



EcoStruxure IT for Data Center Management – DCIM 3.0

Menyanan Jaya Lestari Event
APC Annual Gathering And Expo Solo
Solo, 16 September 2025

Agustama Romanus Sipayung – Head of Enterprise & Solution Sales

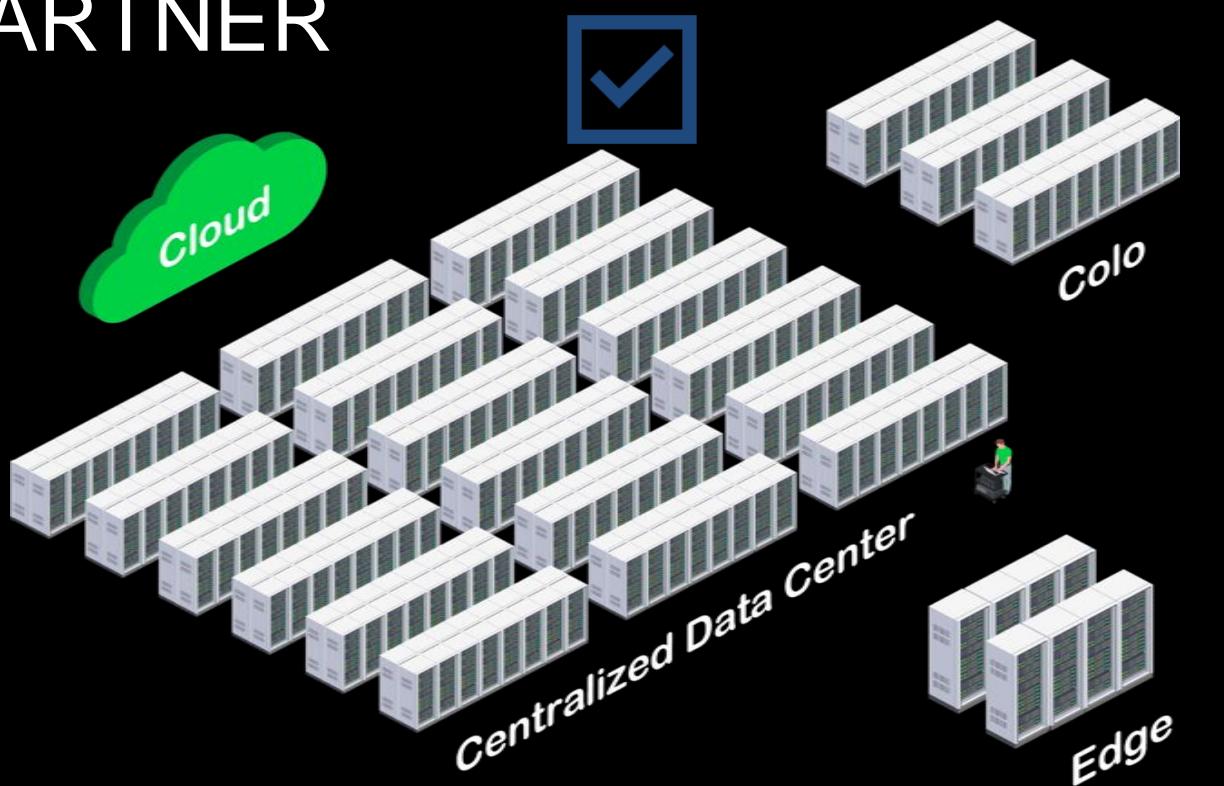


Life Is On

Schneider
Electric

What is data center infrastructure management (DCIM) software?

Data center infrastructure management (DCIM) tools monitor, measure, manage and/or control data center resources and energy consumption of both IT-related equipment (such as servers, storage and network switches) and facilities infrastructure components (such as power distribution units and computer room air conditioners) - GARTNER



