

QUICK MANUAL

Kontron WINCE 6.00 image
for M@C IIA und MediClient A (B649)

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Release – 08/2009

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Revision History

ChangeLog				
Rev	Description	Date	Author	
01	Initial Release V01.00.10.08.2009.CE600.B649.KEC.Micro\nan oclient	10.08.2009	HÖstermeier	

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1 Preface

The document described the Feature, Adjustment to develop a WINCE 6.00 Image for the Microclient\Nanoclient (B649)

2 Features

- **On-Board Hardware Support**
 - COM Ports
 - USB port
 - Ethernet connection
 - Flat panel interface
- **Storage Devices**
 - Compactflash
- **User Interface**
 - USB Mouse + USB Keyboard
 - Touch
- **Communication Services and Networking**
 - Wired LAN 802.3
 - Dial-up networking
 - Telnet server
 - FTP server
 - Web server
 - Active Sync
 - SNTP client
- **Application**
 - Internet Explorer 6.0
 - Wordpad
 - Startup Applikationen
 - Compact Framework Modul (V3.5)
 - Remote Desktop (incl Autologon support)
 - Softkeyboard
- **Data store**
 - Hive-based registry (Persistent) -> Regsav.exe
- **Languages**
 - English, german

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2.1 Hardware

2.1.1 Microclient - adjustment COM1 to COM2

Serial Interface	Address	IRQ	Device
COM1	0x3F8	4	
COM2	0x2F8	3	Active Sync

2.2 Image Size

Release: ca 36 MB -> Platform Builder

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2.3 Multilingual User Interface (optional)

Description of implement the Multilingual User Interface with Languages German and English

2.3.1 Language Change

- 1) Boot System
- 2) Click **Start -> Settings -> Control panel**
- 3) double click **Regional Settings**
- 4) Change “User Interface Language” to German or English
- 5) Press OK
- 6) On Desktop launch “**Regsave**” in order to save the settings
- 7) Reboot System in order to activate new languages

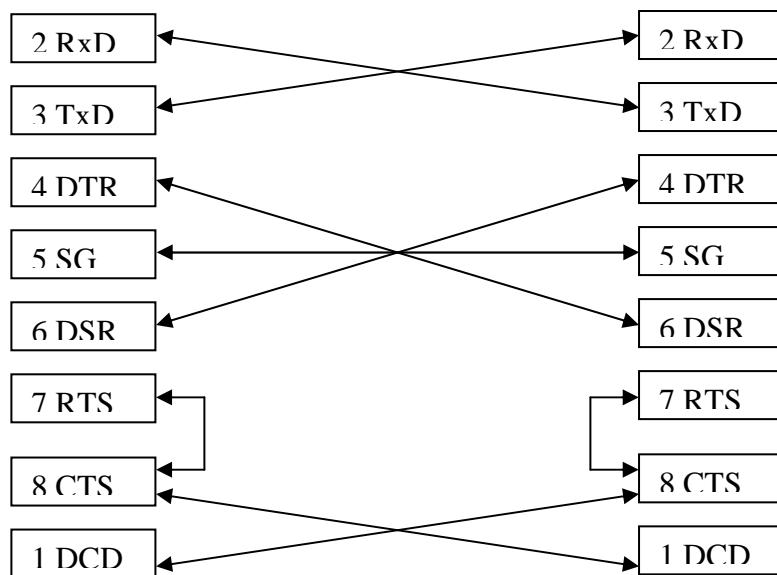
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3 ActiveSync Connection

3.1 Active Sync Serial

- Connect target and development PC with null modem cable
- WinCE – Target -> launch Repllog.exe .
- Development PC -> launch Active Sync

3.1.1 Null modem Pin Connection



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3.2 Active Sync Over LAN

3.2.1 Target

For Active Sync over LAN (LAN only) the files

- `tcpipc.dll`
- `cemgrc.exe`
- `cetlstub.dll`

must be copy in the \windows folder of the target (see manucopy.bat) during runtime

Open the Command shell and type

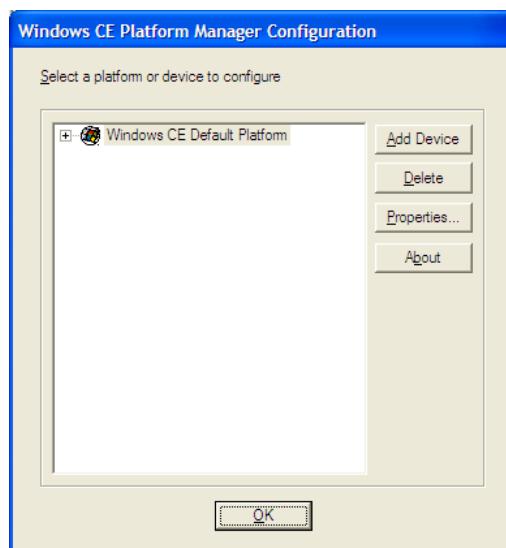
`CEMGRCE.EXE /S /T:TCPIPC.DLL /Q /D:"TCPIP Adresse from Host":5000` or
Launch the Manustart.bat

(see Manustart.BAT)

3.2.2 Host

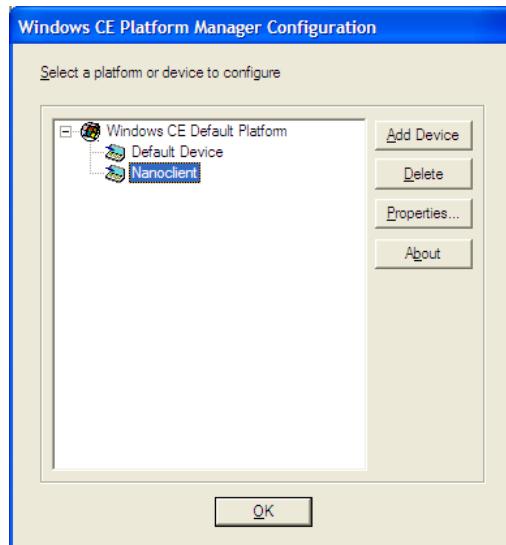
Example: CERegedit - CE Remote Registry

- 1) Launch ceregedit.exe on HOST PC
- 2) “Connection” -> “Configure Windows CE Platform Manager” if not happened

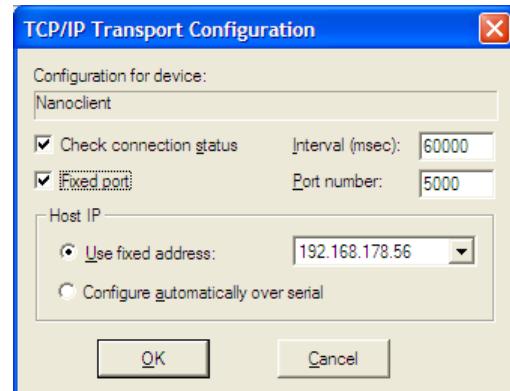
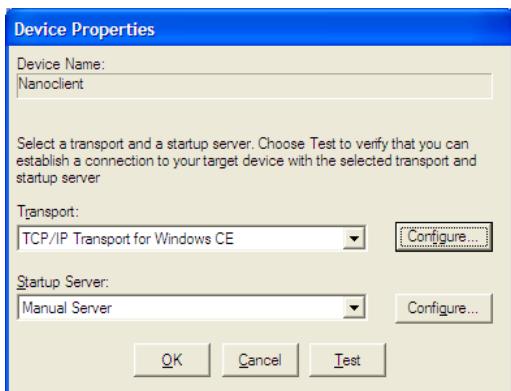


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- 3) Press “Add Device” if no device included



- 4) Press “Properties” to configure the device

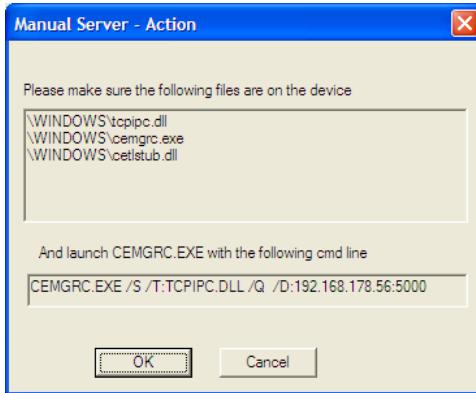


- 5) Press “OK” buttons in order to save the configuration

- 6) Press “Connection” -> “Add Connection” -> choice the Device to connect (eg: Nanoclient) and press “OK”

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- 7) A windows with the files needed on the target and launched cemgrc.exe with the following cmd line (note : you can using the batchfiles: manucopy.bat and manustart.bat)



- 8) After launching the manustart.bat on the target you are getting an Active Sync connection over LAN

3.2.2.1 Manucopy.BAT

```
copy "\Storage Card\appce6\platman\x86_CE6\tcpipc.dll"      \windows
copy "\Storage Card\appce6\platman\x86_CE6\cemgrc.exe"    \windows
copy "\Storage Card\appce6\platman\x86_CE6\ctlstub.dll"   \windows
```

3.2.2.2 Manustart.BAT

Example:

```
rem CEMGRC.EXE /S /T:TCPPIPC.DLL /Q /D:10.224.2.98:5000"
CEMGRC.EXE /S /T:TCPPIPC.DLL /Q /D:192.168.178.54:5000"
```

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4 Make a Network connections

Settings were saved persistent on CF by launch the regsave.exe (Hived based registry)

DK – double Click

4.1.1 Set static IP Address

- 1) Start -> Settings -> Network and Dial-up Connections
- 2) DK on PCI – RT81391
- 3) click “Specify an IP address”
- 4) set IP- Address
 - a. for example IP-address: 192.168.0.6, Subnet Mask : 255.255.255.0
- 5) click OK

4.1.2 map a folder on the connected PC

- 1) Start -> RUN click
- 2) Set CMD
- 3) net view <Computername>
- 4) set user name and password !!!
- 5) net use * **Fehler! Hyperlink-Referenz ungültig.**

4.1.3 Place of the shared resource

- 1) Start -> Programs -> Windows Explorer
- 2) Click Network
- 3) -> shared folder

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5 Configuration for download the CE-Image

5.1 BIOS Settings B649 Board (B649A004)

Note:

- The most important Settings are marked blue !!!!
- Settings after copy the CE-Images
- Press „DEL“ Key as long as booting the BIOS-setup starts

