

Systemsolution - Project - Realisation - Training

Productdescription Version 4.2

KMS Quattro



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The scenario

Communication in business is increasingly gaining in importance as a strategic factor in competition. Constant changes in technology and the thereby accompanying extension and re-organisation of communication infrastructure is a challenge for the business. Full cable channels, dead lines, insufficient documentation are signs that these sources are badly utilised.

If only those responsible for the normally overloaded network had everything under control! The consequences are high costs, expensive fault tracing, and, over and above everything else, reduced productivity.

The solution

KMS *Quattro* is a management communication system which supports the permanent documentation and administration of communication networks. The relevant communication infrastructure control processes can be automated with KMS *Quattro* and completely integrated in the structuring of operations of the appropriate technical offices. KMS *Quattro* is a dialogue-orientated program system with graphic user interface for managing any cabling in computer processing and in the fields of signalling and telecommunication.














With the version 3.5 a significant contribution to the lowering of the total expenses (TCO was able: Totally Cost of Ownership) in the area of Cable management are reached. The relevant data can be worked on by the logical removal of the functional extent of KMS *Quattro*, easier, be planned and be administered.

The newest version 4.2 of the application has a redesigned interactive interface (Tomcat server) to the active network components. Further it was continuously developed under inclusion of our customers KMS *Quattro* and was improved.

KMS *Quattro* as an aid

KMS *Quattro* supports those responsible for the network in planning, installing and maintaining your communication networks. KMS *Quattro* administers and documents the heterogeneous networks on the physical level in finest definition on single wire level. KMS *Quattro* supports the implementation of building wiring technologies independent of networks and allows the administration of universal wiring and distribution topologies

Performance characteristics

-  Client-efficient administration and management of network surroundings of different sizes;
-  Physical portrayal of different network topologies (bus, ring, star and tree wiring);
Comprehensive management of :
 - passive and active network nodes (components);
 - transmission media (Cu and light wave guide cable);
 - telecommunication and computer terminal units ;
 - organisation and geographic structures, persons;
-  Component list, e g :
 - R&M distribution systems and components and others;
-  Configuration aid for network objects:
 - T+T distributors, LAN distributor cabinets, subscriber service installations.
-  Installation of new network objects:
 - the new objects to be installed can be entered system-guided according to the rules;
-  Optimal operation of the communication networks:
 - detailed knowledge at contact level of all network
 - objects used, enables better use to full capacity and
 - optimal operation
-  Reduction in the flood of paper and forms by:
 - system-guided planning and task processing
 - permanently traced documentation
 - updated shunting index
-  All data is automatically updated to include the latest amendments;
-  "On the press of a button" the information required on the current status of the network installation is available;
 - path display of lines for the complete network
-  The shortest and most optimal line paths are automatically determined by the system (as little shunting as possible);
-  Processing times are shortened by:
 - reduction in the frequency of faults and / or maintenance;
 - software-supported fault clearance;
-  Quick and certain planning and installation of modifications;
-  Password-protected user access to the KMS *Quattro* databanks ;



Identification concept

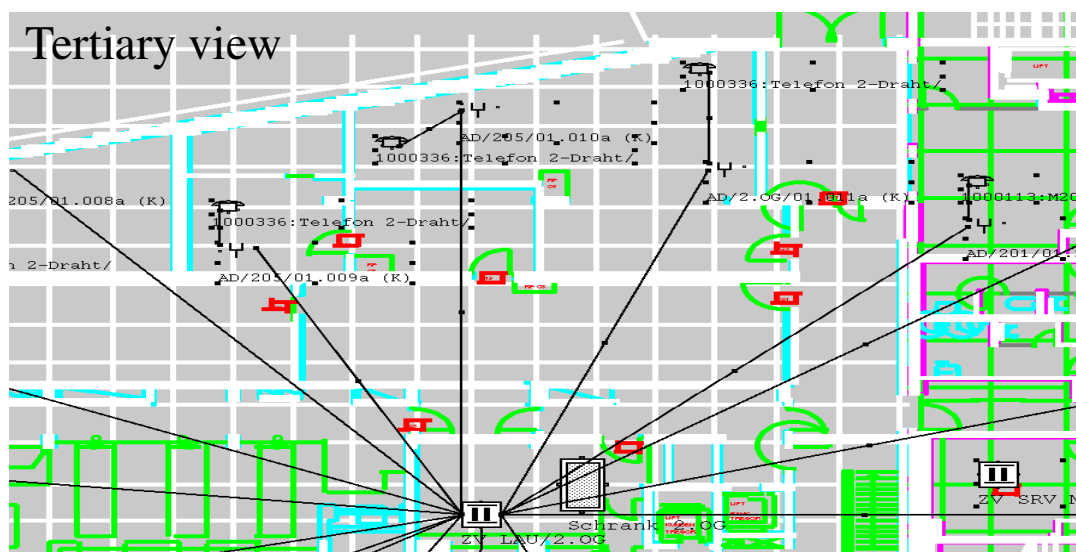
- Automatic maintenance of redundant component descriptions

Customer benefit

- ☐ KMS *Quattro* assists you in using resources and infrastructure better because these can at last be comprehensively documented and administered.
- ☐ KMS *Quattro* increases your efficiency, flexibility and productivity.
- ☐ KMS *Quattro* enables speedy adjustment to the internal structures of the business.
- ☐ KMS *Quattro* provides long-lasting reductions in costs of network administration.
- ☐ KMS *Quattro* enables infrastructure costs to be precisely allocated to individual cost centres or cost units.
- ☐ KMS *Quattro* enables existing and future technologies and systems to be integrated.
- ☐ KMS *Quattro* increases operating certainty with facilities for fast and simplified fault tracing.