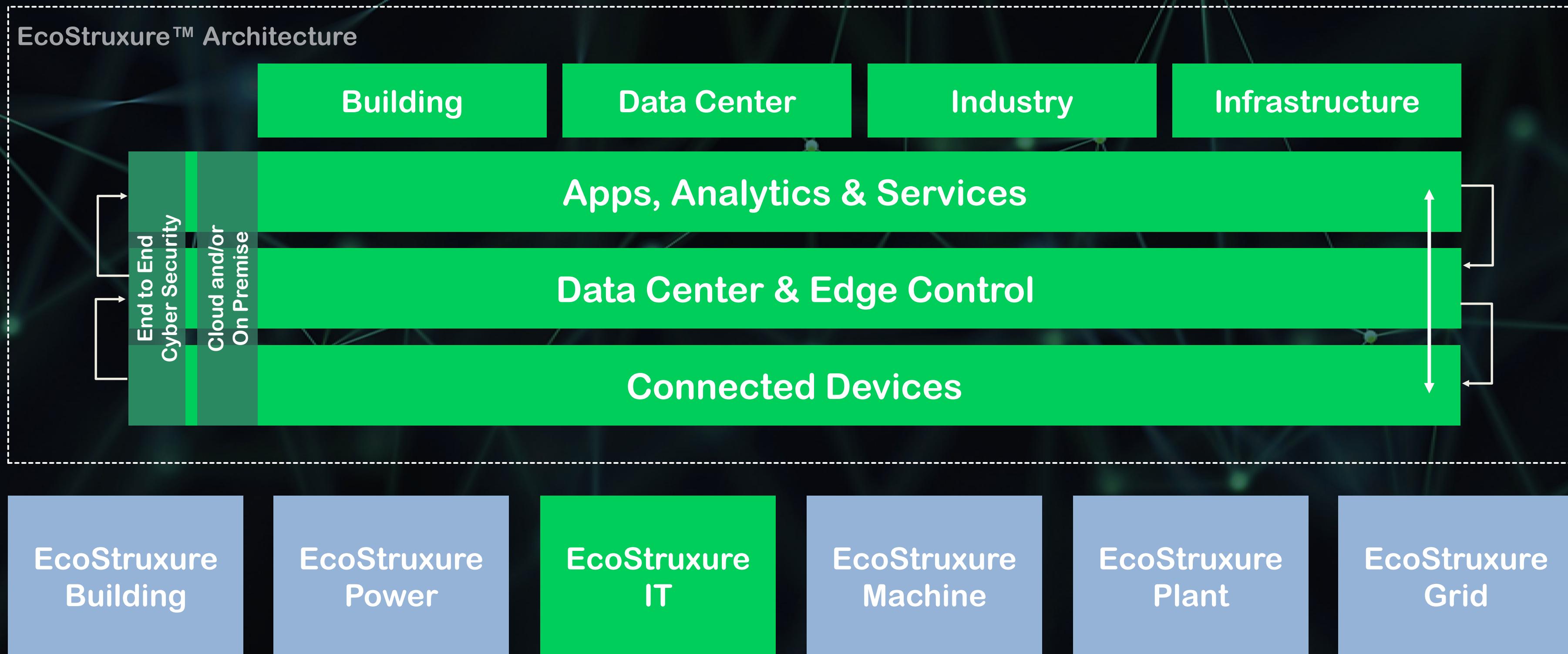


ECOSTRUXURE IT

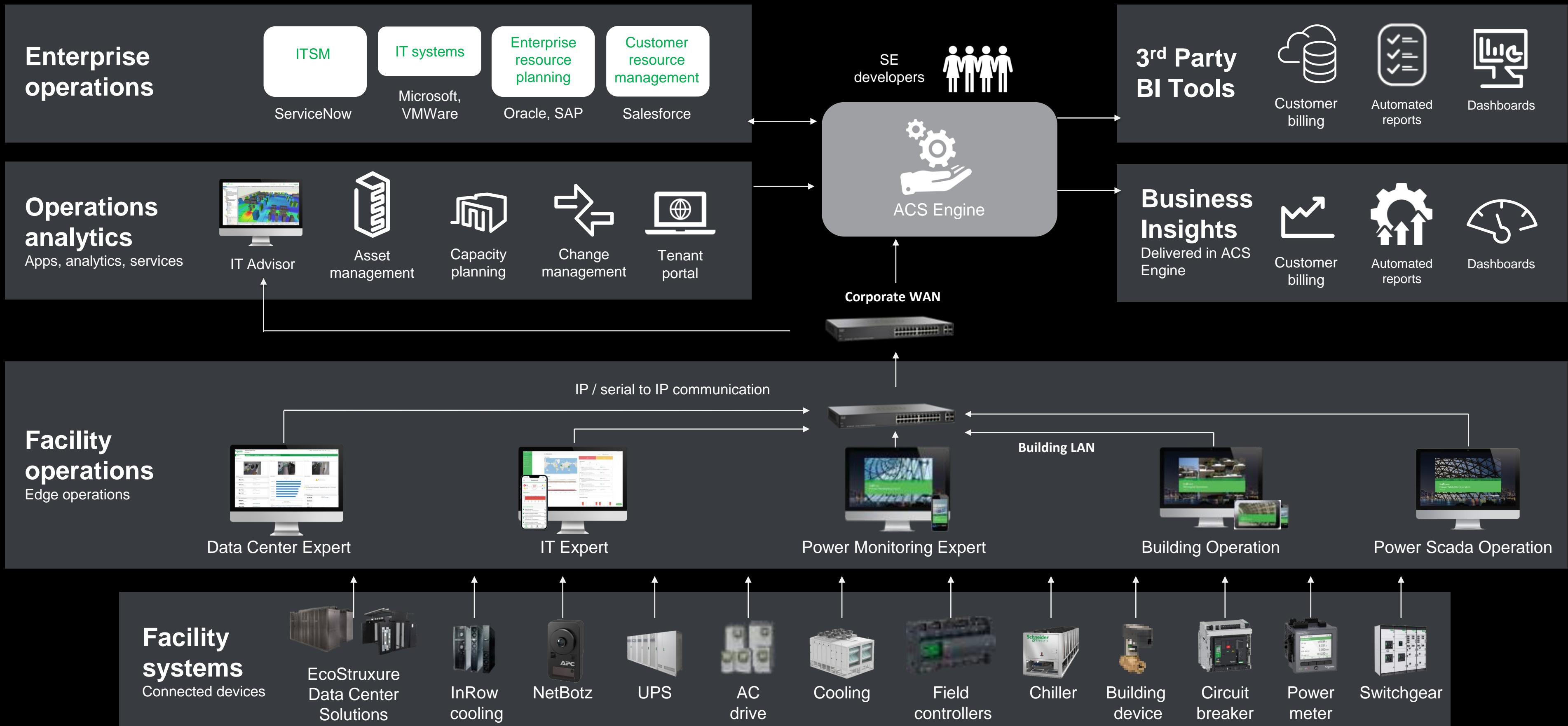
EcoStruxure IT is part of Schneider Electric's IoT-enabled, plug-and-play, open, interoperable architecture and platform, in Homes, Buildings, Data Centers, Infrastructure and Industries.

