

VIPA Accessories



Teleservice module | 900-2H611 | Manual

HB39E_TM | RE_900-2H611 | Rev. 10/16 April 2010



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- 2004/108/EC Electromagnetic Compatibility Directive
- 2006/95/EC Low Voltage Directive

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About this manual

Important note! The information in t his manual should sim plify you the deployment of remote controlling VIPA PLCs. More information concerning this may be found in German and English at:

support.ewon.biz www.ewon-online.de

This Teleservice module (TM-H) from VIPA is constructed in the same way as the module "eWON2005CD".

Overview Chapter 1: Assembly and installation guidelines

In this chapter you will find all information, required for assembly and installation of the Teleservice module (TM).

Chapter 2: Hardware description

Here the hardware components of the Teleservice module (TM) are more described.

The technical data are at the end of this chapter.

Chapter 3: Deployment

This chapter concerns on the deployment of the Teleservice module (TM) from VIPA with a PLC. With the fast introduction you will get an overview about the possibilities of teleservice. Another part of this chapter is the configuration of the TM by means of the integrated Web page.

The chapter is continued with the possibilities to the PLC connection.

Its finished with the description of the communication via VPN.

Objective and contents	This manual describes the Teleservice module TM-H Router VPN from VIPA. It contains a description of the construction, project implementation and usage. This manual is part of the documentation package		
		HB39E_TM and relevant	
	Product	Order number	as of state: TM-FW
	TM-H Router VPN	VIPA 900-2H611	5.6
Target audience	The manual is targeted technology.	l at users who have a l	background in automation
Structure of the manual	The manual consists of chapters. Every chapter provides a self-contained description of a specific topic.		
Guide to the document	 The following guides are available in the manual: an overall table of contents at the beginning of the manual an overview of the topics for every chapter an index at the end of the manual. 		
Availability	 The manual is available in: printed form, on paper in electronic form as PDF-file (Adobe Acrobat Reader) 		
lcons Headings	Important passages in the text are highlighted by following icons and headings:		
$\underline{\wedge}$	Danger! Immediate or likely danger. Personal injury is possible.		
\bigwedge	Attention! Damages to property is likely if these warnings are not heeded.		
1	Note! Supplementary informat	ion and useful tips	

Safety information

Applications conforming with specifications The Teleservice module is constructed and produced for:

- communication and process control
- general control and automation applications
- industrial applications
- operation within the environmental conditions specified in the technical data
- installation into a cubicle



Danger!

This device is not certified for applications in

• in explosive environments (EX-zone)

Documentation

The manual must be available to all personnel in the

- project design department
- installation department
- commissioning
- operation



The following conditions must be met before using or commissioning the components described in this manual:

- Modification to the process control system should only be carried out when the system has been disconnected from power!
- Installation and modifications only by properly trained personnel
- The national rules and regulations of the respective country must be satisfied (installation, safety, EMC ...)

Disposal National rules and regulations apply to the disposal of the unit!

Chapter 1 Assembly and installation guidelines

Overview In this chapter you will find all information, required for assembly and installation of the Teleservice module (TM).

Safety information for Users

Handling of electrostatic sensitive modules VIPA modules make use of highly integrated components in MOS-Technology. These components are extremely sensitive to over-voltages that can occur during electrostatic discharges.

The following symbol is attached to modules that can be destroyed by electrostatic discharges.



The Symbol is located on the module, the module rack or on packing material and it indicates the presence of electrostatic sensitive equipment.

It is possible that electrostatic sensitive equipment is destroyed by energies and voltages that are far less than the human threshold of perception. These voltages can occur where persons do not discharge themselves before handling electrostatic sensitive modules and they can damage components thereby, causing the module to become inoperable or unusable.

Modules that have been damaged by electrostatic discharges can fail after a temperature change, mechanical shock or changes in the electrical load.

Only the consequent implementation of protection devices and meticulous attention to the applicable rules and regulations for handling the respective equipment can prevent failures of electrostatic sensitive modules.

Modules must be shipped in the original packing material.

Shipping of electrostatic sensitive modules

Measurements and alterations on electrostatic sensitive modules When you are conducting measurements on electrostatic sensitive modules you should take the following precautions:

- Floating instruments must be discharged before use.
- Instruments must be grounded.

Modifying electrostatic sensitive modules you should only use soldering irons with grounded tips.



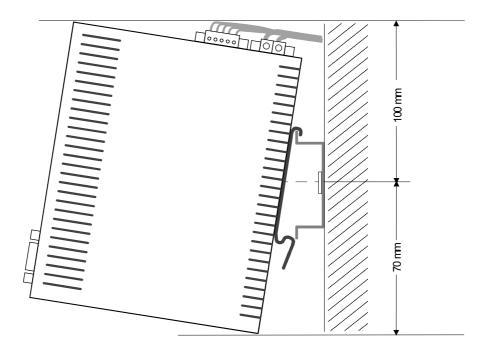
Attention!