Computer networks with hundreds of stations are dynamic systems. Offices are wired, new computers installed and existing connections are re-fitted for Next-Generation-Network (NGN). Accordingly, the terminal sockets are consistently re-wired and the distribution cabinets are adapted. It is now up to the cable management system, whether the network is on the ball or not. The reconstruction of all amendments can be an expensive matter where documentation is missing or incomplete.

Picture Tertiary view



Thanks to automatic plausibility testing, all planning work is tested for consistency with the help of defined rules and methods. KMS *Quattro* gives a warning when planning errors arise (on making a plugged connection, for example, not only plug compatibility but also protocol suitability is tested).

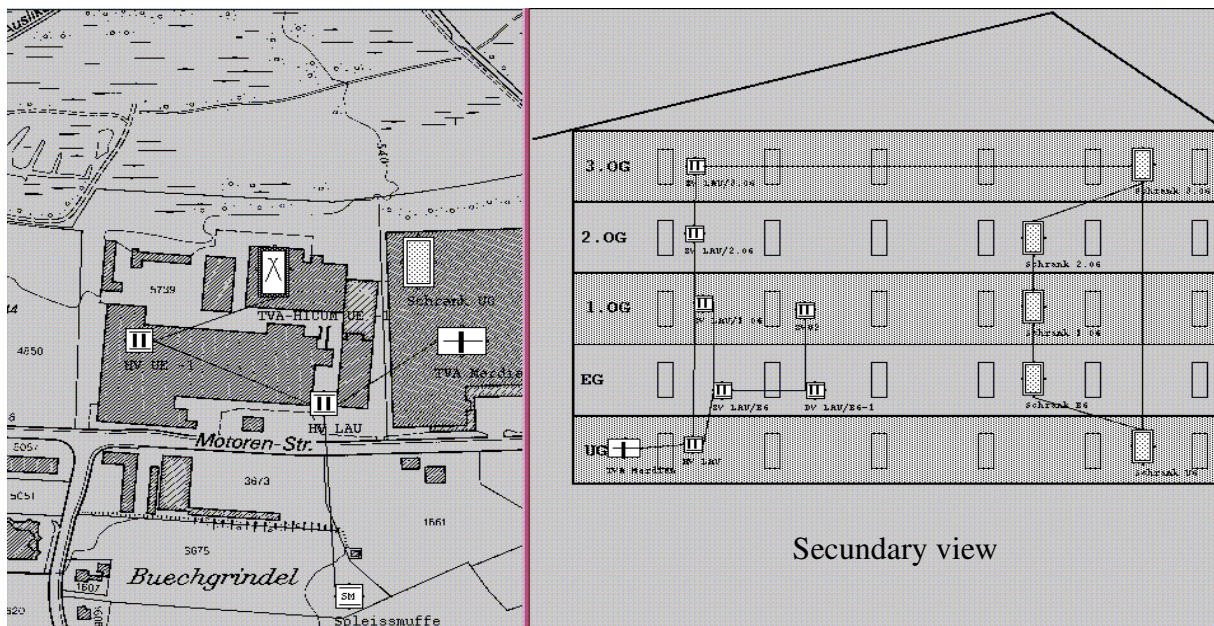
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KMS *Quattro* benefits the planner and the installer. These are the best conditions for operating local networks reliably, efficiently and price-effectively.

KMS *Quattro* knows the complete network

No matter whether the network covers one or more buildings, KMS *Quattro* stores each individual connection, from cables between buildings, through lines to the floor distributors, and down to the individual connecting sockets at work desks. Thus exact path tracing of every connection is guaranteed at all times.

