



eBase

Indoor Solution

Efficient, Intelligent and
Integrated Telecom Infrastructure



Deploy a Fully-Configured Telecom Infrastructure in Just 6hours

Rapid Deployment, Higher Space Utilization, Availability & Efficiency.

You need them – and now you can have them all. Another first from VERTIV.

Introducing the eBase Solution—a simplified, standardized and integrated telecom infrastructure that can be quickly deployed, offering significant CAPEX and OPEX savings over conventional designs.

The eBase solution is equipped with functional units such as power supply & distribution, cooling, power backup, and monitoring system among others. The modular architecture enables rapid site construction and deployment under different application scenarios to improve the utilization rate of assets, reduce TCO of equipment room and meet the low cost operational requirements of Tower & communication companies. It is highly scalable with an investment on demand paradigm. No solution in the industry such ease of deployment and integration compared to this intuitive solution.

The eBase solution is ideal for:

1. Indoor Shared BTS Sites
2. Consolidation of BTS sites
3. BSC / RNC

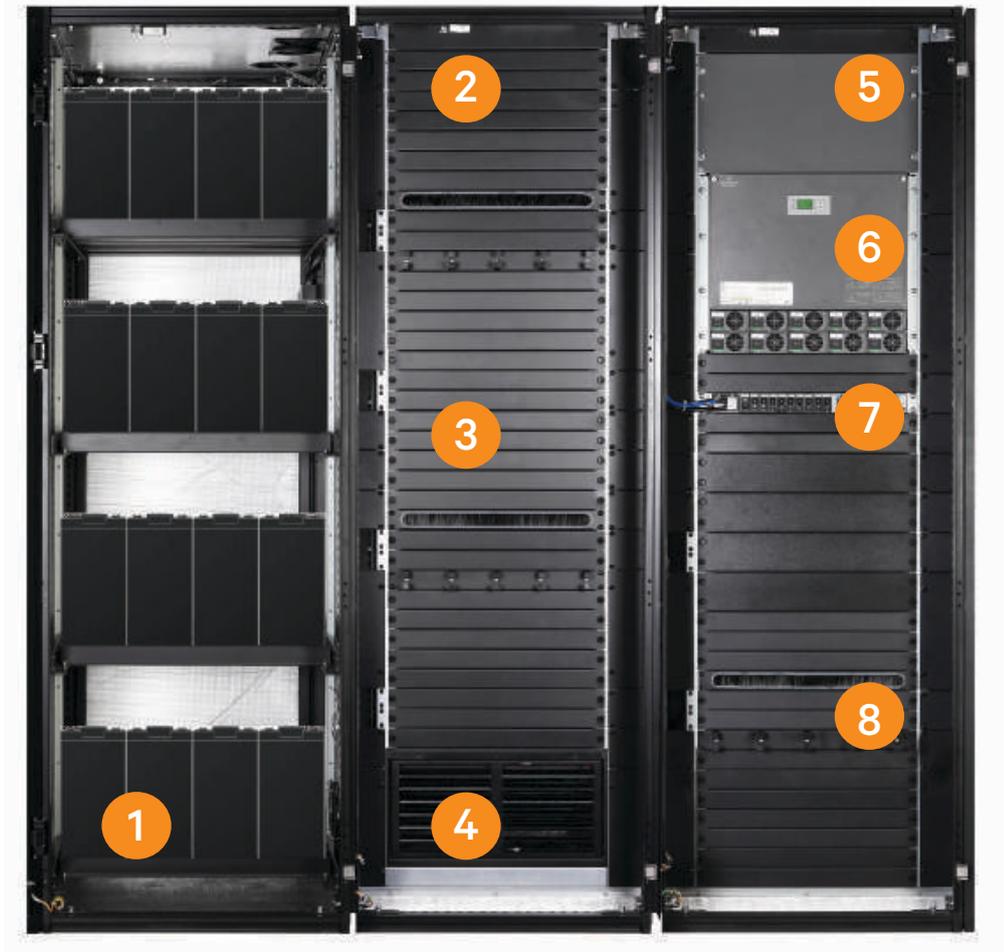
Vertiv has demonstrated up to **5%** CAPEX savings over conventional designs and **25%** OPEX savings. Here's how the eBase solution delivers it:

- Small foot print (Optimizes use of space)
- Reduces cooling power usage through contained airflow and high efficiency technologies
- High energy efficiency ratio (EER)
- Centralized high efficient power supply
- Deployable in ≤ 6 hours
- Fully integrated, intelligent monitoring system
- Future proof infrastructure with flexibility in future expansion



■ *“Efficient, Intelligent and Integrated Telecom Infrastructure”*

Typical eBase Architecture

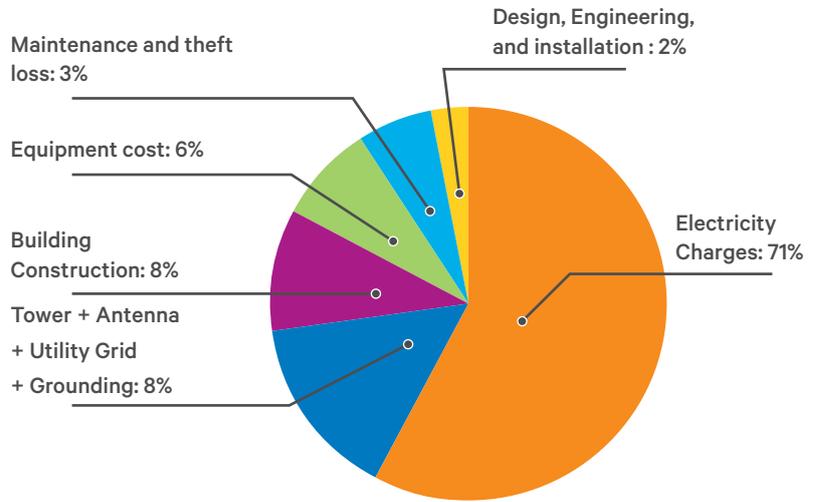


- | | |
|---------------------------|---------------------------|
| 1 Battery Cabinet | 5 Operator -A White Space |
| 2 Operator -B White Space | 6 Air Conditioning Unit |
| 3 AC Distribution Unit | 7 DC Power Supply |
| 4 DC Distribution Unit | 8 Operator -C White Space |

Economical and Efficient Operation over Conventional Design

Quick Site Deployment

Pre-engineered, integrated and factory tested cabinets eliminate the need for greenfield facilities and reduce planning and on-site costs. In addition, modular functional units such as power supply and distribution, cooling and power backup enable quick deployment in ≤ 6 hours and consequently save time, manpower, and installation cost.



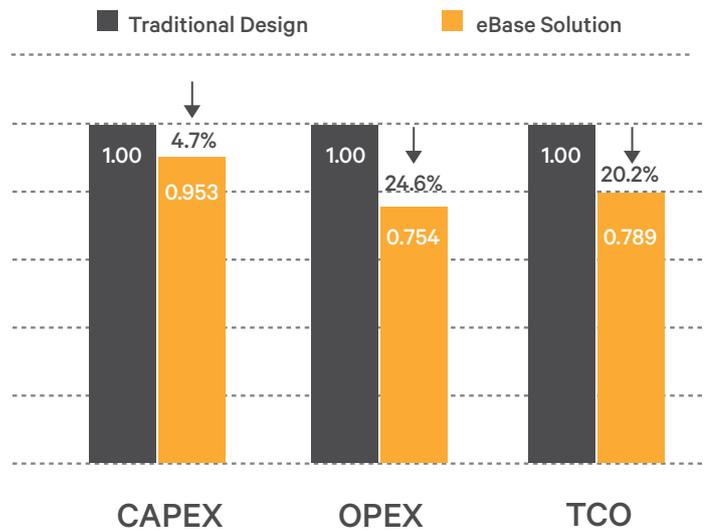
TCO Model of Traditional Site

Small Footprint

The eBase Solution occupies minimal foot-print over traditional design. It perfectly utilizes the vertical space by integrating power, cooling and other infrastructure in a standard rack space. Its advanced design not only saves space but also reduces system complexity.