Personnel and instruments should be grounded when working on electrostatic sensitive modules.

Installation dimensions

Dimensions

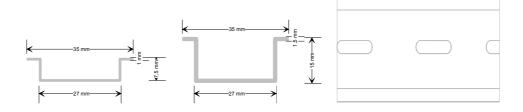
Make sure that a clearance of at least 100mm exists above and 70mm below the middle of the bus rail.



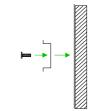
Dimensions assembled

Assembly

General The modules are installed on a profile rail. You may use the following standard 35mm profile rail:

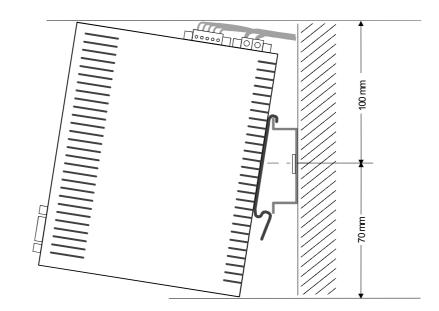


Assembly procedure

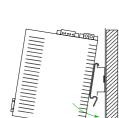


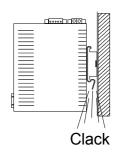
The following sequence represents the assembly procedure as viewed from the side.

• Install the profile rail. Make sure that a clearance of at least 100mm exists above and 70mm below the middle of the profile rail.



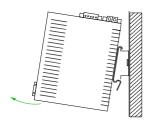
• Insert the module that you are installing into the profile rail at an angle of about 45 degrees from the top and rotate the module into place until it clicks into the profile rail with an audible click.



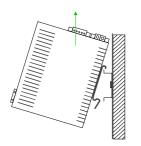


Removal procedure

The following sequence shows the steps required for the removal of modules in a side view.



- For the removal take the module at the bottom and pull it forward with a strong jerk.
- Now withdraw the module with a slight rotation to the top.



Cabling

Overview At the upper side of the Teleservice module there are connectors for power supply and digital inputs/outputs. The output is designed as low-side output and may be configured.

The connectors are plugs with screw contacts. If connected the plugs may be fixed with screws.

The I/Os are controlled by *Tags*. An example may be found at the chapter "Deployment" at "Deployment of Tags".

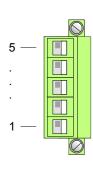
Power supply The Teleservice module is to be supplied by DC 12...24V ±20%.



Pin	Name	Meaning
2	12-24V DC	DC 12 24V ±20%
1	GND	Ground power supply

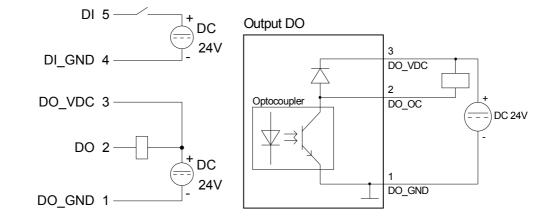
DI/DO connection

The output is designed as low-side output and may be configured.



Pin	Name	Meaning
5	DI	Digital input DC 0/24V
		"0": 0 5V DC "1": 10V 30V DC
4	DI_GND	DI ground (isolated)
3	DO_VDC	DO load voltage DC 24V
2	DO	Digital output DC 24V, 0.2A Low-side output
1	DO_GND	DO ground





Installation guidelines

General	The installation guidelines contain information about the possible interference causes. Here we describe possible ways of interference that may disturb the controlling system and how you have to approach shielding and screening issues to ensure the electromagnetic compatibility (EMC).
What is EMC?	Electromagnetic digestibility (EMC) means the ability of an electrical device, to function error free in an electromagnetic environment without being interferenced res. without interferencing the environment. The Teleservice module is developed for applications in harsh industrial environments and they comply with EMC requirements to a large degree. In spite of this you should implement an EMC strategy before installing your SPS and the Teleservice module, which should include any possible source of interference.
Possible interference causes	 Electromagnetic interferences may interfere your control via different ways: Fields I/O signal conductors Bus system Current supply Protected earth conductor Depending on the spreading medium (lead bound or lead free) and the distance to the interference cause, interferences to your control occur by means of different coupling mechanisms. One differs: galvanic coupling capacitive coupling inductive coupling radiant coupling

Basic rules for In the most times it is enough to take care of some elementary rules to guarantee the EMC. Please regard the following basic rules when installing your PLC.