Picture Views



KMS *Quattro* indicates the right path for every cable

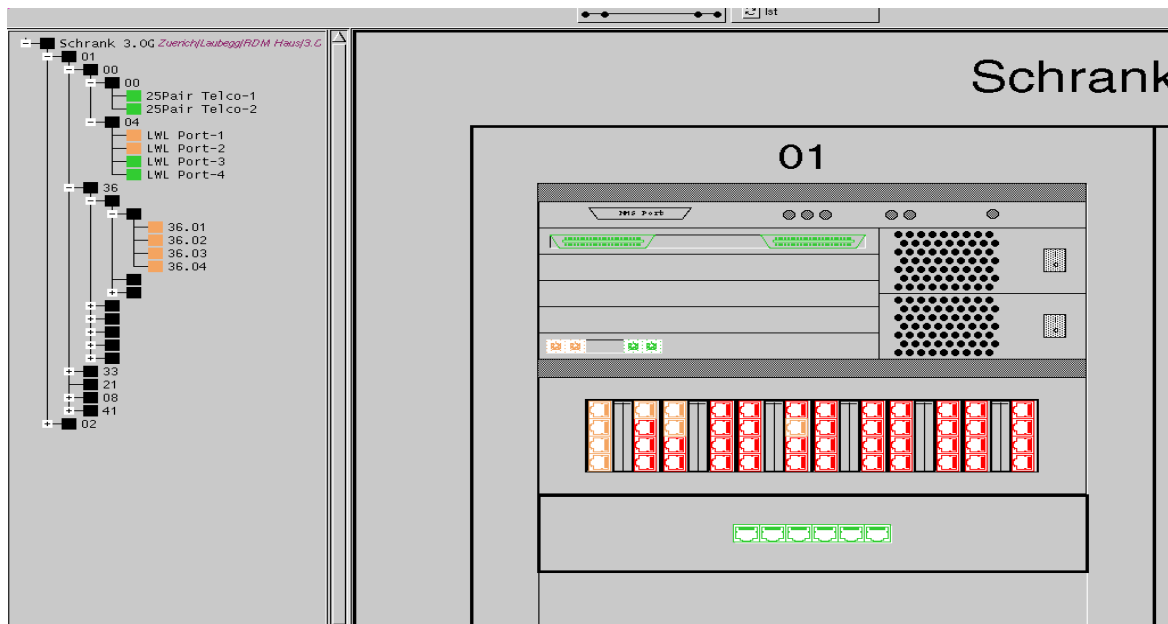
KMS *Quattro* automatically shows the correct path for every connection for a new terminal unit. Simply select the start and finish of the new connection and KMS *Quattro* allocates the right cable and all necessary shunting in the distributor. There is no protracted search for a cable and installation mistakes are excluded, right from the start.

KMS *Quattro* stays on the trail of every connection

Better safe than sorry! KMS *Quattro* stores all unit connections with their specifications and shunting. Because of this, the cable connections can be simply traced through the complete network on the screen. Planned connections can be reserved in advance and intended installations can be tested for plausibility.

KMS *Quattro* knows all distributors.

The KMS *Quattro* distributor sheet shows the connections and shunting for all junctions. The program makes available on the screen at any time, the necessary technical details for each connection for those responsible for the network or an engineer.



Cut of a 19" distributor

KMS *Quattro* provides shunting orders in black and white.

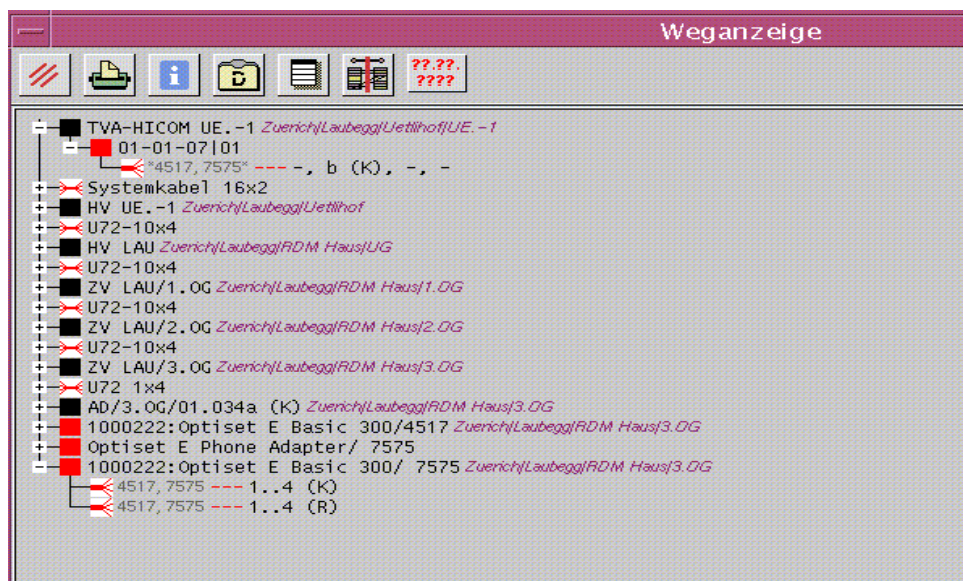
KMS *Quattro* makes the optimal connection for every new connection and also at the same time provides the shunting orders in writing. These orders contain all the details required for the set up, from the terminal unit, through the allocated cable connection and down to the necessary shunting in the distribution station, and that in black and white, so that all misunderstanding is excluded from the very start.

KMS *Quattro* is on the right path

Whoever peers inside a cable duct knows how important cable management really is. For this reason, KMS *Quattro* manages all network cables. It takes account of all mediums: copper wires, coaxial cables, light wave guide cables. The necessary details can be included: type of cable, order number, attenuation, number of cable leads etc. The use of every cable in the network is documented exactly.