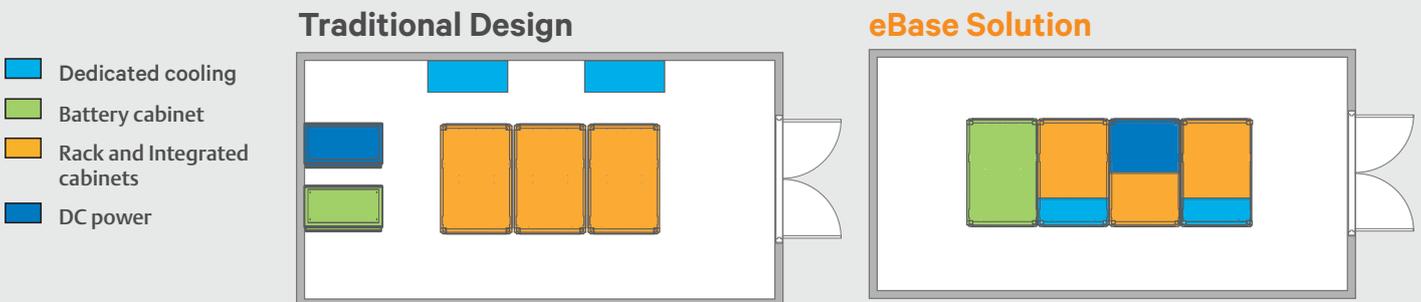
Low TCO Operation

The eBase, coupled with a small foot print, high efficient power & thermal management system, and intelligent, integrated management system based on modular and integrated design concepts allows the customer to reduce TCO by more than 20% in contrast to traditional solutions.



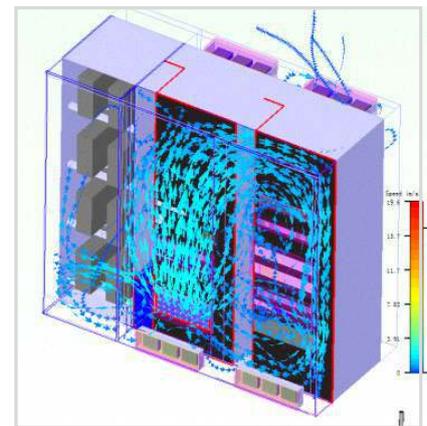
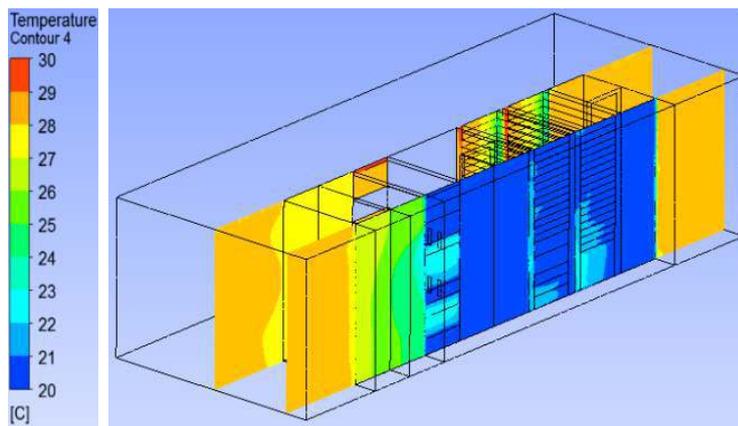
Traditional Site VS eBase Solution

Note: The TCO Model data is from annual data of self-constructed equipment under certain conditions, and data may be different across varied equipment & diverse room conditions



