TC CLOUD CLIENT 1002-4G...

Cloud client for North American mobile networks (Verizon or AT&T)

Data sheet 107731_en_03

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1 Description

The **TC CLOUD CLIENT...** devices are industrial VPN gateways which connect your machines to the mGuard Secure Cloud securely via the Internet. The devices enable access to the cloud via the 4G mobile network.

The devices are optimized for use with the mGuard Secure Cloud. All TC CLOUD CLIENT devices therefore support Virtual Private Networks (VPNs) as standard.

You can configure the devices via the

mGuard Secure Cloud. The devices are immediately ready for use in the machine. This enables quick startup in the field and error-free, autonomous operation.

mGuard Secure Cloud

mGuard Secure Cloud constitutes a high-performance and scalable VPN infrastructure in the cloud, which connects service staff with machines and systems via the Internet.

mGuard VPN technology uses the IPsec security protocol with strong encryption. This ensures the confidentiality, authenticity, and integrity of all data transmitted between the service technicians and the machines.

Features

- Secure communication via IPsec
- Configuration via web-based management or microSD card

- Two local Ethernet connections
- Switching input and switching output
- Cloud-based VPN infrastructure from Phoenix Contact
- Turnkey VPN infrastructure for operators, machine builders, and systems manufacturers
- Secure and reliable, thanks to industry-proven mGuard security technology
- Support for mobile, iOS-based devices, such as Apple iPads and iPhones

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The devices are intended for use in the USA. Please also refer to 6 "Countries of use".

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Make sure you always use the latest documentation. It can be downloaded at: phoenixcontact.net/product/2702887



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3 Ordering data

Description	Туре	Order No.	Pcs./Pkt.
Industrial VPN gateway for mGuard Secure Cloud, 2 Ethernet interfaces, cloud communication via 4G LTE, Verizon wireless (US), IPsec support, NAT, 1 digital input, 1 digital output	TC CLOUD CLIENT 1002-4G VZW	2702887	1
Industrial VPN gateway for mGuard Secure Cloud, 2 Ethernet interfaces, cloud communication via 4G LTE, AT&T (US), IPsec support, NAT, 1 digital input, 1 digital output	TC CLOUD CLIENT 1002-4G ATT	2702888	1
Accessories	Туре	Order No.	Pcs./Pkt.
Primary-switched power supply unit, TRIO POWER, push-in connection, DIN rail mounting, output: 24 V DC / 3 A	TRIO-PS-2G/1AC/24DC/3/ C2LPS	2903147	1
PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 5, pitch: 3.81 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin	FK-MCP 1,5/ 5-ST- 3,81GY35BD1-5	1015782	50
Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces Connection: Male/female SMA connectors.	CSMA-LAMBDA/4-2.0-BS- SET	2800491	1
Mobile network antenna cable, 5 m in length, SMA (male) -> SMA (female), 50 ohm impedance	PSI-CAB-GSM/UMTS- 5M	2900980	1
Mobile network antenna cable, 10 m in length, SMA (male) -> SMA (female), 50 ohm impedance	PSI-CAB-GSM/UMTS-10M	2900981	1
Multiband mobile communication antenna for wall mounting, 0.5 m antenna cable, with SMA circular connector, suitable for LTE/4G	TC ANT MOBILE WALL 0,5M	2702274	1
Operation of the wireless system is only permitted when using accessories available from Pheenix Contact			



Operation of the wireless system is only permitted when using accessories available from Phoenix Contact. The use of any other components can lead to the withdrawal of the operating license.

You can find the approved accessories for this wireless system listed with the item at <u>phoenixcontact.net/</u><u>products</u>.

