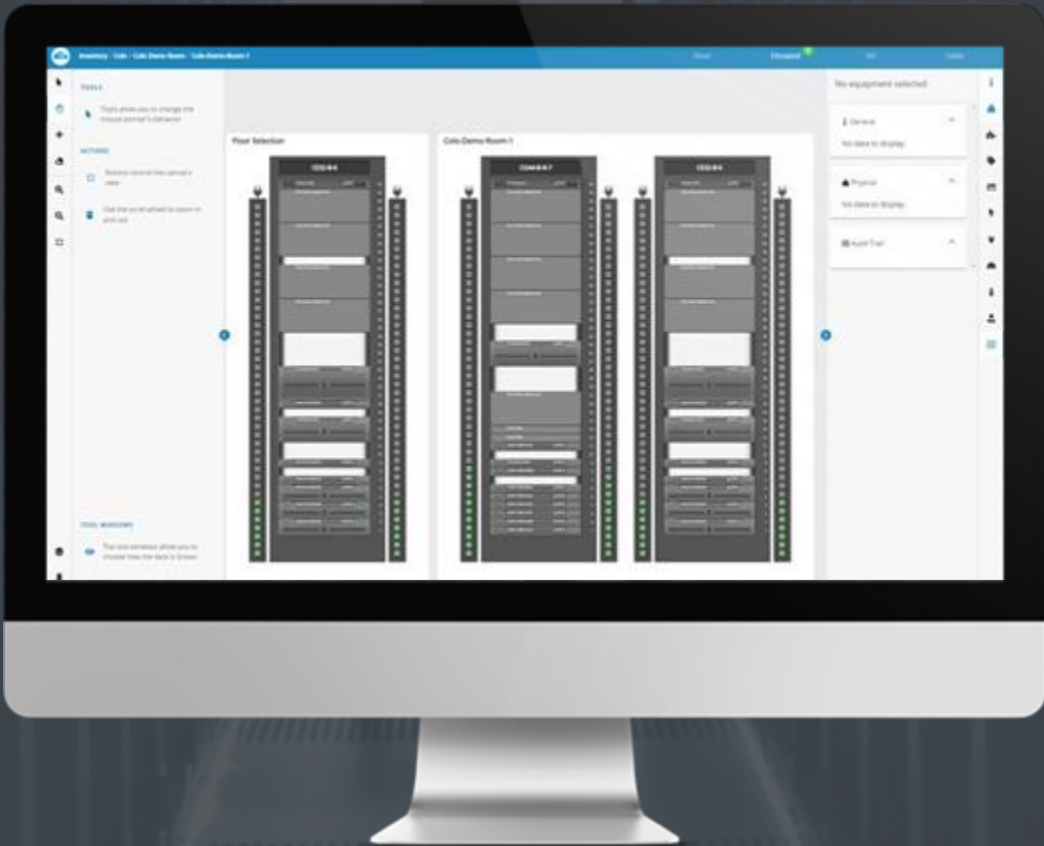
Visualization

Tracking

Simulation

Tenant Portal

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EcoStruxure IT suite of comprehensive capabilities