Source : www.ecostruxureit.com

EcoStruxure Solution Framework



EcoStruxure system architecture



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)

EcoStruxure IT addresses the challenges

to enable resilient, secure and sustainable IT data centers



Solution

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

EcoStruxure IT



Mass Configuration, On/Off settings, Temp thresholds etc.

Firmware update of devices

Monitoring & Management

Monitoring and device management for critical power and cooling infrastructure

Power protection for Server/HCI

IT Expert & Data Center Expert
Cloud-based and on-premises software

PowerChute
On-prem software

Physical security and environmental monitoring

NetBotz
Appliances, Cameras, Sensors

- Unique, value-add support for SE and APC devices
- Best-in-class support for 3rd party devices based on customer demand



Planning & Modeling

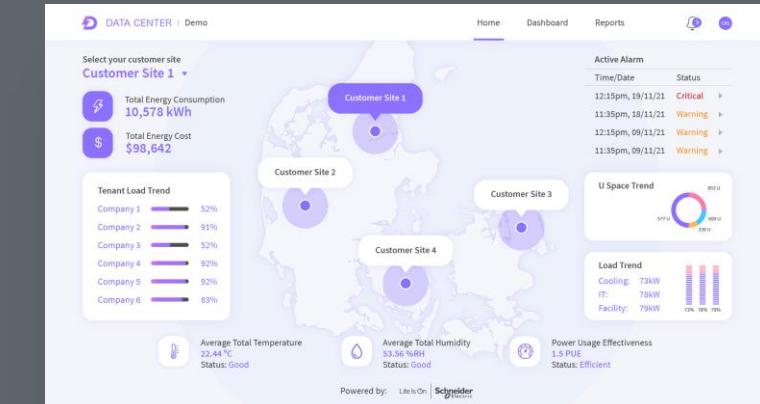
Planning, modeling, and optimization of critical IT infrastructure

IT Advisor
On-premises and cloud-based software

- 4000+ 3rd party device reference
- Wide range of support
- Competitive advantage on 3rd party device management



Custom Solutions & Integrations



The dashboard displays various data points such as Total Energy Consumption (10,573 kWh), Total Energy Cost (\$98,642), Tenant Load Trend, U Space Trend, Load Trend, Cooling IT, Average Total Temperature (22.44 °C), Average Total Humidity (53.36 RH%), and Power Usage Effectiveness (1.5 PUE).

Automated Reports

Custom Dashboards

3rd Party Integrations

Customized Software



EcoStruxure IT in practice

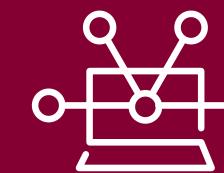
Customer results and use cases

How EcoStruxure IT supports sustainability goals

Customer	Challenge	Solution	Result	
 EcoDataCenter Swedish-based colocation and high-performance computing provider	Need of safe and reliable power management that would ensure customer-server uptime and energy efficiency	EcoStruxure for Cloud & Service Providers and EcoStruxure IT Advisor with custom dashboard reports to monitor PUE	Improved efficiencies resulting in a PUE of 1.15 making EcoDataCenter one of the most sustainable data centers in Sweden	 EcoDataCenter EcoDataCenter's ambition to be climate-positive has been turned into reality with the use of digitization and EcoStruxure solutions.

“ EcoStruxure is a platform that **unifies our products to provide genuine insight** on how our data center is operating. ”

– Mikael Svanfeldt, Chief Technology Officer, EcoDataCenter



Monitoring &
Management

APC SmartConnect

The First Cloud Enabled UPS for Distributed IT

The dashboard displays a list of connected UPS units:

Status	UPS name	Status description	Action
OK	Andover.Room101.Server	UPS On Line, No Active Events	VIEW UPS
OK	Kingston.Room300.Comms	UPS On Line, No Active Events	VIEW UPS
OK	Kingston.Room300.Server	UPS On Line, No Active Events	VIEW UPS
OK	Kingston.Room701.Server	UPS On Line, No Active Events	VIEW UPS

BATTERY section:

RUNTIME	CHARGE	TEMPERATURE	REPLACE BY
25 mins	50%	122°F	Oct 25th, 2018

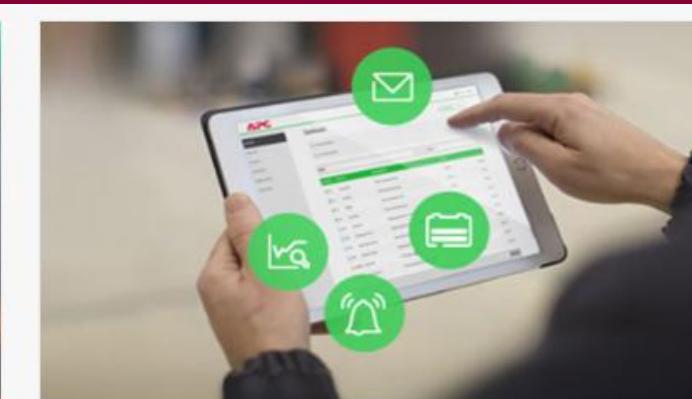


Connected Smart-UPS units boast an ingenious networking feature that makes Smart-UPS even more adaptable and even easier to deploy: APC SmartConnect — a feature which allows you to monitor your client's UPS through a secure web portal and provide recommendations on life cycle management. Through this innovative remote monitoring interface, you'll receive automatic notifications, firmware updates, and advanced support. APC SmartConnect's easy-to-use network connectivity provides added value — and more important — added peace of mind



Secure, remote monitoring

Smart-UPS with a SmartConnect Port enable remote monitoring via a secure web portal, so you can stay up-to-date on the status of your power infrastructure.



Pro-active lifecycle notifications

Maximise the lifespan of your UPS, and protect your investment, with pro-active notifications for UPS firmware upgrades, device, device maintenance and warranty protection.



Cloud enabled as standard

APC Smart-UPS are cloud enabled with a built-in SmartConnect Ethernet port. We've made it as easy and cost effective as possible to remotely monitor your UPS.

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DASHBOARD
EVENT LOGS
ADD DEVICE
ALERT SETTINGS
MY PROFILE
HELP CENTER
 Made in InVision

Dashboard

Status	UPS name	Status description	
 OK	Andover.Room101.Server	UPS On Line, No Active Events	VIEW UPS
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BATTERY

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DOCUMENTS

	Installation Guide Smart-UPS C 1000/1500/2000/3000kVA 120/230Vac Tower
	Feb 19, 2017 (191.8 KB)
	Operation Manual Smart-UPS C 1000/1500/2000/3000kVA 120/230Vac Tower
	Feb 19, 2017 (460.5 KB)
	Operation Smart-UPS C 1000/1500 VA 120/230 Vac Tower
	Feb 19, 2017 (257.7 KB)
	Addendum Smart-UPS C 1000/1500 VA 120/230 Vac Tower/Rack-Mount 2U
	Feb 19, 2017 (45.0 KB)

Made in InVision

PROFILE

UPS NAME	Boston.Room102.Comms
DESCRIPTION	Asset Type: PWDHTYSNBJ122. Contact: John Smith, 00353 (0)87 1234567. Company: Carphone Warehouse. Location: Room 203, Lab, Kingstion, MA. Device protected: Dell PowerEdge T330 Tower Server, Last serviced: 10-05-2016
TIMEZONE	Europe/Dublin
MODEL NAME	Smart UPS X 1500 VA
MODEL SKU	SMC1500
SERIAL NO.	1F5G5J5K5959J
BATTERY NO.	APCRBC117
PRODUCT ID	00-C0-A8-03-CB-F5

UPS Status

DASHBOARD
EVENT LOGS
ADD DEVICE
ALERT SETTINGS
MY PROFILE
HELP CENTER

ACTIVE EVENTS

 CRITICAL	Battery: Temperature Threshold Exceeded
	VIEW HELP

STATUS

OPERATING MODE

	On Line
	Device health critical

DEVICE HEALTH

	Error
	1 issue needs attention



Monitoring &
Management

Network Management Cards

Remote monitoring and control of an individual UPS by connecting it directly to the network

“... Remote monitoring and visibility across your IT infrastructure is mission critical.”

Easy to use Web User Interface

Easy to use Integration

Easy to use Notification & Logging

Easy to use and reliable Features

Easy to use best-in-class Security

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PowerChute Serial Shutdown

UPS manageability at your fingertips

UPS management, graceful shutdown, and energy management software for servers using dedicated serial or USB connections.

Energy usage, cost, and CO₂ reporting provide a greater understanding of the energy consumed by IT equipment, enabling improved energy efficiency. Learn more and download from

<https://www.apc.com/pcss>.



PowerChute Serial Shutdown features:

- UPS monitoring & management
- Unattended, graceful shutdown during power events
- Secure web User Interface (UI) access
- Energy & CO₂ emissions reporting
- Configurable energy cost
- Multiple languages (English, French, German, Italian, Simplified Chinese, Spanish (International), Brazilian Portuguese) support
- Multiple operating system support



Monitoring &
Management

PowerChute Network Shutdown

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

“... PowerChute Network Shutdown works in conjunction with APC UPS Network Management Card to protect your physical and virtual IT environment from threats to IT availability.”



