



speedikon[®] DAMS Datacenter Asset Management Solutions

Efficient Data Center Administration

Frequently asked questions

- **What is the equipment of our data center like?**
- **Which systems have to be supported?**
- **Where is the exact location of the individual units?**
- **What are the specifications/configurations of the individual unit?**
- **What cost is involved and ...?**
- **What is the utilized capacity of our infrastructure?**
- **Where is space left for additional racks and/or other equipment?**
- **Which application is run on which server?**
- **For which units does a maintenance contract exist?**
- **Who is responsible for a specific unit?**
- **Which units have been leased?**
- **What is the validity of our contracts?**

Information required

IT Manager

has an overview of total cost, systems used and capacity disposable

Financial Manager

is keeping track of data center inventory, leasing contracts, age of units, etc.

Service Manager

Is keeping an eye on warranty and maintenance data for cost control and planning of upgrades



Software Administrator

knows which systems need to be supported

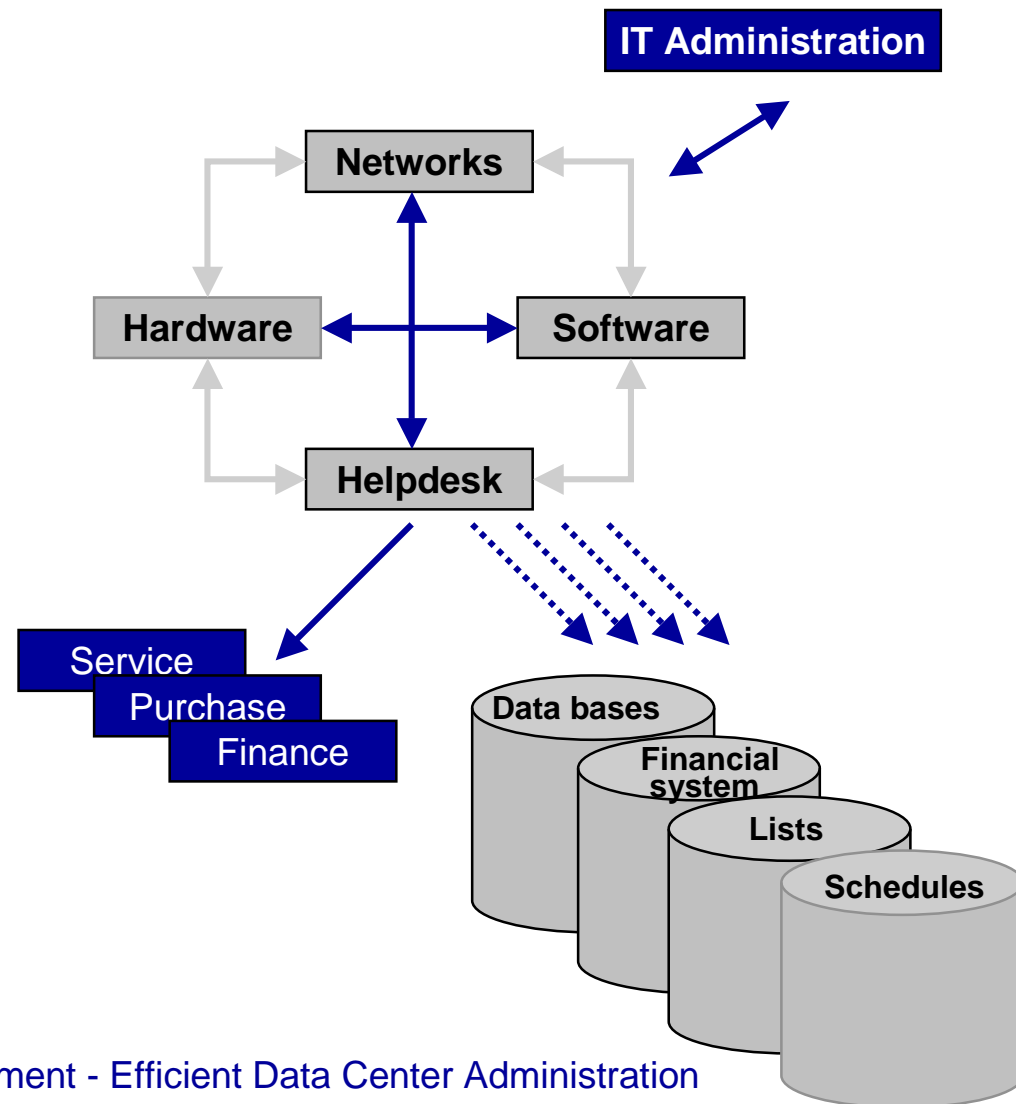
Facility Manager

has a survey of the individual asset location as well as information on disposable capacity of IT surface and infrastructure