Covering the market shift to hybrid IT data centers to solve customer challenges

EcoStruxure IT

Custom solutions & integrations
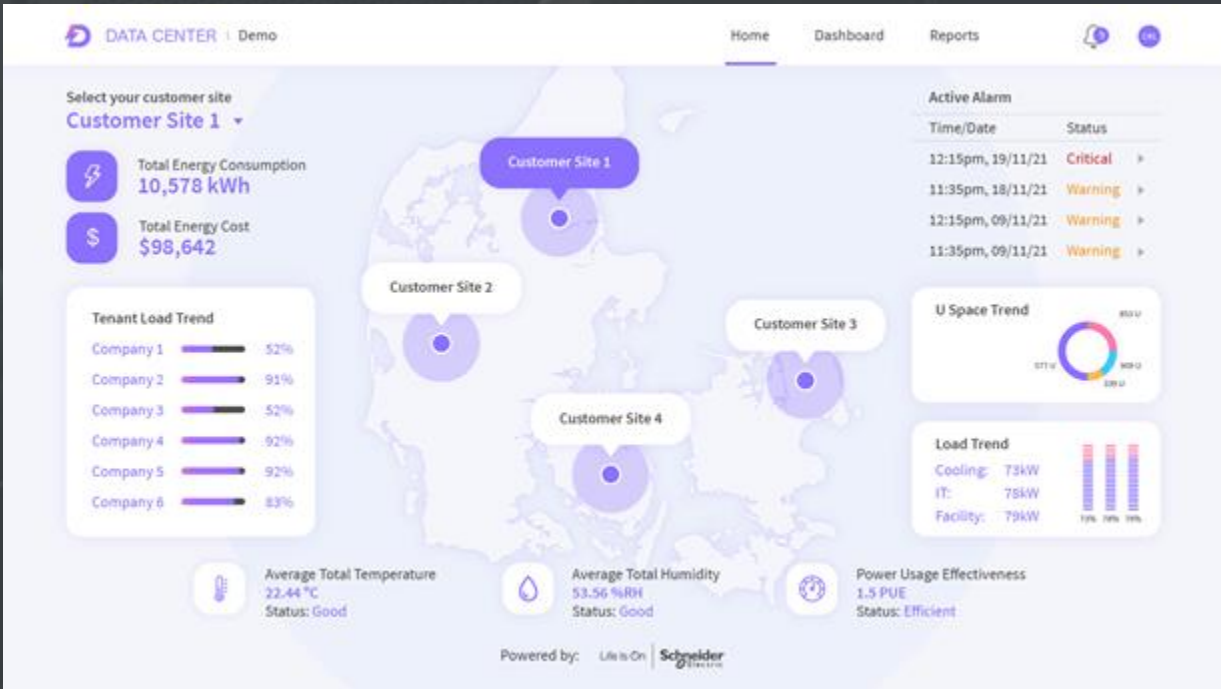
Automated Reports

Custom Dashboards

3rd Party Integrations

Customized Software

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EcoStruxure IT solutions

Solving data center market challenges with standard and custom solutions

Monitoring & management

IT Expert
Cloud-based software

Data Center Expert
On-premises software

NetBotz
Appliances, Cameras, Sensors

PowerChute™ Network Shutdown
On-premises software

Planning & modeling
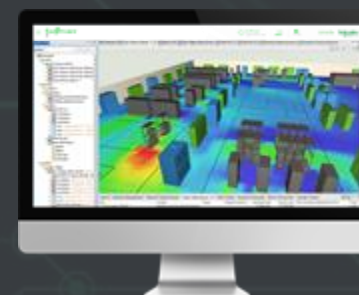
IT Advisor
On-premises and cloud-based software

Custom solutions & integrations

Solutions fully tailored to your needs or customization of your standard solutions

Applications
Enterprise data center
Colocation and service provider data center

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EcoStruxure IT enhances resiliency

…reduces vulnerability to unplanned downtime

Monitoring & management

Perform device monitoring and health assessments

IT Expert and Data Center Expert

IT-integrated alarms to **manage and proactively protect** server and hyperconverged infrastructures

PowerChute Network Shutdown

Monitor temperature and humidity to prevent damage and outages

NetBotz Appliances, cameras, sensors, and rack access

Planning & modeling

Run simulated impacts to expose vulnerabilities and address them

IT Advisor

Resilient

Custom Solutions & Integrations

Collect and store generated by EcoStruxure IT and any other IT system in a Custom Engine – enabling cross-platform sharing to gain operational insights to control risk, and optimize and manage your business all without impacting your core EcoStruxure IT solution performance

EcoStruxure IT Custom Solutions and Integrations & Advanced Custom Solutions (ACS) Engine

