



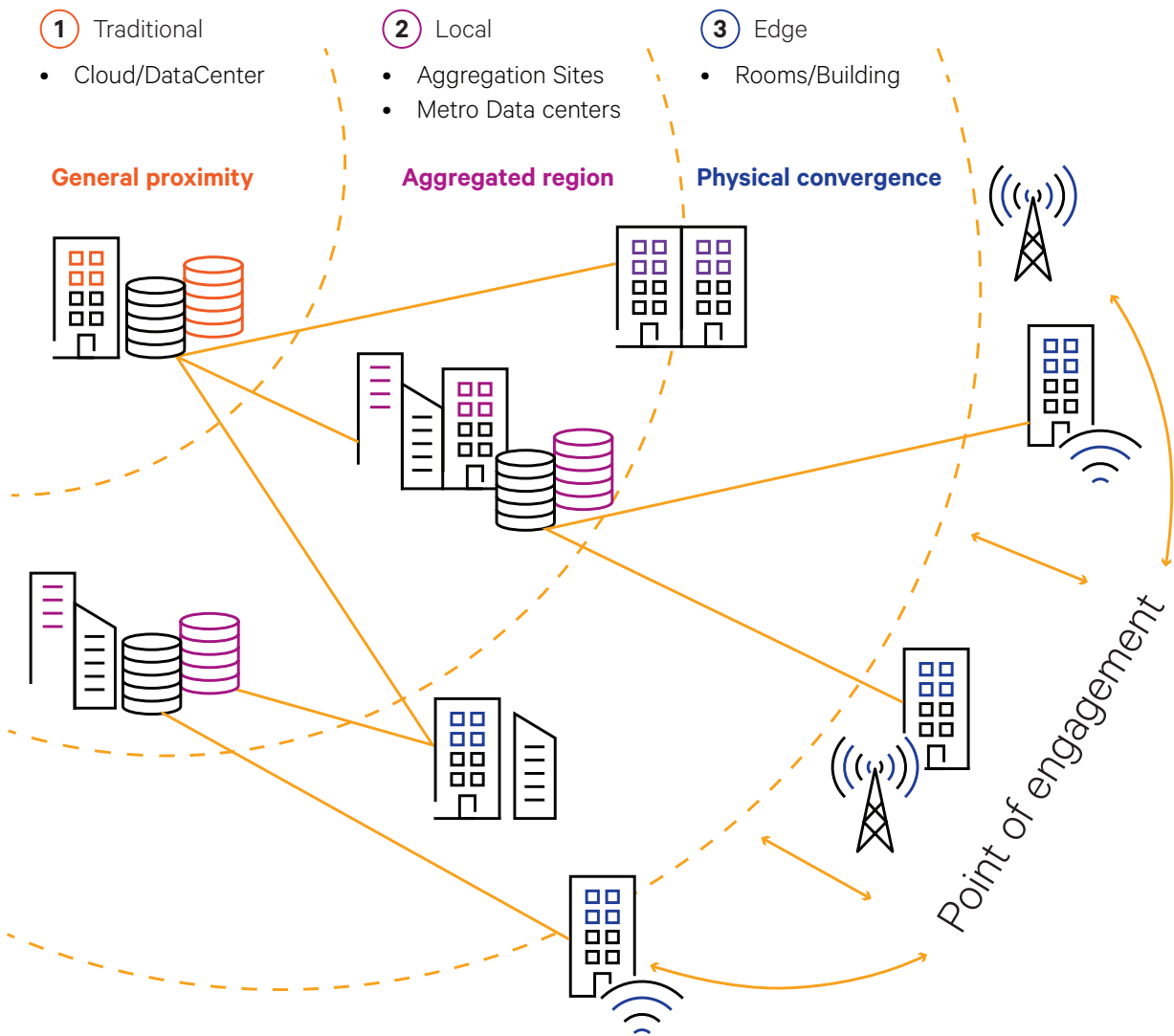
Product brochure

Vertiv™ SmartCabinet™

Intelligent, integrated containment for IT infrastructure



The digital world is changing.
Bringing compute closer to the point of decision



Today's organisations generate and process data across distributed locations, from retail floors and manufacturing lines to remote offices and telecom sites.

