

VERTIV™ ICOM™ CONTROL UPGRADES

Performance Services



Complete Insight into your Thermal Management System

Real time operating information of installed cooling systems is fundamental for room environment optimization and to drive data center infrastructure performance.

Upgrading your thermal management units to a new level with **Vertiv™ ICOM™ control**, you'll benefit from enhanced monitoring and communication capabilities that will provide full control of your system.

Vertiv ICOM control has been designed to **improve unit information availability** by integrating multiple cooling units into a single operating system in order to achieve **high-level supervision** of data center cooling infrastructure.

The **Vertiv ICOM control** features an advanced control algorithm that ensures **top reliability** in all conditions, meeting the cooling and airflow needs of the servers, while managing the reduction of fan speed whenever operation at full capacity is not required.

Vertiv ICOM control has significantly widened Vertiv units' communication ability raising them to an unparalleled level.

Upgrading your existing cooling units with **Vertiv ICOM control** enhances their network life, fully leveraging the initial investments and enabling renewed communication capabilities.



Optimize Your Thermal Management System with Vertiv ICOM Control Upgrades

Vertiv provides **comprehensive upgrade programs** to ensure that your business-critical infrastructure operates efficiently, safely and reliably.

Optimization of overall data center cooling performance can be achieved through **Vertiv ICOM control upgrades** which deliver the **highest capability in unit control**, enhancing already-high performance and efficiency of Vertiv cooling system.

Vertiv's ICOM control system represents the **state-of-the-art monitoring** and **communication technology** designed for upgrading your mission-critical thermal management units to a new level.

Without the proper control of multiple cooling systems in the data center, undesirable situations may arise, resulting in wasted energy and large variance in temperature and airflow in your critical IT environment.

UPGRADE BENEFITS

- Optimized system availability
- Greater flexibility through predictive control
- Maximum control of temperature and humidity conditions
- Networking of multiple units providing variable cooling capacity
- Intelligent control capabilities able to accommodate changing room conditions.

Intelligent Cooling Management

Vertiv™ ICOM™ control intelligently enhances the availability of unit information and enables communication between multiple thermal management units for **synchronized operation**, guaranteeing **increased reliability** and **high-level cooling** capacity management.

Vertiv ICOM control upgrades optimize data center performance delivering unprecedented advantages such as:

- **Networking capability** of up to 32 units that can work together as a single operating system for improved energy efficiency and flexibility
- **Direct connection** with the facility network (Ethernet), for an easy network setup
- **Storage of up to 400 events** to enrich unit history and enhance support
- Compressor rotation based on the actual hours of operation for compressor **lifecycle enhancement**
- Daily, weekly and monthly unit rotation for **lifecycle enhancement**
- Quick and easy **software update** and configuration replication
- Temperature and humidity trending with up to **16 days history**
- Recording of highest / lowest temperature and humidity values
- **Unit diary** for controlled access to authorized users for recording of maintenance data
- **Optimized alarm management**
- **Optimized design** with maximized memory capacity and opto-isolation.

Vertiv™ ICOM™ Control Communication Capabilities

Vertiv ICOM control features different integration levels for any monitoring need:

- **Vertiv ICOM control board**, allows quick and easy access to our web based monitoring tool through LAN communication
- **Vertiv ICOM board with Vertiv IntelliSlot card**, opening to main communication protocols:
 - HTTP with reading and control features through a simple web-browser
 - SNMP enabling Vertiv Nform™ deployment for reading, control and alarm notification features
 - MODBUS allowing communication with third party Building Management Systems (BMS).

Ultimately **Vertiv ICOM control** allows direct connection to Vertiv SiteScan® Web, which allows users to virtually monitor and control any piece of critical support equipment.

WHAT THE VERTIV ICOM CONTROL UPGRADE KIT INCLUDES

The retrofit kit will be installed by Vertiv's Customer Engineers, allowing your business to benefit immediately from the full capabilities offered by our solution.

Retrofit mainly consists of:

- Vertiv ICOM board installation
- Connecting cables wiring
- Unit configuration
- System's final general test.