Current process

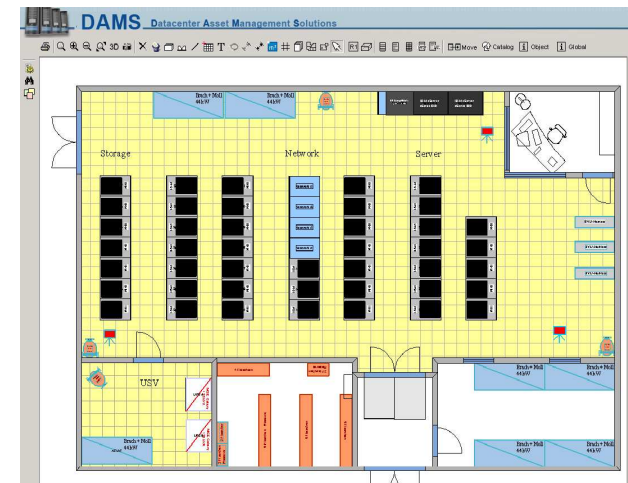
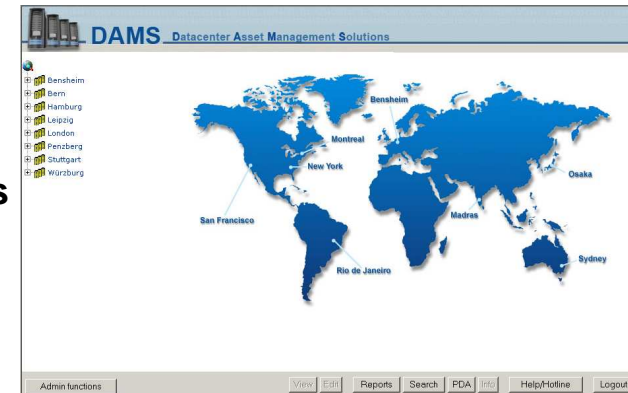
Challenges

- Dispersed sources of information
- Split areas of responsibility
- Long communication channels
- Missing information
- Media gaps
- Lacking access to information



speedikon[®] DAMS: Asset Management

- Electronic management of IT and infrastructure assets
- Central comprehensive information pool
- Storage of technical and economical data, adjustable lists of attributes
- Individual and predefined data base queries supporting decision making process
- User-friendly GUI
- Historiography
- Graphic data center documentation
- On-screen utilization planning and support of IT relocations
- Virtual 3D data center visit
- Comprehensive library of units
- Support of ITIL standards
- Web-based system architecture for consistent data basis and simple access via web browser



The entry into DAMS

- Hierarchical DC structure
- Ind. File-tabs
- Usergroups

Login über Benutzergruppen

Name:

Password:

User interface layout

The screenshot displays the 'DATA CENTER ASSET MANAGEMENT' software interface. The main window shows a 2D floor plan of a data center with sections labeled 'Storage', 'Network', 'Server', and 'USV'. A comprehensive toolbar is visible at the top. An inset window titled '3D Viewer' shows a 3D perspective view of the data center layout. Below the 3D viewer is a control panel with icons for 'Position', 'Standort', 'Drehen', and 'Zoom'.

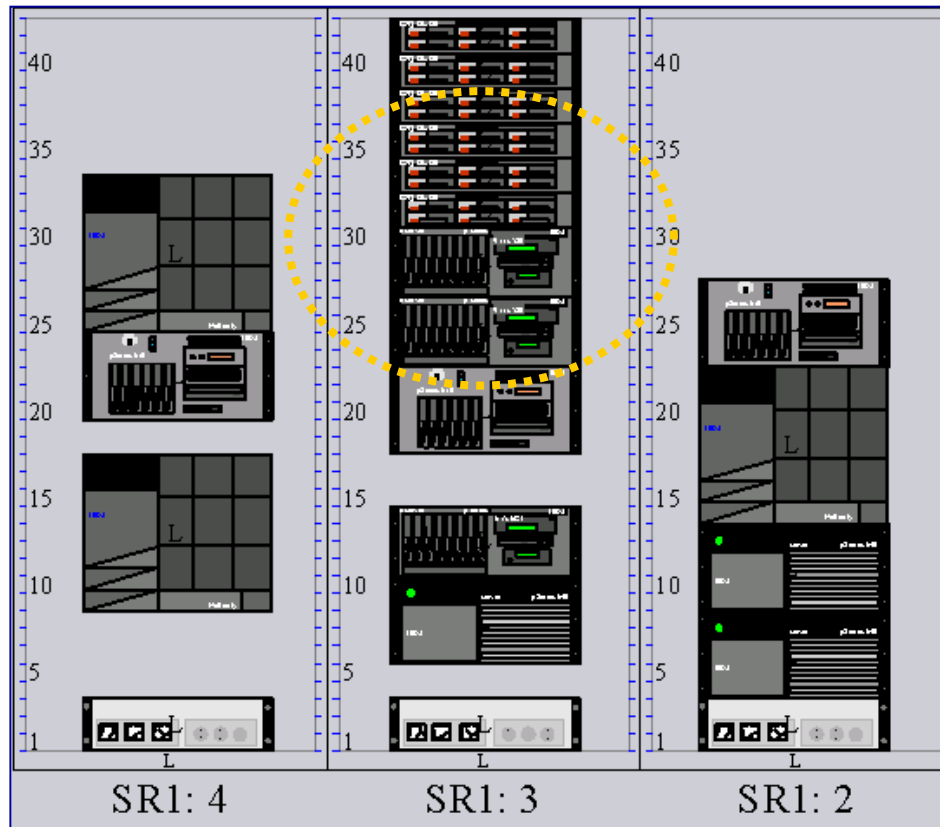
- 2 D & 3 D view of data center
- Comprehensive toolbar
- Help button