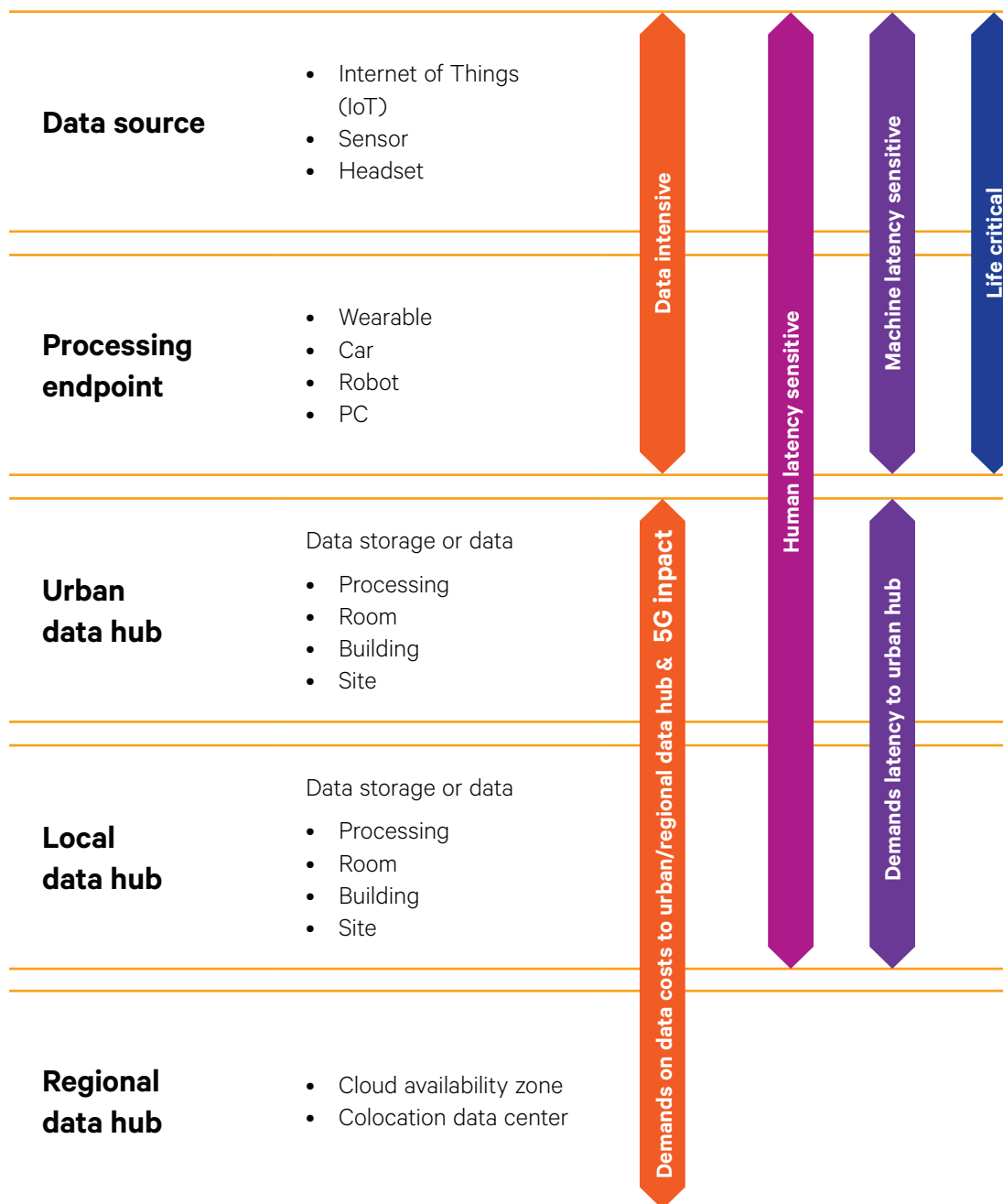
With AI inferencing, IoT, and 5G now operating at scale, the volume of data processed locally continues to accelerate.

This model is now changing, with the large and growing number of smart devices and sensors generating a massive amount of information at the Edge.

The majority of this data never reaches a centralised facility. It is processed, filtered, and acted upon at the point of origin, demanding infrastructure that is purpose-built for distributed environments.



What will enable this major shift?



Vertiv has identified four deployment archetypes that characterise the intent and challenges of distributed IT use-cases across business segments and verticals:

- Data Intensive
- Human Latency
- M2M Latency
- Life Critical

Key considerations for preparing distributed IT deployments spaces



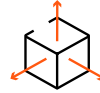
High-efficiency, flexible micro data centers

Traditional infrastructure can present challenges for highly distributed IT environments. From brick-and-mortar designs, infrastructure deployments will shift to micro data centers which are connected, easily deployable solutions that can be virtually deployed anywhere.

