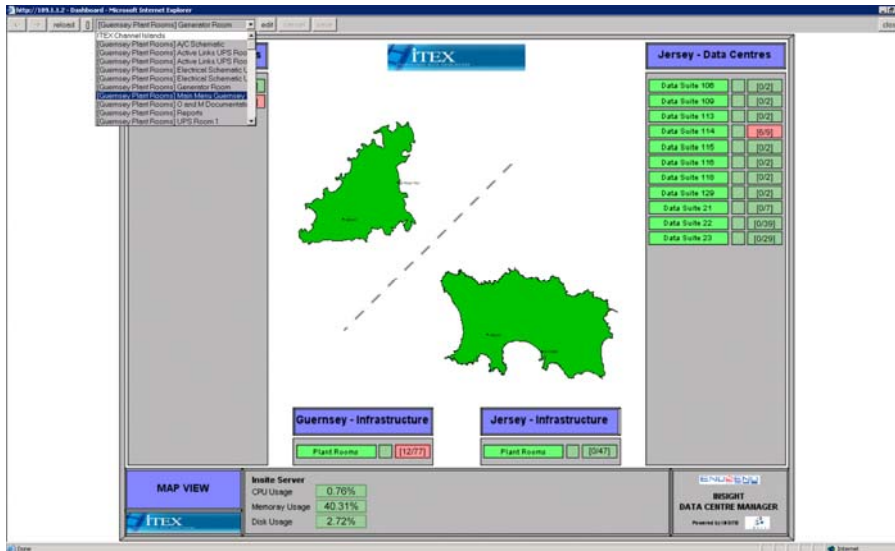


InSight Data Centre Manager

Data Centre Environmental Monitoring

InSight DCM—Monitoring the Data Centre



Key Features

- Single Monitoring and Management Platform for all enabled rack and room environmental systems
- Centralised system for all data centre environmental system monitoring
- Provides full active monitoring of the environment 24 x 7
- Simple but powerful dashboard style graphics with 'traffic light' warning system
- Fully configurable user level alerting matrix
- SNMP capability
- Records all data monitored for capacity and installation planning (e.g. power loads)
- Powerful reporting functions, either manually or automatically scheduled
- Email and SMS alerts for alarm conditions when thresholds are exceeded
- Real-time PUE (Power Usage Effectiveness) calculation
- Trend analysis functionality
- In-built probes for common device types
- Simple menu system makes for easy navigation
- View the system via a network browser across an IP network
- Multi-level user access levels
- Automated database backups

The InSight Data Centre Manager is a unique, centralised application enabling real-time monitoring and management of all the disparate environmental systems within the Data Centre. Systems such as:

- Uninterruptible Power Supplies
- Generators
- Power Meters
- Fire Systems
- Air Conditioning Systems
- IT Rack PDU's
- Leak Detection
- Environmental Sensors (Temperature, Humidity & Airflow)

In fact, any equipment that supports SNMP or modbus TCP/IP can be monitored by the system. InSight DCM can receive traps and alerts from devices to signal an error and interrogate equipment to gather detailed information. 24 hours a day, 365 days a year, InSight monitors all of your key environmental components; alerting you if any are faulty or performing outside predefined parameters.

It is a multi-user, multi-faceted solution; combining a centralised monitoring system with powerful recording and reporting features that assist the Data Centre professional to manage their environment. The system enables capacity planning, installation planning, billing and numerous other mission critical activities.

If you only want one monitoring solution for your Data Centre, then InSight DCM is the application for you!

Understanding

Designing

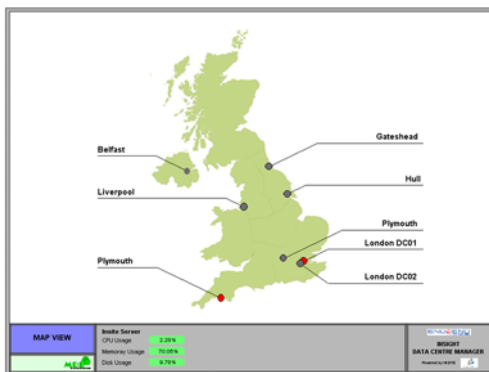
Delivering

Supporting

One Application to put you in Control!

END2END's solution incorporates a central application that can show the status of all of the racks and environmental equipment within the Data Centre. The floor plans, equipment information and reporting are all bespoke and tailored exactly to the customer's requirements.

So what can InSight DCM provide you?