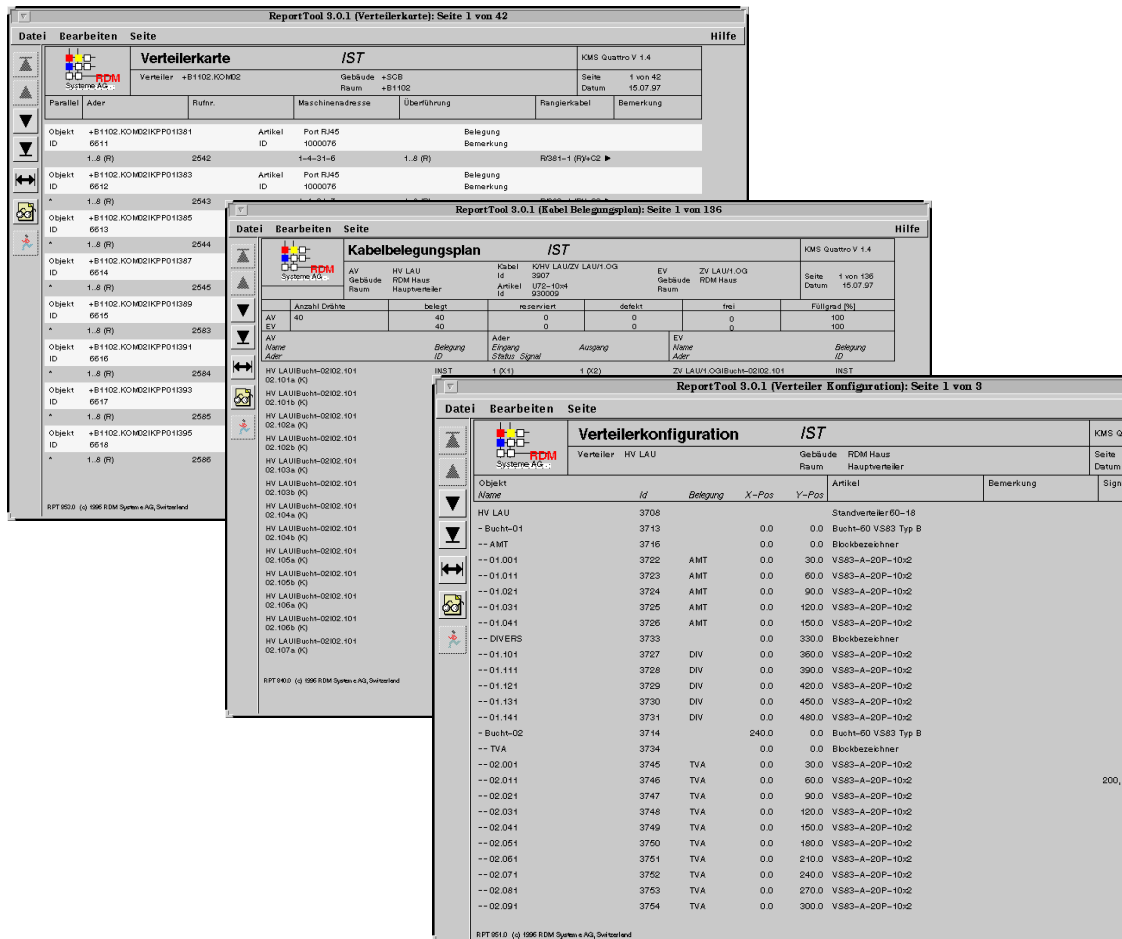
KMS *Quattro* knows what is connected to each cable

KMS *Quattro* manages all terminal units (PC, workstations, telephones, printers, modems etc.) with the type of unit, specification, date of installation and location. In this way you receive a complete inventory of your network peripheral devices at the press of a button.



KMS *Quattro* keeps written records

What KMS *Quattro* so comfortably shows on screen, is also available in black and white: print outs of lists, work sheets, line paths, distributor inscriptions, distributor wiring, installation documentation etc. That really is system management at its best.



The image displays three overlapping screenshots of the KMS *Quattro* software interface, demonstrating its capabilities in system management and documentation.

Top Screenshot: Verteilerkarte (Distributor Card)
 Title: ReportTool 3.0.1 (Verteilerkarte): Seite 1 von 42
 This view shows a detailed card for a distributor. It includes fields for Objekt ID, Artikel ID, Port, and Belegung. A table lists objects with their IDs and associated data.

Middle Screenshot: Kabelbelegungsplan (Cable Assignment Plan)
 Title: ReportTool 3.0.1 (Kabel Belegungsplan): Seite 1 von 136
 This view displays a table for cable assignment, showing columns for AV, EV, and various signal types. It includes a summary table at the top and a detailed list of assignments below.

