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FUJITSU COMPUTERS SIEMENS

New Version 7.0
PC- and SystemArchitect
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Content	Tool Changes
Use	External/ Internal Use only
Pages	11

Overview of the new functions / Useful for the user

- **Implementation of support function for PRIMEQUEST-Systems**
  Configuration of the latest systems
- **Support function of the MINI-Cabinet for SunFire T2000-Systems**
  Configuration of the latest systems
- **Integration of a disclaimer of liability**
  Clear and obligatory statements for the data within the configuration tool and the created configurations

Implementation of support function for PRIMEQUEST-Systems

Preface

The screenshots shown in the following pages were created with the help of a test database which was created exclusively for testing the new functions. Therefore the shown product designations are not finally and only dummies. In this documentation only the new functions within the System Architect are described, but not the detailed functions and characteristics of the PRIMEQUEST-Systems (PQ). These are filed in both the data sheets and the product descriptions. These documents should be always used if any questions should arise during configuration of a PQ system.

Introduction

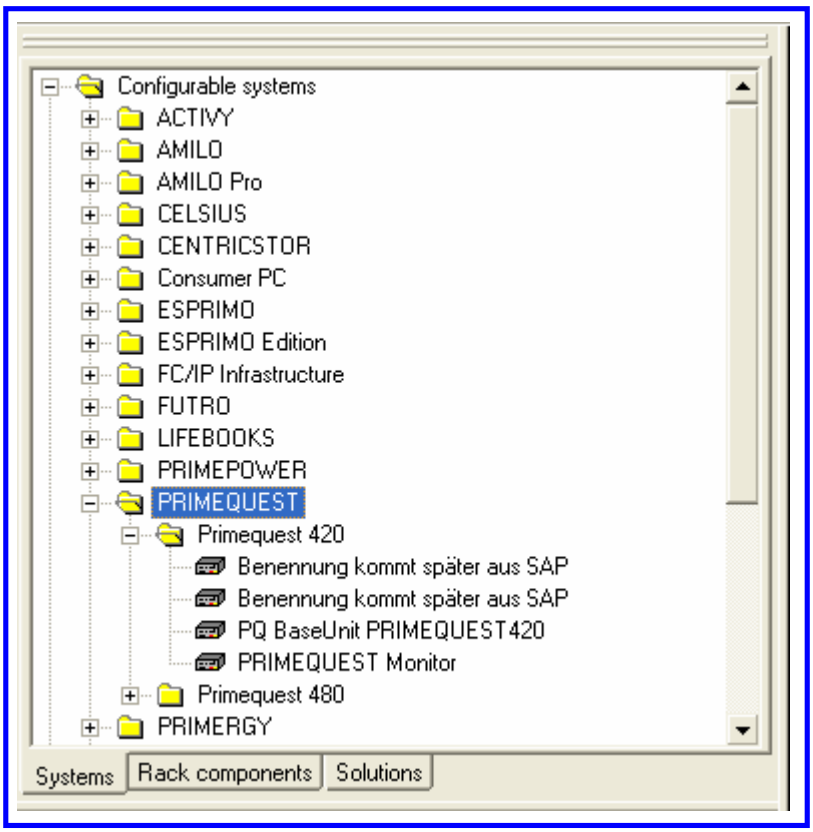
With the new version of the System Architect (SA) the configuration is now possible for PRIMEQUEST systems. The launch of these systems is planned for February 2006. As these systems are also partitionable base units, the substantial changes in the partition view were done. PRIMEQUEST Systems are offered as rack plug-ins (analogue PRIMEPOWER 900) or as cabinet systems (analogue PRIMEPOWER 1500). Additional features (if configuration is possible by the SA) of these systems are:

- Cascaded parameterisation of different mirror-modes
- Distinction between CPU- and IO-board