Location, location, location



One of the challenges faced by telecom operators is identifying where to setup these edge locations. Because of the capital investment it entails, setting up a new data center may not look attractive for some. But for others, a novel approach would be to set up micro data centers at the base of their cell towers to save on cost and also to optimize infrastructure investment. Some would also opt to set up micro data closer to users and would address any latency issues.



Scalability to meet growing workload demands

Owing to the expected spike in data brought by 5G applications, the challenge is finding out the scale needed to support these applications. Hence, infrastructure at the edge must be designed for flexibility and scalability. Rack to row-based micro data centers can be scaled up easily depending on the demands and with little floor space required.



Modify to “Intelligent remote management at scale

With hundreds or thousands of distributed sites now in operation, regular on-site visits are no longer practical. Data centre infrastructure management (DCIM) is essential to maintain visibility, control, and uptime across every location.

Enter Vertiv™ SmartCabinet™, a pre-configured, self-contained solution that offers the efficiency, economy, interoperability, and control to implement a proven infrastructure strategy.

- **Economical** - Reduces implementation costs compared to conventional solutions
- **Simplified** - Maximize use of existing infrastructure and gets up-and-running in a matter of weeks
- **Controllable** - Enforce add/change policies, improve IT administration request response times significantly



Vertiv™ SmartCabinet™ ECO



Vertiv™ SmartCabinet™ Split

Power Management Unit (PMU)

Built-in PMU provides power management and distribution to UPS, cooling unit and rack PDU. Comes with surge protection device.

Rack Power Distribution Unit (rPDU)

Features branch level metering and remote on/off control of individual receptacles.

Smart lock

Provides secure door access via ID card, web interface and key.

Blanking panel

UPS & internal battery

On-line double conversion UPS with internal battery module enables clean power feeding to critical IT equipment. Power Factor: 1.0.

Emergency fan

Activates automatically in the event of overheating or cooling unit failure.

LED Lighting

LCD Touchscreen Panel

User-friendly display enables easy access to power, cooling, environment and security information.

Centralized Management & Monitoring

Supports central management of all intelligent components within the rack.

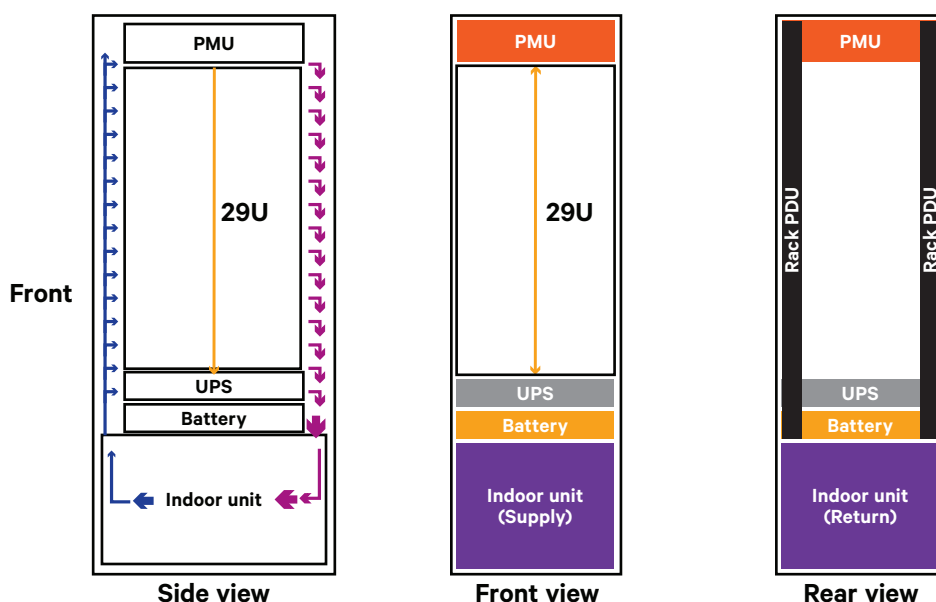
Environmental Sensor

Report critical environmental information and alarm notifications. Designed to keep IT equipment in desired condition.

Cooling Unit

Features cooling modulation, enables cooling on demand and quickly adapts within the focused cooling area.

Water Leak Detector



Vertiv™ SmartCabinet™ ECO

ECO Fan Module

Enables ECO mode and activates intelligently. Provides emergency ventilation in the event of overheating or cooling unit failure.