Data Center ASSET Management - Efficient Data Center Administration

User interface rack



- **Rack-View:**
Front, Rear, Side view



Equipment catalogue

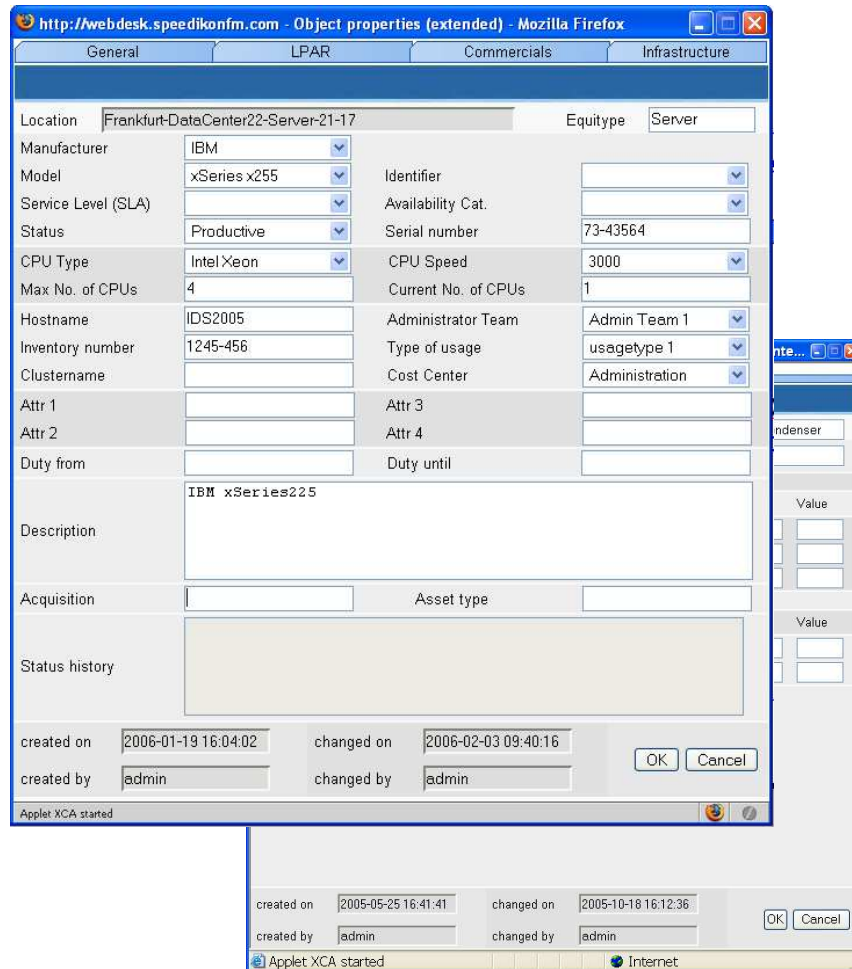
Compaq
Cybex
FSC
HP
IBM
Level One
Panasonic
Raritan
Rose Electronics

Manufacturer

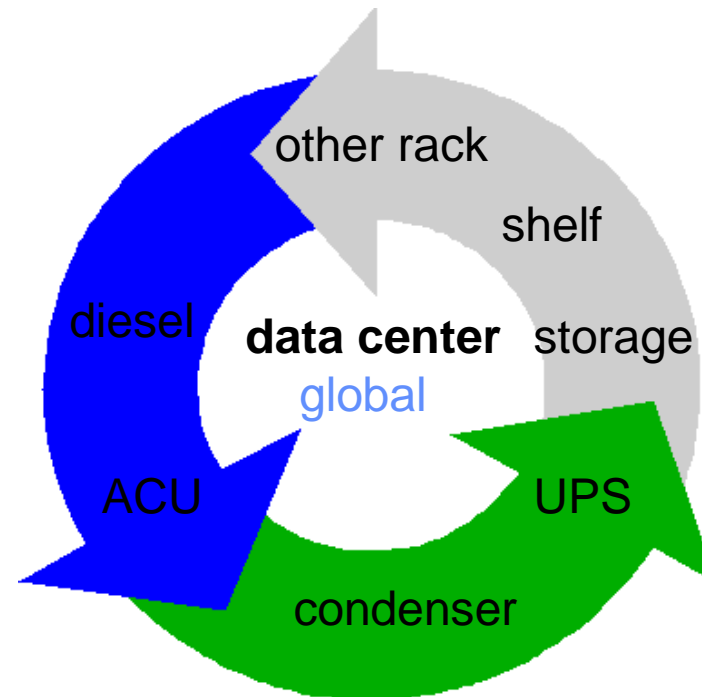
- > Dell
- >> Server
- >>> PowerEdge

- IBM
NetVista A40 6578-D5G
- IBM
NetVista 6578
- IBM
NetVista 6792
- IBM NetVista
6794
- IBM
Netvista 6794-M41
- IBM
NetVista A30p 8309-15G