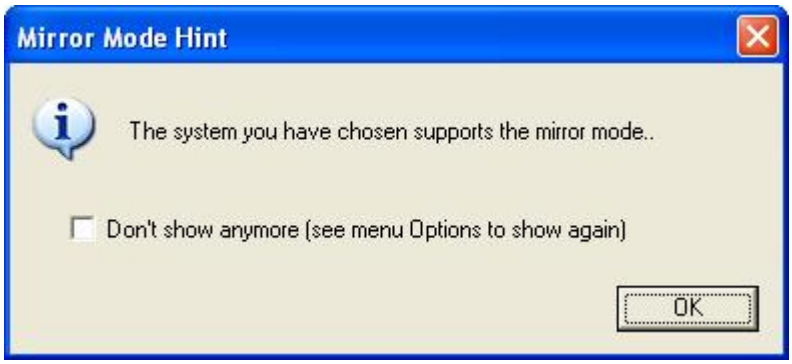
All further configuration steps for an error free configuration correspond to those, which must be used with the partitionable PRIMEPOWER systems. These are expected to be familiar and are not further described here. The online help within the SA will offer the appropriate support.

System Selection

The selection of the systems takes places as usual. The PQ-systems are offered within the new family 'PRIMEQUEST'. Due to the partitionability the systems are only offered within the SA.

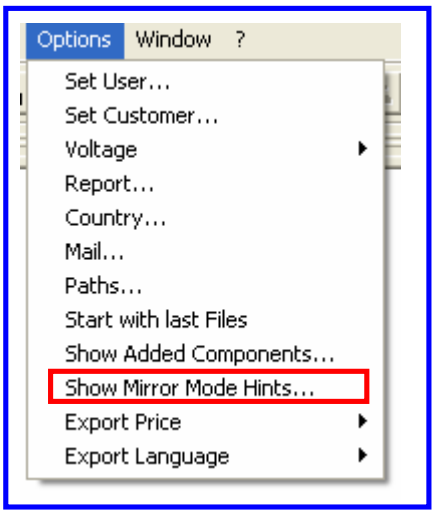


In order to inform the user about the special features of this system a message will appear immediately after adding a PQ system:



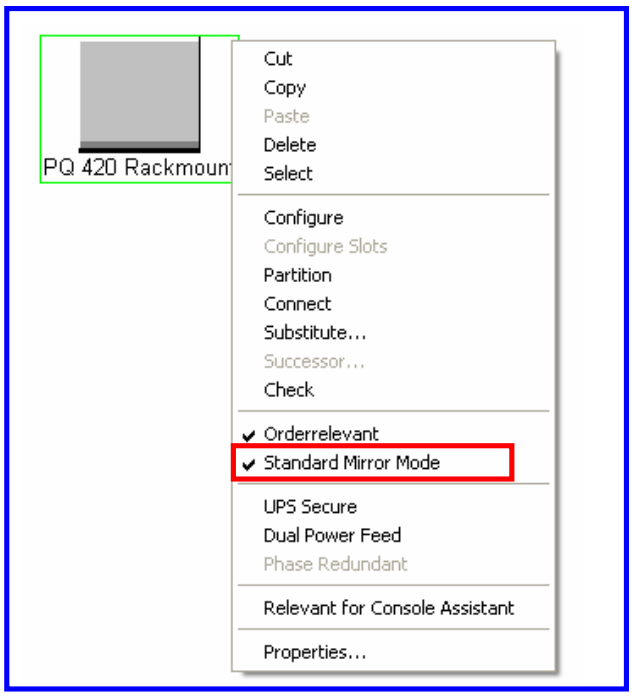
If necessary this message type can be switched off by the activation of the field 'Do not show again'.

In the Menu 'Options' a new function is available, which reproduces the visibility of the message text.



