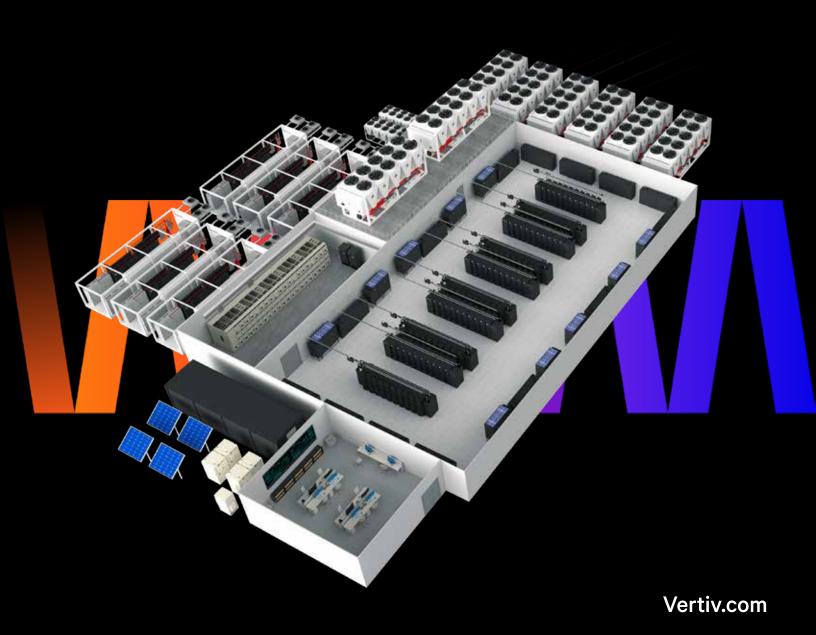


VertivTM 360Al Accelerate your Al Deployment

Brochure



What is Vertiv[™] 360?

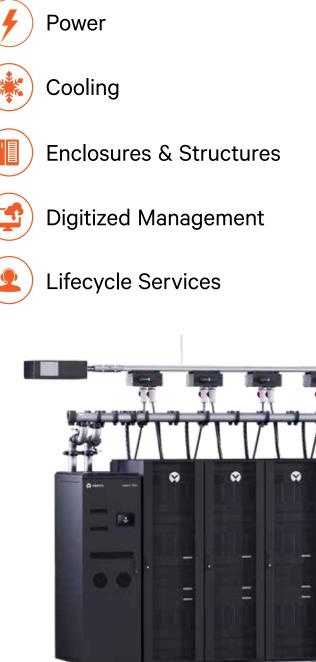
Vertiv 360 is a portfolio of infrastructure, services, and software expertly combined to solve complex customer challenges. Using validated designs coupled with end-toend services and global scale, you can streamline deployments, leverage Vertiv expertise, and reduce business risk.



Vertiv[™] 360Al

Vertiv can meet the power and cooling demands of AI workloads.

Vertiv[™] 360AI is the simple way to power and cool AI. It includes a complete portfolio of power, cooling, and service solutions that solve the complex challenges arising from the AI revolution.