Objects and file-tabs

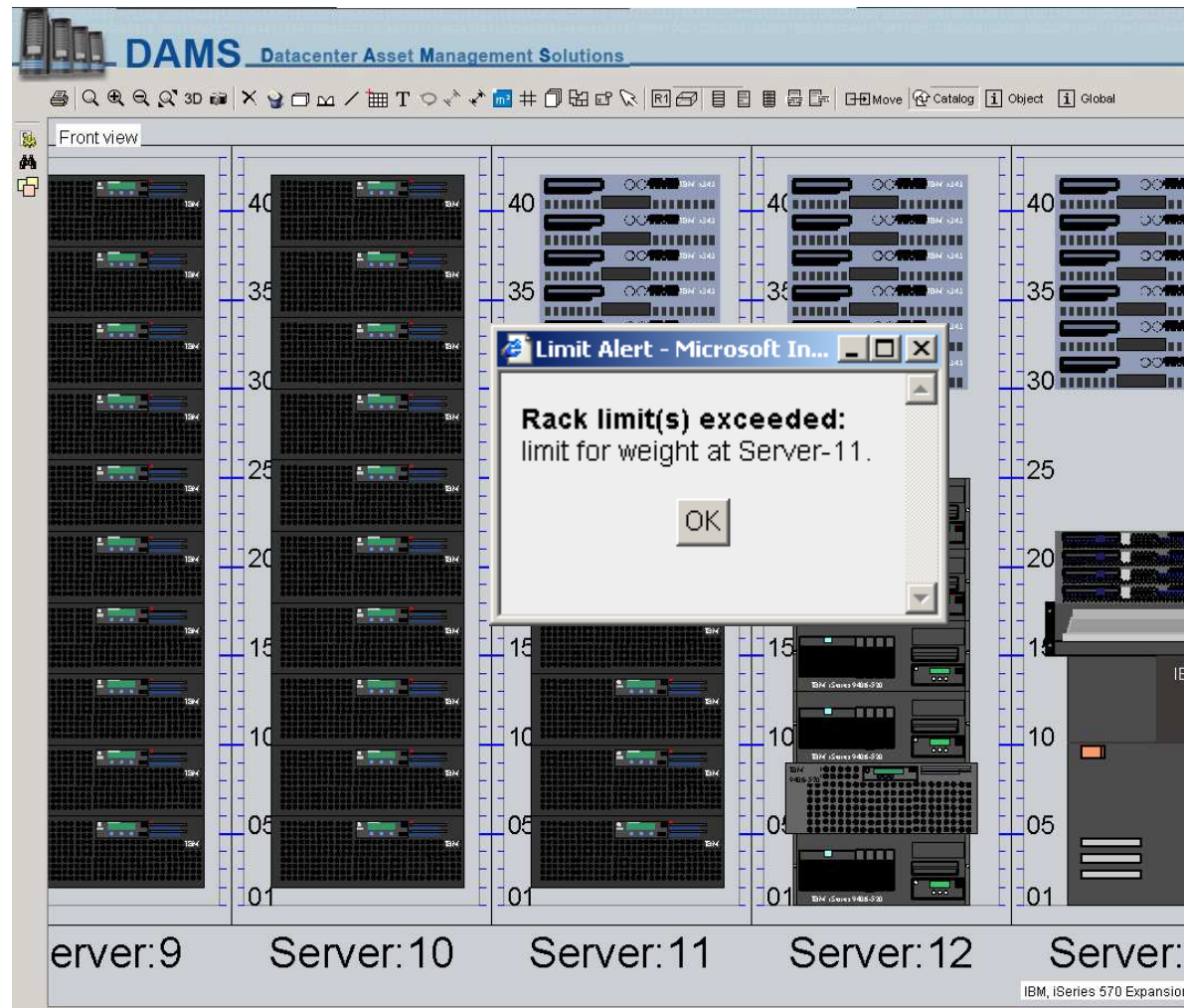


Objects in *speedikon*[®] DAMS



Logical checks in positioning equipment

Checking on:
Electrical input
Heat output
Weight



Integration of various sensors

Object properties (extended) - Microsoft Internet Explorer

General Summary

Location Equi-Type

Model Manufacturer

Temperature realtime value

Temperature last update

Sensor id

created on changed on

created by changed by



Database queries search function

	Location	Datacenter	Row name	Identifier	Serial Number	Object description	Equipment Type
	Frankfurt	DataCenter22	Speicher-18				Other
	Frankfurt	DataCenter22	Speicher-18				Other
	Frankfurt	DataCenter22	Speicher-15				Other
	Frankfurt	DataCenter22	Speicher-15				Other
	Frankfurt	DataCenter22	Server-25		42-12345		Server
	Frankfurt	DataCenter22	Server-24		44-12345		Server
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Server				
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Server				
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Speiche				
	Frankfurt	DataCenter22	Speiche				

Search

- Search of predefined attributes
- Complex search by adding further attributes
- Export of search result to Excel

Previous searches: New search New search name:

Equipment type: All Location: All

Show all attributes

Attribute	Operator	Value	
Manufacturer	=	IBM	<input type="button" value="Remove"/>
Status	=	Ordered	

Status = Ordered

Reports energy balance

Measured Heat output per datacenter

List of the heat production of all objects.
Only items with status Productive are counted. The

Location	Datacenter	Room name
Frankfurt	DataCenter22	
Frankfurt	DataCenter22	DEMO Rech
Frankfurt	DataCenter22	Löschmitte
Frankfurt	DataCenter22	Netzwerk
Frankfurt	DataCenter22	Server
Frankfurt	DataCenter22	Speicher
Frankfurt	DataCenter22	USV
Frankfurt	DataCenter22	Summe
Frankfurt		

Max Infrastructure Utilization

List of the utilization of the Diesel and UPS units.
Only items with status Productive are counted. The chosen time period is not considered.

12 results

Location	Datacenter	Room Name	Device	Net power	Usage	Utilization
Frankfurt	DataCenter22	USV	UPS: U1	120 kW	103.49 kW	86 %
Frankfurt	DataCenter22	USV	UPS: U2	120 kW	82.6 kW	68 %
Frankfurt	DataCenter22	USV	Total UPS	240 kW	186.09 kW	77 %
IBM	DEMO Rechenzentrum	USV	UPS: U1	120 kW	103.49 kW	86 %
IBM	DEMO Rechenzentrum	USV	UPS: U2	120 kW	82.6 kW	68 %
	DEMO Rechenzentrum	USV	Total UPS	240 kW	186.09 kW	77 %
	Dieselstraße	Elektrovert./USV	UPS: U1	120 kW	103.49 kW	86 %
	Dieselstraße	Elektrovert./USV	UPS: U2	120 kW	82.6 kW	68 %
	Dieselstraße	Elektrovert./USV	Total UPS	240 kW	186.09 kW	77 %
	Dieselstraße	Telefon	UPS:	120 kW	0 kW	0 %
	Dieselstraße	Telefon	Total UPS	120 kW	0 kW	0 %
				840 kW	558.26 kW	66 %