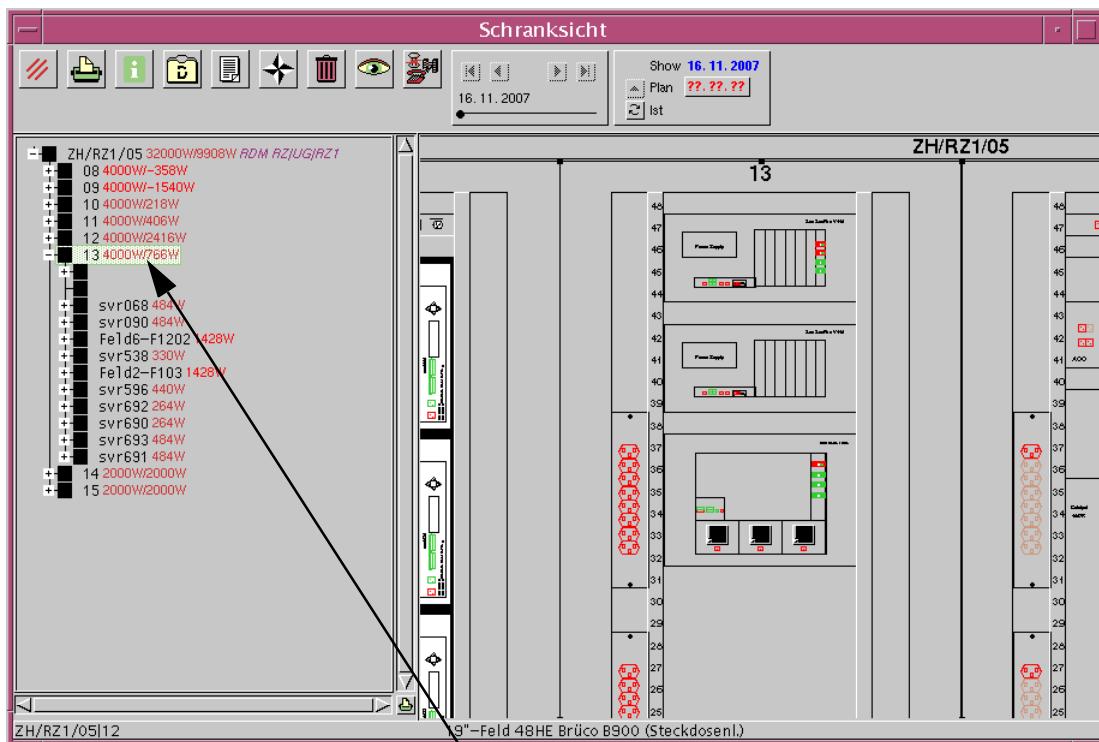
Bottom Screenshot: Verteilerkonfiguration (Distributor Configuration)
 Title: ReportTool 3.0.1 (Verteiler Konfiguration): Seite 1 von 3
 This view shows a detailed configuration table for the distributor. It includes columns for Objekt Name, Id, Belegung, X-Pos, Y-Pos, and Artikel. The table lists various components and their configurations.

Do you control your computer center?

KMS *Quattro* knows the thermal power in 19" distributors

KMS *Quattro* supervises the thermal power of the computer center 19" distributors. With start of new objects (Switch, server, modem etc.) checks KMS *Quattro* the still available power. Only objects can be used therefore up to the reaching of the maximum thermal power of 19" distributors.

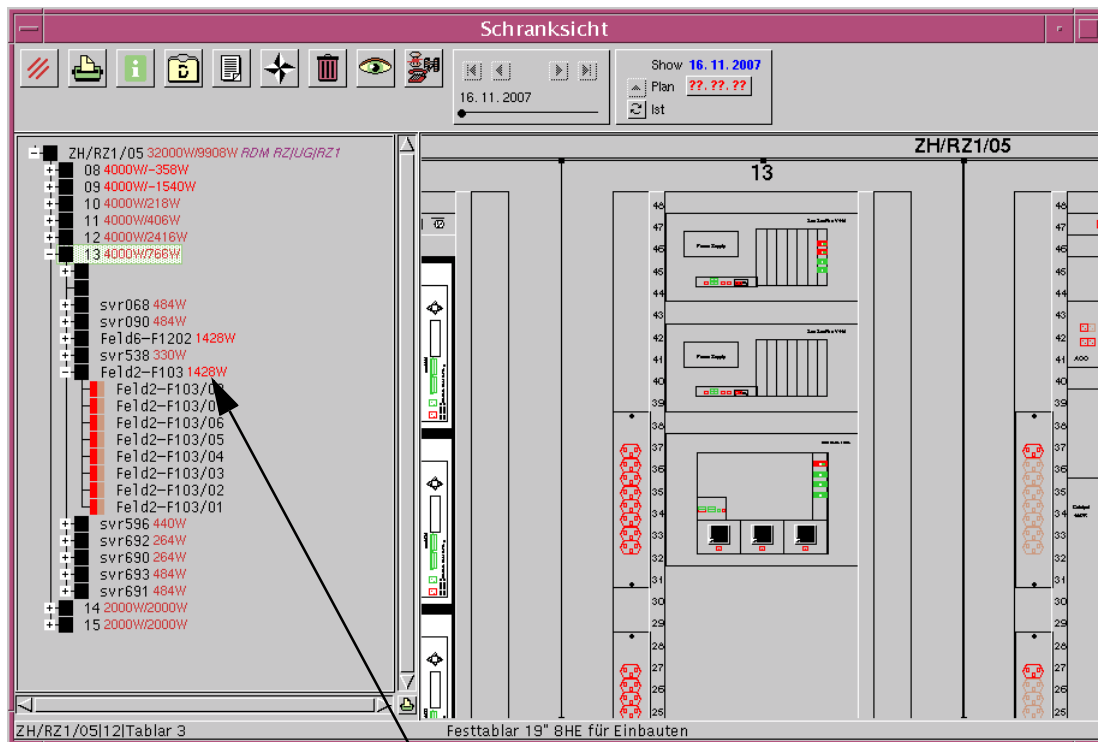
With cross of the value, KMS *Quattro* automatically suggests other 19" distributors in which still enough thermal power exists. As a proposal KMS *Quattro* offers 19" distributors in the same row or in the same geoarea.