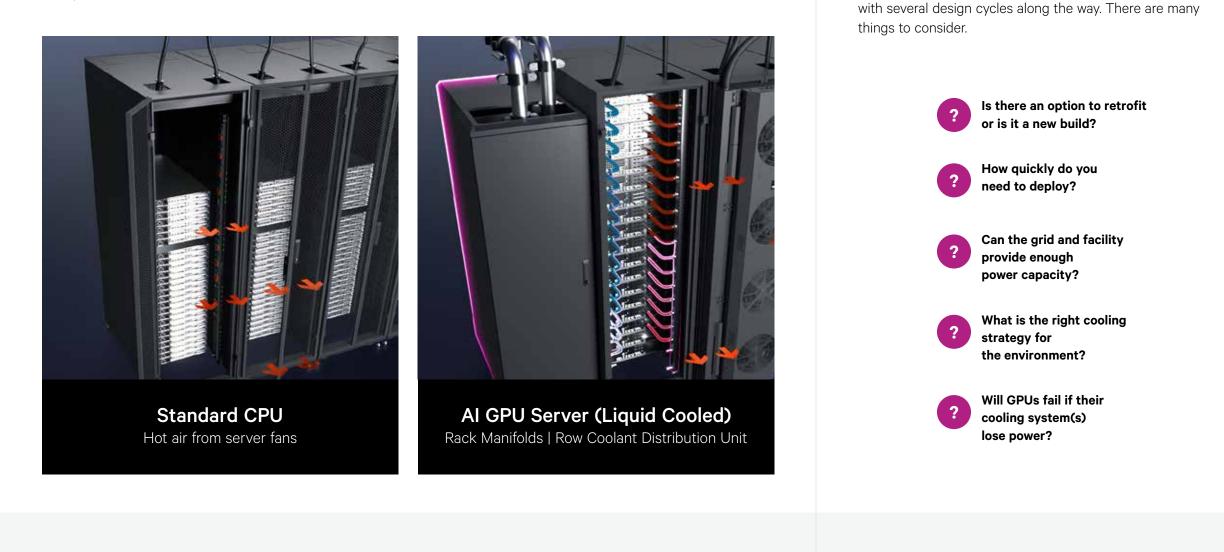


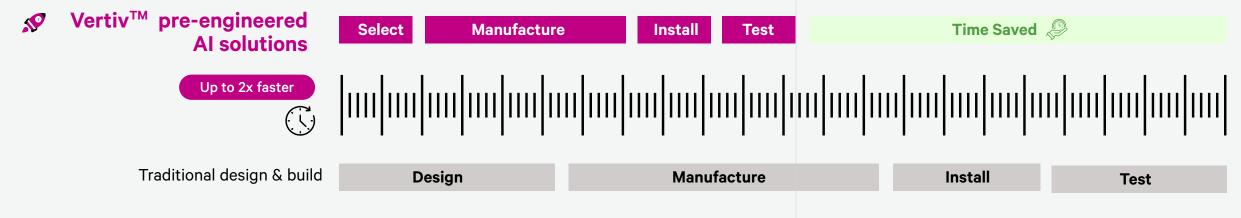




The AI heat wave has arrived

Existing power and cooling infrastructure will require significant upscaling to support the unprecedented demand of accelerated computing. Al inferencing and model training can drive power and cooling loads to unprecedented rack densities.









Considerations for AI

Designing and deploying power and cooling infrastructure for Al often becomes a slow and complicated iterative process,



Will I have enough capacity for now, and a path for future?



What is your controls strategy for power and cooling?



Do you have the right partners for these technologies?



Do you have expertise to maintain the infrastructure?

Accelerate your AI deployments

Don't let infrastructure slow down your return on Al investments, streamline design, deployment, operations, and lifecycle management.

Complete range of solutions for the entire Al journey

Vertiv™ 360AI provides complete solutions of any scale, from test pilots and Edge inferencing to an entire prefabricated modular data center for AI model training.



Rack

Inferencing and Edge Al

- Al Test Pilots
- Model Training Pilots
- Edge Inferencing



Row & Room

Enterprise and Data Center Al

- Al Labs
- Inferencing and Model Training
- Data Center White Space



Facility & Data Center

Prefabricated Modular Data Centers

- Al Model Training
- Al Data Centers



Vertiv[™] custom AI solutions

Vertiv offers deep expertise around the globe to provide a solution tailored to your high-density application with exceptional scale, velocity, and quality for every project regardless of size or complexity.

Rapidly deploy.	Reduce	Energy	Zero
Standardize. Repe	at risks	efficient design	floor space
Speed data center h with pre-integration prefabrication, and flexible designs whe you can't wait	, safety, and mitigate risk for stakeholders without	Lower site PUE and reduce environmental impact while controlling costs	Recover precious white space and scale as you grow

We're anywhere you need to be



Over 800 sites worldwide



Over 150MW Capacity Deployed



modular sites with **Uptime Institute**[®] **Tier III certificate** 23,304m2, 813 sites, 5.184 racks





Within the Vertiv[™] 360AI solutions portfolio, Vertiv's pre-engineered AI solutions offer an easier and faster option for our customers to deploy Al infrastructure.



Reduce deployment time up to 50%

up to 50%.

Broad Range and Flexible Deployment Methods

Solutions available from Edge Inferencing to AI Data centers with options ranging from a high-density rack solution, to large prefabricated modular data centers.



Support throughout the process from assessment and design, to deployment and lifecycle management.

Interoperability and Seamless Operation

Vertiv can meet both the power and cooling demand of AI, and each solution is built from the most complete portfolio of power and cooling in the industry.