Team of high skilled engineers all over the world and ACS engine to custom tailor a DCIM solution to your needs

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EcoStruxure IT enhances security

… across your entire attack surface and reduces cybersecurity threats

Monitoring & management

Conduct cybersecurity assessments of physical infrastructure and perform mass device firmware updates

IT Expert and Data Center Expert

Utilizing the most secure communication methods while providing resiliency and sustainability for UPS'

PowerChute Network Shutdown

Enable surveillance and recording for compliance, racks with access controls **lock down** to protect assets, and **monitoring** environmentals to reduce physical threats

NetBotz Appliances, cameras, sensors, and rack access

Planning & modeling

Reporting and analytics with **asset audit trail** to track asset moves, adds and changes by date/time, owner and work orders to corroborate with other security measures in place help maintain secured spaces

IT Advisor

Custom Solutions & Integrations

Ensure a stable and secure data exchange when creating dashboards and reports across different platforms

Integrate → Collect → Create → Maintain

EcoStruxure IT Custom Solutions and Integrations & ACS Engine

ACS engine available for custom solutions:
Reports, dashboards, integrations, and features

Secure

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EcoStruxure IT supports sustainability goals

... with real-time power monitoring, dashboards, and reports for improved transparency

Monitoring & management

Accurate, real-time power consumption with monitoring and management solutions

IT Expert and Data Center Expert

Supporting energy management reporting for UPS'

PowerChute Network Shutdown

Monitor environmental conditions to optimize and maintain performance of power and cooling infrastructure

NetBotz
Appliances, cameras, sensors, and rack access

Planning & modeling

- **Track PUE,** energy, and carbon
- **Capacity management** minimize IT footprint
- **Simulate layout for cooling optimization**

- **Measure** energy efficiency down to sub-system level
- **Reduce power** with server management and AI-enabled cooling

IT Advisor
Cloud-based and on-premises software

Sustainable

Custom Solutions & Integrations

We deliver both standard and customized **reports** and dashboards

EcoStruxure IT Custom Solutions and Integrations & ACS Engine

ACS engine available for custom solutions:
Reports, dashboards, integrations, and features

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IT Expert

From incident solving to incident prevention

Monitoring & management

Monitoring and alarming

Preventative management

Wherever-you-go visibility

AI-driven insights

Security reinforcement

> **Cloud-based,** advanced remote monitoring tool for **wherever-you-go visibility** and alarms, preventative management, and data-driven recommendations to mitigate security and failure risks of your data center and distributed IT infrastructures.