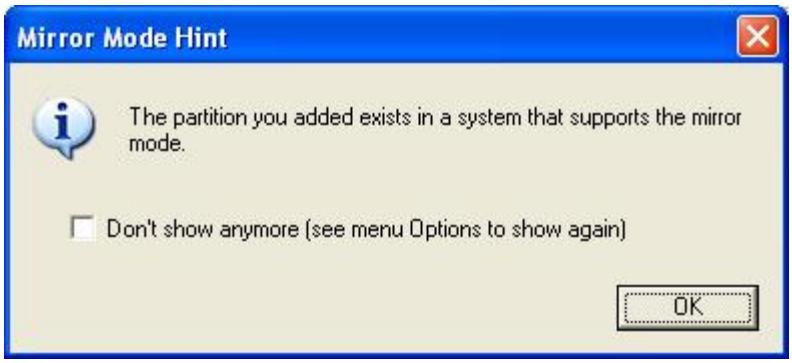
Activation of the Standard Mirror Mode (SMM)

By activating the SMM the address bus of the system is activated error tolerantly. For every added system to the within the configuration the SMM is activated initially. The deactivation and/or activation take place by means of context menu function in the system.

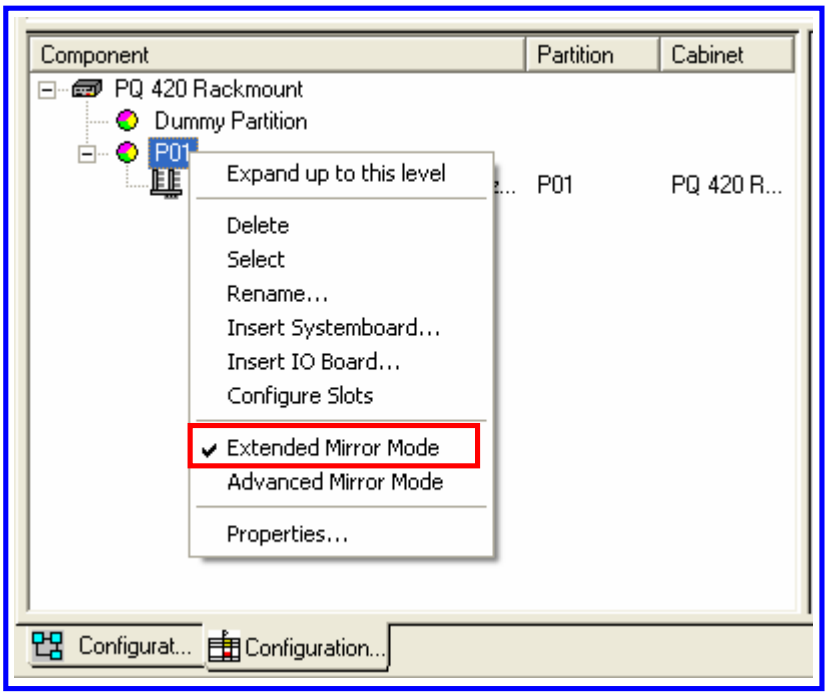


Activation of the Extended Mirror Mode (EMM)

The main storage of one partition is switched error tolerant by the activation of the EEM. Therefore an SMM must be activated at the system before. EMM effects among other things that the size of the physically existing main memory of a partition usable of applications is halved. Additionally a separate license is necessary with activated EMM, which must be added in the configuration view of the system. After adding a partition in the partition view the user gets a message that he is configuring a system that supports the mirror mode. The handling with this message type takes place analogue to the system selection described before.