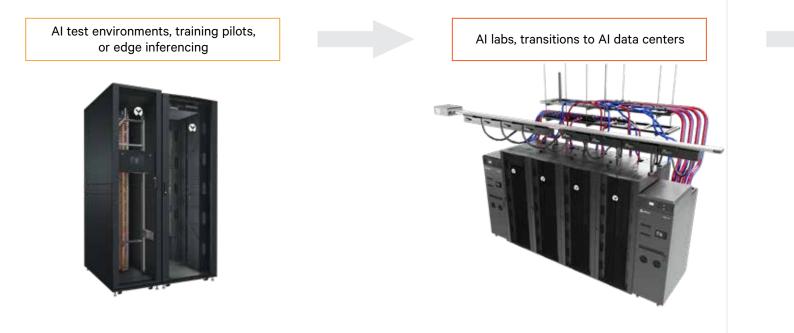


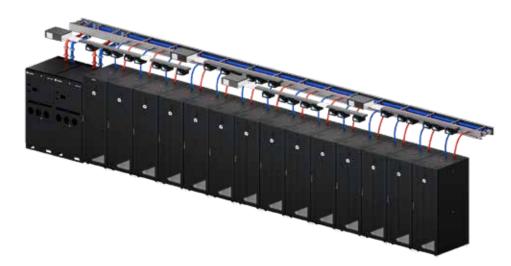
Pre-engineered solutions can eliminate design work reducing deployment time

Unmatched Expertise & Support

Kickstart AI deployments with pre-engineered solutions, optimized for retrofits

Pre-Engineered solutions can scale from Edge Inferencing to training and AI at scale.





	Solution model number	Racks Density per	Donaity par rook	ck Green field/ Brown field	Heat removal		Chiller included
Technology summary			Density per rack		From server	From room	Chiner Included
Al test environments, training pilots or edge	inferencing						
Small HPC minimal retrofit	1L88R	1	88 kW	Brown field	6	<u> </u>	-
Small HPC retrofit for chilled water system	1L100R	1	100 kW	Brown field	۵	🍐 🛛 Water / glycol	-
🚰 AI labs, transition to AI data center							
Mid-size HPC cost-optimized retrofit	4L400R	4	100 kW	Brown field	6	Refrigerant	\checkmark
Mid-size HPC with increased heat capture	4XL400	4	100 kW	Brown field / Green field	🍐 + 🔫	💧 Water / glycol	-
Mid-size HPC retrofit for air cooled computer rooms	4L160R	4	40 kW	Brown field / Green field	<u></u>	Refrigerant	\checkmark
Mid-size HPC low complexity retrofit with air-cooling	5L500	5	100 kW	Brown field	۵	👌 Water / glycol	-
Prototype Al factory							
Large HPC preserving room neutrality	12XL1200	12	100 kW	Brown field / Green field	🍐 + 굊	🐌 Water / glycol	-
Large HPC building towards scale	14L1400	14	100 kW	Brown field / Green field	۵	🐌 Water / glycol	-

Note: Full cooling capacity may require supplemental cooling capacity from air or other system, as direct-to-chip liquid cooling technology uses cold plates that do not remove 100% of heat from servers. Availability varies by region, contact Vertiv for details.



Learn More

Prototype AI factory and training

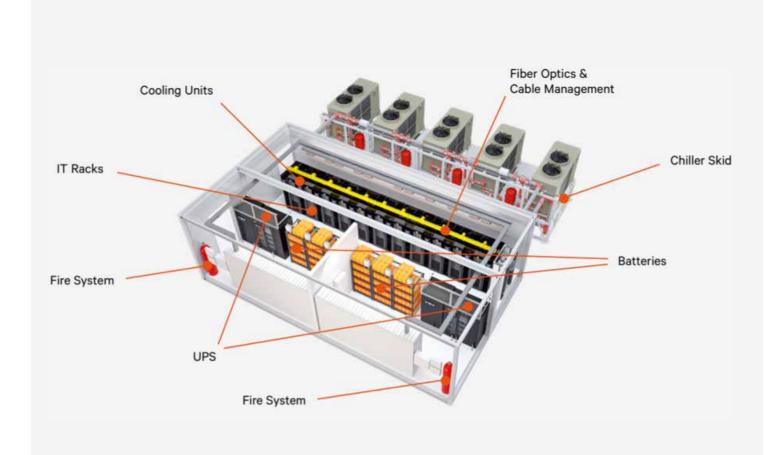
Heat removal

Deploy a full AI data center with the Vertiv[™] SmartMod[™] HDX

The SmartMod[™] HDX provides everything you need to get started with a fully equipped modular data center for AI, and can be deployed without disturbing existing IT workloads.