Unattended,
graceful
shutdown



Ensuring
minimal
downtime,
automated
start-up



Dedicated
hardware not
required



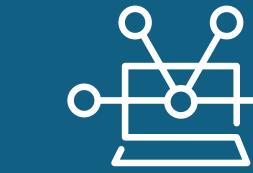
Resiliency
with
redundant
UPS setup



Integrations with
key HCI
manufacturers

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Monitoring &
Management

NetBotz

Industry's most comprehensive solution for IT security
& environmental monitoring



“

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”



Monitor temperature/humidity to prevent damage/outages



Avoid water leaks and identify fire hazards



Access control to protect assets down to rack level



Surveillance and recording for critical infrastructure



Manage/monitor seamlessly with Data Center Expert

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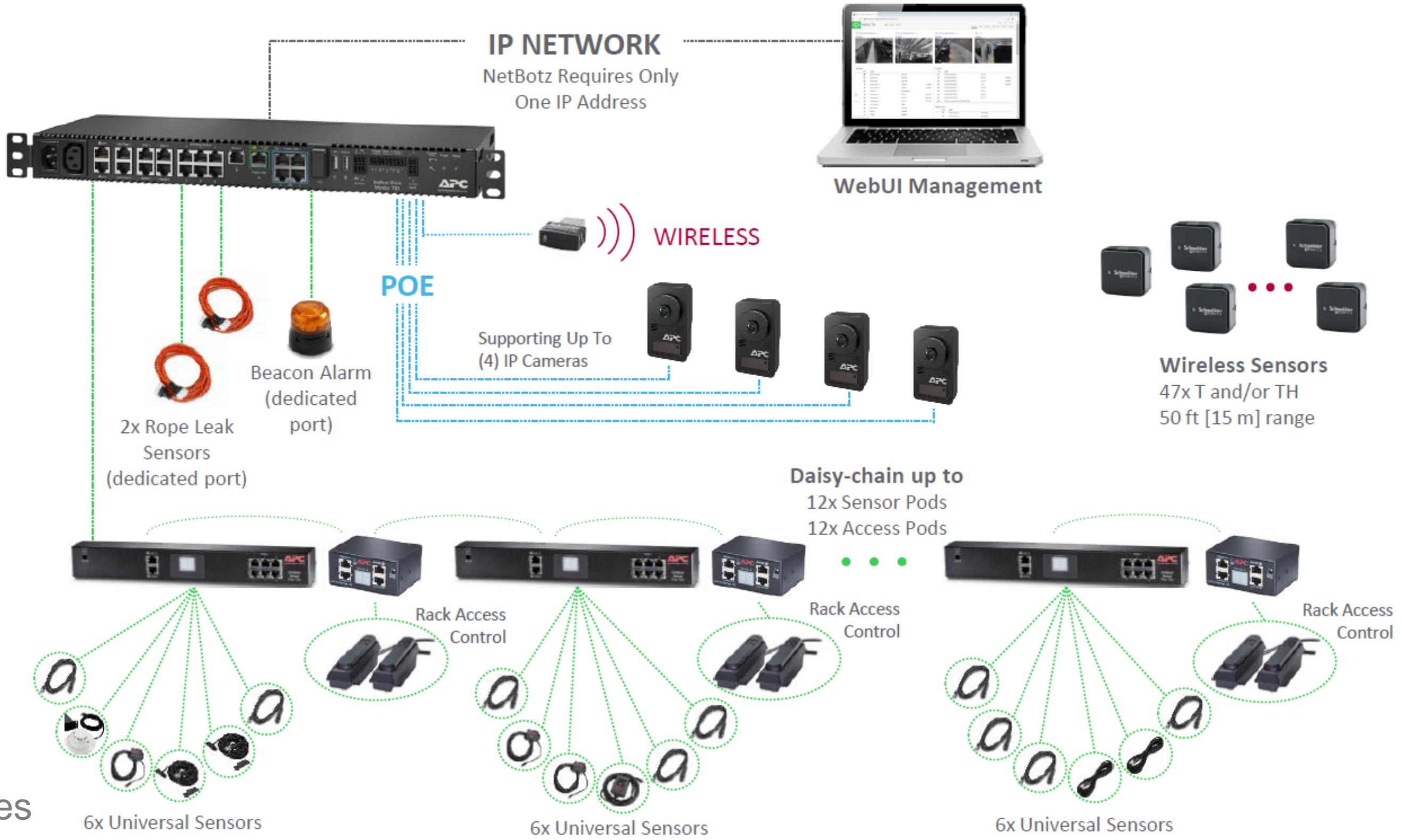


NetBotz Configuration Overview

Netbotz 750

The 750 supports

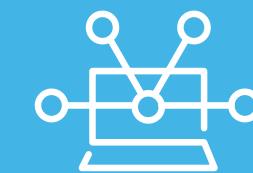
- New camera pod 165 (4 x NBPD0165)
- Rack access pods (170 or 175)
12 Rack Access Pods NBPD0170 / 175
- Sensor pods (150 or 155)
Max of 12
- 2 directly attached handles
(NBHN125/1356 types)
- Wireless sensors/routers
(NBWC100U, NBWS100T&T/H x 47)
- Room Sensor AP9520T/TH max of 8
- Can support up to 10 downstream devices on the Private LAN side



This screenshot shows the 'Device View' tab of the StruxureWare Data Center Expert software. It displays a table of 371 devices, including various types like Rack PDU, Network Device, Virtual Device, Power Meter, and UPS. Each device entry includes its type, label, IP address, status, application version, model, location, group, serial number, and a detailed description. The interface is clean with a white background and black text.