It are available in these 19" distributor still 766 watts (BTU) of thermal power.

KMS *Quattro* knows the electric power in 19" distributors

KMS *Quattro* supervises the electric power of the UPS connections. While connecting the power Supplies, KMS *Quattro* checks the still available electric power in watt and lets the user KMS *Quattro* only up to a defined value connect active components.



It are available in these outlet strips still
1'428 watts electric power.

At the touch of a button you receive all computer center to specific information

Which Switch is connected to which UPS, or are everything cabled the power supplies redundant? How many active components can be still used in 19" distributors on account of the momentary thermal power? At the touch of a button you receive all important data in a report processed.

ReportTool 4.1 (Leistung Schrank + Sicherung) Seite 1 von 1

Datei	Bearbeiten	Zoom	Seite	Hilfe					
				Leistung Schrank + Sicherung <i>IST</i>				KMS Quattro V 4.0	
								Seite	1 von 1
								Datum	16.11.2007
Objekt ID	Objekt	Gebäude (Ramm)	Soll [W]	Verfügbar [W]	Sicherung	Soll [W]	Auslastung [%]	Auslastung hier [%/W]	
87467	ZH/RZ1/05 09	RDM RZ UG RZ1	4000	-1540	Feld3-F406 2990 82,27 82,27/1230 Feld3-F405 2990 82,27 82,27/1230 Feld2-F207 2990 37,12 29,43/440 Feld2-F240 2990 42,68 7,36/110 Feld6-F1241 2990 65,75 7,36/110 Feld6-F1206 2990 29,43 29,43/440				
87464	ZH/RZ1/05 08	RDM RZ UG RZ1	4000	-358	Feld2-F207 2990 37,12 7,69/115 Feld2-F208 2990 145,75 145,75/2179 Feld6-F1207 2990 138,06 138,06/2064				
85213	ZH/RZ1/05 10	RDM RZ UG RZ1	4000	218	Feld7-F1403 2990 54,45 54,45/814 Feld7-F1402 2990 58,80 58,80/879 Feld2-F206 2990 58,80 58,80/879 Feld6-F1205 2990 80,94 80,94/1210				
185079	ZH/RZ1/05 11	RDM RZ UG RZ1	4000	406	Feld2-F240 2990 42,68 35,32/528 Feld2-F241 2990 123,61 123,61/1848 Feld6-F1241 2990 65,75 58,38/873 Feld6-F1240 2990 23,08 23,08/345				
185085	ZH/RZ1/05 13	RDM RZ UG RZ1	4000	766	Feld6-F1202 2990 104,48 104,48/1562 Feld2-F111 2990 7,36 7,36/110 Feld2-F103 2990 104,48 104,48/1562				
185082	ZH/RZ1/05 12	RDM RZ UG RZ1	4000	2416	Feld6-F1112 2990 52,98 52,98/792 Feld2-F242 2990 52,98 52,98/792				
85225	ZH/RZ1/05 14	RDM RZ UG RZ1	2000	2000					
164778	ZH/RZ1/05 15	RDM RZ UG RZ1	2000	2000					

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ReportTool 4.1 (Leistung Sicherung) Seite 1 von 1