It features a simple, scalable data center design that uses pre-engineered Vertiv building blocks to create a full solution, consisting of the Power Module, IT Hall, and Chiller Skid for heat rejection.

In addition, Vertiv also can provide end-to-end services for a worry-free startup and ongoing operations, including deployment, commissioning, ongoing maintenance, spare parts, and ongoing training.



Vertiv[™] SmartMod[™] HDX data center solution includes:

- UPS power –Monolithic Vertiv™ Liebert[®] EXL S1 UPS, with Dynamic Grid Support for enhanced grid interactive capabilities
- **Batteries** Reliable battery backup with Valve-regulated lead acid (VRLA), or lithium-ion batteries
- Vertiv[™] Liebert[®] DCL Modular Rack Cooling, Closed Loop Cooling Architecture (up to 35 kW/rack) or
- Vertiv[™] Liebert[®] DCD rear-door heat exchangers (passive or active, up to 50 kW/rack) Next Generation High Power Density Data Center
- Vertiv[™] Liebert[®] HPC-S chillers with free-cooling option

- Vertiv[™] IT Racks
- Vertiv[™] Geist[™] High-Density rack PDUs
- Automatic Transfer switching **functionality** – Automatic switching between primary and secondary power sources
- **Overhead infrastructure** Including chilled water piping, fiber ducts and mesh cable trays



Why customers choose prefabricated modular solutions for AI



Maximize **Space Utilization**

- Maintain existing footprint and workloads.
- Compaction design-practice unlocks up to 25% space over traditional builds.
- Custom and hybrid solutions.



 Productizing non-repeatable field work in the factory, improving build-quality and customer's total cost of ownership.



- Clean agent fire suppression and aspiration smoke detection (as optional item)
- Ancillary systems CCTV, Access Control and Intrusion Detection (as optional items)
- SCADA-based Building Monitoring System (BMS) with a SQL database (as optional item)



Exterior view of the Vertiv[™] SmartMod[™] HDX DCL

Improved Build Quality, Reduced **Field Work**

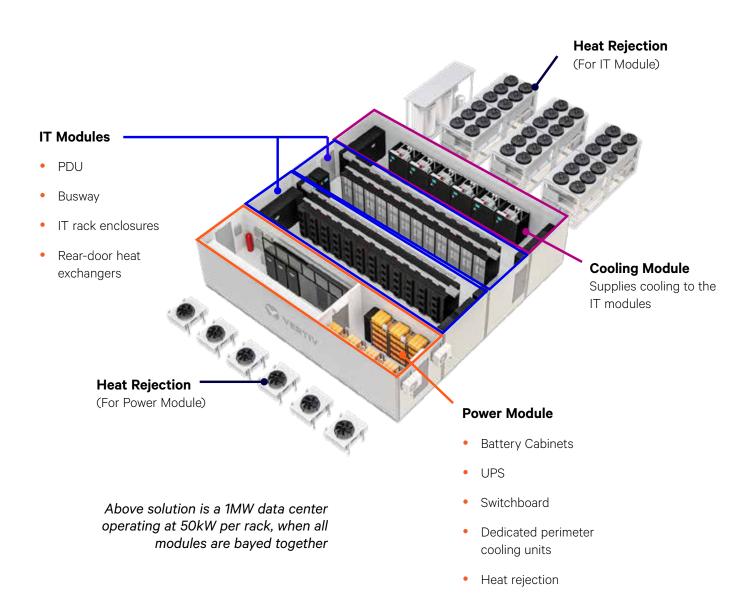


Accelerated Deployment Cycles

- Repeatable factory-integration reduces deployment up to 50%.
- Global supply-chain and service delivery footprint.

Rapidly design and deploy a full AI data center

Vertiv offers 20+ years of expertise in integrating and optimizing infrastructure, with design, integration, and deployment capabilities under one roof.



The tools you need to manage all of your high-density power and cooling infrastructure

Vertiv™ 360AI solutions support network communications and software to provide centralized and remote visibility across the entire solution, with unmatched controls capabilities across power and cooling technologies.

Monitoring





Vertiv[™] Environet[™] Connect

Cloud-based platform for remote management and monitoring of physical infrastructure.

Cloud-based solution – customers can always access the latest software version and there is no need for additional hardware.