- Take care of a correct area-wide grounding of the inactive metal parts when installing your components.
 - Install a central connection between the ground and the protected earth conductor system.
 - Connect all inactive metal extensive and impedance-low.
 - Please try not to use aluminum parts. Aluminum is easily oxidizing and is therefore less suitable for grounding.
- When cabling, take care of the correct line routing.
 - Organize your cabling in line groups (high voltage, current supply, signal and data lines).
 - Always lay your high voltage lines and signal res. data lines in separate channels or bundles.
 - Route the signal and data lines as near as possible beside ground areas (e.g. suspension bars, metal rails, tin cabinet).
- Proof the correct fixing of the lead isolation.
 - Data lines must be laid isolated.
 - Analog lines must be laid isolated. When transmitting signals with small amplitudes the one sided laying of the isolation may be favorable.
 - Lay the line isolation extensively on an isolation/protected earth conductor rail directly after the cabinet entry and fix the isolation with cable clamps.
 - Make sure that the isolation/protected earth conductor rail is connected impedance-low with the cabinet.
 - Use metallic or metalized plug cases for isolated data lines.
- In special use cases you should appoint special EMC actions.
 - Wire all inductivities with erase links, which are addressed by your PLC.
 - For lightening cabinets you should prefer incandescent lamps and avoid luminescent lamps.
- Create a homogeneous reference potential and ground all electrical operating supplies when possible.
 - Please take care for the targeted employment of the grounding actions. The grounding of the PLC is a protection and functionality activity.
 - Connect installation parts and cabinets with your PLC in star topology with the isolation/protected earth conductor system. So you avoid ground loops.
 - If potential differences between installation parts and cabinets occur, lay sufficiently dimensioned potential compensation lines.

Isolation of
conductorsElectrical, magnetic and electromagnetic interference fields are weakened
by means of an isolation, one talks of absorption.Viathe
isolation
railthat
isolation
rail

Via the isolation rail, that is connected conductive with the rack, interference currents are shunt via cable isolation to the ground. Hereby you have to make sure, that the connection to the protected earth conductor is impedance-low, because otherwise the interference currents may appear as interference cause.

When isolating cables you have to regard the following:

- If possible, use only cables with isolation tangle.
- The hiding power of the isolation should be higher than 80%.
- Normally you should always lay the isolation of cables on both sides. Only by means of the both-sided connection of the isolation you achieve high quality interference suppression in the higher frequency area.

Only as exception you may also lay the isolation one-sided. Then you only achieve the absorption of the lower frequencies. A one-sided isolation connection may be convenient, if:

- the conduction of a potential compensating line is not possible
- analog signals (some mV res. µA) are transferred
- foil isolations (static isolations) are used.
- With data lines always use metallic or metalized plugs for serial couplings. Fix the isolation of the data line at the plug rack. Do not lay the isolation on the PIN 1 of the plug bar!
- At stationary operation it is convenient to strip the insulated cable interruption free and lay it on the isolation/protected earth conductor line.
- To fix the isolation tangles use cable clamps out of metal. The clamps must clasp the isolation extensively and have well contact.
- Lay the isolation on an isolation rail directly after the entry of the cable in the cabinet. Lead the isolation further on to the PLC and **don't** lay it on there again!



Please regard at installation!

At potential differences between the grounding points, there may be a compensation current via the isolation connected at both sides. Remedy: Potential compensation line

Chapter 2 Hardware description

Overview Here the hardware components of the Teleservice module (TM) are more described. The technical data are at the end of this chapter.

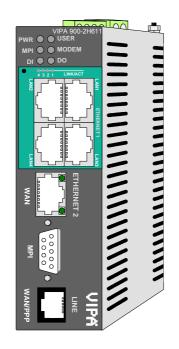
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Properties

Overview	The TM-H is an intelligent teleservice module with integrated broadband VPN router. This module makes simple and safe communication with your machines and plants possible via a DSL connection or in the local network. Values of your plant may be observed and appropriate reactions to limit exceeds may be configured. Due to the integrated Web page, for configuration there is no additional software necessary. Due to the predefined server the embedding to a VIPA PLC may be established preblem free. The TM may be integrated as DC/OD interface to
	established problem-free. The TM may be integrated as PG/OP interface to the Siemens SIMATIC manager by means of a station file.

Properties

- 4port Ethernet switch for LAN machine network
- 1port Ethernet WAN for LAN factory network
- Transparent Ethernet gateway with TCP/IP Router
- safe VPN Router in a compact design
- Sending alarms by eMail and SMS (only via free SMS provider)
- up to 20 Ethernet sessions simultaneous
- Programmable gateway by BASIC
- fully customizable Web pages (in HTML)
- integrated alarm management
- RS485 MPI/Profibus DP interface



Order data

Туре	Order number	Description
TM-H Router	VIPA 900-2H611	DC 12 24V, MPI, 5xEthernet RJ45, Router functions, VPN,
VPN		DI 1xDC 24V, DO 1xDC 24V 0.2A

Structure

TM-H Router VPN

Components

LEDs

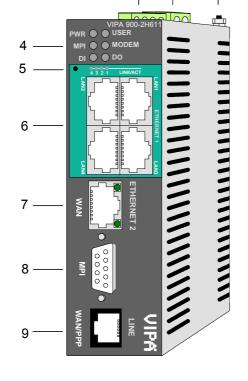
At the front-side of the Teleservice module there are two rows of LEDs. The following table shows you the usage of the LEDs and the according colors:

[1]	Connec	ctor	for	di	igit	al	I/O	
	-		-	_	-		-	

- [2] Connector for DC 12...24V power supply
- [3] Earthing screw
- [4] LEDs
- [5] Reset button
- [6] 4xLAN-RJ45 Ethernet interface
- [7] 1xWAN-RJ45 Ethernet interface
- [8] RS485 MPI/Profibus DP interface
- [9] not connected

PWR O USER MPI O MODEM DI O DO

Label	Color	Meaning
PWR	green	Power supply is active.
USER	green	blinks: The TM module is ready for
		communication (ca. 20s after PowerOn).
	red	blinks: IP address not valid (just exist).
	red/green	blinks alternating: The TM module is just waiting
		for an IP address during boot-up.
		The LED is also used with the Reset.
		More about this may be found at "TM - Reset".
MPI	green	blinks: The TM module is communicating with
		the PLC via MPI.
MODEM	green	on: The modem of the TM module is active.
DI	green	on: The digital input of the TM module is "1".
DO	green	on: The digital output of the TM module is "1".

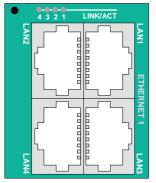


2

1

3

RJ45 Ethernet-LAN interface



You may connect your TM via Ethernet to the local machine network. Via Ethernet the integrated Web page of the TM module may be accessed for according configurations.

The Ethernet LAN interface is a 4port "autosense" Ethernet switch, which automatically adapts to the transfer rate 10 or 100Mbit/s. By means of this more PLCs within the same network may be connected to the Teleservice module.

The switch has 4 RJ45 jacks.

The assignment of the jacks may be found below at "RJ45 Ethernet WAN interface".

LEDs

Above the switch there are 4 LEDs 4...1. These show the connection of the 4 ports to the Ethernet LAN 4 ... LAN 1.

Color/Activity	Meaning
off	no connection
green	LINK: Connection
blinks green	ACT: Communication

Linking to Ethernet The LAN interface supports "autosense", here either a crossed or a standard Ethernet cable may be used.

The TM is delivered with the following IP address parameters for the LAN interface:

IP address:	10.0.0.53
Subnet mask:	255.255.255.0

To change the IP address parameters the configuration tool "eBuddy" from VIPA may be used.



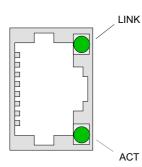
Note!

Per default the LAN interface is always activated.

RJ45 Ethernet-
WAN interfaceBy means of the Ethernet WAN interface the TM may be accessed via
Internet by the DSL router or an existing local network.
The interface is automatically adapting to the transfer rate 10 or 100Mbit/s.

The jack has the following assignment:

8-pole RJ45 jack:



Pin	Assignment
1	Transmit +
2	Transmit -
3	Receive +
4	-
5	-
6	Receive -
7	-
8	-

LEDs (green)

LED	Meaning
LINK	on: Das TM is physically connected to the Ethernet.
ACT	blinks: The TM communicates via Ethernet (Activity)

Connection viaThe WAN interface does not support "autosense", this means for
connection a crossed Ethernet cable or a switch is to be used.

The TM is delivered with the following IP address parameters for the WAN interface:

IP address:	10.0.0.53
Subnet mask:	255.255.255.0
Gateway:	0.0.0.0

To change the IP address parameters the configuration tool "eBuddy" from VIPA may be used.



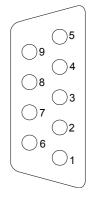
Note!

Per default the WAN interface is always de-activated. For the first connection the LAN interface is to be used.

MPI/Profibus DP interface

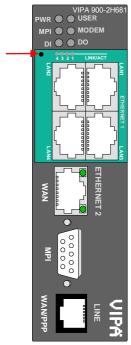
The Teleservice module is connected to your PLC CPU via this interface. The interface is designed as RS485 jack and has the following assignment:

9-pole SubD jack:	ole SubD jack:	
-------------------	----------------	--



-
Assignment
n.c.
n.c.
RxD/TxD (line B)
n.c.
GND
n.c.
n.c.
RxD/TxD (line A)
n.c.

Reset



A reset at the Teleservice module may be initiated by the Reset button The Reset button is allocated below the LEDs behind an opening. Please use for operation a pointed object.

With the reset (*user reset*) extra created Web pages and Tag configurations are erased. Here the communication settings are still remaining.

For a *complete reset* please contact the VIPA support. More about the deployment of the Reset button may be found at "TM - Reset".



Caution!

An unauthorized *complete reset*, which possibly was not carefully executed, leads automatically to the expiring of the warranty! Then the device must be sent back to VIPA for reprogramming. Connector power supply

The Teleservice module is to be power supplied by DC 12 ... $24V \pm 20\%$. Here the power consumption amounts to 3 ... 6W.