This screenshot shows a rack-level monitoring view. On the left, a tree view shows categories like Devices, Racks, and Sensors. The main area displays four racks (R1, R2, R3, R4) with various sensors and components. Sensors shown include Temperature (e.g., 23.1°C, 21.0°C, 22.3°C, 21.2°C), UPS status, and door lock status. The interface uses a dark theme with yellow and blue highlights for specific components.

This screenshot shows the Schneider Electric Data Center Expert 7.8.1 software. The top navigation bar includes Home, Monitoring, Event Log, Saved Reports, and Search. The main dashboard features a camera feed from a 'Main Camera', three rack views ('Racks - Front', 'Racks - Rear'), and several data panels. These panels show sensor readings (e.g., 23.2°C, 19.0°C, 20.7°C, 24.1°C), temperatures (e.g., Cabinet 7 S1, Cabinet 8 S1, Cabinet 3 S1), and UPS data (e.g., 4,380 W, 95.0 min). The interface has a modern design with a green header and a mix of light and dark backgrounds.



Monitoring & Management

Data Center Expert

Real-time Monitoring and Centralized Management

“

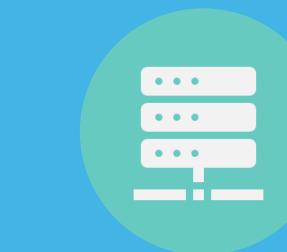
On premises, enterprise data center software, provides an efficient way for organizations to monitor and manage their company-wide multi-vendor physical infrastructure: power, cooling, security, and environment.”