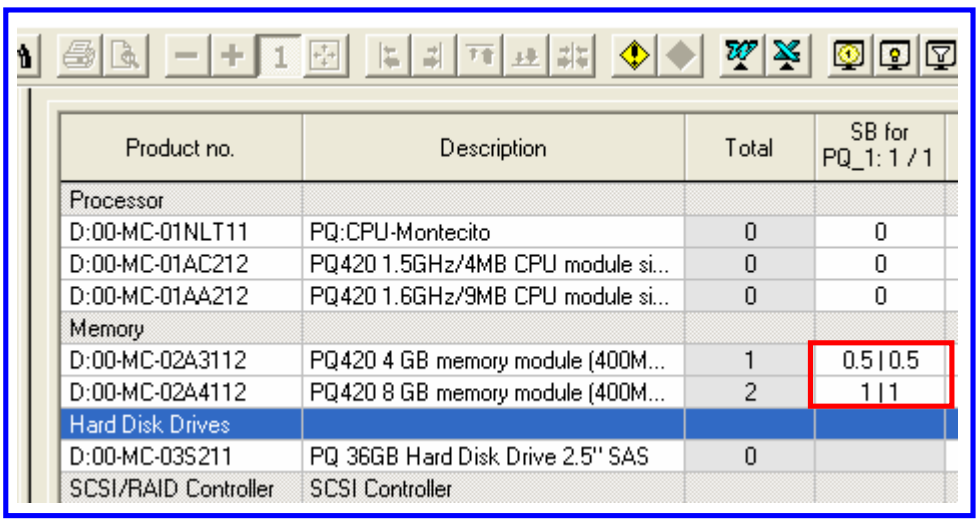


The activation of the EMM takes place by means of context menu function for the partition concerned. A simultaneous usage of the EMM and divided system boards is not permitted a corresponding error message will be displayed.



A deactivation of the SMM causes that all activated EMM for a partition within this system will be also reset. An automatic replacement of the EMM states after re-activating the SMM is not possible.

The representation of the main memory in the grid of the partition view changes with activated EMM into a split column display. This is to inform the user that the absolute indication of memory modules (in column „total“) will be halved. So it is possible that fractional parts of memory removals are displayed.



Product no.	Description	Total	SB for PQ_1: 1 / 1
Processor			
D:00-MC-01NLT11	PQ:CPU-Montecito	0	0
D:00-MC-01AC212	PQ420 1.5GHz/4MB CPU module si...	0	0
D:00-MC-01AA212	PQ420 1.6GHz/9MB CPU module si...	0	0
Memory			
D:00-MC-02A3112	PQ420 4 GB memory module (400M...	1	0.5 | 0.5
D:00-MC-02A4112	PQ420 8 GB memory module (400M...	2	1 | 1
Hard Disk Drives			
D:00-MC-03S211	PQ 36GB Hard Disk Drive 2.5'' SAS	0	
SCSI/RAID Controller	SCSI Controller		

In above mentioned example 10GB main memory of the partition will be available effectively. (1x8GB + 0.5x4GB).

Advanced Mirror Mode

The Advanced Mirror Mode is not available fort he first generation of the PQ systems yet – the function is intended for future systems.

By activation of the Advanced Mirror mode, the CPUs of a partition are switched error tolerant. The Advanced Mirror Mode causes among other things that the number of physically existing processors of a partition is halved.

The function mode and the handling correspond to that of the EEM, but with additional rules:

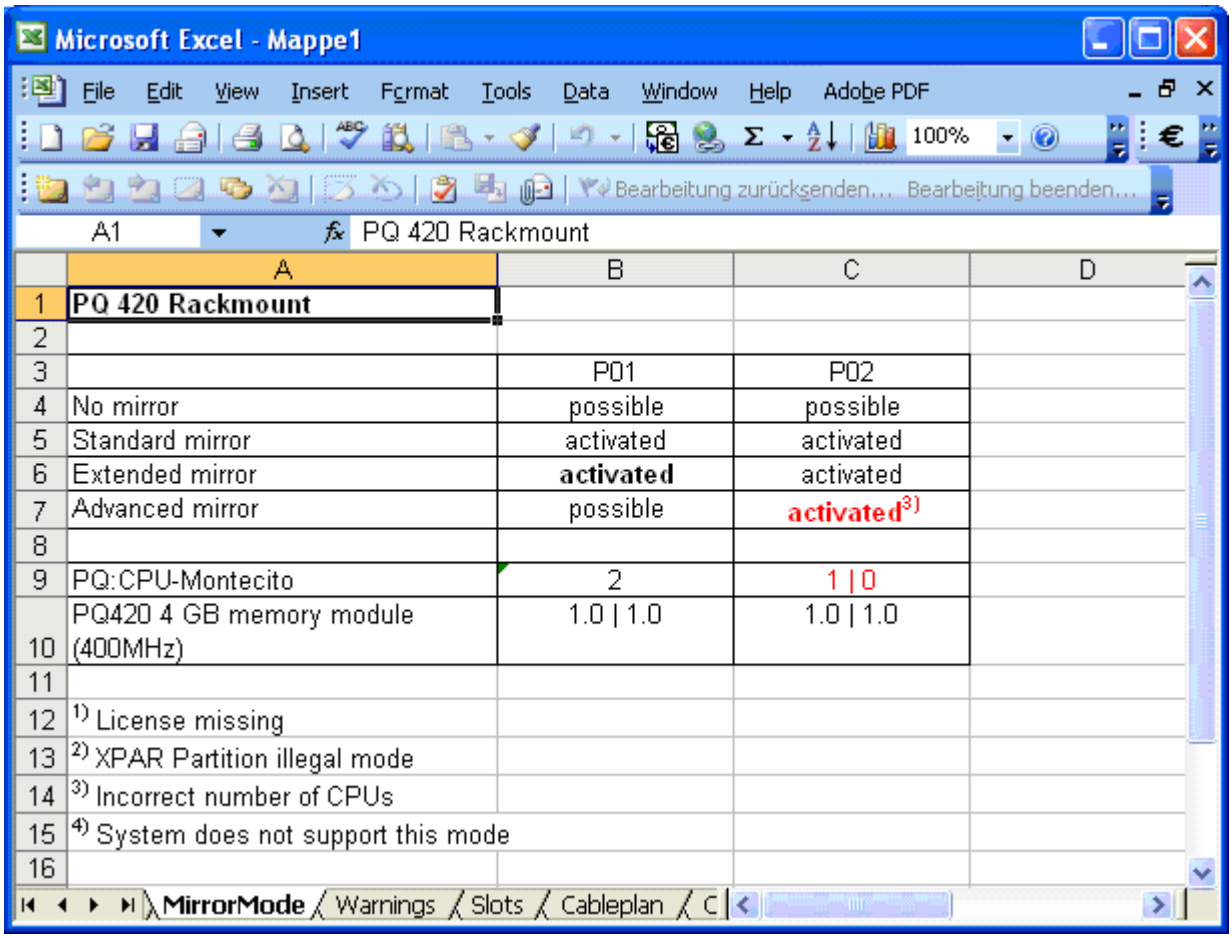
- The Advanced Mirror Mode contains the EMM
- On a partition either only the EMM can be activated or only the Advanced Mirror mode (or neither of them).
- The number of processors of a partition with activated Advanced Mirror mode must be a multiple of '2'.

Display of Mirror Modes in the Exports

In the pack list and in the EXCEL export the according activated Mirror Mode will be displayed with the according component:

- On the base unit the Standard Mirror Mode
- In the partition lists the Extended or the Advanced Mirror Mode

Additionally a new overview 'Mirror Mode' will be created for all available partitions.