1 Main Menu Overview

Main	
Advanced	
	►CPU Configuration
	►IDE Configuration
	►Primary IDE Master
	►Primary IDE Slave
	►Secondary IDE Master
	►Secondary IDE Slave
	►SuperIO Configuration
	►Hardware Health Configuration
	►ACPI Configuration
	►General ACPI Configuration
	►Advanced ACPI Configuration
	►Chipset ACPI Configuration
	►Video Function Configuration
	►B649 FEATURE
	► Watchdog
	► SuperVision
	►MPS Configuration
	►PCI Express Configuration

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	►SMBIOS Configuration
	►USB Configuration
	►USB Mass Storage Device Configuration *)
PCIPnP	
Boot	
	►Boot Settings Configuration
Security	
Chipset	
	►North Bridge Configuration
	►South Bridge Configuration
Exit	
	►Save Changes and Exit
	►Discard Changes and Exit
	►Discard Changes
	►Load Optimal Defaults
	►Load Failsafe Defaults

*) It's dependent from the attached devices

2 Advanced

2.1 CPU Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Max CPUID Value Limit	Disabled		Disabled, Enabled
Execute-Disable Bit Capability	Enabled		Disabled, Enabled
Hyper Threading Technology	Enabled		Disabled, Enabled
DTS-based Thermal Management	Enabled		Disabled, Enabled
DTS Calibration	Enabled		Disabled, Enabled
Intel ® SpeedStep™ tech.	Enabled		Disabled, Enabled
Intel ® C-State tech	Enabled		Disabled, Enabled
Enhanced C-States	Enabled		Disabled, Enabled

2.2 IDE Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
ATA/IDE Configuration	Compatible		Disabled, Compatible, Enhanced
Legacy IDE Channels	SATA Pri, PATA Sec		SATA Only; Reserved; SATA Pri, PATA Sec; PATA Only
Configure SATA as *)	IDE		IDE; RAID; AHCI
Configure SATA Channels *)	Before PATA		Before PATA; Behind PATA
Configure SATA as **)	Disabled		Disabled, RAID
►Primary IDE Master			
►Primary IDE Slave			
►Secondary IDE Master			
►Secondary IDE Slave			
►Third IDE Master *)			
►Third IDE Slave *)			
Hard Disc Write Protect	Disabled		Enabled; Disabled
IDE Detect Time Out (sec.)	5		0; 5; 10; 15; 20; 25; 30; 35

*) only shown by ATA/IDE Configuration = Enhanced

**) only shown by Legacy IDE Channels = PATA Only

2.2.1 Primary IDE Master/Slave

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Type	Auto		Not installed Auto CDROM ARMD
LBA/Large Mode	Auto		Disabled, Auto
Block (Multi-Sector Transfer)	Auto		Disabled, Auto
PIO Mode	Auto		Auto, 0,1,2,3,4,
DMA Mode	Auto		Auto
S.M.A.R.T	Auto		Auto, Disabled, Enabled
32Bit Data Transfer	Disabled		Enabled; Disabled

2.2.2 Secondary IDE Master/Slave

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Type	Auto		Not installed Auto CDROM ARMD
LBA/Large Mode	Auto		Disabled, Auto
Block (Multi-Sector Transfer)	Auto		Disabled, Auto
PIO Mode	Auto		Auto, 0,1,2,3,4,
DMA Mode	Auto		Auto
S.M.A.R.T	Auto		Auto, Disabled, Enabled
32Bit Data Transfer	Disabled		Enabled; Disabled

2.2.3 Third IDE Master/Slave

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Type	Auto		Not installed Auto CDROM ARMD
LBA/Large Mode	Auto		Disabled, Auto
Block (Multi-Sector Transfer)	Auto		Disabled, Auto
PIO Mode	Auto		Auto, 0,1,2,3,4,
DMA Mode	Auto		Auto
S.M.A.R.T	Auto		Auto, Disabled, Enabled
32Bit Data Transfer	Disabled		Enabled; Disabled

2.3 SuperIO Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Serial Port1 Address	3F8/IRQ4		Disabled, 3F8/IRQ4, 3E8/IRQ4, 2F8/IRQ3, 2E8/IRQ3
Serial Port1 Address	2F8/IRQ3		Disabled, 3F8/IRQ4, 3E8/IRQ4, 2F8/IRQ3, 2E8/IRQ3
Serial Port2 Mode	Normal		Normal, IrDa, ASK IR

2.4 Hardware Health Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
WB Temperature 1	XXXX		
CPU Temperature	XXXX		
WB Temperature 2	XXXX		
Vcore	XXXX		
AVCC	XXXX		
3VCC	XXXX		
+ 12V	XXXX		
+ 5V	XXXX		
+ 1,5V	XXXX		
+ 1,05V	XXXX		
+ 1,8V	XXXX		
+ 3,3 VSB	XXXX		
VBAT	XXXX		

2.5 ACPI Configuration

2.5.1 General ACPI Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Suspend mode	Auto		S1 (POS); S3 (STR); Auto
Repost Video on S3 Resume	No		No; Yes

2.5.2 Advanced ACPI Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
ACPI Version Features	ACPI v1.0		ACPI v1.0; ACPI v2.0; ACPI v3.0;
ACPI APIC support	Enabled		Disabled, Enabled
AMI OEMB table	Enabled		Disabled, Enabled
Headless mode	Disabled		Disabled, Enabled

2.5.3 Chipset ACPI Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
APIC ACPI SCI IRQ	Disabled		Enabled, Disabled
High Performance Event Timer	Disabled		Enabled, Disabled

2.6 Video Function Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
DVMT Mode Select	DVMT Mode		Fixed Mode; DVMT Mode; Combo Mode
DVMT/FIXED Memory	128MB		64MB; 128MB; Maximum DVMT
Boot Display Device	CRT + LVDS		Auto; CRT; LVDS; CRT + LVDS;
Flat Panel Type	SVGA 800x600 1x18 *)		VGA 640x480 1x18; SVGA 800x600 1x18; XGA 1024x768 1x18; SXGA 1280x1024 2x18; WVGA 800x480 1x18
Local Flat Panel Scaling	Stretched		Centered; Stretched; Disabled
Backlight Control Type	PWM		None/External, I2C, PWM
Backlight Brightness	128		0 – 255

*) dependant from the attached panel type

2.7 B649 Feature

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
► Watchdog			
► SuperVision			

2.7.1 Watchdog

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Watchdog State	Disabled		Enabled, Disabled
WD Active Time [sec]	1023		1 – 1023

2.7.2 SuperVision

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
SVC\PIC Program Version	XXXX		
SVC\PIC Feature ID	XXXX		
Power On Counter	XXXX		
Operating Time Counter [hour]	XXXX		
PowerUp Heater control	Disabled		Disabled; Enabled
Board Temperature	XXXX		
I2C External (J28)	Disabled		Disabled; Enabled
USB01 External VCC (J5)	Enabled		Disabled; Enabled
USB23 Internal1 VCC (J29)	Enabled		Disabled; Enabled
USB67 Internal2 VCC (J17)	Enabled		Disabled; Enabled
1. Ethernet MAC Addr.			
2. Ethernet MAC Addr.			

2.8 MPS Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
MPS Revision	1.1		1.1; 1.4

2.9 PCI Express Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
PCIE Port 0	Auto		Auto; Enabled; Disabled
PCIE Port 1	Auto		Auto; Enabled; Disabled
PCIE Port 2	Auto		Auto; Enabled; Disabled
PCIE Port 3	Auto		Auto; Enabled; Disabled
PCIE Port 4	Auto		Auto; Enabled; Disabled
PCIE Port 5	Auto		Auto; Enabled; Disabled
PCIE High Priority Port	Disabled		Disabled; Port 0; Port 1; Port 2; Port 3; Port 4; Port 5
PCIE Port 0 IOxAPIC Enable	Disabled		Disabled; Enabled
PCIE Port 1 IOxAPIC Enable	Disabled		Disabled; Enabled
PCIE Port 2 IOxAPIC Enable	Disabled		Disabled; Enabled
PCIE Port 3 IOxAPIC Enable	Disabled		Disabled; Enabled
PCIE Port 4 IOxAPIC Enable	Disabled		Disabled; Enabled
PCIE Port 5 IOxAPIC Enable	Disabled		Disabled; Enabled

2.10 SMBIOS Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Smbios Smi Support	Enabled		Disabled; Enabled

2.11 USB Configuration

Module Version: 2.24.3-13.4

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
USB Functions	8 USB Ports		Disabled, 2 USB Ports, 4 USB Ports, 6 USB Ports, 8 USB Ports,
USB 2.0 Controller	Enabled		Enabled, Disabled
Legacy USB Support	Enabled		Disabled; Enabled; Auto
USB Keyboard Legacy Support	Enabled		Disabled; Enabled
USB Mouse Legacy Support	Enabled		Disabled; Enabled
USB Storage Device Support	Enabled		Disabled; Enabled
Port 64/60 Emulation	Disabled		Disabled; Enabled
USB 2.0 Controller Mode	HiSpeed		FullSpeed, HiSpeed
BIOS EHCI Hand-Off	Enabled		Disabled; Enabled

2.11.1 USB Mass Storage Device Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
USB Mass Storage Reset Delay	20sec		10sec, 20sec, 30sec, 40sec
Device#1			
Device#2			
Device#n			
Emulation Type	Auto		Auto, Floppy, Forced FDD ; Hard-Disk ; CDROM

3 PCIPNP

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Clear NVRAM	No		Yes, No
Plug & Play O/S	No		Yes, No
PCI Latency Timer	64		32; 64; 96; 128; 160; 192; 224; 248
Allocate IRQ to PCI VGA	Yes		Yes; No
Palette Snooping	Disabled		Enabled; Disabled
PCI IDE BusMaster	Enabled		Enabled; Disabled
OffBoard PCI/ISA IDE Card	Auto		Auto; PCI Slot 1 PCI Slot 2; PCI Slot 3; PCI Slot 4; PCI Slot 5; PCI Slot 6
IRQ3	Available		Available; Reserved
IRQ4	Available		Available; Reserved
IRQ5	Available		Available; Reserved
IRQ6	Available		Available; Reserved
IRQ7	Available		Available; Reserved
IRQ9	Available		Available; Reserved
IRQ10	Reserved		Available; Reserved
IRQ11	Available		Available; Reserved
IRQ14	Available		Available; Reserved
IRQ15	Available		Available; Reserved
Reserved Memory Size	Disabled		Disabled; 16k; 32k; 64k
Reserved Memory Address	C8000		C0000; C4000; C8000; CC000 D0000; D4000; D8000; DC000