Monitoring
and alarming



Device mass
configuration



Integrated data
storage



NetBotz physical
monitoring



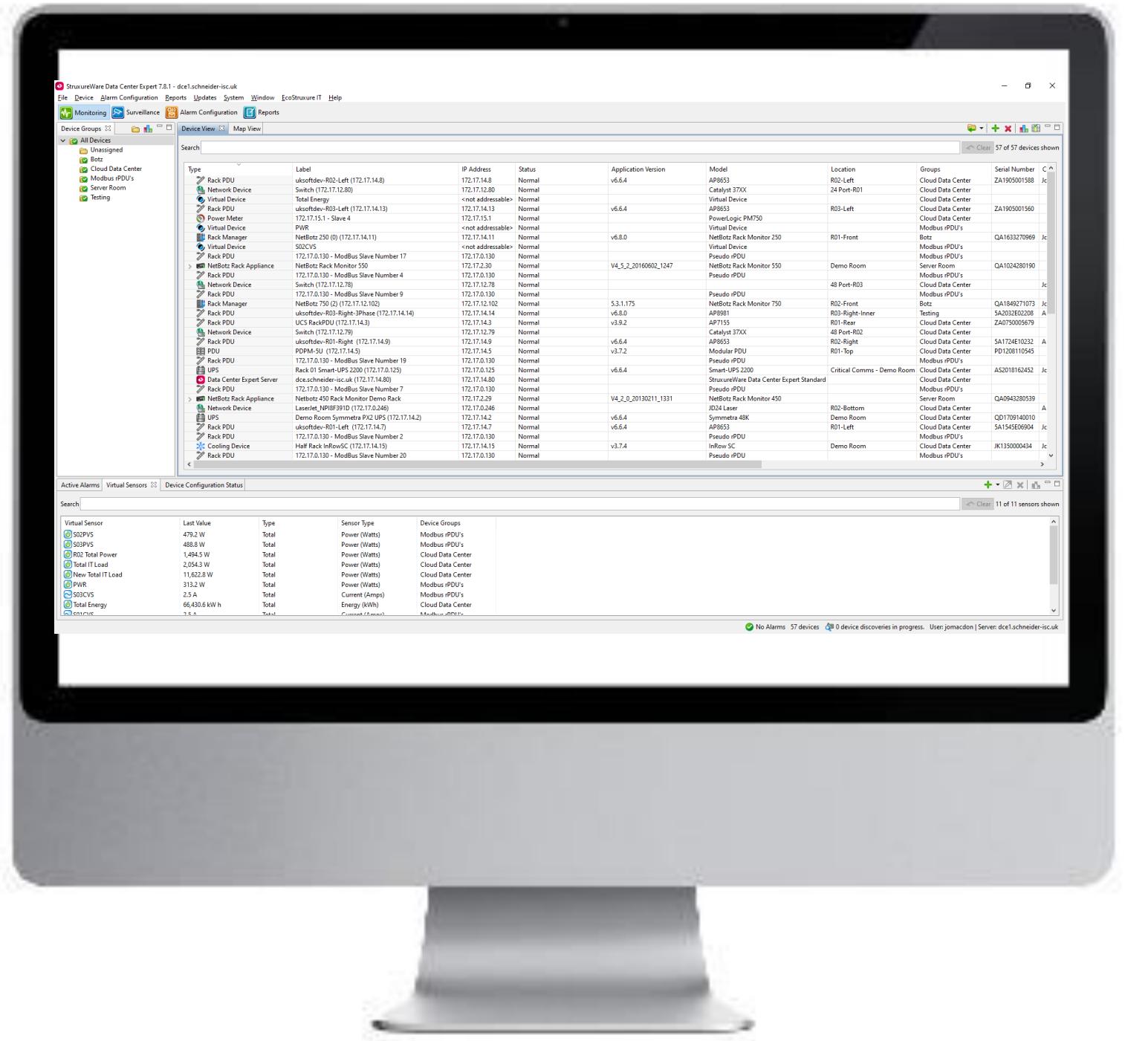
Private network

monitoring

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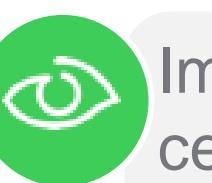
EcoStruxure Data Center Expert



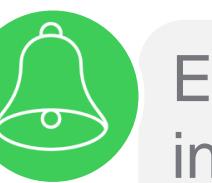
KEY FEATURES



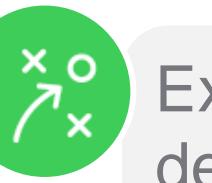
Simplify management of the physical infrastructure using a centralized repository accessible from anywhere on the network through a powerful and easy-to-use console application.



Immediate visibility to your entire physical infrastructure through centralized, real-time device monitoring and notification enabling quick assessment of events as they occur.



Event notification minimizes response times to critical physical infrastructure situations. Enables IT Administrators to reduce mean time to repair, improve efficiency, and maximize uptime.



Extensive multi-vendor support for monitoring networked SNMP devices. Enable visibility of existing SNMP devices through threshold alert notifications, data trending and reporting

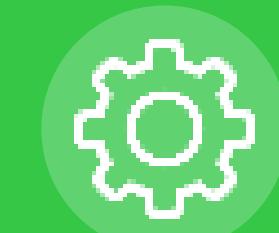


EcoStruxure IT Expert

simplifies local edge and distributed IT monitoring



Centralized monitoring



Vendor agnostic



Device Management & Assessments



Accessible from any device, no VPN



Schneider Electric is committed to maintaining security and data privacy

EcoStruxure IT Expert capabilities



Instant visibility through centralized and vendor-neutral device monitoring



Benchmarking for proactive device performance management



Assessments for optimized device maintenance



Device Security Assessment for reduce risk of security breaches



Device configuration and firmware update for remote device management



Smart alarming and data-driven recommendations for fast troubleshooting



Customizable dashboard to see at a glance what's important for you



Stay tuned!

EcoStruxure IT Expert is on continuous release and more functionalities will come in the future



A leading utilities group in the Asia Pacific and provides a suite of sustainable energy solutions for customers in Singapore and the region.

Customer Challenge

- Distributed IT: network rooms with high temperature and longer battery runtime
- High OPEX due to battery maintenance
- Limited team handling multiple sites across Singapore inclusive monitoring and half yearly preventive maintenance