4 Technical data

Supply			
Supply voltage range	10 V DC 30 V DC (SELV)		
Typical current consumption	< 200 mA (24 V DC) 65 mA with activated energy-saving mode)		
Electrical isolation	VCC // LTE // Ethernet // PE		
Use copper wires rated 85 °C.			
Functions			
Management	Web-based management, SNM	MP	
Number of VPN tunnels	1		
1:1 Network Address Translation (NAT) in the VPN	Supported		
Encryption methods	3DES, AES-128, -192, -256		
Internet Protocol Security (IPsec) mode	ESP tunnel		
Authentication	X.509v3, PSK		
Data integrity	MD5, SHA-1		
Dead peer detection (DPD)	RFC 3706		
Ethernet interface, 10/100Base-T(X) in acc, with IEEE	802.3u		
Number of ports	2 (SELV)		
Connection method	RJ45 socket, shielded		
Serial transmission speed 10/100 Mbps, auto negotiation			
ansmission length 100 m (shielded twisted pair)			
Protocols supported	ocols supported TCP/IP, UDP/IP, FTP, HTTP		
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP		
Wireless interface	TC CLOUD CLIENT 1002-4G VZW	TC CLOUD CLIENT 1002-4G ATT	
Interface description	LTE (FDD)	LTE (FDD) / UMTS	
Frequency	700 MHz (LTE B13) 1700 MHz (LTE B4)	850 MHz (UMTS/HSPA B5) 1900 MHz (UMTS/HSPA B2) 700 MHz (LTE B13 / B17) 850 MHz (LTE B5) 1700 MHz (LTE B4) 1900 MHz (LTE B2)	
Data rate	≤ 150 Mbps (LTE (DL)) ≤ 50 Mbps (LTE (UL))	≤ 150 Mbps (LTE (DL)) ≤ 50 Mbps (LTE (UL))	
Antenna	50 Ω impedance SMA antenna socket	50 Ω impedance SMA antenna socket	
SIM Interface	1.8 volt, 3 volt	1.8 volt, 3 volt	
UMTS		HSPA 3GPP R9	
LTE	CAT4	CAT4	

Digital input	
Number of inputs	1
Input signal, voltage	10 V DC 30 V DC
Switching level "1" signal	10 V DC 30 V DC
Digital output	
Number of outputs	1 (resistive load)
Output signal, voltage	10 V DC 30 V DC (depending on the operating voltage)
Output signal, current	\leq 50 mA (not short-circuit proof)
General data	
Degree of protection	IP20 (manufacturer's declaration)
Degree of pollution	2 (indoor use only)
Dimensions (W/H/D)	45 mm x 130 mm x 126 mm
Housing material	Plastic gray
Vibration resistance in acc. with EN 60068-2-6/ IEC 60068-2-6	5g, 10150 Hz, 2.5 h, in XYZ direction
Shock in acc. with EN 60068-2-27/IEC 60068-2-27	15g
Noise immunity according to	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Ambient conditions	
Ambient temperature (operation)	0 °C 60 °C
Ambient temperature (storage/transport)	0 °C 60 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Approvals / Certificates	
UL, USA/Canada	Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc Class I, Div. 2, Groups A, B, C, D T4
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A

Conformance with EMC Directive 2014/30/EU			
Noise immunity according to EN 61000-6-2			
Electrostatic discharge	EN 61000-4-2		
	Contact discharge	± 6 kV (Test Level 3)	
	Discharge in air	± 8 kV (Test Level 3)	
	Comments	Criterion B	
Electromagnetic HF field	EN 61000-4-3		
	Frequency range	80 MHz 3 GHz (Test Level 3)	
	Field intensity	10 V/m	
	Comments	Criterion A	
Fast transients (burst)	EN 61000-4-4		
	Input	± 2 kV (Test Level 3)	
	Signal	± 2 kV (Ethernet)	
	Comments	Criterion B	
Surge current loads (surge)	EN 61000-4-5		
	Input	± 0.5 kV (symmetrical) ± 1 kV (asymmetrical)	
	Signal	± 1 kV (data line, asymmetrical)	
	Comments	Criterion B	
Conducted interference	EN 61000-4-6		
	Frequency range	0.15 MHz 80 MHz	
	Voltage	10 V	
	Comments	Criterion A	
Emitted interference in acc. with	EN 61000-6-4		
Emitted Interference in acc. With EN 61000-6-4		Class B area of application: Industry and residential	
Emitted radio interference in acc. with EN 55011		Class B, area of application: Industry and residential	
Criterion A Normal operating behavior within the spec		pecified limits	
Criterion B Temporary impairment of operating behavior that is corrected by the device itself			
Conformance with RED Directive	2014/53/EU		
EMC - immunity to interference (electromagnetic compatibility of wireless systems)		EN 61000-6-2, Generic standard for the industrial sector	
Safety - protection of personnel with regard to electrical		EN 60950	