4 Boot

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
► Boot Settings Configuration			
1 st Boot Devices			1 st Floppy Drive; CD/DVD; Hard Drive; Disabled
2 nd Boot Devices			1 st Floppy Drive; CD/DVD; Hard Drive; Disabled
3 rd Boot Devices			1 st Floppy Drive; CD/DVD; Hard Drive; Disabled
4 th Boot Devices			1 st Floppy Drive; CD/DVD; Hard Drive; Disabled
5 th Boot Devices		.	1 st Floppy Drive; CD/DVD; Hard Drive; Disabled

Boot order: 402153 USB-> removable-> atapi cdrom-> Hard disk -> LAN ->BEV/other

4.1 Boot Settings Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Quick Boot	Enabled		Disabled; Enabled
Quiet Boot	Disabled		Disabled; Enabled
AddOn ROM Display Mode	Force BIOS		Force BIOS; Keep current
Bootup Num-Lock	On		On, Off
PS/2 Mouse Support	Auto		Disabled; Enabled; Auto
Wait for "F1" if Error	Enabled		Disabled; Enabled
Hit 'DEL' Message Display	Enabled		Disabled; Enabled
Interrupt 19 Capture	Disabled		Disabled; Enabled
Enable PXE ROM	Enable		Enable; Disable

5 Security

5.1 Security Settings

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Supervisor Password	: Not installed		
Change Supervisor Password			
Password Check	Setup		Setup; Always
Boot Sector Virus Protection	Disabled		Disabled; Enabled

6 Chipset Configuration

6.1 North Bridge Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
DRAM Frequency	Auto		Auto; 400 Mhz; 533Mhz
Configure DRAM Timing by SPD	Enabled		Disabled; Enabled
Memory Hole	Disabled		Disabled; 15MB-16MB
Integrated Graphics Mode Select	Enabled, 8MB		Disabled; Enabled, 1MB; Enabled, 8MB;

6.2 South Bridge Configuration

Control Group Structure Name	BIOS Defaults	Customer Setting	Possible Setting
Audio Controller	Auto		Auto; Azalia; AC'97 Audio and Modem; All Disabled
SMBUS Controller	Enabled		Disabled; Enabled
SLP_S4# Min. Assertion Width	1 to 2 seconds		4 to 5 seconds; 3 to 4 seconds; 2 to 3 seconds; 1 to 2 seconds;
Restore on AC Power Loss	Power On		Power Off; Power On; Last State

6 Registry

There is a hived based registry for the persistent Registry in the WINCE Image. The Registry with the User Settings is saved on the Storage device!

6.1 Regsave.exe

Launch this File the Registry changes were saved on the Storage Device. Do you not launch regsave.exe after make settings the changes will be lost if you make a reboot.

6.2 Registry folder

The registry saved under following path

C:\Registry\System.hv
C:\Registry\User.mky
C:\Registry\User\User.hv

6.3 FAQ

Problem: System boots not correct after a faulty registry !!!

Approach:

Connect the CF in a Cardreader which is attached to a host PC and delete the “registry” folder. After boot the target with the CF the registry with the orginal settings were saved on the storage device !!!

Note: preceding settings were lost

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7 Touch calibration

If the touchpoints don't the same as the mouse arrow you must calibrate the touch !

- 1) DK „**hcecal**“on the WINCE Desktop
- 2) Make Calibration
- 3) DK „**regsave**“ on the WINCE Desktop in order to save the value on the storage device
- 4) DK X (right above) close the Regsave window

8 Autostart applications

Through a entry in the startup.bat you can autostart applications after booting

Path:

C:\Startup\startup.bat

8.1 Startup.bat

```
echo off
REM Kontron embedded Computers      28.2.2006  HOs
REM
REM Batchfile for Autostart files after booting
REM which is not build in the image
REM
REM strategy:
REM 1) Make a directory on the HDD
REM 2) Copy the files in the directory
REM 3) Make a entry in the startup.bat, to start the Application automatically
REM
REM Example: start \"Storage Card"\App\App1.exe
REM
REM .....
REM .....
```

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9 IE in KIOSmode (optional wince 5.0)

You can start the Panel in IE KIOSK mode ! After Booting the WINCE target the ie will be launched in KIOS mode !

9.1 Enable the KIOSKmode

- 1) Booting the wince image of the CE - target !
- 2) Launch regsave on the desktop
- 3) Press the “IE Kiosemode” button
- 4) The target is making a reboot and start the IE in kioskmode

9.2 Disable the KIOSKmode

- Booting the wince image of the CE – target!
- Move the mousecursor to the below border of the Panel -> Taskbar will be shown
- Press the “show Desktop” button (right below)
- Launch regsave on the desktop
- Press “IE Normal” button
- The target is making a reboot and start WINCE in “normal” mode

10 Version check

You can distinguish the WINCE Build version of the image with version.exe

- press “Start” -> press “RUN” -> In the Open field type “version.exe”
- A version String will be shown

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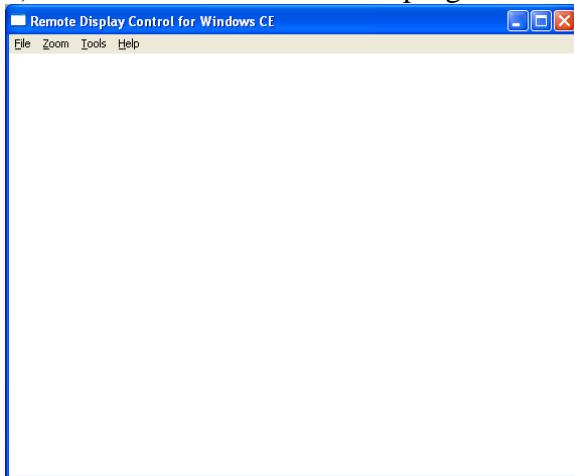
11 Remote Display (From PC -> to WINCE Target) optional

11.1 Wince 5.0

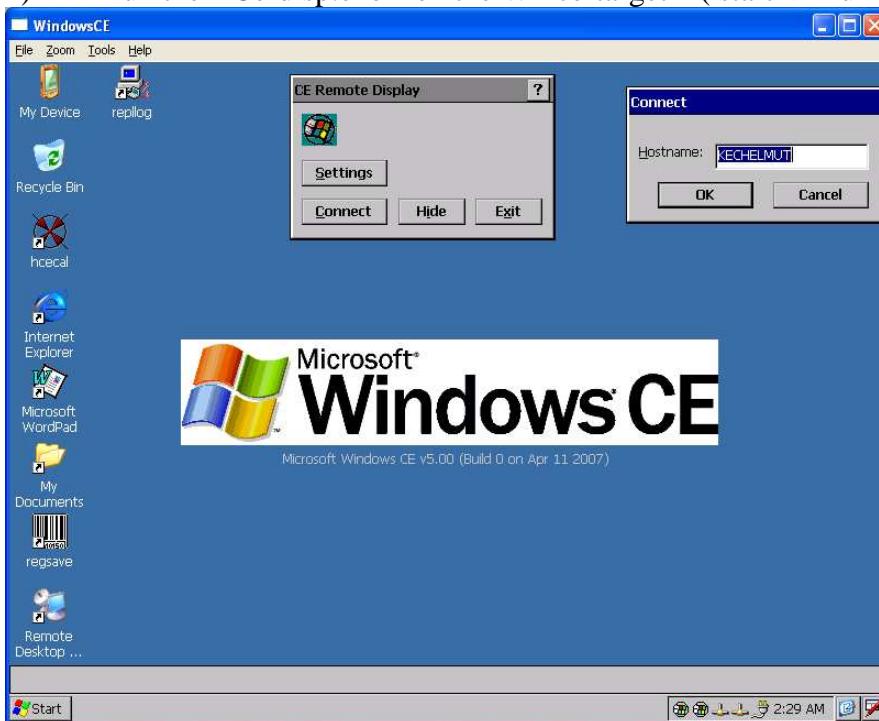
HOST Programm: cerhost.exe (windows XP)
 Server Programm: cerdisp.exe (WINCE)

Note: Before using Remote Display you have to make a TCP/IP connection !!

- 1) Run the “CErhost.exe” programm on the PC



- 2) Run the “Cerdisp.exe ” on the Wince-target (start -> Run -> Cerdisp.exe)



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3) Press the “Connect” – Button and type in the dialogbox the Hostname of your PC !

→ The WindowsCE screen will be shown on the PC !!!

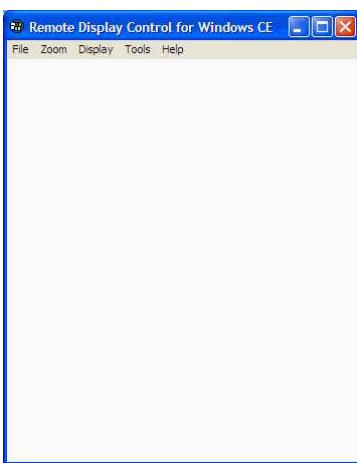
Kontron vertraulich		Formularstand: 18.11.2005		Dokument	CE60-Quick Manual_V01_E.doc	
Erstellt:	HÖstermeier	Änderung:		Freigabe	Datum:	Seite: 34 von 57

11.2 wince 6.0

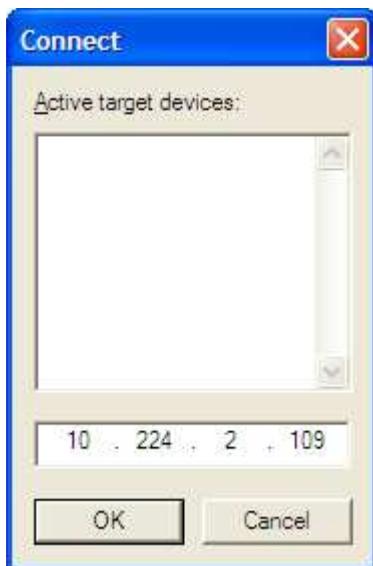
HOST Programm: cerhost.exe (windows XP)
Server Programm: cerdisp.exe (WINCE)

Note: Before using Remote Display you have to make a TCP/IP connection !!

- 1) Run the “Cerhost.exe” programm on the Host PC



- 2) Run the “Cerdisp.exe -c ” on the Wince-target (start -> Run -> Cerdisp.exe -c)
- 3) Click on the “File” -> “Connect” button of the Remote Display Control for Windows CE programm of the host PC and type the IP Adresse of the WINCE target in the “Connect” windows. Then press the “OK” button



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→ The WindowsCE screen will be shown on the PC !!!!