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Data Center Expert

Real-time monitoring and centralized management

Monitoring & management

Monitoring and alarming

Device mass configuration

Integrated data storage

NetBotz physical monitoring
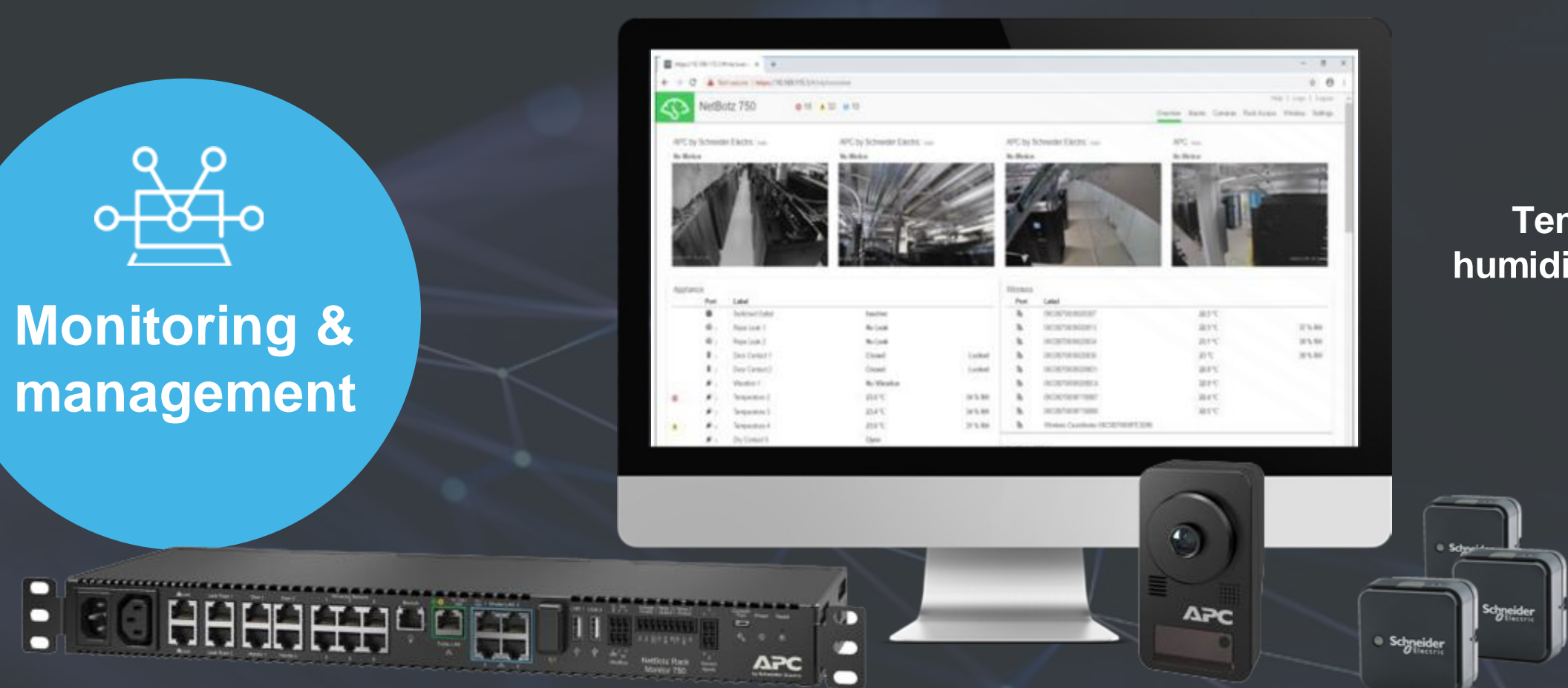
Private network

On-premise, enterprise data center software, provides an efficient way for organizations to monitor and manage their company-wide multi-vendor physical infrastructure: power, cooling, security, and environment.

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NetBotz

The industry's most comprehensive solution for IT security and environmental monitoring

Monitoring & management

Temperature/ humidity monitoring

Leak and fire hazard prevention

Access control

Surveillance and recording

Manage/monitor with Data Center Expert

" **NetBotz** consists of rack mount and wall mount appliances, sensor pods, and sensors, designed to provide a wide range of integrated environmental monitoring, surveillance, and access control for sensitive equipment. "

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PowerChute™ Network Shutdown

Industry-leading power protection for your server and hyperconverged infrastructure (HCI) systems