Energy Balance

- Output of maximum impact on climate
- Statement of heat supplied per room
- Report on capacity of electricity
- Visualization

Graphic search

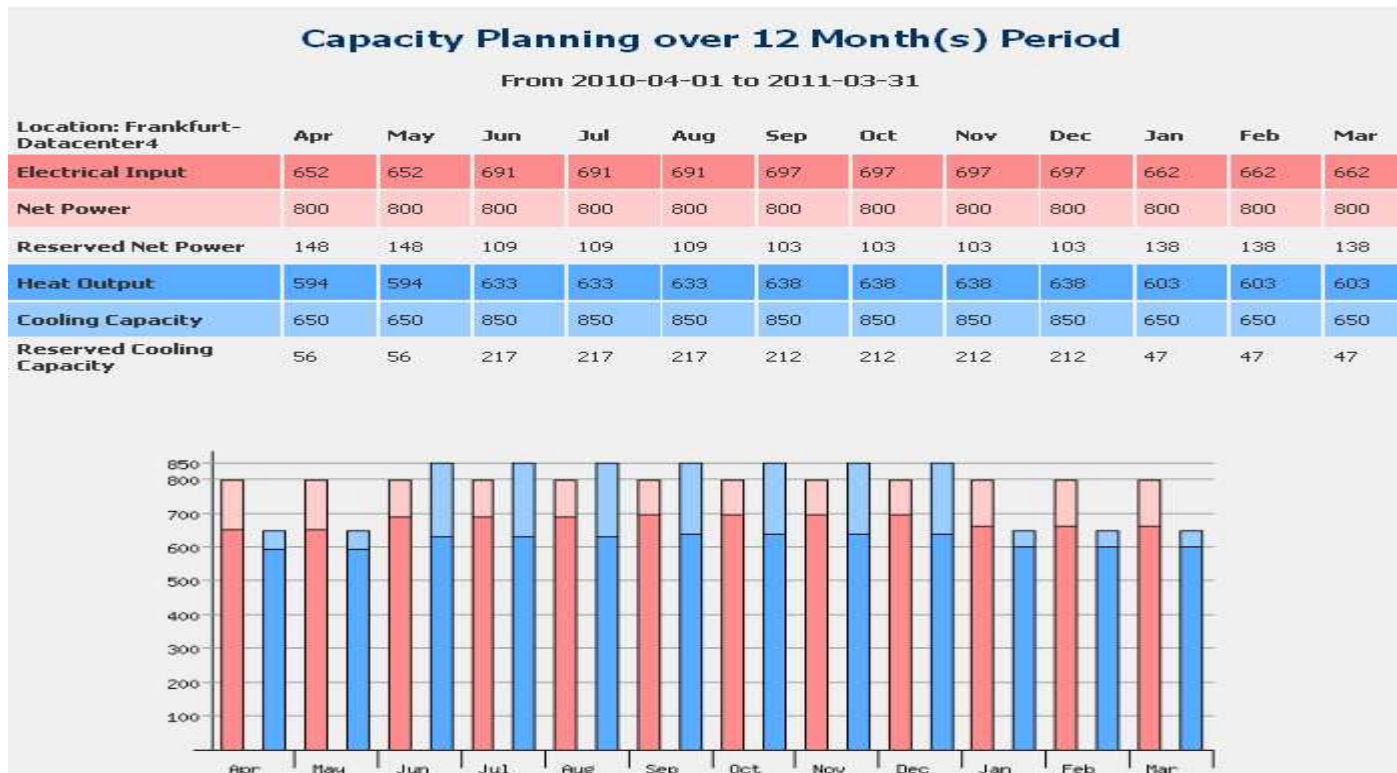
The screenshot displays the Speedikon FM interface for Data Center ASSET Management. The main area shows a grid-based floor plan of a data center with sections labeled 'Storage', 'Network', 'Server', and 'USV'. Various server racks are represented by colored rectangles, some of which are highlighted in red. A search window is overlaid on the interface, showing search criteria for 'Manufacturer' set to 'IBM'. A 'Graphic Report' window is also visible, showing a detailed view of the server racks with a vertical scale from 1 to 40. The report shows two racks: 'Speicher: 15' and 'Speicher: 16'. The 'Add' button in the search window is circled in orange.