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12 Server

12.1 RAS Server (optional)

12.1.1 HOWTO Configure the RAS Server

- 1) Execute the \windows\regedit.exe program
- 2) Put the Ras server configuration desired into the HKLM\Comm\ppp\Server\Parms and HKLM\Comm\ppp\Server\Line\ registry variables
- 3) Save the registry executing the program \windows\regsave.exe
- 4) Reboot the system

The documentation of the Registry Settings are from the Microsoft WINCE - documentation

12.1.1.1 RAS Server-Settings

Registry Path: HKLM\Comm\ppp\Server\Parms

Value	Type	Default	Meaning
Enable	DWORD	0	Enable(1)\Disable(0) the RAS server.
StartupDelaySeconds	DWORD	20	Delay until the service starts (at boot time), to wait for other Services to start.
UseDHCPAddresses	DWORD	0	Assign Ip addresses via DHCP(1) or not (0)
UseAutoIpAddresses	DWORD	1	Since CE4.1 Set to '1' to have the ras server generate random Ip addresses from the Auto Ip pool
AutoIpSubnet	DWORD	0xC0A80000 = 192.168.x.x	Subnet, that random Ip addresses are created from, if AutoIp is enabled
AutoIpSubnetMask	DWORD	(0xFFFF0000 = 255.255.0.0)	
StaticIpAddrStart	DWORD	0xC0A8FE01	Define the pool for static Ip Addresses if neither AutoIp nor DHCP is enabled
StaticIpAddrCount	DWORD	254	
AuthenticationMethods	DWORD	0x00040000	Bitmask, defining which authentication methods are prohibited: RASEO_ProhibitPAP 0x00040000 RASEO_ProhibitCHAP 0x00080000 RASEO_ProhibitMsCHAP 0x00100000 RASEO_ProhibitMsCHAP2 0x00200000 RASEO_ProhibitEAP 0x00400000
Flags	DWORD	0	Bitmask. 0x01 Requires data encryption 0x02 Allow unauthenticated access 0x04 Prevent use of VJ header compression 0x08 Prevent data compression

12.1.1.2 Line-Settings

Registry Path: HKLM\Comm\ppp\Server\Line\

Configuration for the individual devices, listening for incoming connections

Available Devices can be discovered by using the RasEnumDevices API

Value	Type	Default	Meaning
Enable	DWORD	0	Enable(1)\Disable(0) the RAS server.
DeviceType	SZ	0	type of the device: "direct" "modem" "vpn" "PPPoE"
Device Info	Binary		
Flags	DWORD	0	Equal to Server Flags . The Server and Line Flags are 'OR'ed to configure a connection

12.1.2 Start / Stop the RAS server

Start : Executing the program \windows\rasserver start

Stop : Executing the program \windows\rasserver stop

12.2 Webserver (HTTP Server) (optional)

The Web Root Directory is set to \Storage Card\

12.2.1 Howto Enable Webserver (HTTP Server)

Set the registry key "IsEnabled"=dword:00000001"

[HKEY_LOCAL_MACHINE\Comm\HTTPD]

"**.IsEnabled"=dword:00000001**

"MaxLogSize"=dword:00008000

"LogFileDirectory"="\windows\www"

"NTLM"=dword:00000001

"Basic"=dword:00000000

"AdminUsers"="ADMIN"

Note:

* By default the Webserver is disabled

* The changing will be active after save the registry (Regsave.exe) and reboot the target

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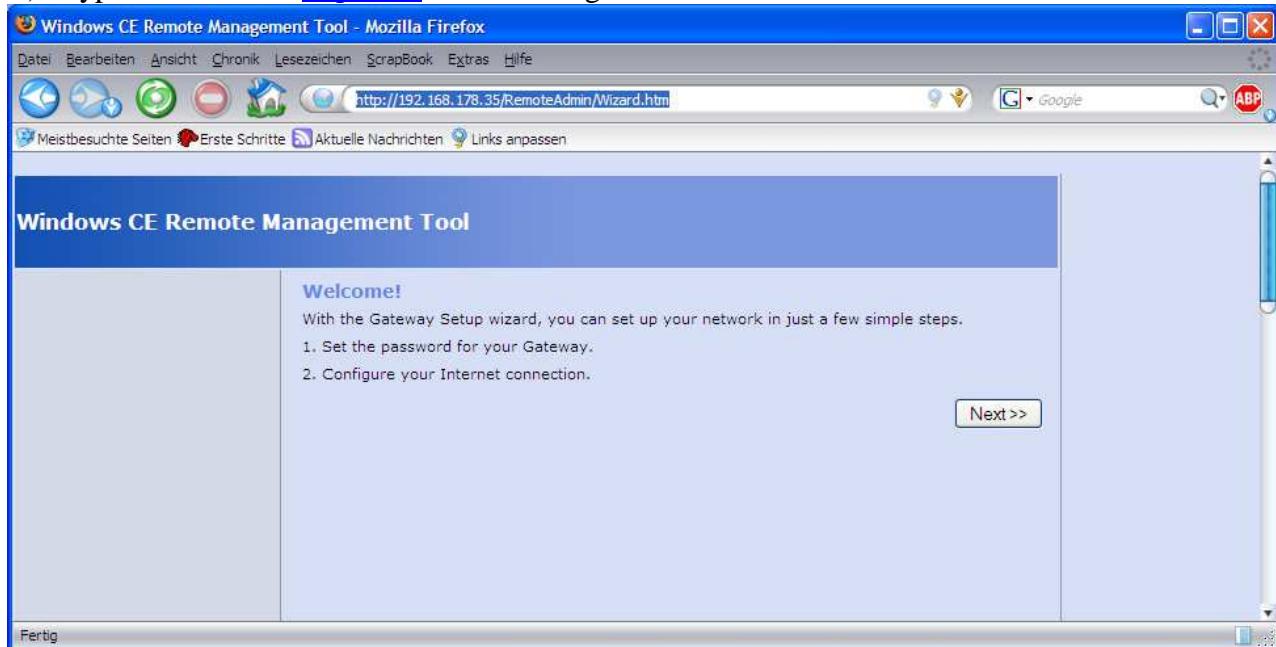
12.2.2 Remote administration the Webserver

Remark:

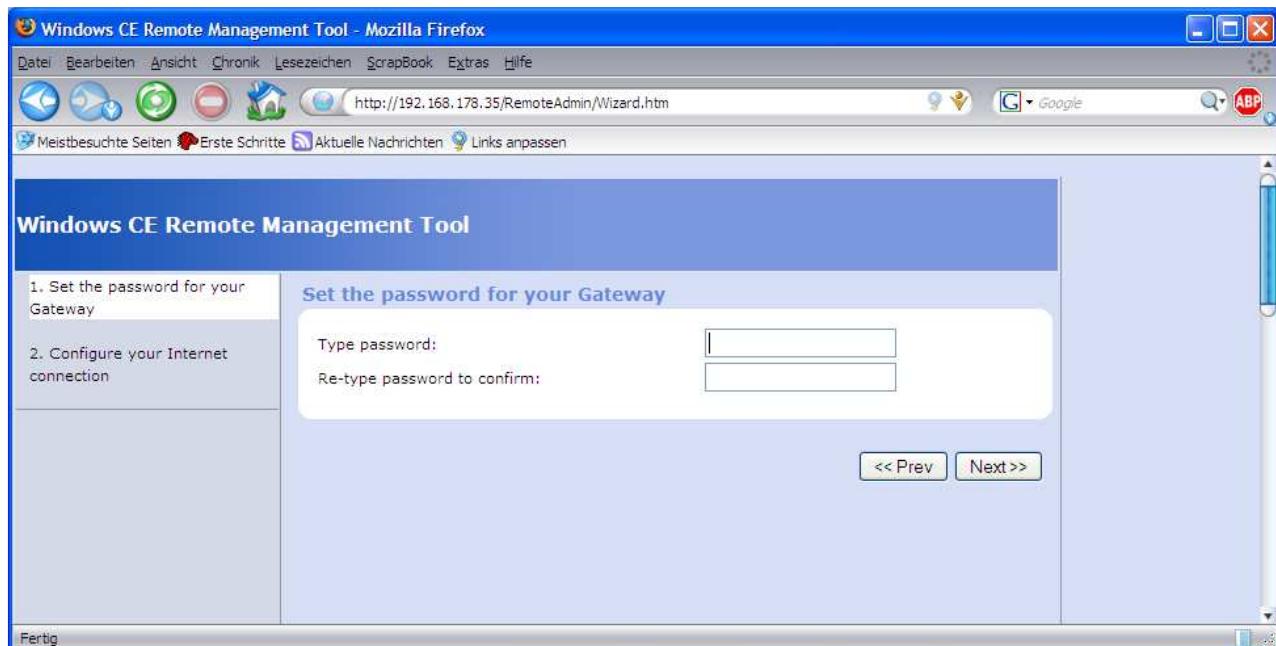
* Before using remote administration you have to make a TCP/IP connection !!

* The Webserver must be enabled !!