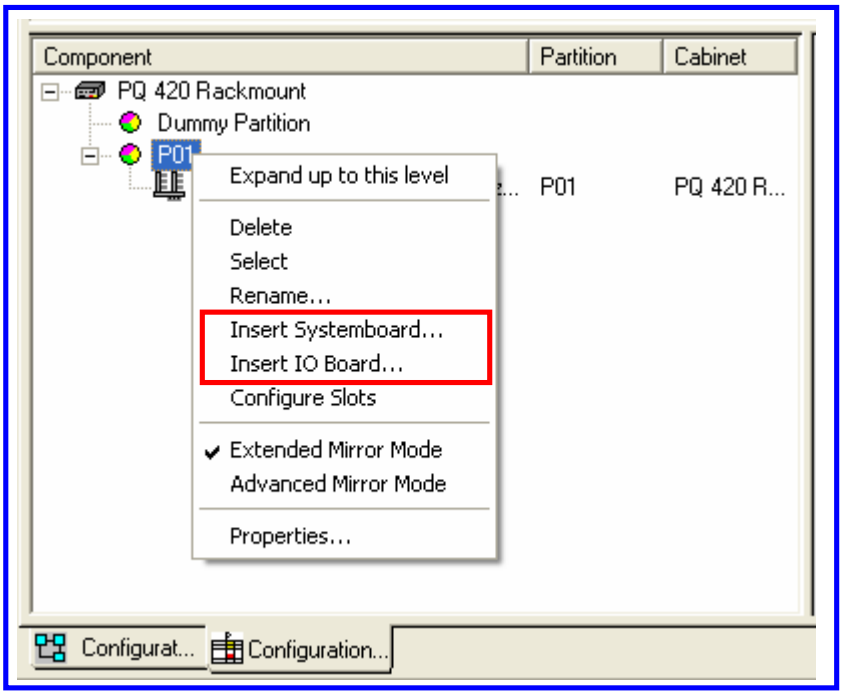
	A	B	C	D
1	**PQ 420 Rackmount**			
2				
3		P01	P02	
4	No mirror	possible	possible	
5	Standard mirror	activated	activated	
6	Extended mirror	**activated**	activated	
7	Advanced mirror	possible	**activated**[3)]	
8				
9	PQ:CPU-Montecito	2	1 | 0	
10	PQ420 4 GB memory module (400MHz)	1.0 | 1.0	1.0 | 1.0	
11				
12	[1)] License missing			
13	[2)] XPAR Partition illegal mode			
14	[3)] Incorrect number of CPUs			
15	[4)] System does not support this mode			
16				

Distinction between CPU- and IO-Board

In contrast to the PRIMEPOWER Systems, the system boards are divided:

- § CPU-Board for the exclusive admission of CPU and main
- § IO-Board for admission of hard disks, PCI plug-in cards, …

The connections of CPU-Board and IO-Board are guaranteed internally by the crossbar, the user does not need to make explicit cabling. Analogue to the adding of system boards with PRIMEPOWER systems, the necessary CPU and IO boards for PQ systems are added to the corresponding partition via context function.

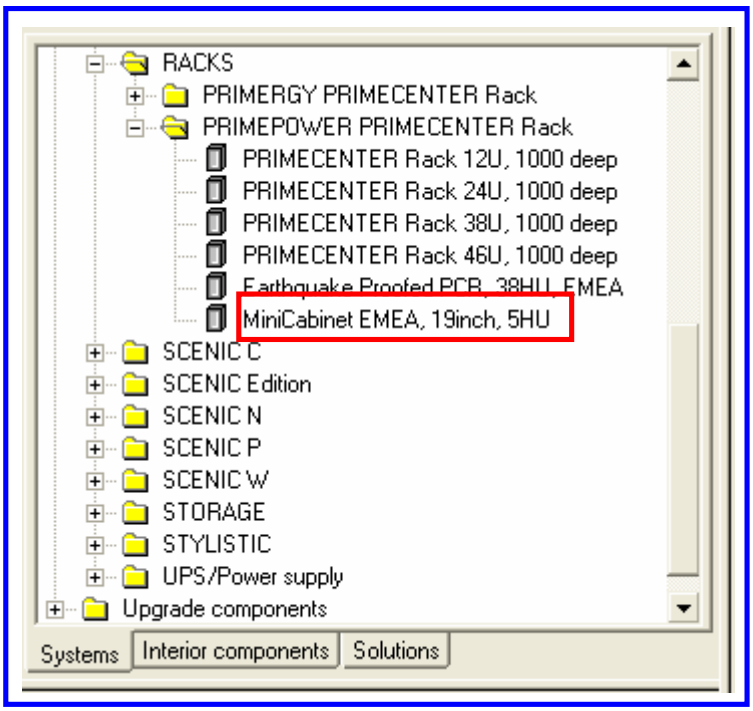


Additively it is possible to add CPU and IO Boards within the configuration view of the system, however, always an assignment to the dummy partition will take place.