Graphic Report

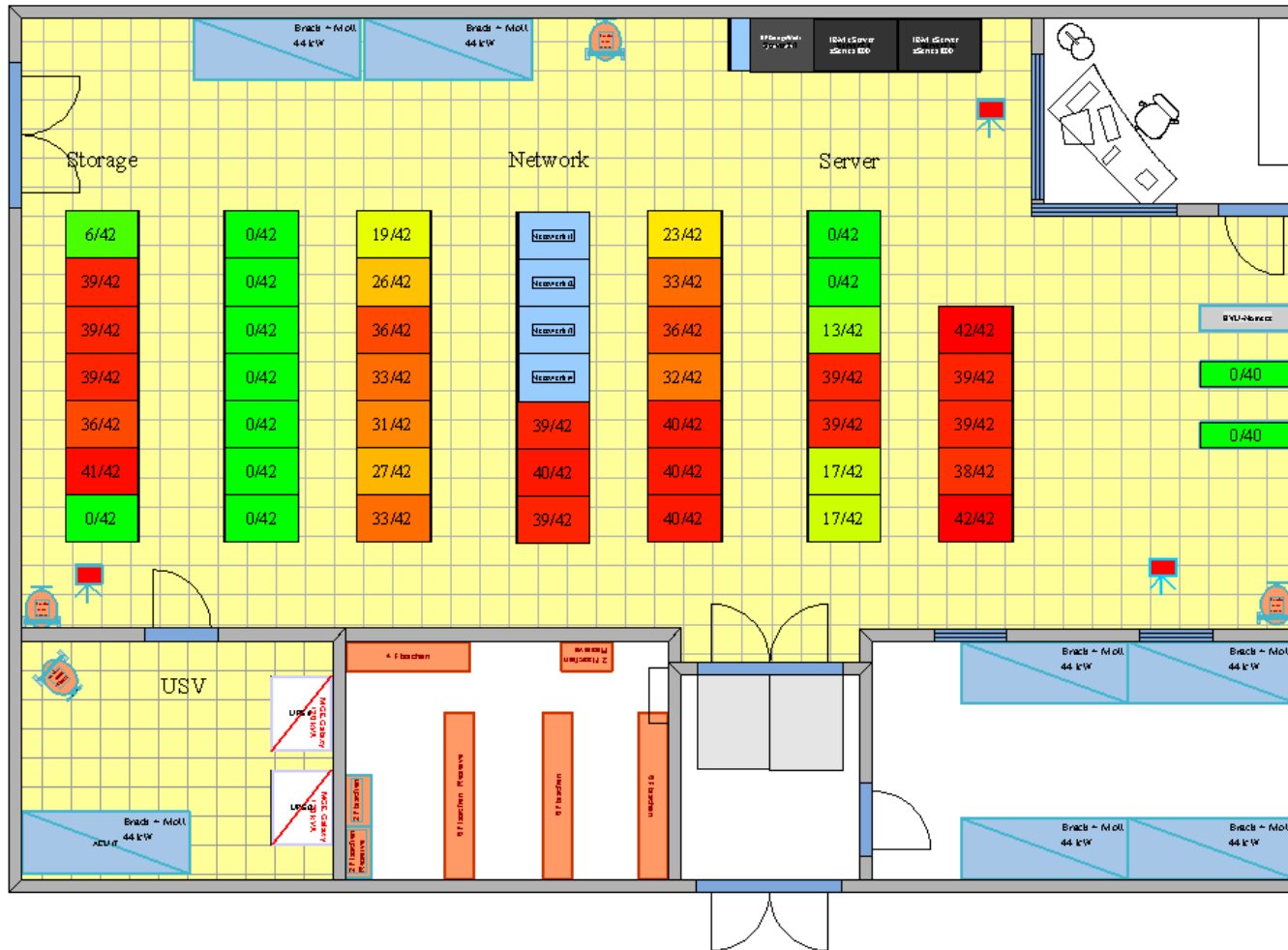
- Colouring of objects according to optional criteria

