



- Capacity management
- Detailed 2D Footprints
- Date-specific capacity planning
- Prediction and historization
- Search and query functions
- Diagrams and dashboards



// FNT Command Data Center Cockpit

Centralized capacity management for power, climate, space,
and weight in your data center

Data centers are among the most expensive and fastest-growing areas in modern organizations and businesses. To develop and operate a resource-efficient data center, it is essential to have a detailed overview of your current and planned utilization of space, power, and air conditioning systems, as well as the weight of all installed components. This calls for a central control system that shows all information on existing resource capacities. In addition, a sophisticated data center infrastructure management (DCIM) solution must support date-specific planning of all assets and components in the data center, including graphically supported planning and analysis of installation space.

The FNT Command Data Center Cockpit module offers a comprehensive range of display and evaluation options for all aspects of your data center. It provides an immediate overview of all relevant information regarding power, air conditioning, floor space, and weight. The Data Center Cockpit is a powerful tool for developing and evaluating multiple data centers. Each one is defined via the rooms assigned. As a result, it is possible to create evaluations of floor space usage, climate conditions,

weight and power loads in both graphic and tabular form. It is also possible to manage historization and predict development of the data center on the basis of recorded trends or planned measures. To obtain a visual overview of physical space, you can create “footprint” views of the data center as a whole as well as each individual room.

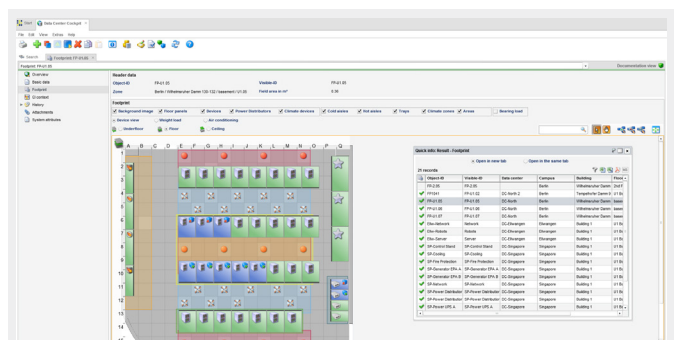


Fig. 1: 2D Footprint of a room with configurable view of details

Within each footprint, you can display and manage climate zones and physical areas to which devices from the zones are

assigned. Using this view, you can obtain detailed evaluations of the distribution of resources for individual groups within the entire data center or in specific rooms. Data can be evaluated and presented in the form of detailed reports and diagrams. Graphical representations are generated automatically in FNT Command.

Footprints

Footprints are graphical representations of entire data centers or zones within them. Rooms are depicted as grids within the system, in which individual objects (CIs) can then be placed. Each grid has a defined area that can be set individually for each footprint.

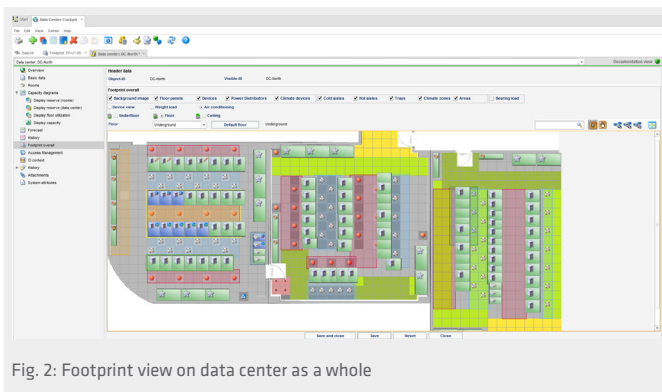


Fig. 2: Footprint view on data center as a whole

You can use a footprint to store a floor plan of the room as a background image. You can also lay a grid of floor tiles on top of the floor plan.

If the object data stored in FNT Command includes dimensional information (e.g., width and depth), the system uses this information to calculate the required floor space and aggregate weight. The required floor space and aggregate weight are shown in graphical form. If you reach or exceed any preset threshold values, the problem areas will be highlighted in color. A layer function enables you to show or hide different groups, e.g., devices, grid, or weight. You can also assign additional objects to freely definable areas or floor spaces. This enables better evaluation of actual loads in individual areas. It is also possible to use footprints to depict and manage climate zones.

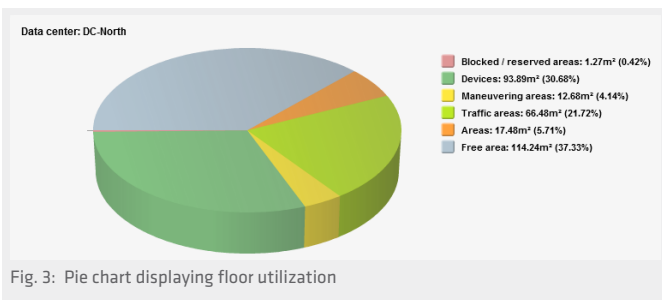


Fig. 3: Pie chart displaying floor utilization

Capacity Analysis

The capacity utilization diagrams provide information on all available reserves by room or data center. With a click of the mouse, you can create diagrams showing usage of air conditioning,

power, and floor space. In the floor space view, you can create pie charts showing the relative percentages for different types of space: occupied with device, unoccupied, maneuvering, traffic, and blocked. The current and planned utilization and power consumption for individual rooms is presented in the form of bar charts.

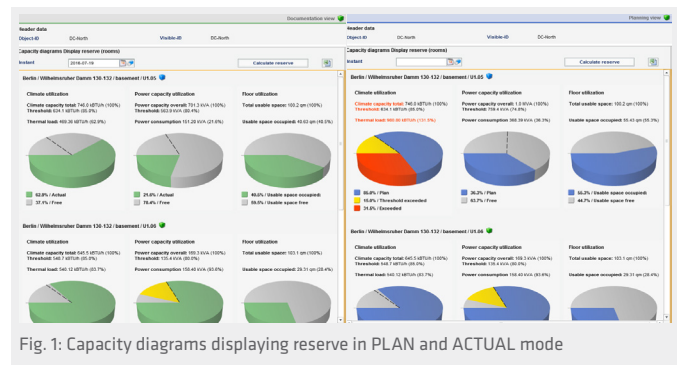


Fig. 1: Capacity diagrams displaying reserve in PLAN and ACTUAL mode

Prediction and Historization

Thanks to the extensive planning functionality in FNT Command, the system can access all the necessary current and plan data to enable a unique calculation and visualization of future development of the data center.

As well as creating predictions based on planned installations or changes in the data center, you can generate trend analyses using historization data. The information presented for the selected rooms includes power consumption (in kVA), thermal load (in BTU/h), and weight.

Report

The reporting function performs specific database queries to provide the Data Center Cockpit with relevant information on the utilization of data centers, rooms, and floor space, as well as predictions and historization. The results enable planners to quickly identify which cabinets have enough free height units to accommodate additional components.

Search and Query Function

Other important features include extensive search and query functionality. Using a filter, you can search for data records in each of the administrative areas and export them to Excel.

Attachments and History

It is also possible to attach one or more files to any object in the system. The history of each object is traceable and can be used as the basis for compliance requirements and audits.

System Requirements

The FNT Command C base package is a prerequisite for using the FNT Command Data Center Cockpit module.