safety	
Health - limitation of exposure of the population to electromagnetic fields	EC Gazette 1999/519/EC, EC Council recommendation of July 12, 1999
Radio - effective use of the frequency spectrum and prevention of radio interference	DIN EN 301511

5 Safety notes

5.1 Intended use

Installation is only permitted in countries that allow the operation of wireless devices in this frequency band and supply range.

The devices are only for export outside of the European Economic Area.

5.2 Safety notes



CAUTION:

Observe the following safety notes when using the device.

- Installation, operation, and maintenance may only be carried out by qualified electricians. Follow the installation instructions as described.
- When installing and operating the device, the applicable regulations and safety directives (including national safety directives), as well as general technical regulations, must be observed. The technical data is provided in the package slip and on the certificates (conformity assessment, additional approvals where applicable).
- The device must not be opened or modified. Do not repair the device yourself, replace it with an equivalent device. Repairs may only be carried out by the manufacturer. The manufacturer is not liable for damage resulting from violation.
- The IP20 protection (IEC 60529/EN 60529) of the device is intended for use in a clean and dry environment. The device must not be subject to mechanical strain and/or thermal loads, which exceed the limits described.
- The device is designed exclusively for SELV operation according to IEC 60950-1/EN 60950-1/VDE 0805. The device may only be connected to devices, which meet the requirements of EN 60950-1.
- The device complies with the EMC regulations for industrial areas (EMC class A). When using the device in residential areas, it may cause radio interference.
- Operation of the wireless system is only permitted when using accessories available from Phoenix Contact. The use of any other components can lead to the withdrawal of the operating license.
- You will find the approved accessories for this wireless system listed with the product at <u>phoenixcontact.net/</u> products.

5.3 UL warning instructions



WARNING: Explosion hazard when used in potentially explosive areas

Please make sure that the following notes and instructions are observed.

- Use copper wires rated 85°C.
- If the equipment is used in a manner not specified, the protection provided by the equipment may be impaired.
- This device has to be built in an enclosure (control box).
- External circuit from SELV supplied
- SELV Limited energy according to UL/IEC/EN 61010-1 or NEC class II
- This equipment must be mounted in an enclosure certified for use in Class I, Zone 2 minimum and rated IP54 minimum in accordance with IEC 60529 when used in Class I, Zone 2 environment.
- Device shall only be used in an area of not more than pollution degree 2.

c (UL)	U
LISTED	

Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc IS Class I, Division 2, Groups A, B, C and D T4 Input: 10 - 30 V DC, max. 1.7 A ----

IND.CONT.EQ. FOR.HAZ.LOC. E366272



6 Countries of use

USA

The TC CLOUD CLIENT 1002-4G VZW/ATT devices are intended for use in the US 4G mobile networks of Verizon or AT&T.

Europe

The TC CLOUD CLIENT 1002-4G VZW/ATT devices are only for export outside of the European Economic Area. Use the following devices in Europe:

- TC CLOUD CLIENT 1002-4G, 2702886

Only these devices have all the necessary approvals for use in Europe.

Other countries

If the required general conditions are met, the US devices may be used in other countries.



For an initial idea of which frequency bands are available in your country of use, visit www.frequencycheck.com.

- Verify with your provider whether one of the following frequency bands is available:
- TC CLOUD CLIENT 1002-4G VZW
 - LTE, CAT4, B4
 - LTE, CAT4, B13
- TC CLOUD CLIENT 1002-4G ATT
 - LTE, CAT4, B2
 - LTE, CAT4, B4
 - LTE, CAT4, B5
 - LTE, CAT4, B13
 - LTE, CAT4, B17
- Verify with your provider whether there is network coverage at the installation location.
- Verify with your provider whether the device is approved for operation at the installation location.