Capacity planning

available as of June, 1st, 2010

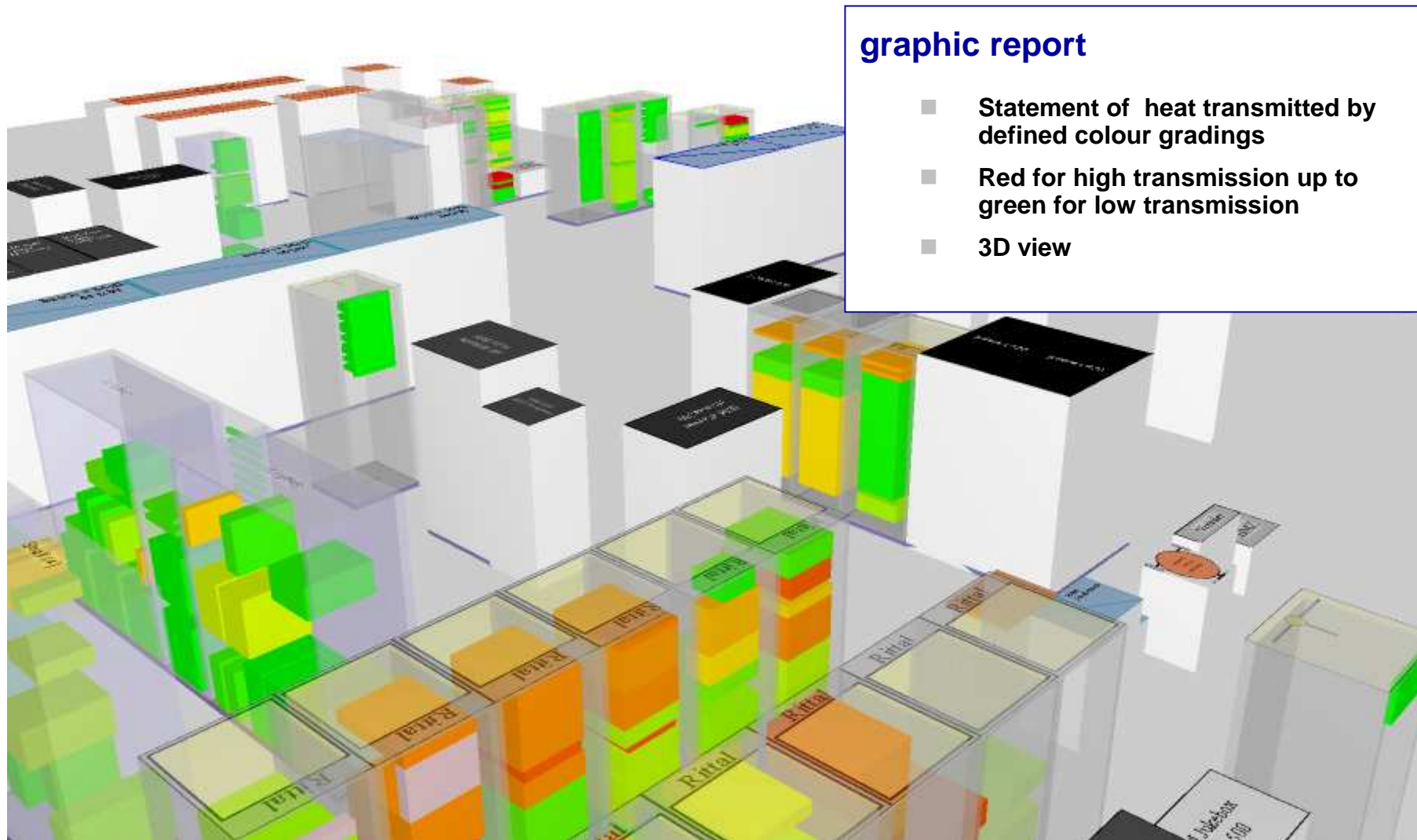


2D visualization of parameters such as height units, electrical input...





Graphic evaluation heat transmission



Barcodescanning for inventory and information queries in the DC

The image shows a mobile device interface for barcode scanning and data entry. The device screen displays an 'Info page' with a barcode field containing '123456' and an 'OK' button. Below the barcode field, there are input fields for 'serialnr' (123456), 'info' (hello), 'changedby' (admin), and 'changedon' (2017-05-21). The device is overlaid on a Microsoft Excel spreadsheet titled 'stocktaking.xls' and a Microsoft Internet Explorer window showing a 'Configure attributes' dialog box.

	A	B
1	55578456	Standalone
2	GB8547R846	OK
3	75-GB130	Moved (destination)
4	5H44443001175F	OK
5	RJ32928-NN	New
6	RJ32928	Missing
7	SHU4444300112E99	Moved (source)
8	55578457	Standalone
9	75-GA177	OK
10	13k2309	OK
11	13G9771	OK
12	SHU4444300112E99	Moved (destination)
13	SG32000029	OK
14	13k2311	OK
15	13k2310	OK
16	SG44610109	OK
17	55578458	Standalone
18	75-FW993	OK
19	75-FV032	OK
20	75-EG977-NN	New
21	75-DJ763	OK
22	75-DY314	OK
23	75-EG977	Missing
24	75-GB130	Moved (source)
25		
26		
27		

Microsoft Internet Explorer - Configure attributes

Previous config: default

Config name: default

serialnr
equinr
status
equitype
manufacturer
model
id

Remove
Up
Down
Add attribute
Done

***speedikon*[®] DAMS: cable documentation**

- **Documentation of the cable connection**
- **Attribution cable – port**
- **Definition of virtual connections**
- **Integration of Patchpanels**
- **Calculation of cable length**
- **Plausibility check on connections**
- **Visualization of ports**
- **Graphical visualization of equipment connected**
- **Different lists and reports / evaluations**

File-tabs and graphical representation

Object properties (extended) - Microsoft Internet Explorer

General LPAR Network Commercials Infrastructure

Location: Bensheim-Berliner Ring 89-Server-11-18 Equitype: Server

Network interface: All modules

Panel/Module	Bus	Slot	Port	Log. name	Name	Connector	Cable
M1	XZ	1	1	N4		RJ45	L0006 (1)
M1	XZ	1	2	N4		RJ45	K001 (2)
M1	XZ	1	4	N4		RJ45	KN001 (1)
M1	XZ	1	5	N4		RJ45	[Connect]
M1	XZ	1	6	N4		RJ45	[Connect]
M2	TR\$E	1	1	M55		RJ45	[Connect]
M2	TR\$E	1	2	M55		RJ45	[Connect]
M2	TR\$E	1	3	M55		RJ45	[Connect]
M2	TR\$E	1	4	M55		RJ45	[Connect]
M2	TR\$E	1	5	M55		RJ45	[Connect]
M2	TR\$E	1	6	M55		RJ45	[Connect]