Monitoring & management
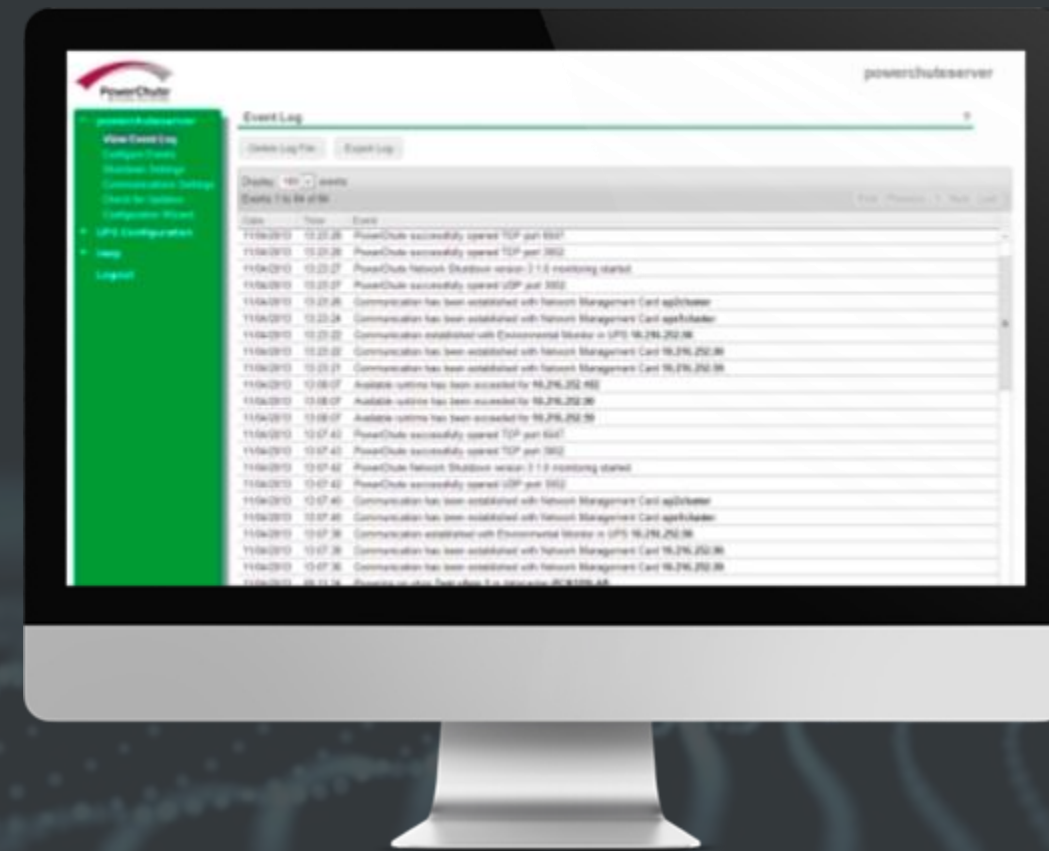
Unattended, graceful shutdown