- 1) Launch the Browser in your Host PC
- 2) Type in the URL: <http://IP Adresse Target>/RemoteAdmin/Wizard.htm

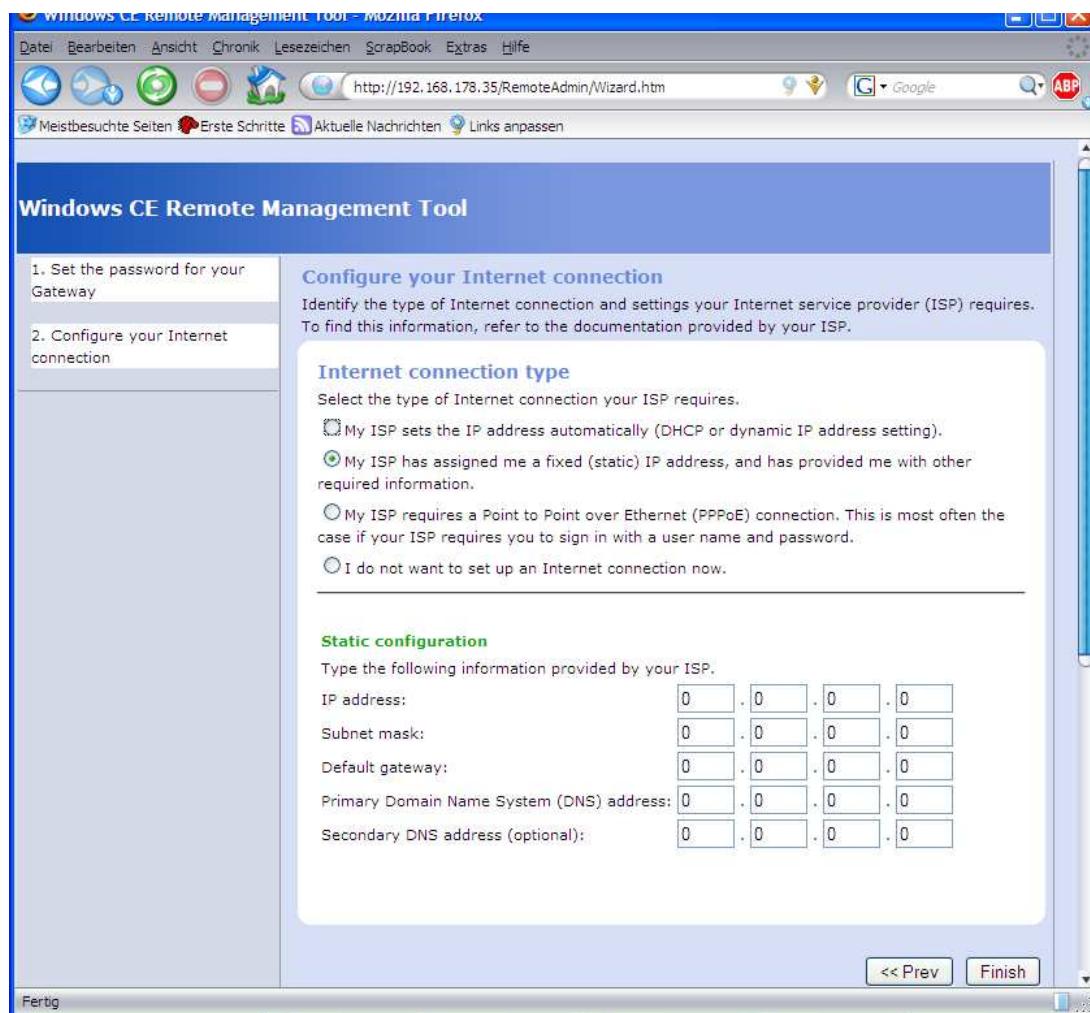


After Press the “Next>>” button the following windows is shown



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Type the password and press the “Next >>” Button



After Press the “Finish” button the device is resetting the Gateway



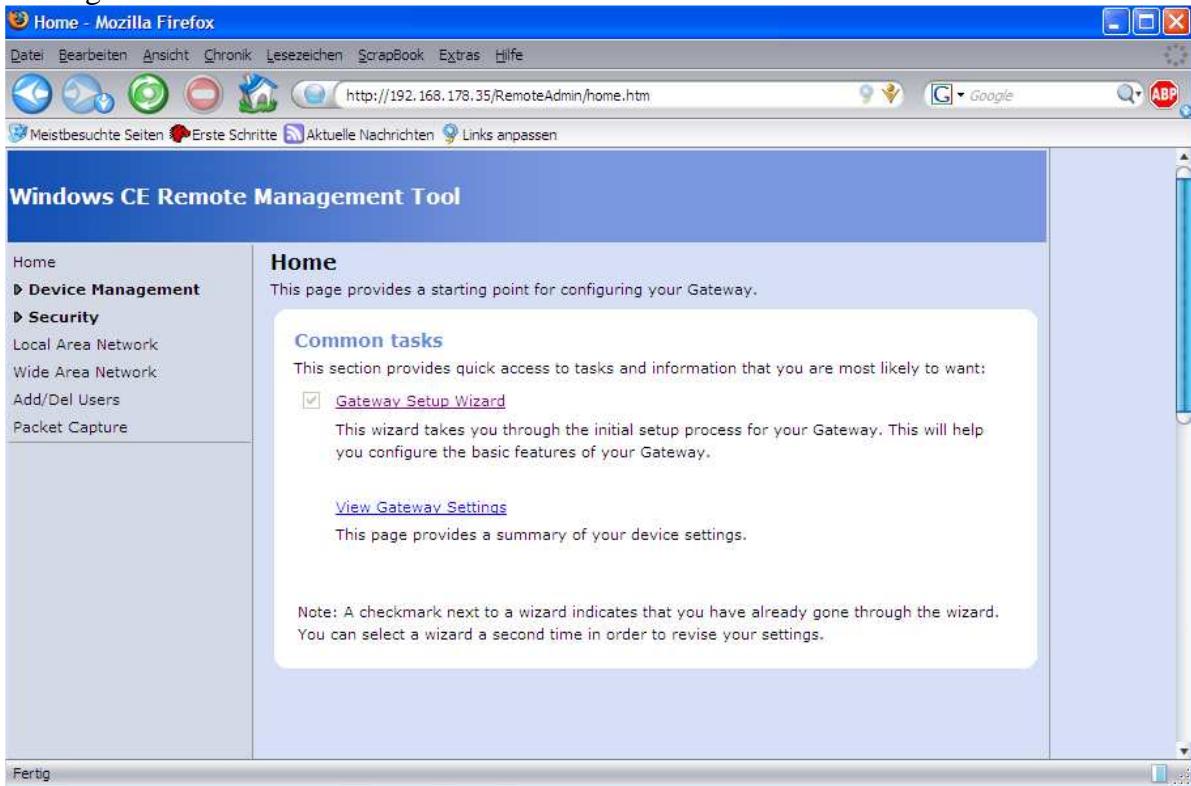
Kontron vertraulich	Formularstand: 18.11.2005	Dokument	CE60-Quick Manual_V01_E.doc
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Once completed you may be asked for a username and password

Username: ADMIN

Password: -> You set above !

After entering the RemoteAdmin/ Home Webside is shown



The screenshot shows a Mozilla Firefox browser window with the title "Home - Mozilla Firefox". The address bar displays "http://192.168.178.35/RemoteAdmin/home.htm". The main content area is titled "Windows CE Remote Management Tool" and shows the "Home" page. On the left, there is a sidebar with links: Home, Device Management (which is expanded), Security, Local Area Network, Wide Area Network, Add/Del Users, and Packet Capture. The main content area has a section titled "Common tasks" which includes a checked checkbox for "Gateway Setup Wizard". Below this, there is a link "View Gateway Settings" and a note: "This page provides a summary of your device settings." At the bottom of the content area, there is a note: "Note: A checkmark next to a wizard indicates that you have already gone through the wizard. You can select a wizard a second time in order to revise your settings." The status bar at the bottom of the browser window says "Fertig".

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12.2.2.1 Device Management

Reset the Gateway - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe
 http://192.168.178.35/RemoteAdmin/reset.htm
 Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

Home ▶ **Device Management** Reset Base Station Application Port Forwarding Back Up / Restore Settings Port Forwarding Virtual DMZ ▶ **Security** Local Area Network Wide Area Network Add/Del Users Packet Capture

Reset the Gateway

If you encounter connectivity problems to the Internet, first check that all network cables are properly attached. If they are, you may need to reset the Gateway. This process takes a few minutes to complete. When the reset is complete, you must logon to the Gateway. If resetting the gateway does not fix the issue, contact your ISP.

Reset

Fertig

Application-Triggered Port Forwarding - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe
 http://192.168.178.35/RemoteAdmin/ApplicationPortForwarding.htm
 Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

Home ▶ **Device Management** Reset Base Station Application Port Forwarding Back Up / Restore Settings Port Forwarding Virtual DMZ ▶ **Security** Local Area Network Wide Area Network Add/Del Users Packet Capture

Application-Triggered Port Forwarding

Some applications require that ports are opened dynamically to allow return traffic through the Gateway. You can specify the outbound port, and the protocol to use, to initiate the port mapping. You can also specify the inbound TCP and UDP ports to open when the trigger is seen. The inbound TCP and UDP port values may include multiple ports. Use the '-' character to designate the ranges, or the ',' character to separate entries.

Description	Outbound port	Trigger protocol	Inbound TCP port(s)	Inbound UDP port(s)
<input type="text"/>	<input type="text"/>	TCP	<input type="text"/>	<input type="text"/>

Add Clear

Enable	Description	Outbound port	Trigger protocol	Inbound TCP port(s)	Inbound UDP port(s)	Edit	Delete
--------	-------------	---------------	------------------	---------------------	---------------------	------	--------

Fertig

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Project: M@C IIA und MediClient A (B649) – WINCE 6.00

Settings V01

Department: R&D Systems customer: KEC



Back Up and Restore Settings - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe

http://192.168.178.35/RemoteAdmin/BackupRestore.htm

Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

Home ▶ Device Management
Reset Base Station Application Port Forwarding Back Up / Restore Settings Port Forwarding Virtual DMZ

▶ Security Local Area Network Wide Area Network Add/Del Users Packet Capture

Back Up and Restore Settings

Back up Gateway settings

To save the current Gateway settings to a file on this computer, click **Back Up Settings**.

Back Up Settings

Restore Gateway settings from a backup

Type the path and name of the backup file, or browse to the file, and then click **Restore Settings**.

Durchsuchen... **Restore Settings**

Fertig

Persistent Port Forwarding - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe

http://192.168.178.35/RemoteAdmin/persistent_port_forwarding.htm

Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

Home ▶ Device Management
Reset Base Station Application Port Forwarding Back Up / Restore Settings Port Forwarding

Virtual DMZ

▶ Security Local Area Network Wide Area Network Add/Del Users Packet Capture

Persistent Port Forwarding

To host a server on a client connected to your private LAN, configure your Gateway to perform persistent port forwarding. Specify the inbound port(s) you want to open and the IP address of the computer on your network that will act as a server. The Gateway will automatically send all data requests from the port(s) you specify to the server.