Implementation of the MINI-Cabinets for SunFire T2000-Systems

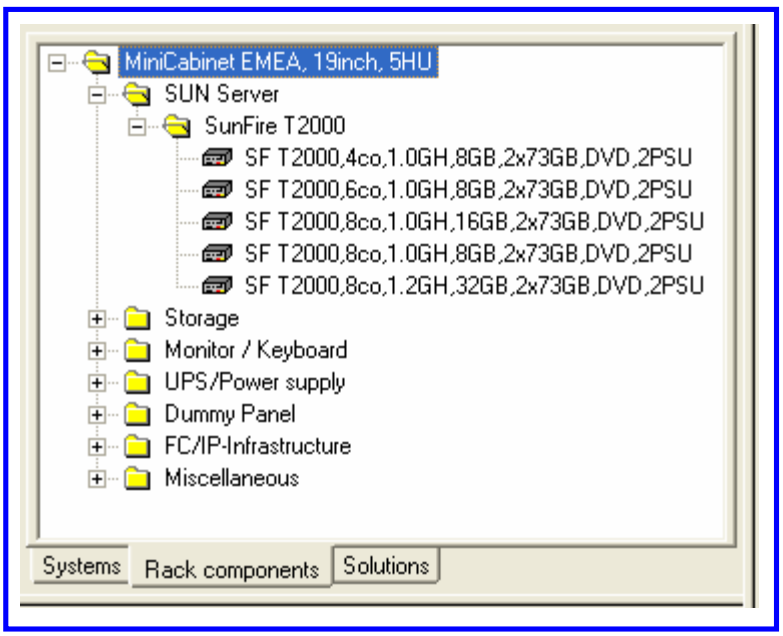
Introduction

The Mini-Cabinet is a special rack in which the vertical installation of servers is possible. For installation 5 vertical 'Height Units' are available. This is planned for the T2000 systems exclusively. The selection of the Mini Cabinet takes place in the family 'Racks'.

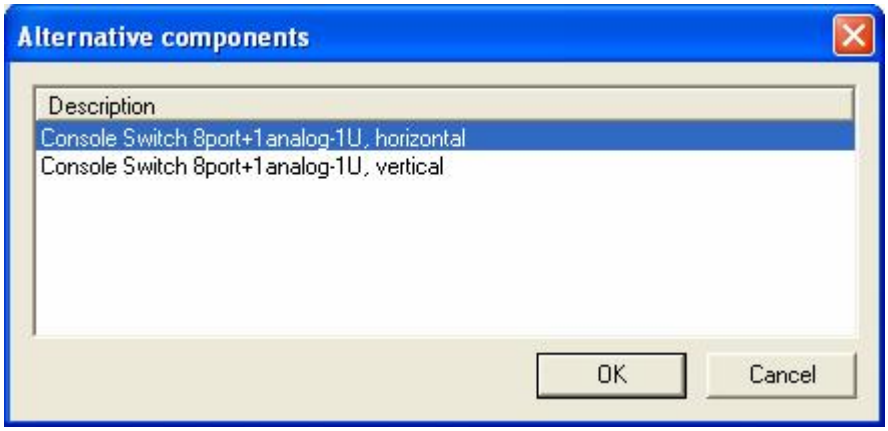


Selection of slide-in racks

By double-clicking the icon, you can switch to the assembly view of the Mini Cabinet. In the selection tree on the left above only slide-in racks are displayed, which are approved for the Mini Cabinet.