Automated start-up

No dedicated hardware required

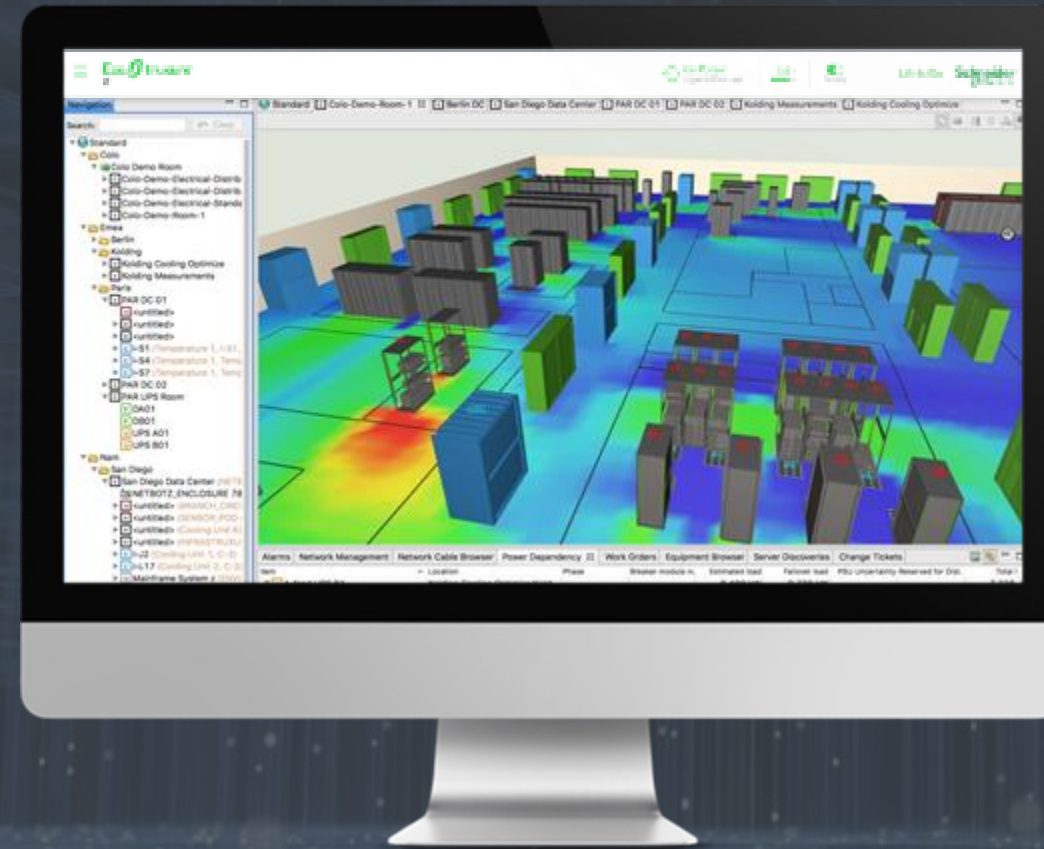**Redundant UPS support**

Integration with key HCI manufacturers

" … PowerChute Network Shutdown works in conjunction with APC UPS Network Management Cards to protect your physical and virtual IT environment from threats to IT availability. "

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IT Advisor

Data center infrastructure planning and modeling solution

Planning & modeling

Analytics with insights, comparisons, and trends

Optimize temperatures and asset lifespan

Reduce power consumers

Efficient operations

Limit risk of downtime

" **…** Let's make the most of every square meter and kW with better planning and more visibility. Daily data center infrastructure management is made simpler and more efficient with full insights into your data center or colocation infrastructure. Achieve operational excellence through proper asset tracking, risk management, and capacity optimization. "

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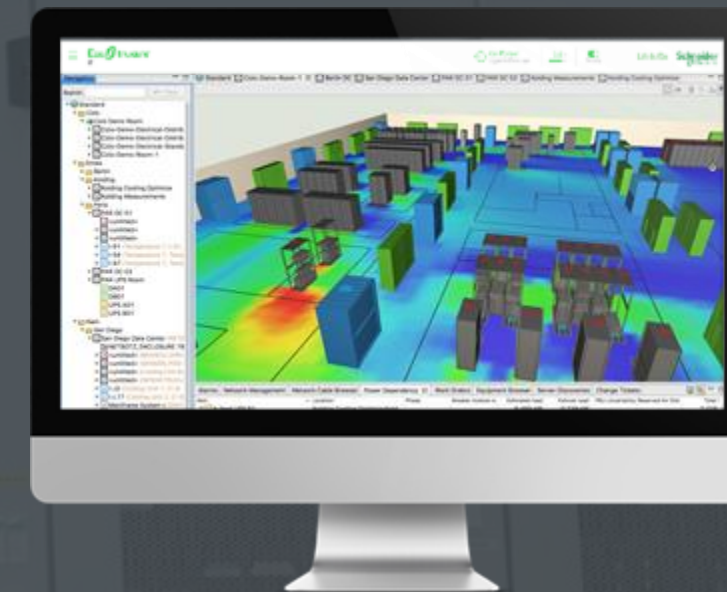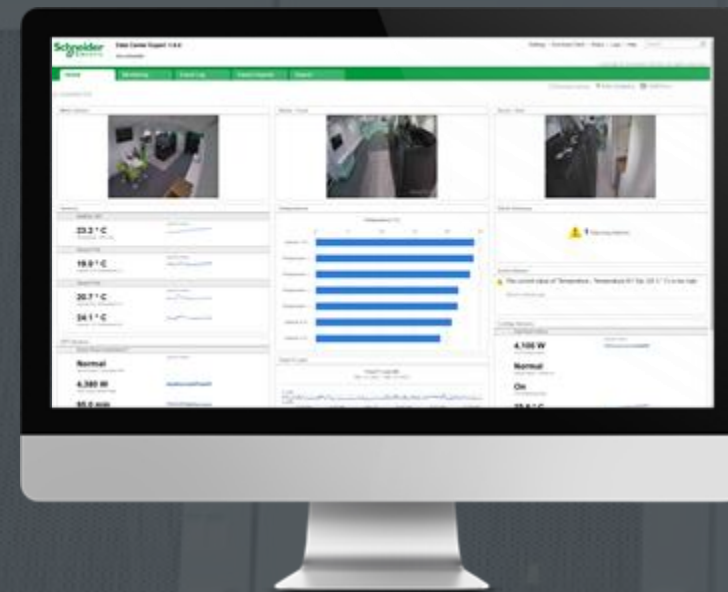# EcoStruxure IT delivers a vendor-neutral DCIM experience