Vendor-neutral SNMP device management - integration of third-party devices available upon request.

Maximize uptime and increase **efficiency** – Customizable dashboards and reports provide centralized management, monitoring, alerting, and trending of your devices.

Fast and easy configuration - users can effortlessly manage their devices' lifecycles through a unified cloud portal, making it easy to keep the firmware and device settings current.

Full suite of Services – From remote Helpdesk and training library to support for installation, startup and firmware upgrade.

Vertiv[™] Liebert[®] iCOM[™]-S

Manage and control your entire data center cooling system

Simplified, automated thermal **management** – advanced algorithms detect and prevent hot spots and control cooling settings to ensure optimal conditions.

thousands of data points and gain a holistic, centralized view of your data center footprint.

allow Vertiv[™] cooling units to collaborate on thermal loads and modulate their capacity to maximize energy efficiency.

accelerated ROI.

Dashboards and reporting – simplifies data analysis and communication on thermal conditions across multiple locations and regions.



Thermal Controls



Optimize environments – access

Enable 'teamwork' functionality -

Auto-discovery of Vertiv devices -

allows for faster deployment and

Energy & Power Management Systems



EPMS

Combined energy and power management solution to provide visibility and control over facility power operations

Flexible deployment – can be deployed as a cloud software or on-premise.

Data lake integration - centralize your data from equipment processes and enable digital services.

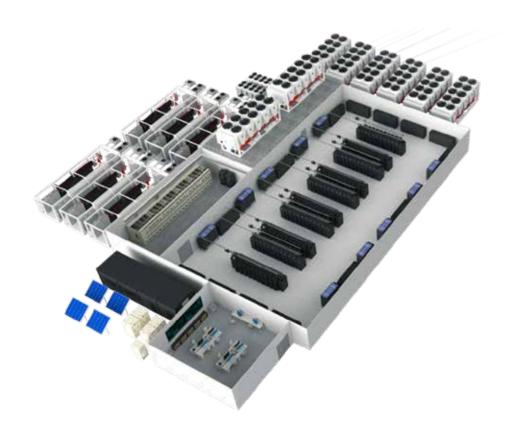
Embedded analytics - enable both proactive and predictive maintenance, ensuring continuous power flow and extending equipment lifespans.

Digital services – ranging from anomaly detection and notification, to event and fault recording and troubleshooting, commissioning support, remote monitoring, conditionbased monitoring, and more.

Data analysis and communication on thermal conditions across multiple locations and regions.

Meeting the unprecedented power demands of AI

Rather than disturb existing workloads to scale power capacity, Vertiv[™] 360Al solutions include modular solutions that can be deployed without using existing footprint.



Vertiv™ DynaFlex Battery Energy Storage System



Prevent the grid from constraining AI performance

- Regulate power voltage and frequency.
- Enable renewable and hybrid energy strategies.
- Provide "always-on" power.
- Reduce dependency on diesel genset.
- Enhance utility transmission and distribution reliability.

Vertiv[™] Power Modules



Rapidly scale capacity for AI without floorspace

- Deploy scalable, repeatable modular building blocks.
- Install without impacting existing workloads.
- Factory integrated and tested to speed installation time and reduce risk.

Vertiv[™] PowerNexus



Uninterruptible Power Supplies (UPS)



High-density Power Distribution





Keep pace and maximize your floorspace for AI deployments

- Reduce gray space up to 30%, converting it to revenuegenerating white space.
- Accelerate deployment speed by up to 50% with factory integration.
- Save up to 25% cost by reducing labor, materials and installation complexity.
- Simplify electrical work with integrated connections and centralized monitoring.
- Deploy in an enclosure, on a skid, or field installation.

Al power Load Management Solutions

- Efficiently adapt to growing power density needs.
- Stabilize dynamic AI workloads.
- Boost reliability, save space, and simplify setup with close coupled system integration.
- Reduce power consumption with enhanced energy efficiency.
- Seamlessly integrate with renewables and provide grid services.

Overhead power distribution delivers more power to every rack for AI workloads

- Hot-swap without any special tools with built-in safety and plug-and-play features.
- Reduce CAPEX no need for raised floors to distribute power.
- Monitor efficiency and capacity with smart metering.

Vertiv[™] Rack PDUs deliver standard capacities up to 80A for high-density AI applications

- Support higher capacities through our engineered-to-order rack PDU program.
- Fit up to 4 rack PDUs in a single rack.
- Track and control workloads remotely with outlet monitoring and switching software.
- Monitor temperature, humidity, dew point, and water leaks with 16 sensor connections.