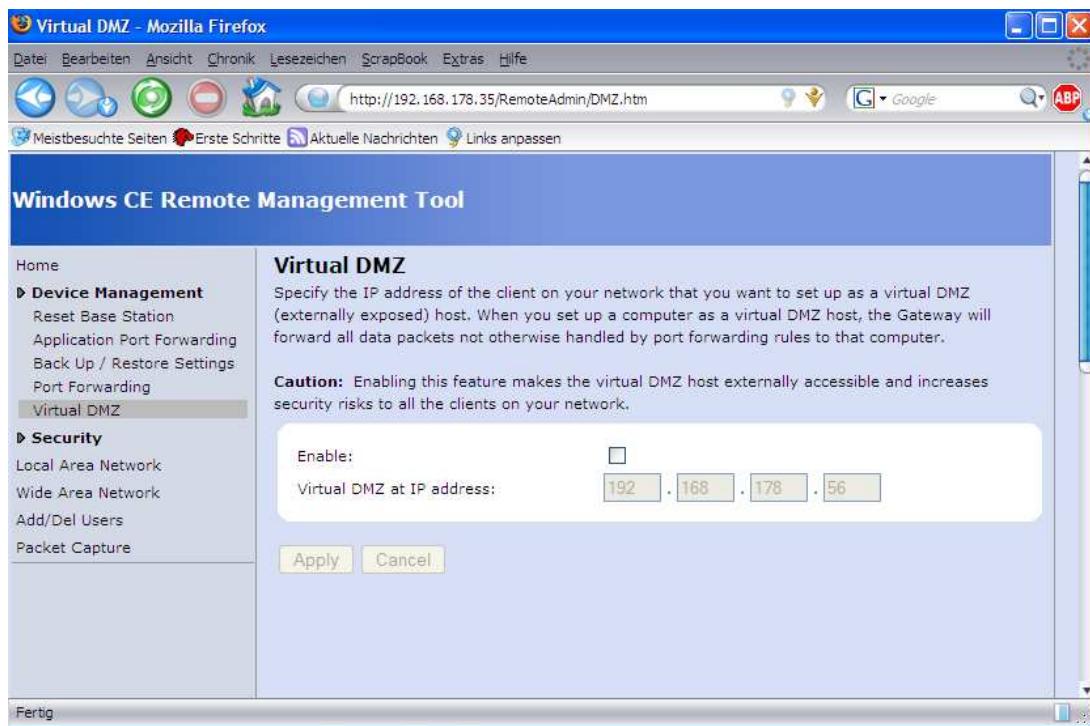
Description	Inbound port	Type	Private IP address	Private port
<input type="text"/>	<input type="text"/>	TCP	192 . 168 . 178	. 56

Add Clear

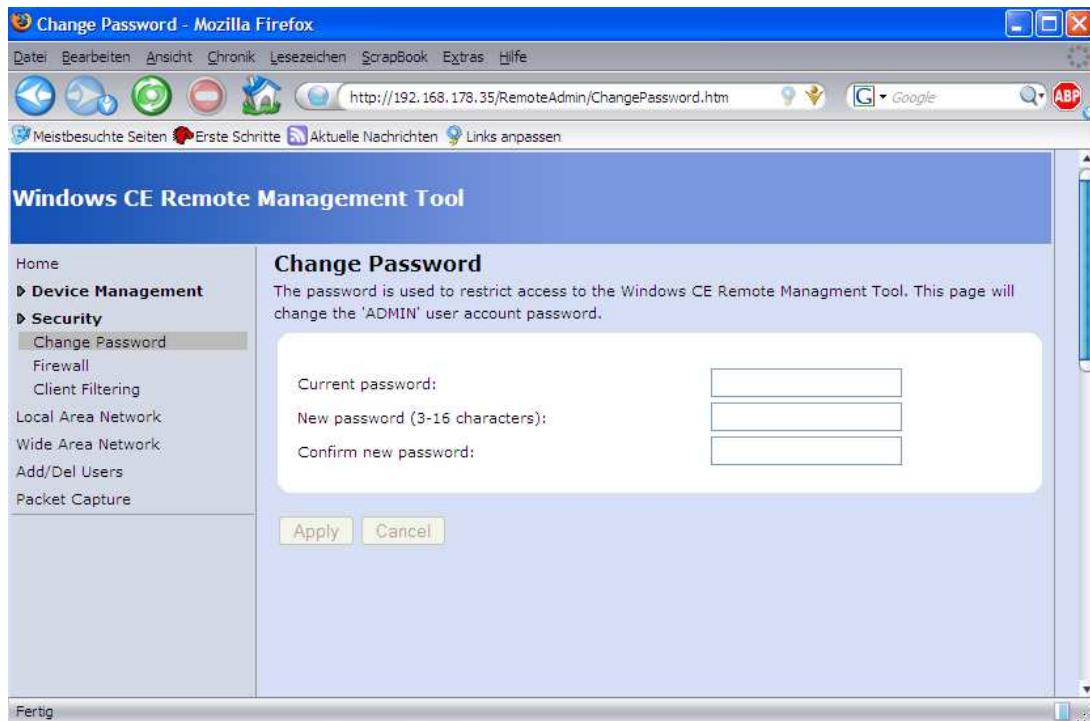
Enabled	Description	Inbound port	Type	Private IP address	Private port	Edit	Delete

Fertig

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12.2.2.2 Security



Firewall - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe
 http://192.168.178.35/RemoteAdmin/hacker_protection.htm Google ABP

Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

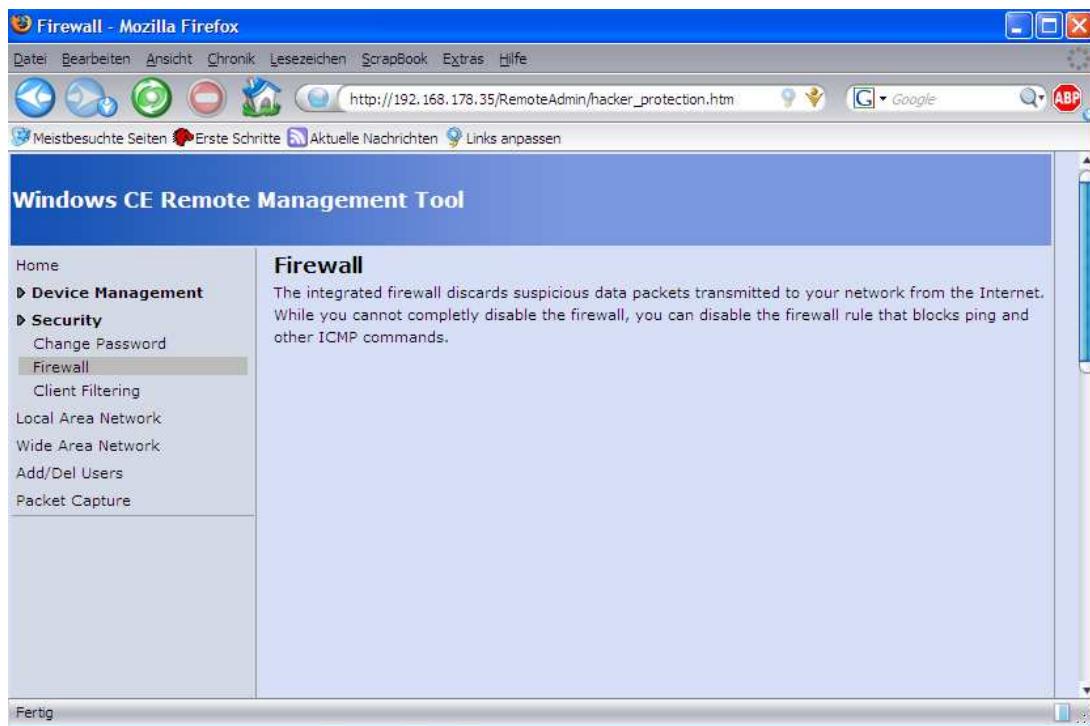
Firewall

The integrated firewall discards suspicious data packets transmitted to your network from the Internet. While you cannot completely disable the firewall, you can disable the firewall rule that blocks ping and other ICMP commands.

Device Management

- ▶ Security
- Change Password
- Firewall**
- Client Filtering
- Local Area Network
- Wide Area Network
- Add/Del Users
- Packet Capture

Fertig



Client Filtering - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen ScrapBook Extras Hilfe
 http://192.168.178.35/RemoteAdmin/ClientFiltering.htm Google ABP

Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten Links anpassen

Windows CE Remote Management Tool

Client Filtering

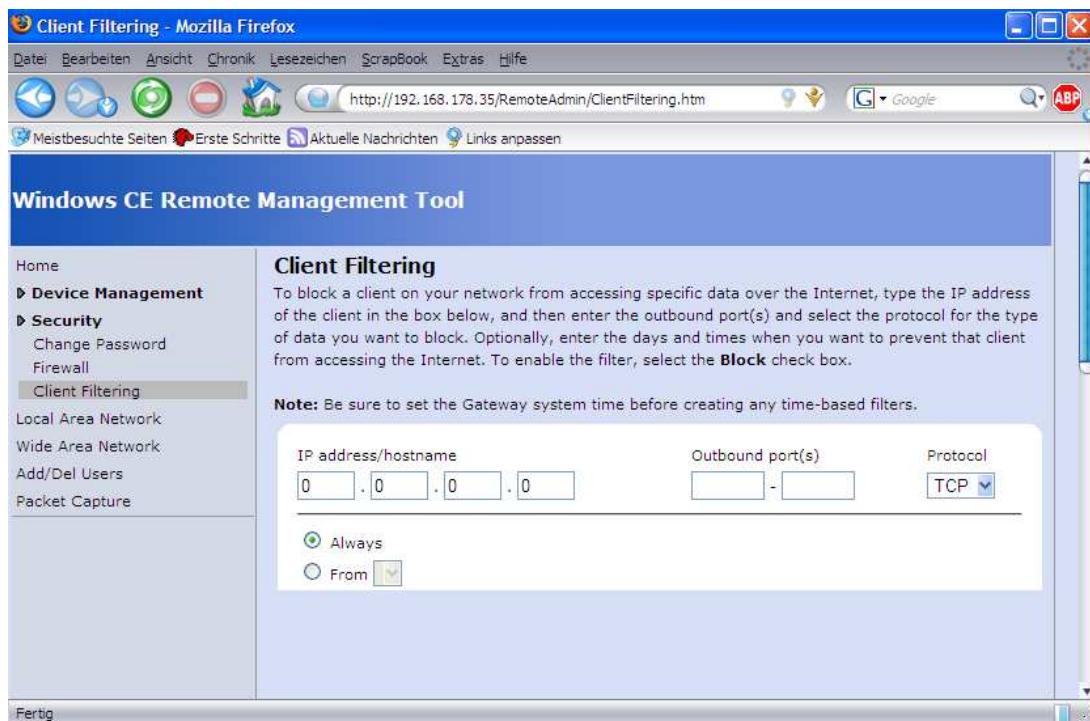
To block a client on your network from accessing specific data over the Internet, type the IP address of the client in the box below, and then enter the outbound port(s) and select the protocol for the type of data you want to block. Optionally, enter the days and times when you want to prevent that client from accessing the Internet. To enable the filter, select the **Block** check box.