IT Expert and Data Center Expert
Monitoring and management software

Monitoring, management, insights
- Unique, value-add support for SE and APC devices

Monitoring
- Best-in-class support for third party devices based on customer demand

IT Advisor
Planning and modeling software

- 4000+ third party device reference
- Wide range of support
- Competitive advantage on third party device management

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Custom solutions and integrations

Maximize your investment in EcoStruxure IT software and free up staff time with custom solutions developed for you by our team of highly skilled engineers

Custom solutions & integrations

Automated reports

Custom dashboards

Integrations

Custom features

Gateway/ protocol translation

Data migration from 3rd party to EcoStruxure IT

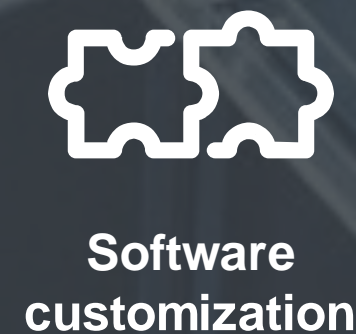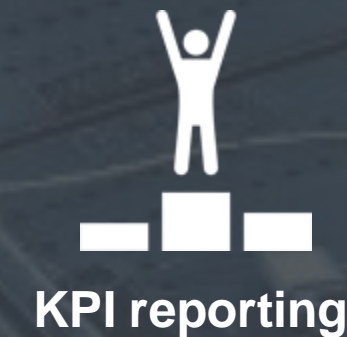**3rd party device integration (DDF and genomes)**

Remote and on-site tech and development support

Applications:

Enterprise data center
Colocation and service provider data center

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Advanced Custom Solutions (ACS) Engine

A powerful platform on which a community of developers, both Schneider Electric and partners, can create business driven outcomes, turning data into meaningful business insights

Custom solutions & integrations

KPI reporting

Automated reporting

Customer billing

Software customization

Energy reports and dashboards

Enabling BI self-reporting

The platform provides the ability to ingest and combine data from a variety of sources; for example, monitored data from BMS, EMS, Data Center Expert, IT Expert, customer asset data from DCIMITSM, ERP, CRM, and CMDB.

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EcoStruxure system architecture

Enterprise operations

- ITSM — ServiceNow
- IT systems — Microsoft, VMWare
- Enterprise resource planning — Oracle, SAP
- Customer resource management — Salesforce

