

Scale-out Management of Physical and Virtual Worlds

concurrentCONTROL™ works together with Concurrent Thinking's concurrentCOMMAND™ product in order to provide a complete solution for optimising data centre power efficiency.

Delivered in the form of a discrete 'Zero U' appliance, and with support for up to sixteen wired 5V sensors and two Ethernet networks, concurrentCONTROL provides a scalable platform for power, environmental, server and OS monitoring within the data centre.

Benefits include:

- Delivers a scalable infrastructure for monitoring and managing large-scale data centre estates
- Provides a local bridge between the physical and virtual world
- Support for proprietary temperature, humidity, sound, air-flow and door sensors as well as most 3rd party sensors
- Connects to the Ethernet management network in order to monitor server and OS metrics using standard out-of-band (OoB) protocols
- Remote power control and system identification on supported platforms (IPMI/SNMP)
- Provides increased levels of resilience in scale-out environments
- Automatic discovery of appliances and subsequent configuration via concurrentCOMMAND
- Small '0U' form factor, enabling it to be mounted in the back or side of any 19" rack
- Low power consumption (<10W)



maximise your data
centre efficiency

Discrete Data Centre Management Appliance



concurrentCONTROL is a space-optimised 'Zero U' appliance which can easily be mounted in the back or side of any 19" rack. It provides a rack-based environmental sensor capability, while undertaking other control and monitoring tasks locally so as to provide a scale-out management infrastructure. The appliance is a field replaceable unit which can be easily re-configured through the concurrentCOMMAND GUI.

Environmental Monitoring



concurrentCONTROL provides sensor support for up to 16 wired sensors. These can be placed a short distance from the appliance and can monitor temperature, humidity, sound, air-flow and door open/close status. Sensor metrics are collated locally and then sent to concurrentCOMMAND where they can be monitored via an intuitive web GUI in various statistical, physical and logical views. Configurable thresholds with automatic alerting and user-defined responses enable the appliance to warn of changes in the environmental condition of a data centre.

Out-of-Band Server and OS Monitoring



concurrentCONTROL enables the collection of IPMI metrics from BMC-enabled devices within the data centre. It can also collect non-invasive metrics from SNMP-enabled servers, switches and miscellaneous devices like PDUs and UPS systems. It calculates statistical information and fault status before forwarding the metrics to concurrentCOMMAND for further analysis and presentation via the web GUI.

Out-of-Band Control

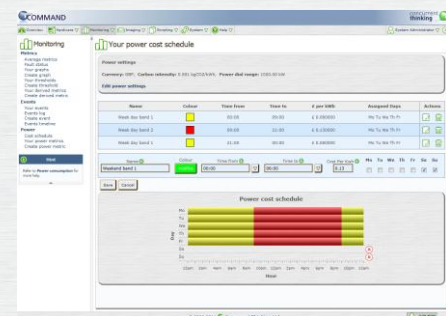


concurrentCONTROL is used to scale out-of-band control tasks which need to be carried out on a pre-defined group of servers (examples include PDU power cycling or node imaging). It then passes the device status back to concurrentCOMMAND for graphical presentation to the user.

Scalable Task Execution



concurrentCOMMAND operates a scalable task management architecture, which distributes intensive processes to worker processes running on any number of concurrentCONTROL appliances. This allows the management system to scale and grow with your future data centre requirements.



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The Innovation Centre
Warwick Technology Park
Warwick CV34 6UW
United Kingdom

Tel: +44 (0)1926 623 130
Fax: +44 (0)1926 623 140
www.concurrent-thinking.com