7 Product description



Figure 1 Function elements

- 1 LAN interface 1
- 2 LAN interface 2
- 3 SMA antenna connection 1, primary antenna
- 4 SMA antenna connection 2, secondary antenna
- 5 COMBICON plug-in screw terminal block
- 6 SIM interface
- 7 Slot for micro SD card
- 8 TS-LED
- 9 ERR-LED
- 10 US-LED

Status and diagnostics indicators

Us	Power	Green
	On	Supply voltage present
ERR	Error	Red
	Off	Registered on the network
	Flashing	SIM card not inserted, SIM error (e.g. PIN or PUK locked)
	On	Searching for cellular network
TS	Teleservice	Yellow
	On	The teleservice connection (VPN) to the mGuard Secure Cloud is established.

Reset button

The reset button can be used to reset the device to the default settings.

IP address: H Subnet mask: 2 User name: a Password: a

https://192.168.0.1 255.255.255.0 admin admin

- Press and hold down the reset button.
- Disconnect the Ethernet cable from the LAN connection.
- Reconnect the Ethernet cable to the LAN connection.
- Press and hold down the reset button for a further five seconds.

8 Transport and unpacking

- Check the delivery for visible damage caused by transportation.
- Submit claims for any transport damage immediately. Inform Phoenix Contact or your supplier as well as the shipping company without delay.
- Read the complete packing slip carefully.
- Retain the packing slip.
- Keep the packaging for a possible later transport.

9 Mounting



NOTE: device damage Only mount and remove devices when the power supply is disconnected.

9.1 Mounting on a DIN rail



Figure 2 Mounting

The device is intended for installation in a control cabinet.

- To avoid contact resistance, only use clean, corrosionfree 35 mm DIN rails according to DIN EN 60715.
- Place the device onto the DIN rail from above. Push the module from the front toward the mounting surface until it audibly engages.
- Connect the DIN rail to protective earth ground ([⊥]/₂).

9.2 Removal



Figure 3 Removal

- Push down the locking tab with a screwdriver, needlenose pliers or similar.
- Slightly pull the bottom edge of the device away from the mounting surface.
- Pull the device away from the DIN rail.

10 Connecting the cables

10.1 Power supply



CAUTION: Electric shock

The device is only intended for operation with SELV according to IEC 60950/EN 60950/VDE 0805.



Figure 4 Connecting the supply voltage

• Connect the supply voltage to the plug-in screw terminal to 24 V and 0 V. Observe the polarity.

10.2 Twisted pair interface (TP port)

- Only twisted pair cables with an impedance of 100Ω can be connected to the RJ45 Ethernet interfaces.
- Only use shielded twisted pair cables and matching shielded RJ45 connectors.
- Insert the Ethernet cable with the RJ45 plug into the TP interface until the plug engages audibly. Observe the plug keying.

10.3 Switching input and switching output



Figure 5 Switching input and switching output

- To start the VPN connection, you can connect to the switching input 10 ... 30 V DC.
- Switching output DO is designed for a maximum of 50 mA at 10 ... 30 V DC. This is how a VPN connection can be signalled.
- The connection cables for the switching input and the switching output must not be longer than 30 meters.
- You must connect the 0 V potential of the switching inputs and outputs to the "0 V" terminal of the voltage supply connection.

10.4 Antennas



Figure 6 Connect the antenna

- To achieve optimum reception, connect two suitable antennas to the antenna connections.
- The antenna cable must not be longer than 5 meters.
- Fix the antenna in place when reception is good or very good.

11 Insert the SIM card





Remove SIM card holder



Figure 8 Insert the SIM card

You will receive a SIM card from the provider on which all data and services for your connection are stored.

- Push the yellow release button with a pointed object.
- Remove the SIM card holder.
- Insert the SIM card so that the SIM chip remains visible.
- Insert the SIM card holder together with the SIM card into the device until this ends flush with the housing.