For power supply there is a 2-pin connector at the upper side of the TM module. The connector is a plug with screw contacts. If connected the plugs may be fixed with screws.

The connector has the following assignment:



Pin	Name	Meaning
2	12-24V DC	DC 12 24V ±20%
1	GND	Ground power supply

Connector digital I/O

diagram

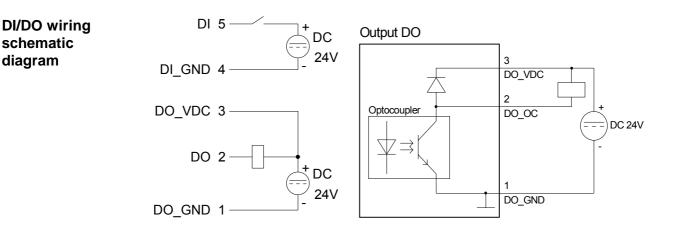
For the digital inputs/outputs there is a connector at the upper side of the Teleservice module. The output is designed as low-side output and may accordingly be configured.

The connector is a plug with screw contacts. If connected the plugs may be fixed with screws.

The I/Os are controlled by *Tags*. An example may be found at the chapter "Deployment" at "Deployment of Tags".

	Ø
5 —	
1 —	

Pin	Name	Meaning
5	DI	Digital input DC 0/24V
		"0": 0 5V DC
		"1": 10V 30V DC
4	DI_GND	DI ground (isolated)
3	DO_VDC	DO load voltage DC 24V
2	DO	Digital output DC 24V, 0.2A
		Low-side output
1	DO_GND	DO ground



Technical Data

TM-H Router VPN

Electrical data	VIPA 900-2H611
Power supply (rated value)	DC 12 24V ±20%
Power consumption	10W
Nominal current	max. 300mA
Mark of conformity and certification	CE
Hardware	
Memory	16Mbyte SDRAM, 32Mbyte Flash
Integrated real time clock	Manual setting by Web interface or automatically by NTP Server, without battery
Environment conditions	
Position of installation	horizontal/vertical
Operating temperature	0 +50°C
Relative humidity	80% (no condensation)
Storage /Transport temperature	-20 +60°C
Interfaces	
Ethernet-LAN-Switch Isolation tested with	5xRJ45 Ethernet 10/100 BaseTX; 1.5kV
Ethernet-WAN Isolation tested with	1xRJ45 Ethernet 10/100 BaseTX; 1.5kV
MPI/Profibus DP	RS485 isolated 12Mbit/s
Digital I/Os	
Input	1xDI 0/24V DC
Output (Low side)	1xDO DC 24V, 0.2A
Isolation tested with	3.5kV
Data record	
Protocols	Modbus RS485, Modbus TCP, Unitelway, DF1, PPI MPI (on board) and serial ASCII
Dimensions and weight	
Dimension front (WxHxD)	39 x 129 x 108mm
Weight	300g

Chapter 3 Deployment

Topic

OverviewThis chapter concerns on the deployment of the Teleservice module (TM)
from VIPA with a PLC. With the fast introduction you will get an overview
about the possibilities of teleservice. Another part of this chapter is the
configuration of the TM by means of the integrated Web page.
The chapter is continued with the possibilities to the PLC connection.
Its finished with the description of the communication via VPN.

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Fast introduction

Important note! The information in this manual should simplify you the deployment of remote controlling VIPA PLCs. More information concerning this may be found in german and english at:

support.ewon.biz

www.ewon-online.de

Power supply The Teleservice module is to be supplied with DC 12...24V ±20%. The connection is established by a plug. This may be found at the upper side of the module and has the following allocation:

2 1 0

Pin	Name	Meaning
2	12-24V DC	DC 12 24V ±20%
1	GND	Ground power supply

IP address parameters on delivery For the access to the TM valid IP address parameters are necessary. The IP addresses are assigned by the network administrator and must be coordinated with him.

The TM is delivered with the following IP address parameters:

IP address:	10.0.0.53
Subnet mask:	255.255.255.0

To change the IP address parameters the configuration tool "eBuddy" from VIPA may be used.



Caution!

For every Teleservice module is delivered with the IP address 10.0.0.53 you must not connect more than one new TM at one time. First commissioning: Connect the new TM with the network, assign TCP/IP address parameters. Now you may connect the next new TM and so on ...

Linking to
EthernetConnect your PC to your Ethernet-LAN interface (Ethernet 1) of your
Teleservice module. Here either a crossed cable or a switch may be used.
An active link via Ethernet is shown by the Teleservice module with the
green LINK/ACT LED 1 ... 4 upper the Ethernet switch

Access via The softwa eBuddy www.vipa.d

The software tool "eBuddy" may be found at the download area of www.vipa.de. For installation execute eBuddySetup.exe and follow the instructions.

• Start eBuddy.