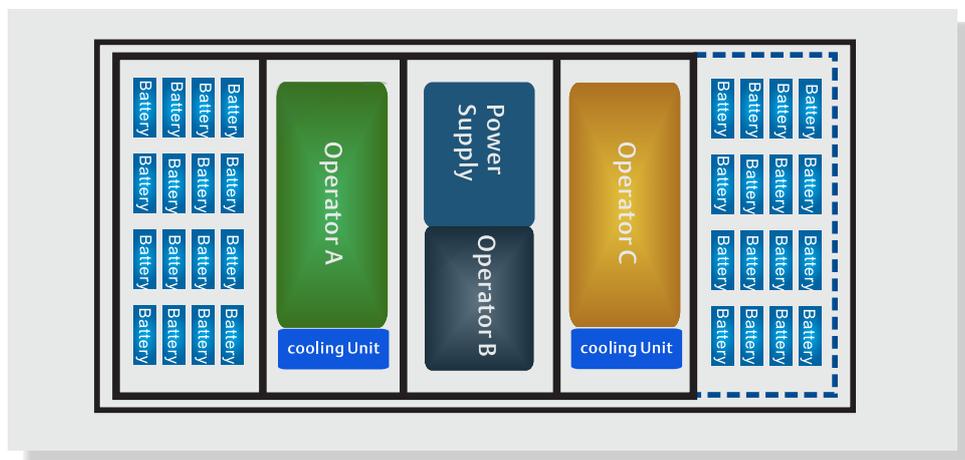
Efficient Cooling Technology

The eBase design provides an economical solution for fast deployment and efficient operation. It reduces cooling power usage through a contained airflow. Instead of cooling an entire room as in conventional designs, the eBase infrastructure cools only the rack space. Therefore, it demands lesser cooling capacity and boosts power usage effectiveness (PUE).



Scales to meet the changing business needs with “Pay-as-you-Grow” infrastructure

The eBase Solution consists of a modular architecture to facilitate an adaptive and scalable infrastructure system. Modular rack design permits the customer to seamlessly expand their infrastructure to meet the future need as and when required. This capability set off the CAPEX requirement for future capacity expansion at initial stage and minimizes operational expenses. The eBase solution is fully compatible with the requirement of common tower phenomenon that is shaping up in the telecom industry. It allows the operator to have similar independence, while sharing the common civil and electrical infrastructure with other telecom operators.



Telecom Monitoring Software

Integrated Monitoring & Control Management

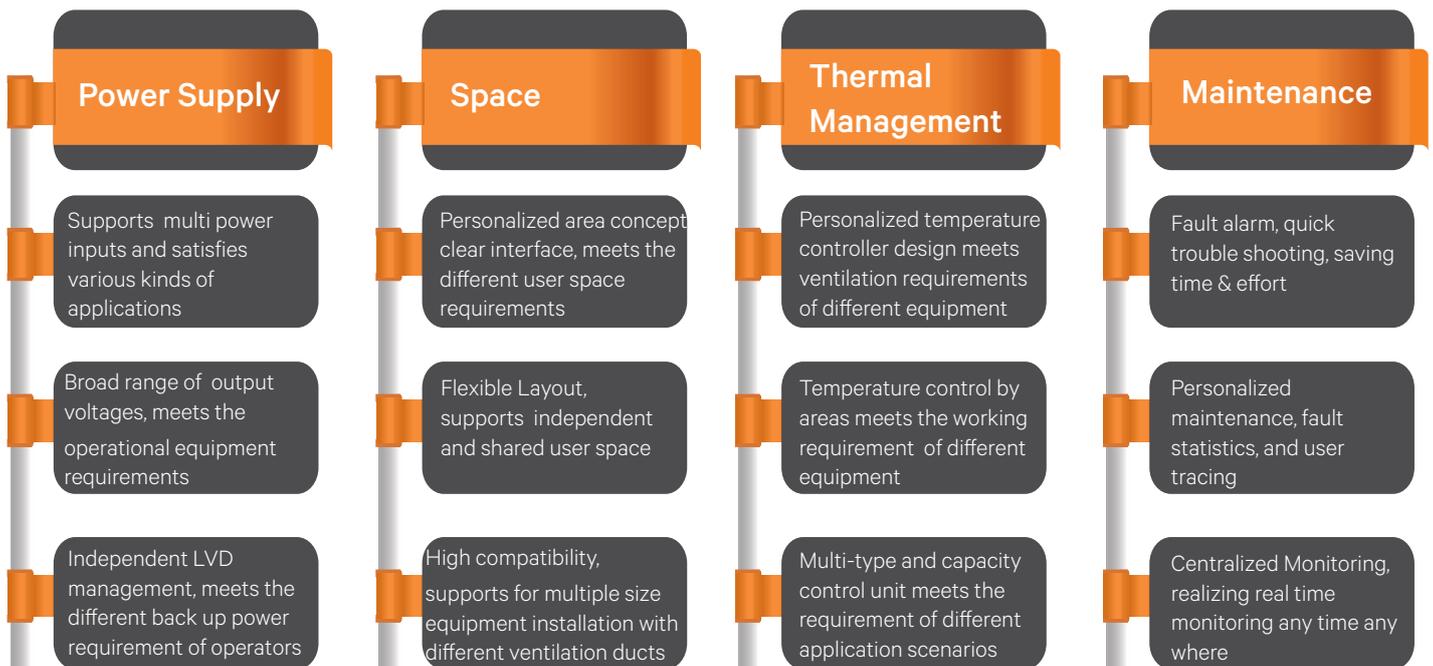
The SiteWeb monitoring software allows centralized, real time access and monitoring for any network connected devices.