12 Configuration and startup

- Log on to the mGuard Secure Cloud (start.cloud.mguard.com).
- Connect the configuration computer to one of the LAN ports.
- Now establish the connection via the following IP address: https://192.168.0.1 (subnet: 255.255.255.0).





Figure 9 Login window

This page protects the area in web-based management where settings are modified. To log into the device, click on "Login".

- User name: admin
- Password: admin

12.1 Device status (Device information)

You can also access this page with the user login. The page displays information about the hardware, software, and device status.

Hardware

TC CLOUD CLIENT 1002-49	Hardware information	
17 01 886	Address	PHOENEX CONTACT GmbH & Co. KS 32525 Blomberg Germany
5 m	Internet	phoeniscentact.com
18m	Type	TC CLOUD CLIENT 1002-4G
	Circler No.	27 02 886
5-	Serial number	3034068405
2-1 10	Hardware	Rev: C
	Release version	2.03.5
	Operating system	Unex 2.8.39.4
	Web-based management	1.67.2
Device Information	HAC address LAN	00-40-45-04-89-70
* Hardware	Rado engine	ME9099-120
* Sativan	Radio firmware	11.617.01.00.00
Status	DHEI	667377020300475
Wireless metwork		
Settern		

Figure 10 Device information, Hardware

Device information, Hardware		
Address	Address of the manufacturer	
Internet	Website address of the manufacturer	
Туре	Product designation	
Order No.	Order No.	
Serial number	Serial number	
Hardware	Hardware version	
Release version	Release version of the software	
Operating	Operating system version	
system		
Web-based	Web-based management version	
management		
MAC address	MAC address for unique identification of	
LAN	an Ethernet device in a computer	
	network	
Radio engine	Radio engine used	
Radio firmware	Firmware version of the radio engine	
IMEI	International Mobile Station Equipment	
	Identity, 15-digit serial number that is	
	used to clearly identify each mobile	
	network device	

12.2 Status

Radio



Figure 11 Status, Radio

Status, Radio	
Provider	Name of the provider
Network status	Status of the mobile network
	Registered home: logged into the
	provider's home network
	Roaming : dial-in via an external mobile network
	Waiting for PIN: enter the PIN.
	Waiting for PUK: SIM card locked
	because an incorrect PIN was entered
	three times, PUK entry required
	Wrong PIN: wrong PIN stored in device
	No SIM card: SIM card not inserted
	Busy: radio engine starting
	Power off: radio engine switched off
Signal level	Signal strength as a dBm value and bar
Packet data	Offline: no packet data connection in
	the mobile network
	UMTS online: active packet data
	connection in the 3G mobile network via UMTS
	HSDPA/UPA online: active packet data
	connection in the 3G mobile network via HSDPA/UPA
	HSDPA/UPA is a further development of
	the UMTS network with a higher data
	transmission speed.
	LTE online: active high-speed packet
	connection in the 4G mobile network via
IMSI	International Mobile Subscriber Identity,
	number used to clearly identify the user
	of a network
Local area code	Area code in the mobile network
Cell ID	Unique mobile phone cell ID

Network connections

		(NATELA)	
TE CLOUD CLIMIT 1002-49	Network connections		
27 02 809	Wireless network		
1000	Link.	VPN connected	
ALL S	IP address	100.84.49.202	
	Netrmask	255.255.255.252	
1 m m	DNS server	139.7.30.126	
	Sec. DItS server	139.7.30.125	
2.	Explines	517 515 sec.	
4 1	AX bytes	302136	
	TX bytes	74 346	
A CONTRACTOR DO LOS CO	Local network		
Oavice Information	LAN 1	Connected	
Status	LoN 3	Not connected	
* Radia	IP address	192.168.1.1	
 Network connectance IPpec status L/O status 	fiatmask	255,255,255,0	
Wireless network			
System			
5.mpaul			