Flexible cooling strategies for retrofits and new builds

Al workloads will require new cooling strategies and may even require combining air and liquid in the same IT rack. Vertiv™ 360AI includes a wide range of cooling and heat rejection combinations to create the best cooling strategy for your application

Direct-to-Chip Coolant Distribution Units (CDUs) and Manifolds



- Optimize floorspace with in-rack and in-row form factors available.
- **Precise Temperature Control** to eliminate thermal shock for server CPU and GPUs.
- Redundant Pumps and Dual Power Feeds for optimizing reliable operation.
- Teaming Capabilities allow for fleet control to optimize efficiency and reliability.
- Innovative Stainless-Steel Design and Hygienic Couplings help ensure Secondary Fluid Network integrity.
- Row Manifolds overhead manifolds included, no raised floor required. (Underfloor available upon request).
- Rack Manifolds compatible with quick disconnects.



Direct-to-chip liquid cooling uses cold plates inside liquid-cooled servers. These cold plates do not remove 100% of the heat generated by the server and require supplemental cooling to remove the residual heat.





Packaged Outdoor Systems



Outdoor Chillers

Heavy-duty Enclosures



- High-Capacity for high-density applications, up to 4,250 lbs Static Load.
- Designed to enable full integration & shipping of high-density IT systems, up to 3,550lbs.
- Globally Available in 12 standard sizes.

Rear-Door Heat Exchangers



- **High energy efficiency** and low power consumption reduces operational costs.
- Scalable Capacity each model can operate anywhere from 0-100% load to accommodate variation in cooling system demand.
- Uses Zero Floor Space mounts directly to the rear of the rack, replacing the door and saving valuable floor space.
- No residual heat cools hot air before it exits the rear of the rack to eliminate the potential for hot spots.
- Ability to retrofit install in existing applications allowing for scalability and future expansion.
- Smart controls and monitoring capabilities gives users peace of mind through remote access to room conditions.







Indoor Chillers Systems

In-Row Cooling



Room Cooling

Environmental Monitoring & Leak Detection



- Environmental Sensors monitor rack enclosures for temperature, humidity, and dewpoint.
- Leak Detection Up to 100 feet of moisture sensing cable to detect any moisture.

End-to-end services for seamless AI deployments

End-to-end lifecycle services are included with Vertiv[™] 360AI solutions to streamline deployment and maintain high-density infrastructure, including liquid cooling systems.



Deployment

- Site assessment.
- Design.
- Project management.

Commissioning

- Installation.
- Startup.
- Testing.
- Complete packages available with commissioning levels L1 to L5 overseen by specialized Vertiv project managers guiding to every step of the way.



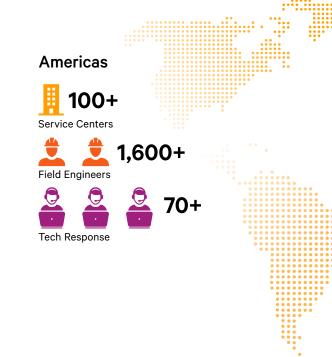
Maintenance

- Preventative maintenance.
- Fluid management.
- Troubleshooting.
- Liquid-Cooling Ready fluid management capabilities include coolant sampling, quality testing, adjusting, and ecological disposal.

Services for the entire lifecycle anytime, anywhere

50+ years building and servicing the world's most critical infrastructure, with end-toend capabilities for high-density environments.

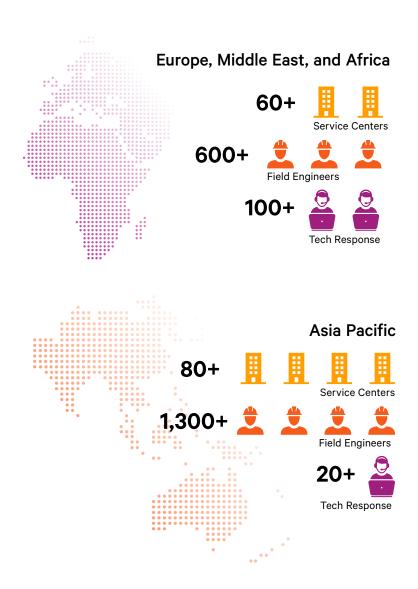
	240+	4	
	Service Centers		













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