• Switch to the list view with "Switch to list mode". Here every TM available in you network is listed.

🗿 eBuddy - eWO	N Maintenance Ut	ility				
Eile <u>V</u> iew <u>T</u> ools E	<u>t</u> elp					
🔁 Refresh 🛛 🐴	Wizard Mode					
Serial Number 🔺	Device Type	IP Address	Subnet Mask	Gateway	MAC Address	1
0902-0001-51	TM-E	172.16.131.161	255.255.224.0		00-03-27-00-4D-88	
dialog:list					1 eW	'ON(s)

By selecting the corresponding TM at the list, the following functions are available by the context menu (right click):

- Changing respectively entering the IP address parameters
- Loading respectively executing a firmware update
- Backup respectively restoring of an application
- Access to the integrated web page of the Teleservice module

Access to theOpen the Web page of the corresponding TM. After entering User nameWeb pageand Password the web page of the corresponding TM is opened.

Access parameters User name: adm Password: adm

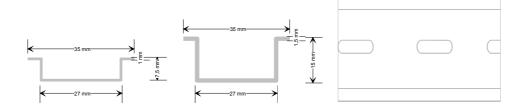
🕗 👻 🔊 http://172.16.131.161/A	st/MainAst.shtm		Google 🖌 🖌	
🕸 🌈 TM-E Session (Adm)			🙆 • 🗟 ·	🖶 🔹 🔂 Seite 🔹 🎯 E
VIPA	View I/O	Alarm Summary	Diagnostic	Configuration
art of automation TM-E		Alarm History	Files Transfer	Log off 🎒
		User session		
	User:		(Adm)	

Access to the	• Connect your CPU to the Teleservice	e module via MPI.			
VIPA PLC	 Switch on the power supply of the CF 	PU and switch the CPU to RUN.			
	• Open the Web page of the correspor	nding Teleservice module.			
	 Open with Configuration > I/O server I/O server. Set as I/O server "S73&4" 				
	• To access the VIPA PLC enter the fo	bllowing parameters:			
	MPI destination node:	2 (standard)			
	Baud rate:	187500			
	Reply timeout.	3000 (standard)			
	MPI address:	0 (standard)			
	Highest MPI station address:	31 (standard)			
	Topic A:	enabled			
	Global device address:	MPI, # (with #: MPI address CPU)			
	Poll rate:	2000 MS (standard)			
	• To confirm click at [Update config].				
	Now the CPU may be accessed via the Teleservice module.				
	-				
-	In a <i>Tag</i> the storage areas of you PLC may be defined. These storage areas may read and write accessed by the Tag.				
·	• To establish a Tag open at the Web page the page "Tag setup" and click at "Create new Tag".				
	 Enter the following parameters: 				
	Tag name:	Test			
	Server name:	S73&400			
	Topic name:	A			
	Address:	MW0			
	Туре:	Boolean			
	 Otherwise leave the standard setting and click at [Add/Update]. 				
	• Switch with Main menu > <i>View I/O</i> to the Tag list.				
	 Enter a new value for the Tag "Te value is set and may be transferred in the head line. 				
· · · · · ·	 If the new value is accepted by the C the TM and the CPU is secured. 	PU, so the communication between			
-	These steps are more described at the	following pages.			

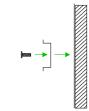
Assembly

General

The modules are installed on a profile rail. You may use the following standard 35mm profile rail:

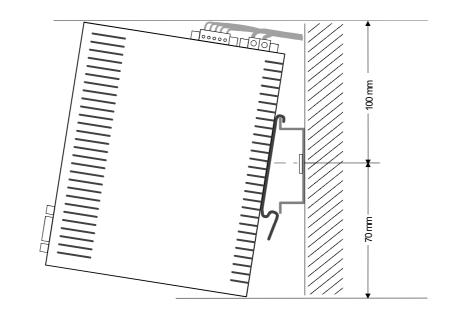


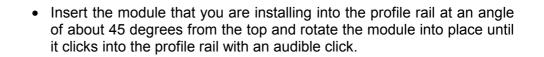
Assembly procedure

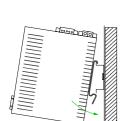


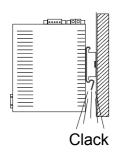
The following sequence represents the assembly procedure as viewed from the side.

• Install the profile rail. Make sure that a clearance of at least 100mm exists above and 70mm below the middle of the profile rail.









Cabling

Overview At the upper side of the Teleservice module there are connectors for power supply and digital inputs/outputs. The output is designed as low-side output and may be configured.

The connectors are plugs with screw contacts. If connected the plugs may be fixed with screws.

The I/Os are controlled by *Tags*. An example may be found at the chapter "Deployment" at "Deployment of Tags".

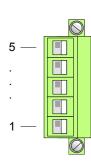
Power supply The Teleservice module is to be supplied by DC 12...24V \pm 20%.