Note: Be sure to set the Gateway system time before creating any time-based filters.

IP address/hostname	Outbound port(s)	Protocol
0 . 0 . 0 . 0	-	TCP

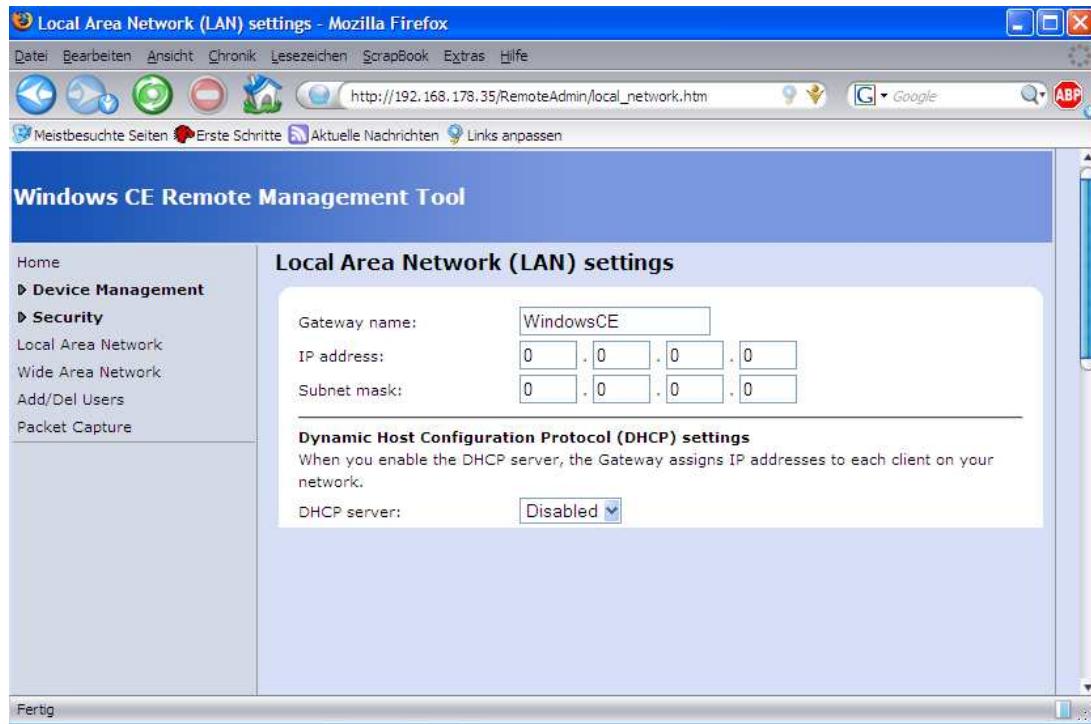
Always
 From

Fertig



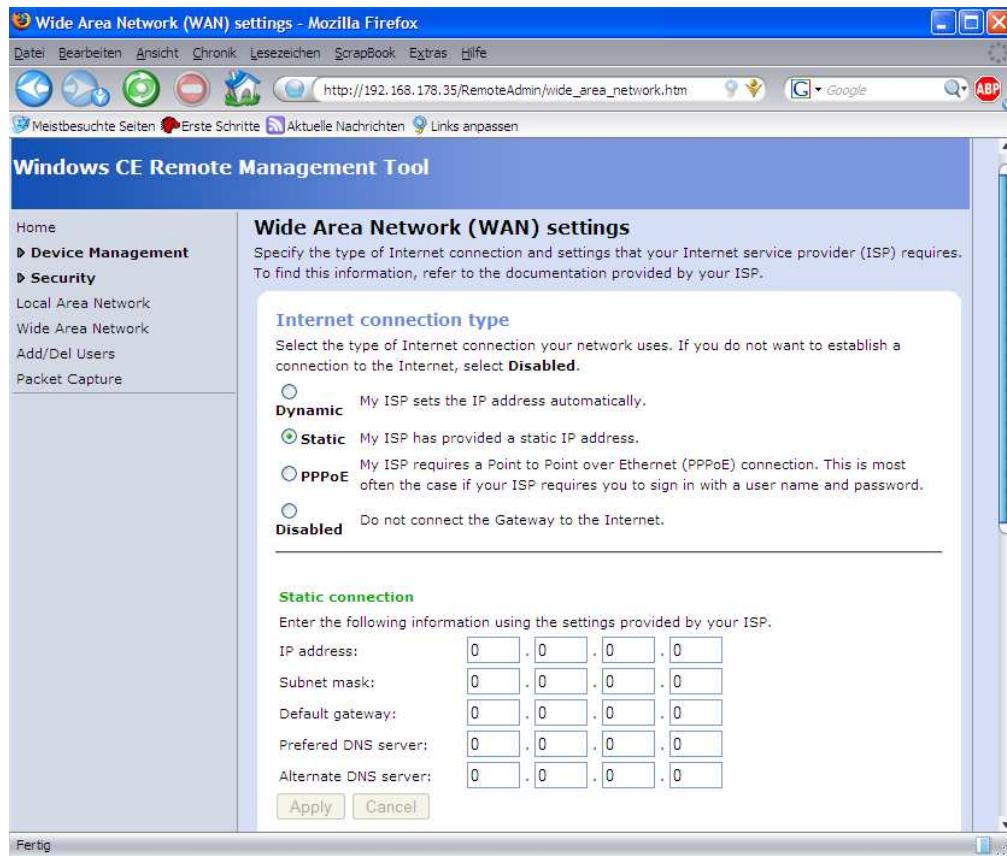
Kontron vertraulich	Formularstand: 18.11.2005			Dokument	CE60-Quick Manual_V01_E.doc	
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12.2.2.3 Local Area Network (LAN) settings

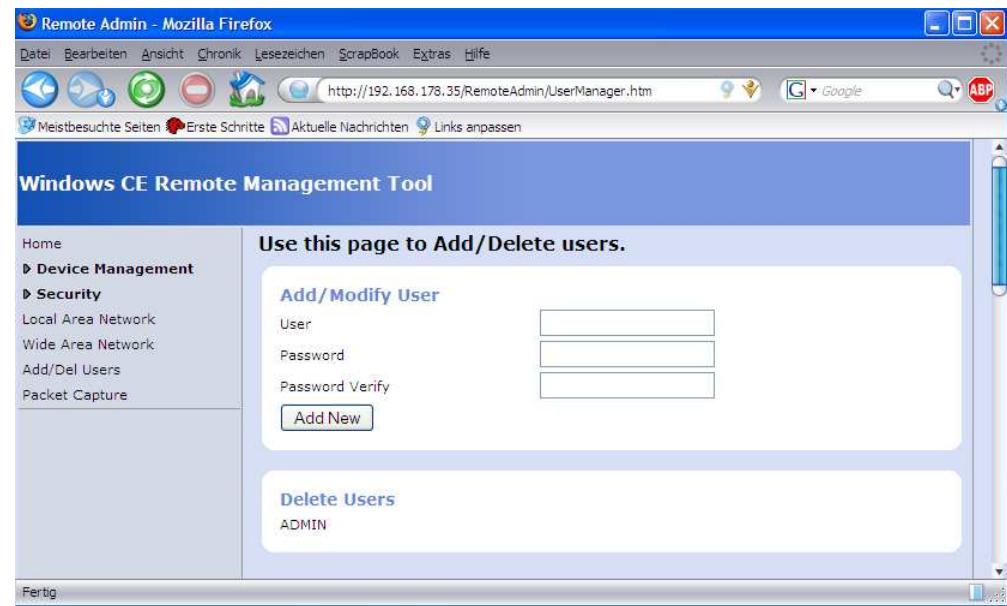


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12.2.2.4 Wide Area Network (WAN) settings

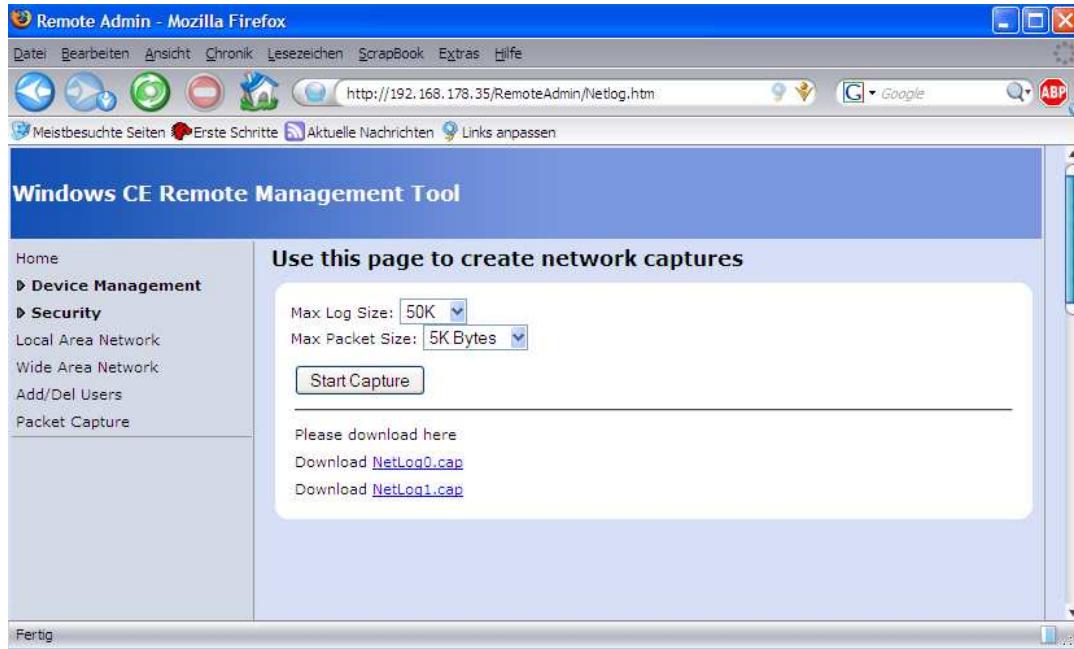


12.2.2.5 Add/Del Users settings



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12.2.2.6 Packet Capture



12.3 FTP Server (optional)

12.3.1 Howto Enable FTP server

Set the registry key "IsEnabled"=dword:00000001"

```
[HKEY_LOCAL_MACHINE\Comm\FTPD]
".IsEnabled"=dword:00000001
"UseAuthentication"=dword:00000001
"AllowAnonymous"=dword:00000001
"AllowAnonymousUpload"=dword:00000001
"AllowAnonymousVroots"=dword:00000000
"DefaultDir"="\\"
"IdleTimeout"=dword:0000012c
"DebugOutputChannels"=dword:00000002
"DebugOutputMask"=dword:00000017
"BaseDir"="\\Windows"
"LogSize"=dword:00001000
"UserList"="ADMIN"
"NoSystemInfo"=dword:00000000
```

Note:

- * By default the FTP server is disabled
- * The changing will be active after save the registry (Regsave.exe) and reboot the target

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12.4 Telnet Server (optional)**12.4.1 Howto Enable Telnet server****Set the registry key "IsEnabled"=dword:00000001"**

```
[ HKEY_LOCAL_MACHINE\Comm\TELNETD ]
"UseAuthentication"=dword:00000000
".IsEnabled"=dword:00000001
"UserList"="ADMIN"
```

Note:

- * By default the Telnet server is disabled
- * The changing will be active after save the registry (Regsave.exe) and reboot the target

12.5 Serveron\Serveroff - Testtool - (optional)

There is an Testtool from Kontron available which you can enable\disable the Webserver, FTP Server and the Telnetserver !

