



CONTEG DATA SHEET

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TOTAL SOLUTIONS FOR DATA CENTERS

Aegis Data center infrastructure management (DCIM)

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Data centers have changed considerably throughout the years; an evolution of information technology has resulted in data centers becoming the critical nerve center of today's enterprise. The efficiency of data centers has become an important topic of a global discussion among end-users, policy makers, technology providers, and facility architects.

One of the important highly developed data center metrics used to measure overall efficiency is PUE (Power Usage Effectiveness) developed by The Green Grid™. PUE is equal to the total power used by the facility to support the IT load, for example cooling, UPS, and lighting divided by the total IT equipment power consumption.

In general, PUE calculations, compared to manually gathered information, takes place on a monthly base. Manual calculation is only useful for reporting. If you want to improve the operation of the data center then the metrics should be based on real-time information.

Improving efficiency reduces the OPEX of your data center, and help make the facility compliant with current and developing governmental regulations, and immediately reduces your Carbon footprint.

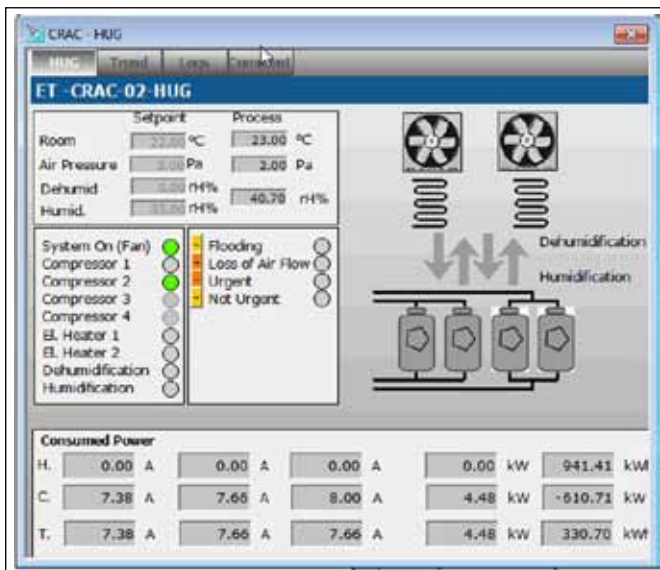
Data Center monitoring and control is a critical element for maintaining maximum availability for your critical operations. CONTEG developed the Aegis DCIM system which collects, analyses and reports all the necessary information using standardized data communication protocols. With DCIM you have your Data center under full control.



Scalable Solution

The Conteg Aegis Infrastructure Management can be adapted to fit all situations. The solution has been tailored to suit three levels of projects, a Server Room version for project of up to 10 cabinets/racks, a Enterprise Data Center version for projects of up to 32 cabinets/racks and a Global version that can meet the requirements for a data center project regardless of size or scale. For additional details about each of these offerings contact the regional Conteg representative or send an email enquiry to the address listed below.

The Conteg Aegis DCIM comprises the following functionalities:



- Insightful information of your computer room. DCIM has a real-time performance dash-board. Metrics like PUE, EUE, EER, etc. are shown on this dashboard
- Alarming on defects / equipment malfunctions, temperature problems, exceeding humidity or temperature set point, etc
- Monitoring and reporting of energy consumption of IT-equipment, at either facility, row, rack or outlet level
- Monitoring of loads for electrical breakers based on actual and daily peak load values
- Capacity Reports
- Local and remote accessibility via a standard web portal
- Data security on various levels

The Conteg Aegis DCIM structure

The real-time database is the heart of the application. Each device in the data center is managed using industry standard data communication protocols.

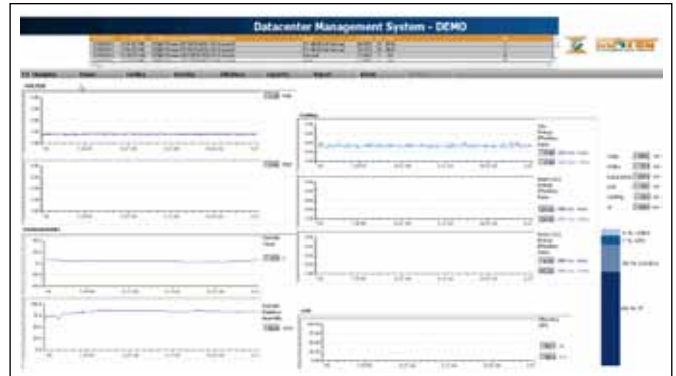
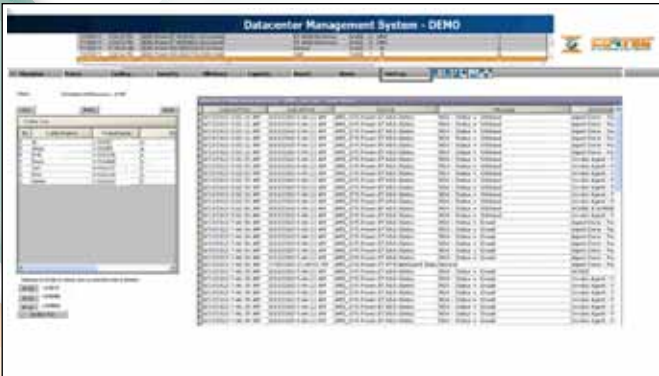
Aegis Data Center Infrastructure Management (DCIM)