Figure 12 Status, Network connections

Status, Networl	k connections
Wireless netwo	rk
Link	TCP/IP connected: active packet data
	connection in the mobile network
	You can transmit data via TCP/IP.
	VPN connected: active VPN connec-
	tion in the mobile network
	You can transmit encrypted data.
	Not connected: no packet data connec-
	tion in the mobile network, no data trans-
	mission
IP address	IP address assigned by the provider
Netmask	Netmask assigned by the provider
DNS server	IP address of the DNS server
Sec. DNS	IP address of the alternative DNS server
server	
Expires	Time after which the IP settings as-
	signed by the provider expire
	(IP address, netmask, DNS server)
RX bytes	Sum of data received since last login to
	the mobile network
TX bytes	Sum of data sent since last login to the
	mobile network
Local network	
LAN 1/2	Connected: LAN 1/2 connected
	Not connected: LAN 1/2 not connected
IP address	Current IP address
Netmask	Netmask of the local Ethernet network

VPN connection (IPsec status)

TC CLOUD CLIENT 1202-45	IPsec status			
	Active IPsec connections			-
and the second s	Name	Remote host	ISAKPP SA	IPsac SA
Device Information				
 Statue Kodio Nativanii connections Tiree status 3/ree status 				
 Wireless network 				



Status, IPsec st	atus
Active IPsec	Status of the active teleservice connec-
connections	tion (VPN)

I/O status

This page shows current status information and the configuration of the inputs and outputs.

LICONTACT		IP andress: 101.10	08.1.1	
TC CLOUD CLIBHT 1002-46	1/0 status			
27.02.000	Input			
1311	#1	Low	fiche	
0 00	Output			
itere .	#3	On .	VPN service	
Status * Radio * Noticeli connections * Urber status * Urb status Windess network				
and the second				
5/576/17				

Figure 14 Status, I/O status

12.3 Wireless network

Radio setup



Figure 15 Wireless network, Radio setup

Wireless netwo	rk, Radio setup
UMTS freq.	UMTS frequency range in which the device should operate In addition, you can deactivate UMTS: "UMTS off"
LTE band	LTE frequency band in which the device should operate In addition, you can deactivate LTE: "LTE off"
Provider timeout	Period of time after which the radio engine restarts in the event of the failure or unavailability of the mobile network (in minutes)
Daily relogin	Disabled: daily login deactivated Enabled: daily login activated
Time	Time at which the device logs out of the mobile network under controlled conditions and logs in again

SIM



Figure 16 Wireless network, SIM

Wireless netwo	ork, SIM
Country	Country in which the device is dialing into the GSM network This setting limits the selection under Provider.
PIN	Enter the PIN for the SIM card. The PIN can be overwritten. It is not possible to read the PIN.
Roaming	If roaming is activated (default), you can select a specific provider from the "Provider" menu.
	Enabled: the router can also dial-in via external networks. If "Auto" is set under "Provider", the strongest provider is selected. Depending on your contract, this may incur additional costs. Alternatively, you can specify a provider.
	Disabled: roaming is deactivated. The device only uses the provider's home network. If this network is unavailable, the device cannot establish an Internet connection.
Provider	Select a provider via which the device is to establish the Internet connection. If you have selected a country under "Country", this limits the selection. Auto: the router automatically selects the provider using the SIM card.
User name	User name for packet data access The user name and password can be obtained from your provider. This field may be left empty if the provider does not require a special input.
Password	Password for packet data access This field may be left empty if the provider does not require a password.

Wireless netwo	rk, SIM
APN	The APN can be obtained from your provider. APN (Access Point Name) is the name of a terminal point in a packet data network. The APN enables access to an external data network. At the same time, the APN specifies the network to which a connection will be established. In the case of a public APN, the connection is usually established to the Internet. The device supports public and private APNs.
Authentication	Select the protocols for logging into the provider:
	None: the provider's APN does not require login (default).
	Refuse MSCHAP: MSCHAP is not
	accepted.
	CHAP only: only CHAP is accepted.
	PAP only: only PAP is accepted.