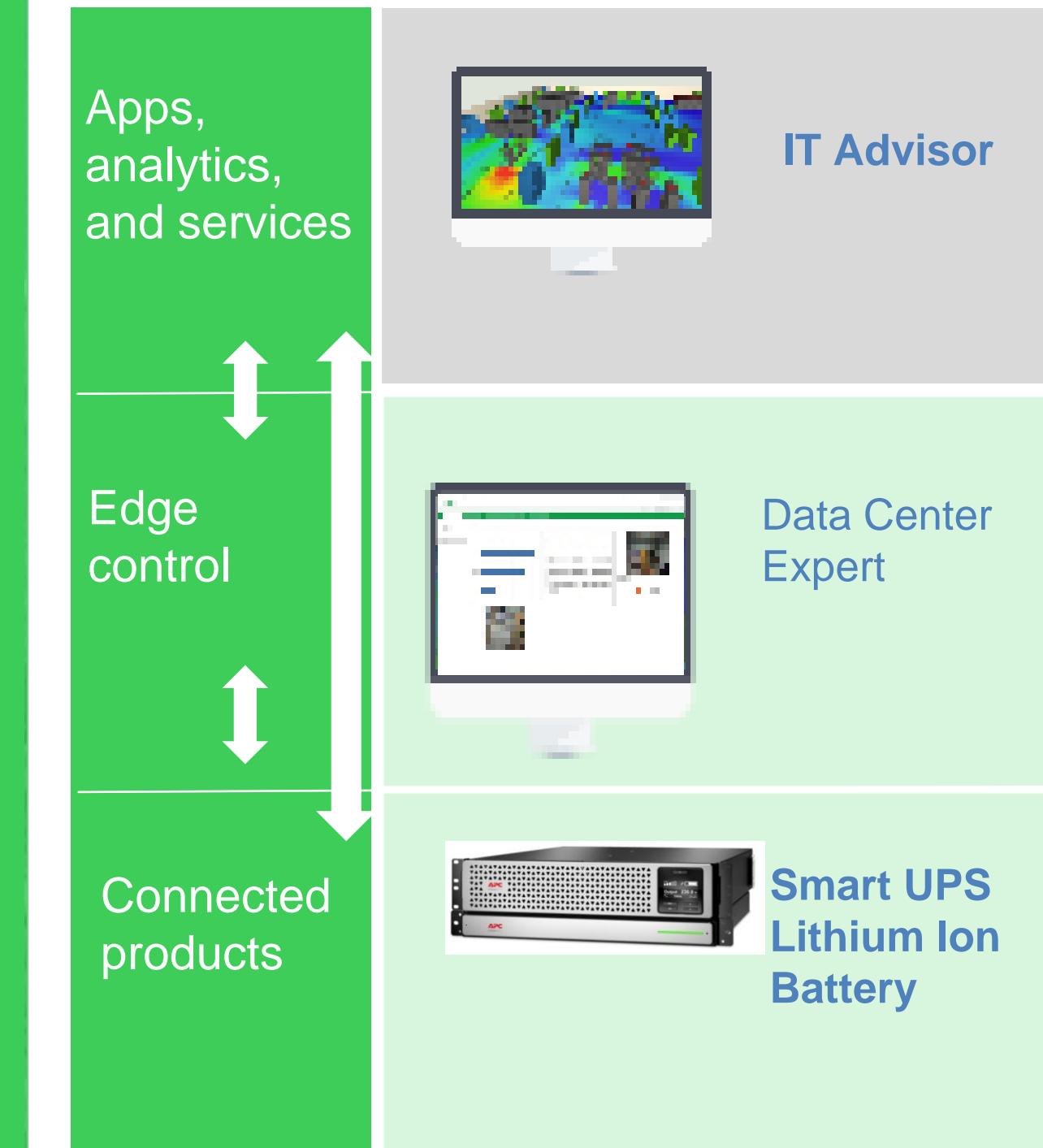
The Solution

- Smart UPS with Lithium Ion Battery
- Data Center Expert and IT Advisor
- Upfront 6yrs maintenance contract

Customer Benefits

- Longer battery lifetime/higher temperature tolerance with smaller footprint
- Centralized monitoring & management (firmware upgrade, configuration)
- No more OPEX

EcoStruxure® IT
Innovation At Every Level



IT Advisor

Data Center Expert

Smart UPS
Lithium Ion
Battery

Singapore has been the customer's Asia Pacific HQ for the last 4 decades. The team pride itself as a globally recognized-centre of innovation and expertise to embraces a high-tech vision for the future



Customer Challenge

- Distributed sites globally, from server rooms, network room to stores with multiple SE products
- Lack of site personnel at the colo sites.
- DCEs deployed on individual sites, lacking a centralized view

The Solution

- EcoStruxure IT Expert, started with trial, now subscribed 50 nodes, covering SG, MY, ANZ & expanding
- EcoStruxure Asset Advisor on critical UPS being planned as part of warranty support

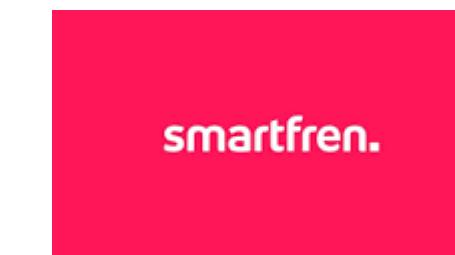
Customer Benefits

- Full visibility of the IT infrastructures deployed across multiple sites
- Overview and Insights on UPSs health and performance
- Analytics, enabling customer to be proactive: plan UPS battery replacement
- ITE has an open architecture which can sync beautifully with customer's system, easy to understand dashboard overview, and can be accessed from multiple devices.

Mobile and PC Technology and Manufacturer



INDONESIA



Life Is On

KEMENTERIAN
KESEHATAN
REPUBLIK
INDONESIA

Schneider
Electric

GLOBAL



BAIDURI BANK



CHANGI
airport group

Morgan Stanley



PUGET
SOUND
ENERGY



NANYANG
TECHNOLOGICAL
UNIVERSITY



wellcome
sanger
institute

AmBank Group

Temasek
POLYTECHNIC

MAPU
BERSAMA-SAMA MELAKSANAKAN TRANSFORMASI

malaysia
airlines

MARINA BAY Sands®
SINGAPORE

Westpac

Johnson & Johnson

Novartis



The Hong Kong Jockey Club
RIDING HIGH TOGETHER



CHATSWORTH
INTERNATIONAL SCHOOL

TeliaSonera

HK Electric

KK Women's and
Children's Hospital
SingHealth

CITY OF CAPE TOWN
STAD KAPSTAD
ASKEPA

澳门金沙度假区
Sandos
RESORTS MACAO

SBER BANK

TattsGroup

BASF

EcoDataCenter

COUNTY OF VENTURA
CALIFORNIA
EST. 1873

BW OFFSHORE

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