Central monitoring

The application is used to connect the information from all the measured parameters from the computer room to a central monitoring station. The central infrastructure management displays and allows access for the following functionalities:

- Real Time data from Data Center equipment
- Central alarm sequencing (in case of no or late action)
- Centralized visualization of all underlying computer rooms
- Centralized trending
- Centralized reporting



Alarms

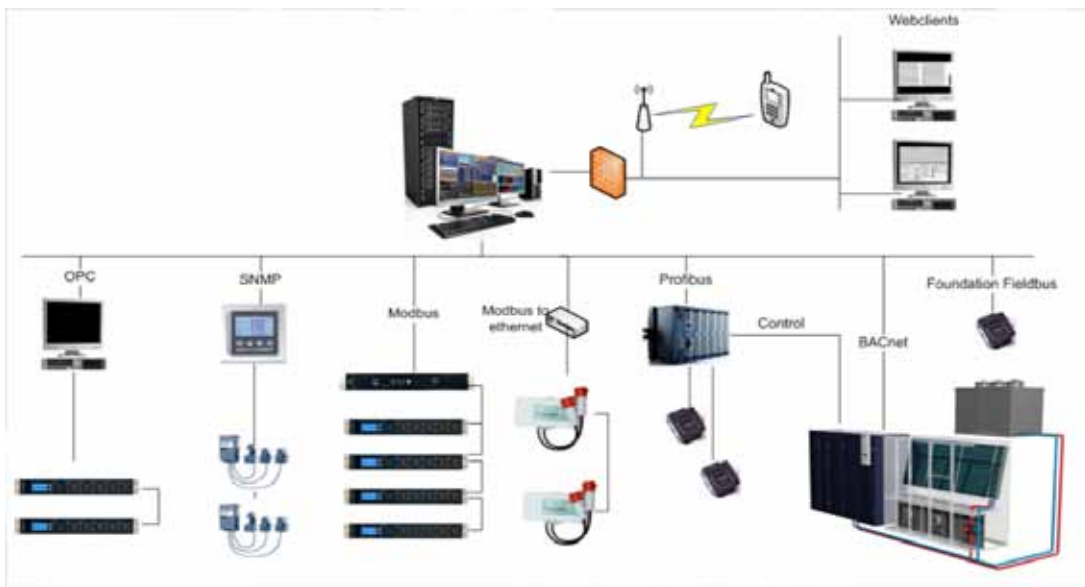
All active alarms are visualized in main view at of the Aegis DCIM. Additionally each page contains a history list comprising the last occurred alarms. Lastly the dedicated alarm page shows all alarms. An alarm remains visible until cleared and accepted, once accepted they are stored in an archive. The notification message for the alarms are user configurable and can be communicated via, SNMP, Email, Pager or GSM.

Accessing the Conteg Aegis DCIM application

The Conteg Aegis DCIM comes in a ready to be installed MS Windows Server Environment. Optionally, the application can be delivered installed on a touch PC. The Conteg Aegis DCIM is delivered with a standard GUI view which can be custom configured to meet your requirements. This main screen is important as it visualizes the most important real time information.

Remote Access

WebHMI is a powerful add-on to the Conteg Aegis DCIM system, providing secure remote Internet or Intranet connectivity to your enterprise system. Using nothing more than a standard off the-shelf web browser (i.e. Microsoft Internet Explorer), a remote user with proper access rights and a PC can instantly browse to view live OPC and visualization information from any location on the network. Based on the Microsoft DNA architecture, WebHMI automatically delivers the required "plug-ins", therefore your browser station can be used as part of the overall network solution.





Simple Intuitive Interface

Conteg's Aegis DCIM is based on standard industrial interfaces, protocols and Microsoft software standards. This assures user friendliness, easy accessibility, and finally quick acceptance.:

- Only elementary IT-skills are needed to operate the system
- Easy to learn with a high degree of intuitive operation
- Easy to operate using just the keyboard, mouse, and function keys

Integration with third party applications

The Conteg Aegis DCIM is designed to integrate with all types of devices, equipment and third party software applications. Next to the available standard interfaces, OPC UA wrappers can be used to accomplish third party application integration. These wrappers offer connectivity for many different data access clients and servers of LAN/WAN environments in a firewall friendly manner.

The Conteg Aegis DCIM supports the following data base connectivity:

- SAP BAPI: DCIM has a certified SAP BAPI (Business Application Programming Interface) available
- MS SQL server 2005, My SQL, Oracle, MS Access, ODBC, OLEDB
- Data mining grid control: this tool enables OPC, SNMP and real-time data mining