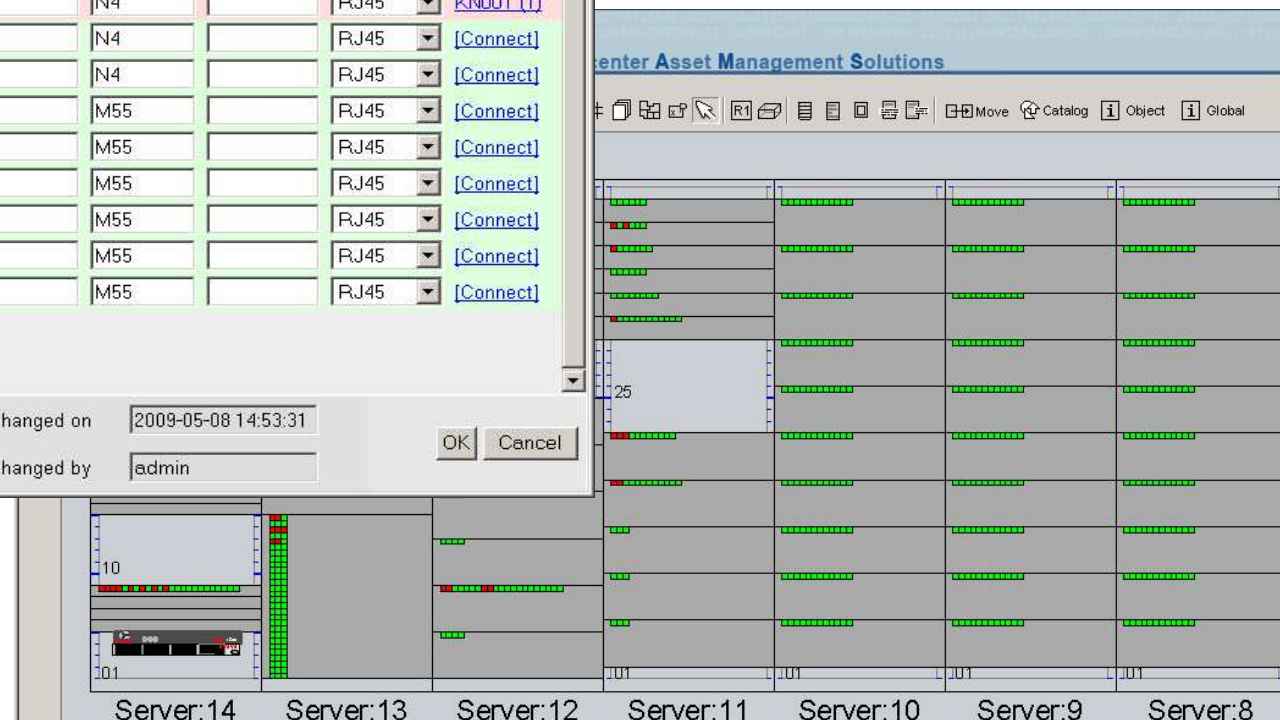
Clone last row: times

created on: 2005-11-14 16:37:12 changed on: 2009-05-08 14:53:31

created by: admin changed by: admin

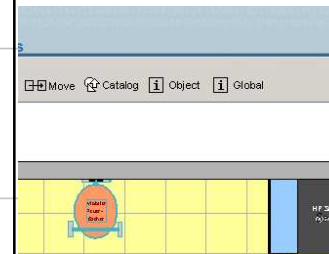
OK Cancel

- attribution of cables to the several ports
- visualization of the ports

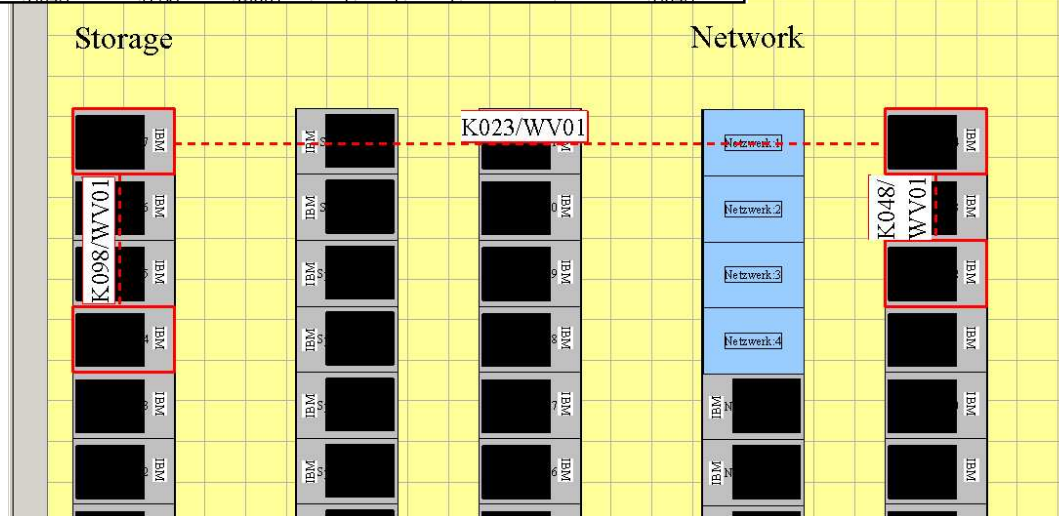


Visualization of cables and virtual cable connections

Cable	Virtual	Panel/ Logical							Panel/ Logical									
		Location	Modul	Bus	Slot	Port	name	Name	Connector	Location	Module	Bus	Slot	Port	name	Name	Connector	
KN001	WV01	Bensheim	M1	XZ	1	4	N4		RJ45	Bensheim-Berliner-Server-14-8	PAMOD		1	2	Kupfer1		1	RJ45
L0006	WV01	Bensheim	M1	XZ	1	1	N4		RJ45	Bensheim-Berliner-Server-14-8	PAMOD		1	1	Kupfer1		1	RJ45
L0007	WV01	Bensheim							RJ45	Bensheim-Berliner-Speicher-6-36	Mod1		1	1			1	RJ45



- Lists and reports
- Graphical reports



***speedikon*[®] DAMS – our Services**

- **Project conception**
- ***speedikon*[®] DAMS software**
- **Individual software adaptation**
- **Project management**
- **Implementation**
- **Installation and support to get operational**
- **Training of users**
- **Regular updates including catalogues**

Hardware and software prerequisites

	Prerequisites Hardware	Prerequisites Software
Server	<p>Processor > 2,0 GHz Memory > 1 GB Hard Drive > 20 GB</p>	<p>Windows 2003 Server Linux upon request As of DB2 9.2, Oracle 9i / 10g, Apache Webserver PHP (as of version 4.3) DB2 9.1 Express Oracle as of 9i</p>
Client	<p>Memory > 512 MB free disk space Processor > 2,5 GHz</p>	<p>Internet Explorer (as of version 5.5) Mozilla Firefox as of version 3 JDK (as of version 1.4) Screen resolution as of 1024x768</p>

Your contact

**In case of questions and/or request for
additional information please contact:**

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