SE developers

3rd Party BI Tools
- Customer billing
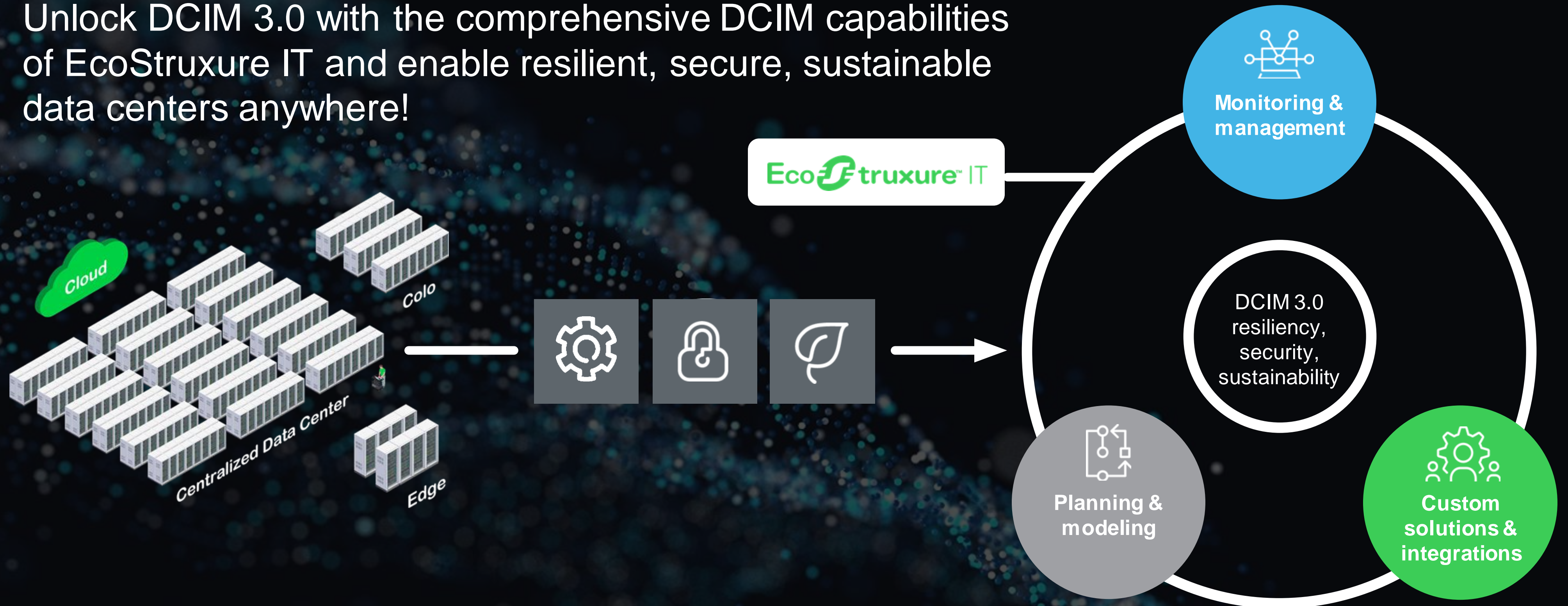- Automated reports
- Dashboards

Operations analytics
Apps, analytics, services

- IT Advisor
- Asset management
- Capacity planning
- Change management
- Tenant portal

ACS Engine

Business Insights
Delivered in ACS Engine
- Customer billing
- Automated reports
- Dashboards

Corporate WAN

Facility operations
Edge operations

IP / serial to IP communication

Building LAN

- Data Center Expert
- IT Expert
- Power Monitoring Expert
- Building Operation
- Power Scada Operation

Facility systems
Connected devices

- EcoStruxure Data Center Solutions
- InRow cooling
- NetBotz
- UPS
- AC drive
- Cooling
- Field controllers
- Chiller
- Building device
- Circuit breaker
- Power meter
- Switchgear

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DCIM must evolve

Unlock DCIM 3.0 with the comprehensive DCIM capabilities of EcoStruxure IT and enable resilient, secure, sustainable data centers anywhere!

EcoStruxure™ IT

Cloud

Colo

Centralized Data Center

Edge

Monitoring & management

DCIM 3.0 resiliency, security, sustainability

Planning & modeling

Custom solutions & integrations

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In summary…

1 Get started today with a 30-day free trial
Visit EcoStruxureIT.com to sign up and activate

2 More information on EcoStruxureIT.com

3 Follow up communication from our Customer
Success Management Team upon activating free
trial

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