- Monitors and controls the wide range of support equipment- such as backup power supply, distribution system, cooling unit, batteries, smoke detection system, and the environment
- Event management- The alarm windows and interfaces can be set and customized for operators
- Real-time report generation
- Triggers event actions such as e-mail notifications
- Advanced graphics and user-friendly navigation enhances usability



User Selectable Solutions

The eBase provides a platform to configure the power supply, space and thermal management and maintenance for each operator.



eBase Indoor Configuration



Minimum Configuration

Application	1 or 2 Operators
Dimensions	2100(W) X 1000 (D) X2240(H) in mm including the base frame
Available "U" Space	35U (Embedded A/C Cabinet) / 25U (Embedded Power Supply)
Power Capacity	300A/ 48V
Air Condition Capacity	3kW
Battery Capacity	300Ah/48V X 2 Banks or 600Ah/48V X 1 Bank



Classical Configuration (Single battery cabinet)

Application	3 Operators
Dimensions	2800(W) X 1000 (D) X2240(H) in mm including the base frame
Available "U" Space	35U (Embedded A/C Cabinet) / 25U (Embedded Power Supply)/ 35U (Embedded A/C cabinet)
Power Capacity	500A/ 48V
Air Condition Capacity	6kW (2 X 3kW)
Battery Capacity	300Ah/48V X 2 Banks, or 600Ah/48V X 1 Bank



Classical Configuration (Double battery cabinet)

Application	3 Operators
Dimensions	3500(W) X 1000(D) X2240(H) in mm including the base frame
Available "U" Space	35U (Embedded A/C Cabinet) / 25U (Embedded Power Supply)/ 35U (Embedded A/C Cabinet)
Power Capacity	500A/ 48V
Air Condition Capacity	6kW (2 X 3kW)
Battery Capacity	600Ah/48V X 2 Banks

Optional Cabinets & Accessories

Parameters

Battery Cabinet	EB-RB01	Battery Capacity	Four levels, Each level dimensions 620(W)X 600(D)X445(H) in mm, 300AH X 2Banks or 600AH X 1Bank
Battery Cabinet (Expansion)	EB-RB02	Battery Capacity	Four levels, Each level dimensions 620(W)X600(D)X 445(H) in mm, 300AH X 2Banks or 600AH X 1Bank
Embedded A/C Cabinet	EB-REA01	Available "U"Capacity	35U
		Air Condition Capacity	1 X 3kW (Cooling Capacity)
		DCDU	BLVD: 3X 20A/1P (Breaker) LLVD: 7X25A/1P(Breaker)
Embedded Power Supply Cabinet	EB-RP01	Smoke Detector	1 Unit
		Water leakage Detector	1Unit
		Available "U" Space	25U
		AC DU	AC Input: 2 X 125A/4P, Mechanical Interlock, comes standard with 3-circuit energy meter; B-level Surge Protection: In=30kA, I _{max} =60kA AC Output breakers: 3X32A/1P , 2 X 16A/1P , 2X 10A/1P
		Power Capacity	300A, 500A, 600A/ 48V
	DCDU	BLVD: 3 X 20A/1P (Breaker) LLVD: 7X 25A/1P(Breaker)	
Optional Accessories		Blank covers for Batteries and white space, Base Frame, DCDU	



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ES-EN-ASIA-15-1-0-16-4