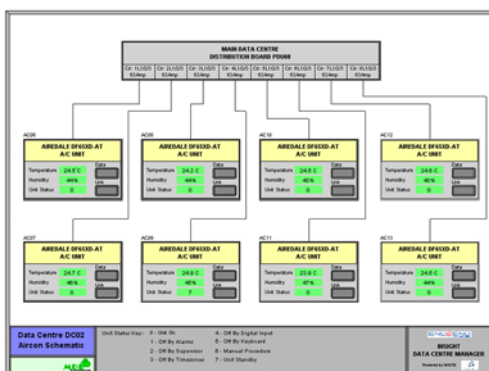
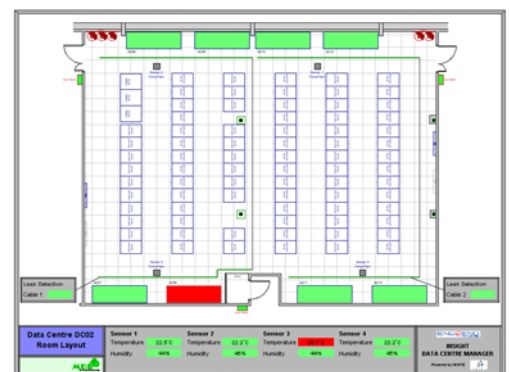


Multi-Site Monitoring Capability

InSight can be configured to monitor multiple sites utilising your corporate network to communicate with the various environmental systems installed. Sites can be grouped together or shown individually to provide a structure, enabling fast and efficient navigation to any relevant site with formatted screens for each site.

Alerting

InSight DCM can be configured to provide alerts or warnings for all equipment within your data centre environment. Whether this be a critical or maintenance alarm from an air conditioning unit, a mains power failure warning or an out of limit warning for a rack PDU. All alerts can be displayed via an on screen icon to identify on a drawing or schematic, which unit has the alarm state. In addition, individual users or groups can be configured to receive email or SMS messages on a per alert condition basis.

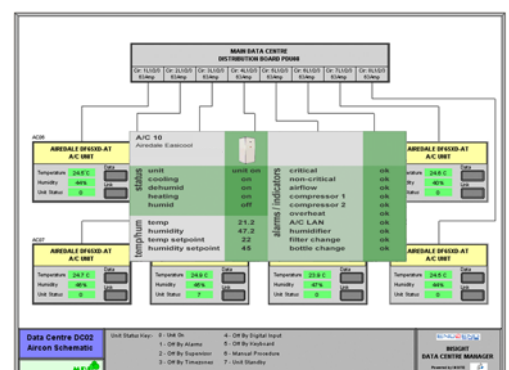


Active Readings

Utilising SNMP get commands, InSight DCM can interrogate the various systems installed within the data centre, enabling information to be displayed on the screen. Information such as power load, air conditioning unit return temperatures & humidity and unit status can be displayed via bespoke screens to present the information in a format which best suits you.

Detailed Equipment Views

For environmental equipment installed with SNMP or Modbus TCP/IP, it is possible to create pop up detailed equipment status tables. These can be configured to provide greater levels of detail about individual pieces of equipment. The status tables can be configured to show information such as: Unit Status, Multiple Alarm Status Indicators, Supply and Return Air Temperature and Humidity, Unit Set Points etc., and be activated by simply clicking on a button on the screen.



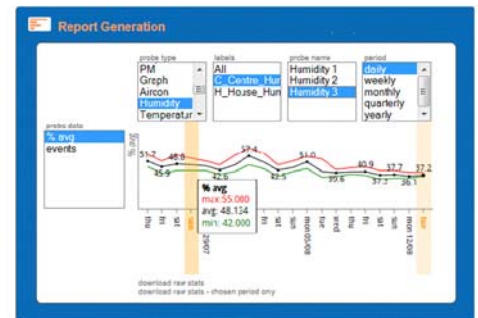


Rack Power Monitoring

Monitoring the power consumption within an IT rack is essential to ensure that the equipment installed does not overload the supply breaker. It is also important to understand the racks load when utilising multiple rack PDU's, to ensure that resilience is maintained in the event of a PDU failing or being switched off for maintenance. Providing you utilise Intelligent monitored PDU's, InSight DCM can be configured to capture the data and present it on a rack by rack basis via a pop up screen. This allows you to get a quick understanding of available capacity or "at risk" racks.

Reporting

InSight DCM's reporting module allows bespoke reports to be created via a simple to use reporting interface. Reports can be configured to look at individual items of equipment, groups of equipment, or equipment on a room or site level. Reports can be created on an adhoc basis or set up to run automatically and distributed to specific individuals on a weekly or monthly basis. Reports can also be defined and linked to buttons on the screen to allow regular reports to be run quickly.