Pin	Name	Meaning
2	12-24V DC	DC 12 24V ±20%
1	GND	Ground power supply

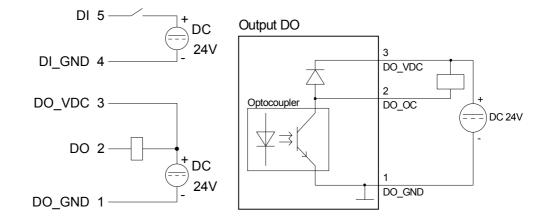
DI/DO connection

The output is designed as low-side output and may be configured.



Pin	Name	Meaning
5	DI	Digital input DC 0/24V
		"0": 0 5V DC "1": 10V 30V DC
4	DI_GND	DI ground (isolated)
3	DO_VDC	DO load voltage DC 24V
2	DO	Digital output DC 24V, 0.2A Low-side output
1	DO_GND	DO ground





TM - Configuration - eBuddy

- **Overview** To deploy the Teleservice module, the VIPA software tool "eBuddy" is necessary. With this new IP address parameters may be assigned to the TM; you may load and transfer new firmware, backup/restore applications and access the integrated web page of the TM.
- Installation The software tool "eBuddy" may be found at the download area of www.vipa.de. For installation execute eBuddySetup.exe and follow the instructions.
- Wizard modeConnect the Teleservice module via Ethernet and switch on its powerList modeStart eBuddy. This always starts in the last used mode.



Wizard mode

Here the following functions are available:

- · Set or modify the IP address parameters
- Load or execute a firmware update
- Backup or restore of an application

List mode

To change to the *List mode* from the *Wizard Mode* click to the link "Switch to list mode". In the *List mode* every TM module available in you network is listed.

	<u>File View Tools H</u>	telp					
	💈 Refresh 🛛 1 🚺	Wizard Mode					
9902-0001-51 TM-E 172.16.131.161 255.255.224.0 00-03-27-00-40-88	Serial Number 🔺	Device Type	IP Address	Subnet Mask	Gateway	MAC Address	
	902-0001-51	TM-E	172.16.131.161	255.255.224.0		00-03-27-00-4D-88	
	ialog:list					1 eWOM	u(s)

By selecting the corresponding TM in the list, there are the same functions available by context menu (right click), which were listed above.

Additionally the Web page integrated to the Teleservice module may directly be accessed by "Open in browser"

Basics IP address and subnet	Industrial Ethernet exclusively sup 32Bit address that must be unique numbers that are separated by a d Every IP address is a combinati structure is as follows: XXX. Range: 000.000.000 to 255.25 The network administrator also def	ue within the lot. on of a Net XXX.XXX.X 55.255.255	network ar -ID and a XXX	nd consists of 4
Net-ID Host-ID	The Net work-ID identifies a network. administrates the network. The Host-ID marks the network construction network.			
Subnet mask	The Host-ID can be further divided using a bit for bit AND assignment The area of the original Host-ID th becomes the Subnet-ID, the rest is	with the Sub at is overwritt the new Hos	net mask . en by 1 of t st-ID.	
	Subnet mask	binary all "1	1	binary all "0"
	IPv4 address	Net-ID	Host-ID	
	Subnet mask and IPv4 address	Net-ID	Subnet-ID	new Host-ID
Subnet	A TCP-based communication via p only possible between stations w Different area must be connected w The subnet mask allows you to s This means e.g. that every depart not interfere another department.	ith identical with a router. sort the resou	Network-ID urces follow	and Subnet-ID! ring your needs.
Address at first start-up	At the first start-up the TM has the	following IP a	address:	
	IP address:	10.0.0.53		
	Subnet mask:	255.255.25	5.0	
\bigwedge	Attention! For every Teleservice module is you must not connect more than of First commissioning: Connect the	ne new Teles	ervice modu	ule at one time.

address parameters. Now you may connect the next new TM and so on ...

Address classes For IPv4 addresses there are five address formats (class A to class E) that are all of a length of 4byte = 32bit.

Class A		Vetwo 1+7b	ork-ID vit)	Host-ID (24bit))	
Class B	10	Netw	work-ID (2+	14bit)	Host-ID (16b	oit)
Class C	110	Ne	etwork-ID (3	+21bit)		Host-ID (8bit)
Class D	111(N C	Multicast gro	oup		
Class E	1111	10	Reserved			

The classes A, B and C are used for individual addresses, class D for multicast addresses and class E is reserved for special purposes.

The address formats of the 3 classes A, B, C are only differing in the length of Network-ID and Host-ID.

Private IP networks To build up private IP-Networks within the Internet, RFC1597/1918 reserves the following address areas:

Network	Start IP	End IP	Standard subnet mask
class			
А	10. <u>0.0.0</u>	10.255.255.255	255. <u>0.0.0</u>
В	172.16.0.0	172.31. <u>255.255</u>	255.255. <u>0.0</u>
С	192.168.0. <u>0</u>	192.168.255. <u>255</u>	255.255.255. <u>0</u>
(The Host-ID is	underlined)		

(The Host-ID is underlined.)