Datei	Bearbeiten	Zoom	Seite	Hilfe					
				Leistung Sicherung <i>IST</i>				KMS Quattro V 4.0	
								Seite	1 von 1
								Datum	16.11.2007
Objekt	Artikel	Leistung [W] MAX./Verfüg	Gebäude (Ramm)	Angeschlossene Objekte	Bemerkung	Artikel	Leistung [W]		
Fz.1d3-F406	Sicherungselement 13A 2990/1760	RDM RZ UG RZ1	svr893	arut01	SunFire V490 2xPSU -x	483			
			svr905	glssv6	SunFire V490 2xPSU -x	483			
			svr687	mrCTSP-UNI	SunFire V240 2xPSU -x	132			
			svr688	mrCTSP-SLG	SunFire V240 2xPSU -x	132			
Fz.1d3-F405	Sicherungselement 13A 2990/1760	RDM RZ UG RZ1	svr905	glssv6	SunFire V490 2xPSU -x	483			
			svr893	arut01	SunFire V490 2xPSU -x	483			
			svr687	mrCTSP-UNI	SunFire V240 2xPSU -x	132			
			svr688	mrCTSP-SLG	SunFire V240 2xPSU -x	132			
Fz.1d6-F1241	Sicherungselement 13A 2990/2007	RDM RZ UG RZ1	svr572	hsrARBORtria	Arbor Server Peakflow 2HE -x	110			
			svr756	motiverep3	HP ProLiant DL360 G3 2xP ▶	115			
			svr701	motiverep2	HP ProLiant DL360 G3 2xP ▶	115			
			svr700	motiverep1	HP ProLiant DL360 G3 2xP ▶	115			
			svr729	mtvpdb1	SunFire V240 2xPSU -x	132			
			svr728	mtvpfe2	SunFire V210 -x	396			
Fz.1d2-F240	Sicherungselement 13A 2990/2352	RDM RZ UG RZ1	svr572	hsrARBORtria	Arbor Server Peakflow 2HE -x	110			
			svr696	mtvpdb1	SunFire V240 2xPSU -x	132			
			svr697	mtvafe1	SunFire V240 2xPSU -x	132			
			svr696	mtvscnt1	SunFire V240 2xPSU -x	132			
			svr687	mtvd1	SunFire V240 2xPSU -x	132			
Fz.1d2-F207	Sicherungselement 13A 2990/2435	RDM RZ UG RZ1	svr654	hsrMfRG7E	HP ProLiant DL360 G4 2xP ▶	115			
			svr609	mrCTSP-IFE	SunFire V240 2xPSU -x	132			
			svr174	yIDS-EP20	DELL PowerEdge 2650 2xP ▶	88			
			svr173	yIDS-EP10	DELL PowerEdge 2650 2xP ▶	88			
			svr650	hsrNETCOOL17	SunFire V240 2xPSU -x	132			
Fz.1d6-F1310	Sicherungselement 13A 2990/2590	RDM RZ UG RZ1	rtb072	rtrOtelRZ3	Catalyst 4507R Chassis -x	200			
			rtb072	rtrOtelRZ3	Catalyst 4507R Chassis -x	200			

More optimally and news overlook of the resources in the computer center. Active support with start and extend of the infrastructures by KMS *Quattro*. The stream extent of utilisation of the UPS is checked to avoid possible stream failures.

By the information of the thermal power, the heat exchangers can be better optimised which affect positively in the power demand.

By planning, orders and statistics predictions bottlenecks reveal themselves so early.





By interfaces (SNMP) to leading system - MGMT. To systems additional relevant information can be questioned.

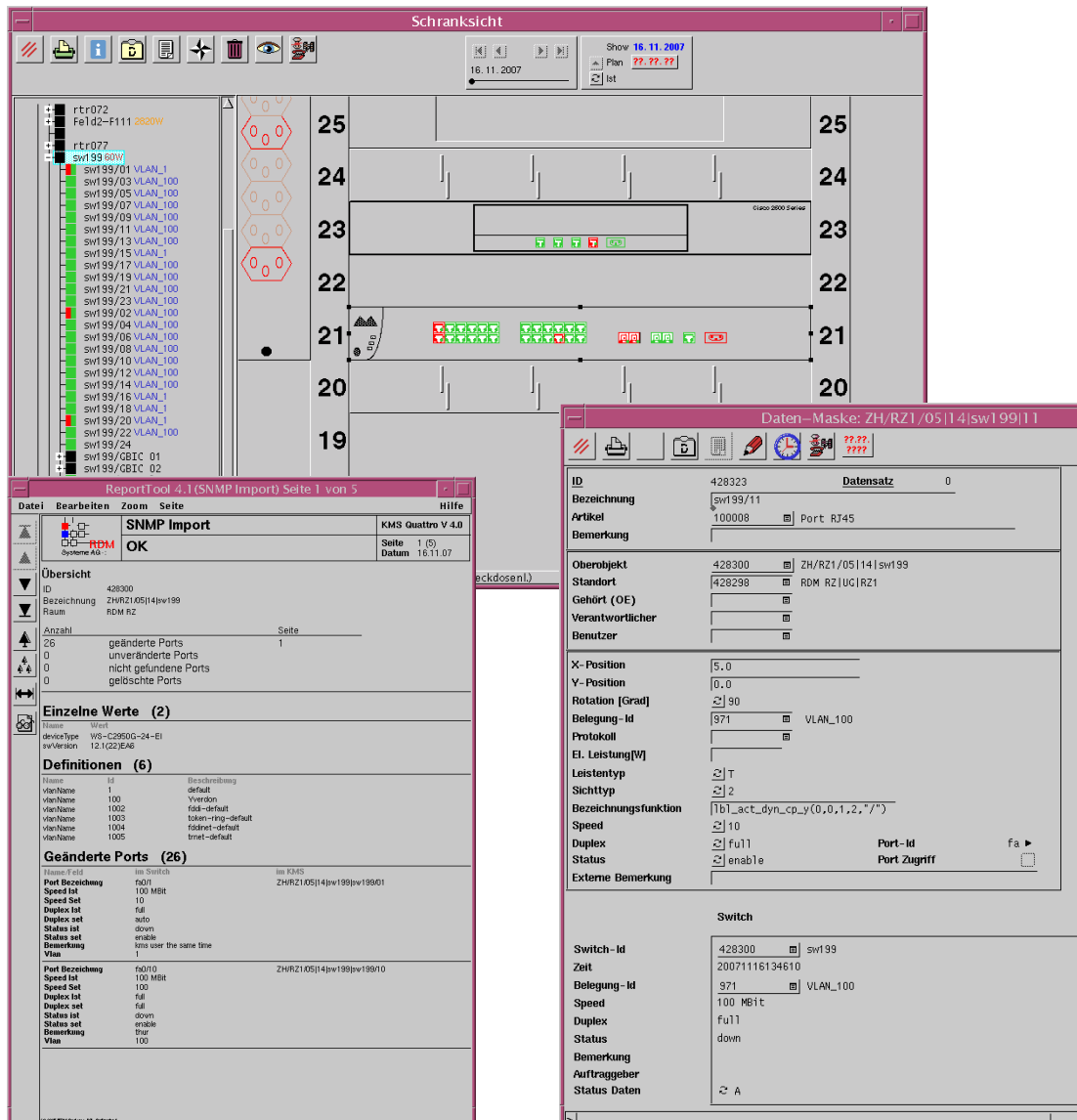
Interactive interface SNMP to active network components