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12.4 System

Connection setup (IP configuration)

	Patrice 152 161.1	Fernande 2.02
TC CLOUD CLIENT 1882-45 27 02 886	IP configuration Current address	
1000	D [®] address	192.168.1.1
9.4	Subret mask	255 255 255 0
12.10	MTU (default 1500)	1414
	Type of the IP address assignment	* Static DHCP
Device information Status		
vitreless network		
* IP configuration		
+ Loo He		
* Load certiguration • Data/time		
Load configuration Date/time Hidsoot		

Figure 17 System, IP configuration

System, IP conf	iguration
IP address	Current IP address
Subnet mask	Subnet mask for the current IP address
MTU (default 1500)	Maximum Transmission Unit (MTU) is the maximum packet size, in bytes, in the mobile network
Type of the IP address assignment	Static (default): the IP address is assigned permanently, fixed IP. DHCP: when the device is started, the IP address and the subnet mask are as- signed dynamically by a DHCP server.

Log file

The log file can be used to diagnose various events and operating states. The log file is a form of circulating storage where the oldest entries are overwritten first.



Figure 18 System, Log file

System, Log file	
Clear	Delete all entries in the log file
View	View log file in the browser window
Save	Save log file as text file on local computer

Load configuration

You can save the active configuration to a file and load prepared configurations.

TC CLOUD CLIBIT 1083-4G	Load configura	tion	
27 02 004	Upload •	Date avenablen Keine ausgenahlt	Hesty
	Reset to factory	fefailts	Apple
* Device Information			
 Device information Status 			
 Device information Status Windess network 			

Figure 19 System, Load configuration

System, Load configuration		
Upload	To load a configuration from the microSD card, select the "SD card" option under "Upload". Import a saved configuration. Click on "Apply" to load the selected configura- tion.	
Reset to factory defaults	Click on "Apply" to reset the device to the default state upon delivery. This will reset all settings, including IP settings. Imported certificates remain unaltered.	

Set time and date (Date/time)

TC CLOUD CLIENT 1002-49	Date/time		
27 02 004	System sine	2017-04-07-07-31	5et
1201	Time synstronisation	# Disabled @ Enabled	
in .	NTP server	europe pool rtp. org	
1		Cocal III Wireless network	
1	Time zone	(GMT+01.00) Amsterdam, Berlin,	Ben •
	Daylight saving time	Disabled * Enabled	
Device Information		Apply	Refresh
1 Status			
+ Wireless network			
System IP configuration Log Re Last configuration Date time Reboot			

Figure 20 System, Date/time

System, Date/ti	me
System time	Here you can set the time manually if no NTP server has been set up or the NTP server cannot be reached.
Time synchronisation	Enabled: the cloud client synchronizes the time and date with a time server. Ini- tial time synchronization can take up to 15 minutes. During this time, the cloud client continuously compares the time data of the external time server and that of its own clock. The time is therefore adjusted as accurately as possible. Only then can the cloud client act as the NTP server for the devices connected to the LAN interface. The cloud client then pro- vides the system time.
NTP server	NTP = Network Time Protocol
Time zone	Select the time zone.
Daylight saving time	Enabled: daylight savings is taken into account. Disabled: daylight savings is not taken into account.

Restart device (Reboot)

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Device information Status Wireless network								

Figure 21 System, Reboot

System, Reboot		
Reboot NOW!	Any active data transmissions will be aborted. Do not trigger a reboot while data transmission is active.	
Daily reboot	Define the day of the week on which the device will be restarted at the specified time.	
Time	Time specified in Hours:Minutes	

Firmware update

		Neme: TC CLOUD CLIENT SDSI-45 17 address: 152 155.1.1	Pressent 2.53
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Figure 22 System, Firmware update

System, Firmware update		
Device firmware update	Updates ensure that you can benefit from function extensions and product updates.	
Package update	If necessary you can also just update individual functions.	

Install firmware update:

- Select the update file with the extension *.fw. To ensure that the device retains the active configuration following the update, select the "Keep configuration" option.
- Click on "Install firmware".

The ERR LED and TS LED flash alternately during the update. Wait until the update is completed and the device restarts automatically.

13 Disposal



Dispose of the device separately from other waste, i.e., via an appropriate collection site.