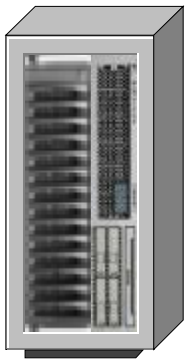


Some components can be slide-in both in the normal rack horizontally, and in the Mini Cabinet vertically. The installation position cannot be determined automatically at the moment, therefore the selection will be done by the user in “Alternative Components”.



Display of the Mini-Cabinet in the Exports

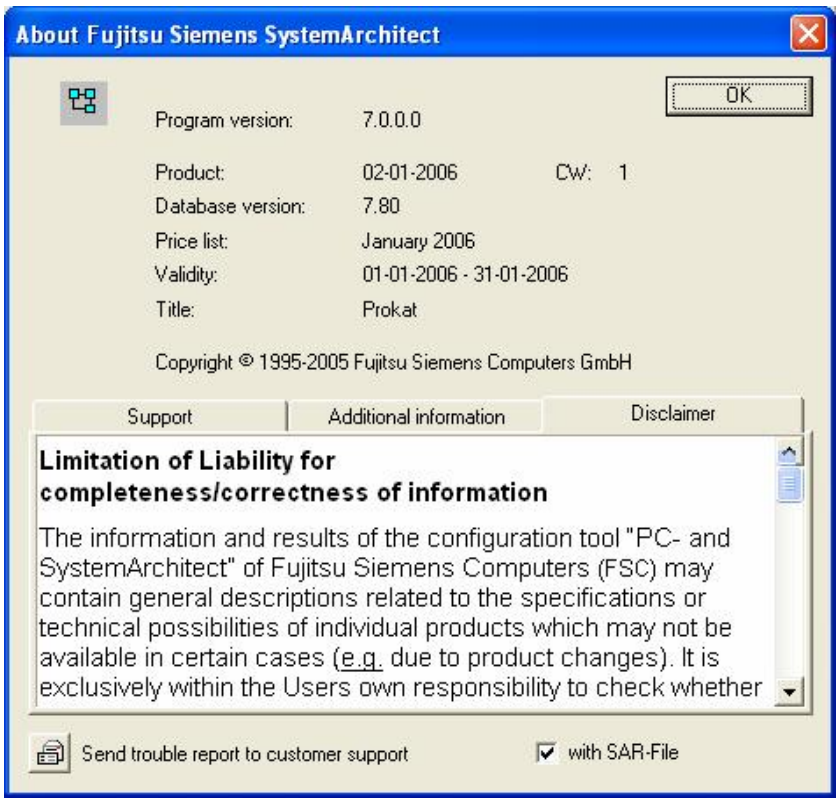
The diagrams of the Cabinets in the assembly list and in the EXCEL exports take place with real vertical assembly. The component designations are placed below the diagram. The text sequence corresponds to the assembly 'from left to right'.



Disk Subsystem single port U320 für ‚MiniCabinet [DPF]
SF T2000,4co,1,0GH, für MiniCabinet [DPF]

Integration of a disclaimer

In the textbox 'About System Architect' the text within the tab 'Disclaimer' was enhanced. The same text will be additionally shown in a separate hint box with a New Installation of the PC and System Architect. Only in case of the user's declaration of consent the installation will be further processed. In case of a programme update the text will not be indicated in a separate box, however, the text will be available for the user at any time in the tab Disclaimer.



For advanced information and training:

Training Offer

Training programs are offered on the topic of 'Configuration Tools' and can be adapted to meet the needs of the individual participant group.

Course objectives:	To provide a functional and performance overview To create simple and complex configurations To provide practical experience of tool handling through exercises
Target group:	Technical consultants, sales employees (with or without previous knowledge of the tool) with the relevant product know-how
Language:	German or English
Duration:	3 hours to 2 days (depending on individual needs)
Possible topics:	Configuration of individual systems Assembly of racks and rack modules Partitioning for PRIMEPOWER and PRIMEQUEST systems External cabling and power assistant Plausibility checking Creation and use of configuration templates Import and export functions
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