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Rack Power Distribution Unit (rPDU)

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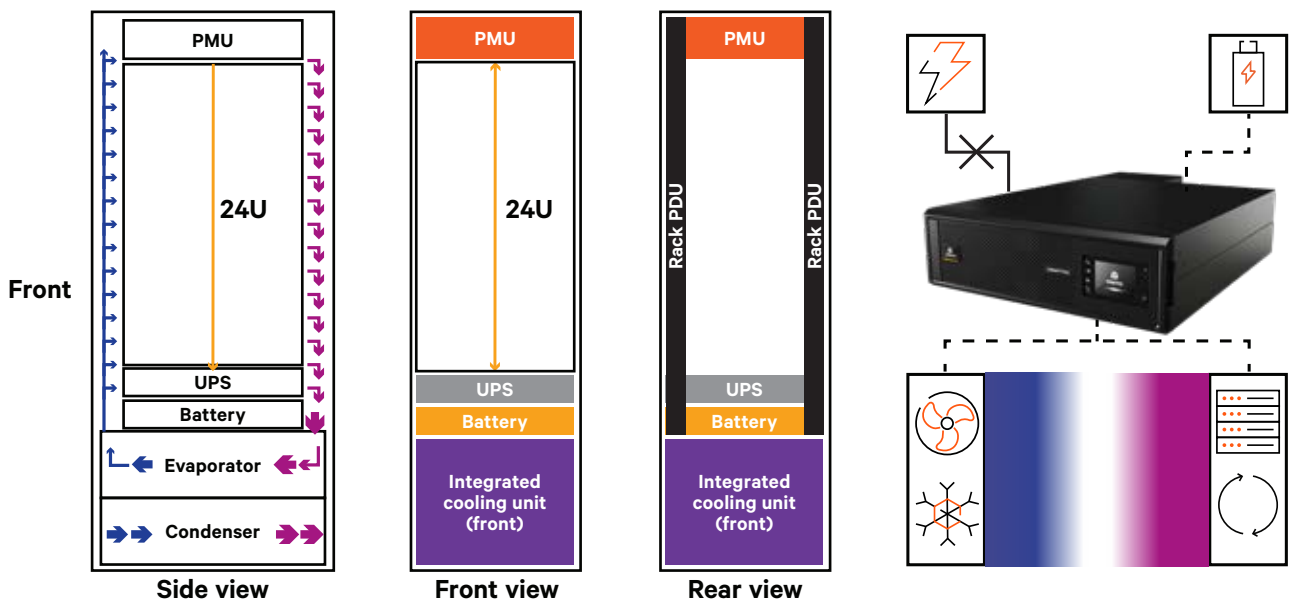
Report critical environmental information and alarm notifications. IT equipment is maintained in the desired condition.

Air Inlet

Cooling Unit

Integrates cooling coil and condenser within the cooling unit for complete heat exchange. Provides variable cooling capacity directly to IT equipment.

Water Leak Detector





Specifications

Components	Vertiv™ SmartCabinet™ Split	Vertiv™ SmartCabinet™ ECO
UPS Model	UPS Model Vertiv Liebert ITA2	UPS Model Vertiv Liebert ITA2
UPS Capacity	5 kVA	6 kVA
UPS Power Factor	Unity	Unity
System Capacity (IT Capacity)	3000 W	3000 W
Rack PDU Type	Switched, 32A input, 18 x C13 + 6 x C19, 2pcs	Switched, 16A input, 12 x C13 + 4 x C19, 2pcs
Rack PDU Form Factor	0U	0U
Cooling Type	Split	Self-contained w / ECO Mode
Cooling Capacity	900 W to 3500 W	900 W to 3500 W
Refrigerant	R410a	R410a
Supplementary Cooling	Emergency Fan	Emergency Fan
Cooling High Availability	None	UPS Backup Cooling
Rack Dimension (H x W x D) (mm)	2000 x 600 x 1200 (mm) 2000 x 800 x 1200 (mm)	2150 x 600 x 1200 (mm) incl. top fan module
Door Lock Type	Smart Lock (Tempered Glass Door)	Smart Lock (Tempered Glass Door) Mechanical Lock (Steel Door)
Ingress Protection	IP5X	IP2X
Rack Useable IT Space	29U	24U
Centralized Monitoring	In-built Infrastructure Monitoring	In-built Infrastructure Monitoring
Monitoring Interface	9-inch LCD Touchscreen IP-based Web Interface Mobile Apps	9-inch LCD Touchscreen IP-based Web Interface Mobile Apps