Every grasped switch port in KMS *Quattro* can be balanced about a tomcat - server with the Switch accordingly.

The following information can be exchanged:

VLAN (ID and Description)

-  Speed (10, 100, 1000 oder Auto)
-  Duplex - Status (Full Duplex, Half Duplex or Auto)
-  Port - Status (Enable or Disable)
-  Remark



The screenshot displays the KMS *Quattro* V 4.0 interface. The main window shows a network diagram with a central switch (sw199) and various ports. A report window (ReportTool 4.1(SNMP Import) Seite 1 von 5) is open, showing a table of ports and their status. A data mask window (Daten-Maske: ZH/RZ1/05114/sw199/11) is also open, showing details for a specific port (428323) and its configuration.

ReportTool 4.1(SNMP Import) Seite 1 von 5

ID	Bezeichnung	Artikel	Bemerkung
428300	ZHR21.05114jw199	100008	Port RJ45

Einzelne Werte (2)

deviceType	WS-C2950G-24-E
svVersion	12.1(22)EA6

Definitionen (6)

Name	Id	Beschreibung
vlanName	1	default
vlanName	100	Version
vlanName	1002	fsd - default
vlanName	1003	fsd - ring - default
vlanName	1004	fsdnet - default
vlanName	1005	fsdnet - default

Geänderte Ports (26)

Name	Id	Im Switch	Im KMS
Port Bezeichnung	fsd01	100 Mbit	ZHR21.05114jw199jw19901
Speed Ist	10	100 Mbit	
Duplex Ist	full	100 Mbit	
Duplex set	auto	100 Mbit	
Status Ist	down	100 Mbit	
Status set	enable	100 Mbit	
Bemerkung	1	100 Mbit	
Vlan	1	100 Mbit	

Daten-Maske: ZH/RZ1/05114/sw199/11

ID	Bezeichnung	Artikel	Bemerkung
428323	sw199/11	100008	Port RJ45

Geänderte Ports (26)

Name	Id	Im Switch	Im KMS
Port Bezeichnung	fsd01	100 Mbit	ZHR21.05114jw199jw19901
Speed Ist	10	100 Mbit	
Duplex Ist	full	100 Mbit	
Duplex set	auto	100 Mbit	
Status Ist	down	100 Mbit	
Status set	enable	100 Mbit	
Bemerkung	1	100 Mbit	
Vlan	1	100 Mbit	

The economic side of KMS *Quattro*

Whoever wants to be successful, has to create the conditions necessary for it. For this reason, considerable sums are today invested in communication technology. After all, a problem-free flow of information is a basic prerequisite for business success. KMS *Quattro* is particularly worthwhile for all businesses which constantly have to react to changing market situations.

KMS *Quattro* guaranties that each employee can carry on his work in the shortest of time, even after changing workplace. With KMS *Quattro*, a strategy of openness to other applications is possible.

Comprehensive services and user support

Software is one thing, the solution is all-embracing. KMS *Quattro* is distributed by licensed suppliers who can support you on installing and operating with wide-ranging services .

- ✓ Training and installation
- ✓ Recording basic data
- ✓ After-sales service
- ✓ Hotline (solving problems and fault finding by telephone or e-mail)
- ✓ Electronic service (solving problems and fault finding via remote access on the customer server)
- ✓ On the spot support (support at the customer s premises)

KMS References

KMS *Quattro*

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