It is important that you launch the regsave.exe and reboot the target after launching the Testtools

NOTE: The Testtools only for Test !! Not for the PRODUCTION USING and Enduser customer !!!

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13 FAQ

13.1 Autostart the Remote Desktop (with password) (optional) (wince 5.0)

- press “Start” -> press “RUN” -> In the Open field type “cetscp.exe”
 - Press “Options >>”
 - Fill in : “Computer: ” ; “User name:”; “Password:” ; “Domain”
 - Activate “Save my password”
 - Press “Save As” and save the “default.rdp” file in “Storage Card”\Startup
- include in the startup.bat (\"Storage Card"\Startup) the two lines
 - copy \"Storage Card"\startup\default.rdp \
 - start cetscp.exe default.rdp

After Reboot the Target the RDP will be autostart and connect to the RDP server

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13.2 Activate Remote Desktop (RDP) Autologon (with password) – wince 6.00**13.2.1 Howto Autologon:**

- 1) Launch “Remote Desktop Connection”
- 2) Press “Options >>” Button
- 3) In “Computer:” textbar specify the Remote Desktop Computername (eg. Helmut)

Note: User name: None specified

The computer name field is blank . Enter a remote computer name.

After insert the remote computer name

Note: User name: None specified

You will be asked for credentials when you connect

- 4) After press the “Connect” Button the “Remote Desktop Connection” windows appears
In “user name:” text box type the user name of the Remote computer to connect
In “Password:” text box type the password of the Remote computer to connect

Mark the “Remember my password”
- 5) After press the “OK” Button a windows appear with the message
“The identity of the remote computer cannot be verified. Do you want to connect anyway ?

mark the “Don’t show the warning again for connections to this remote computer”
and press the “YES”
- 6) If all looks fine you should connect to the specified Remote Desktop
- 7) Close the session to the Remote Desktop Computer
- 8) Launch “Remote Desktop Connection” again
- 9) Press “Options >>” Button
- 10) In computer name field you see the Computername of the Remote computer

Note: User name: XXXXXX

The saved credentials for this remote computer will be used to connect.

You can delete or edit these credentials .

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11) Press “Save As....” Button and specify the name of the RDP file and save to storage device (eg. \Storage Card\startup\session.rdp)
With Press the “OK” Button the RDP file will be saved

12) After press the “Connect” Button the “Remote Desktop Connection” windows appears

In “user name:” field you see the computername\user name
In “Password:” field please enter again the password of the Remote computer to connect

Mark the “Remember my password”

13) If all looks fine you should connect to the specified Remote Desktop

14) Close the session to the Remote Desktop Computer

15) Press the “regsave.exe” on the desktop

16) Edit the startup.bat in the Startup folder to (optional)

\windows\cetsc.exe \Storage Card\startup\session.rdp

17) Reboot the target

18) After Boot the target following windows appear.

“Remote Desktop Connection”

Do you trust the computer you are connecting to?

Mark the “Allow access to your local clipboard”

Mark the “Don’t prompt me again for connections to this computer”

Then press the “Yes” button

19) Close the session to the Remote Desktop Computer

20) Press the “regsave.exe” on the desktop

21) After reboot the target -> RDP Autologon is enabled

Enjoy ☺

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13.2.2 \startup\startup.bat

```

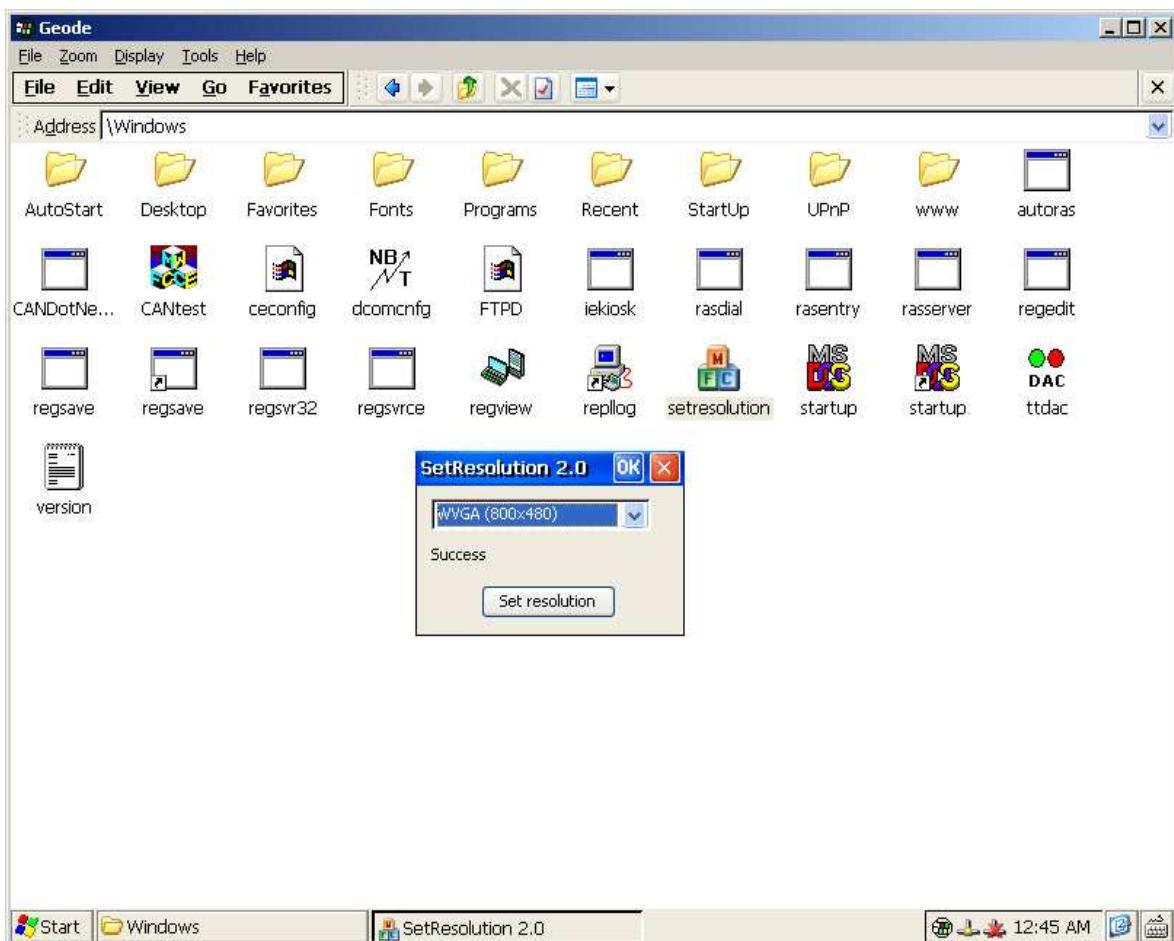
echo off
REM Kontron Embedded Computers GmbH      6.5.2008  HOs
REM
REM Batchfile for Autostart files after booting
REM which is not build in the image
REM
REM strategy:
REM 1) Make a directory on the HDD
REM 2) Copy the files in the directory
REM 3) Make a entry in the startup.bat, to start the Application automatically
REM
REM Example: start \"Storage Card"\App\App1.exe
REM
REM ;;;;;;;;;;;;;;;;;;;
REM ;;;;;;;;;;;;;;;;;;;
REM start "\Storage Card\example.exe"
REM start \windows\regview.exe
REM start "\windows\cetsc.exe \Storage Card\startup\session.rdp"
REM Autologon from Desktop
copy "\Storage card"\startup\startup.lnk  \windows\desktop

```

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13.3 Howto change the Resolution

- 1) Launch “setresolution” programm from the \windows folder



- 2) choice the resolution

WVGA (800x480) -> 7" Microclient 2
 SVGA (800x600) -> 10", 12" Microclient 2
 XGA (1024x768) -> 15" Microclient 2

- 3) Press the “ Set resolution” button and the resolution is saved in the registry
- 4) After reboot the new resolution is set

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13.4 SNTP client support (*Simple Network Time Protocol*) – optional

Synchronizing the clocks of the Target will be occurred if the SNTP client is active

Note: Default is SNTP active if implemented

```

HKEY_LOCAL_MACHINE\Services\TIMESVC]
"Dll"="timesvc.dll"
"Order"=dword:00000099
"Keep"=dword:00000001
"Prefix"="NTP"
"Index"=dword:00000000
"server"=hex(7):\n
    74,6f,63,6b,2e,75,73,6e,6f,2e,6e,61,76,79,2e,6d,69,6c,00,74,69,6d,65,2e,77,\n
    69,6e,64,6f,77,73,2e,63,6f,6d,00,00,00,00,00,00
"ServerRole"=dword:00000001
"UserProcGroup"=dword:00000002
"Flags"=dword:00000010
"multicastperiod"=dword:0036ee80
"multicast"=hex(7):\n
    32,32,34,2e,30,2e,31,2e,31,20,66,66,30,35,3a,3a,31,30,31,00,00,00,00,00
"ClientOnly"=dword:00000001
"trustlocalclock"=dword:00000000
"threshold"=dword:000d2f00
"refresh"=dword:000493e0
"recoveryrefresh"=dword:000493e0
"AutoUpdate"=dword:00000001

AutoUpdate = 1 -> SNTP activated
AutoUpdate = 0 -> SNTP deactivated

```

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