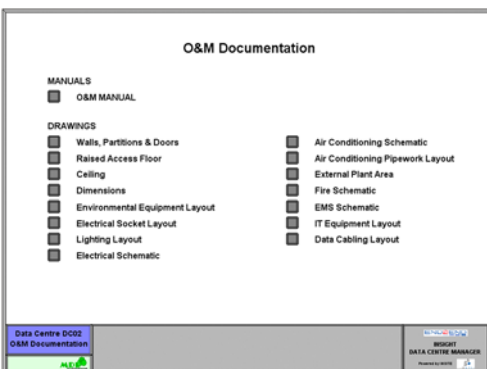


Data Centre Efficiency

If you have suitable hardware installed to monitor the power supplies within the data centre, InSight DCM can record this information and allow you to continually assess the energy consumption of your site. This can be at rack or room level and will enable you to assess the effects of any changes within your data centre helping to improve the energy efficiency of the room. InSight DCM can also be used to show PUE and DCiE metrics on a real-time basis or in an historical report format.

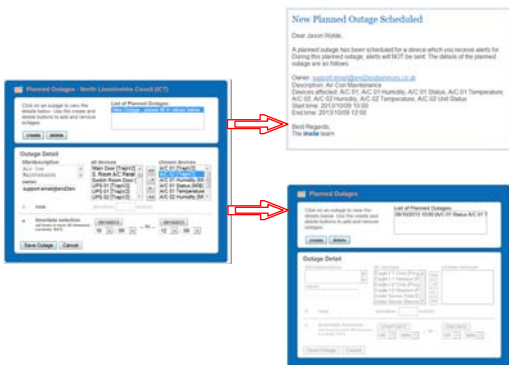
Link Buttons

The link button feature allows buttons to be created on the screen enabling automatic links to be set up to devices which have their own web pages setup. This enables the user to quickly access the device should they wish to obtain further information or to configure the environment system remotely. No need to remember the IP address, just a simple click of the button. Link buttons can also be used to route the user to different relevant screens within the system, providing an easy and intuitive navigation tool.



Document Repository

Often when a problem occurs, it is necessary to look up a document to help resolve the problem. This could be a contact list for engineers, a process document, electrical schematic or user manual. Utilising the link button feature, it is possible to create links to centrally stored documents. The integration of documents into the system, means it is possible to keep all documentation relevant to the data centre in one central place. This not only enables quicker and easier access, but helps maintain a centralised version controlled document management system.

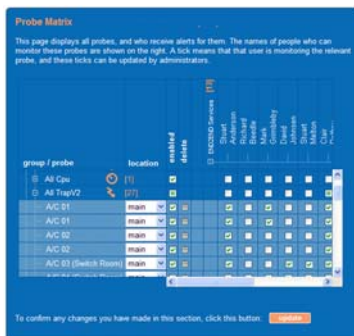
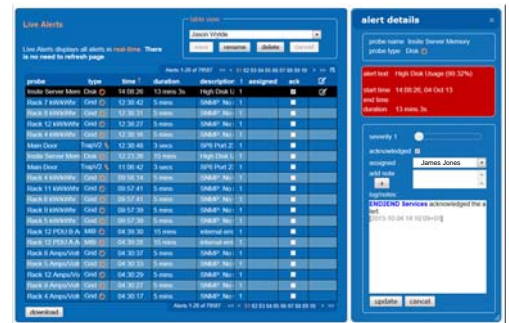


Disable Alarms for Maintenance

One of the most annoying things when you are centrally monitoring the environmental systems within a data centre, is the multitude of alarms you receive when preventative maintenance is being undertaken on equipment. These alarms frequently result in real errors from other equipment being missed, as personnel start to ignore the messages assuming they are all maintenance related. To get around this, InSight DCM has a function to allow items of equipment to be placed in maintenance mode. This ensures that no alarms are sent from the systems until the unit is set back to an operational status.

Alarm Acknowledgement

When the system is being monitored by a number of people, possibly in different geographical locations, it is important to understand if an alarm condition has actually been seen and is actively being dealt with. The acknowledge alarm function allows individuals to acknowledge an alarm condition on the system, assign to themselves and add notes and relevant information about what actions are being taken to resolve the problem. This information can be seen by all users so that everyone knows who is managing the problem and the current status.



Call Alerting Matrix

All alert conditions monitored by InSight DCM can be configured to enable or disable alerting for individual unit alarms for individual user. This enables different personnel or functional groups within your organisation to receive only the alarms that are relevant to them. The system also allows users to be configured to only receive alerts on specified days or times of the week. This can be particularly useful when providing out of hours support, where important alarms can be relayed to an on call member of staff or engineer to action potentially critical failures.

Security

InSight DCM is designed to provide a comprehensive level of security. Individual users are added to the system and assigned security levels, which can range from full unrestricted access through to dashboard user (view only users). The control of these user levels not only controls the functions available to the user, but restricts which screens and sites a user can obtain access to.



Monitoring Made Easy

Active monitoring of your data centres environmental systems; made easy through a single highly configurable centralised system.

Call us today to discuss how InSight DCM can put you in control.

Understanding

Designing

Delivering

Supporting