These addresses can be used as net-ID by several organizations without causing conflicts, for these IP addresses are neither assigned in the Internet nor are routed in the Internet.

Reserved Host-IDs Some Host-IDs are reserved for special purposes.

Host-ID = 0Identifier of this network, reserved!Host-ID = maximum (binary complete 1)Broadcast address of this network

Note!

Never choose an IP address with Host-ID=0 or Host-ID=maximum!

(e.g. for class B with subnet mask = 255.255.0.0, the "172.16.0.0" is reserved and the "172.16.255.255" is occupied as local broadcast address for this network.)

Changing the IP address For the access to the Teleservice module valid IP address parameters are necessary. The IP addresses are assigned by the network administrator. Per default the Teleservice module is delivered with the IP address 10.0.0.53. You may switch to the IP address parameter wizard with "Set IP address".

By clicking to [Browse...] each TM of the network is listed.

Serial Number 🔺	Device Type	IP Address	ОК
0902-0001-51	TM-E	172.16.131.161	Cancel
			Refresh

- Choose the TM, which corresponds to the serial number. Confirm your input and click to [Continue >].
- The dialog window to enter IP address data is opened.
- Enter the new IP address parameters. By clicking to [Continue >] the new IP address parameters are transferred to the TM.
 → The TM module is started new. After a certain waiting period and during successful transmissions this is reported.
- [Finish >] closes the dialog.

Symbolic name instead of IP address	With each new dial-in of the Teleservice module, this is assigned automatically with a new IP address. This is called dynamic address allocation.
	Usually the TM sends an eMail containing the current valid IP address. By this IP address the TM may be accessed.
	With the service of a DNS service provider like e.g. www.no-ip.com there is the possibility to directly access the TM by a name instead by the IP address.
	Here usually a free user account is to be established.
	The corresponding DNS service provider may be selected on the Web page of the TM at "Networking config" with the page "Publish IP address". Here the user data may be entered.

During communication the dynamic IP address is submitted to the service provider and there transformed to the symbolic name.

Update firmware A firmware update happens in 2 steps:

- Update eBuddy
- Update firmware

Update eBuddyWith "Update eBuddy" the firmware files may directly be stored at you PC.
This is necessary to update the firmware of you TM.As source the Internet or a local directory may be selected. With
[Continue >] the available firmware language versions are listed. Select the
corresponding version and download it with [Continue >] to your PC.

Update firmware With "Update firmware" a dialog window is opened to request the login data. By selecting the corresponding TM and by entering the login data, the firmware versions at your PC and at the Teleservice module are listed.

Update Firmware Wiz	zar d 🛛 🔀
Firmware Selection Here you can selec	t the new firmware
- Current Device IP Address: Serial Number Product Type Firmware:	172.16.131.161 ; 0902-0001-51
New Firmware	Englisch
Version:	5.6 s0
	< Zurück Weiter > Abbrechen

Choose the concerning firmware version at your PC. The update procedure is started by [Continue >].



Attention!

When installing a new firmware you have to be extremely careful. Under certain circumstances you may destroy the TM, for example if the voltage supply is interrupted during transfer or if the firmware file is defective. In this case, please call the VIPA-Hotline!

The proceeding of the update is shown as a proceeding bar. Wait here until the bar is at 100%.

A successful update is reported by a status report.

Backup / restore application

With this function the configuration of a Teleservice module may be stored and uploaded to the TM module.

Each modification on the configuration of the TM should be stored.

Backup/Restore Wizard	X	
Backup or Restore ?	WON	
Backup		
Select this button to download a b application from the eWON and sa		
Include Support Files		
(Note: Backup files including s	upport files cannot be restored)	
○ <u>R</u> estore		
Select this button to restore the b your eWON.	ackup of an eWON application into	
	< Zurück Weiter > Abbrechen	

Backup Open the dialog window with clicking to "Backup/restore application". Select "Backup". Even if you want to forward the backup to the VIPA support the files relevant to the support should also be saved. Here activate the option "Include support files". Click to [Continue >].

Select the corresponding Teleservice module, enter your login data and click to [Continue >]. Navigate to the concerning directory and enter a file name.

With [Continue >] the backup is stored with the file name in the concerning directory.

The proceeding of the write procedure is shown as a proceeding bar. Wait here until the bar is at 100%.

As soon as the backup is finished, you get a feedback.

Restore Open the dialog window with clicking to "Backup/restore application". Select "Restore" and click to [Continue >].

Select the corresponding TM, enter your login data and click to [Continue >]. Navigate to the concerning directory and enter a file name of the backup.

With [Continue >] the data are transferred to the TM.

The proceeding of the write procedure is shown as a proceeding bar. Wait here until the bar is at 100%.

As soon as the restore is finished, you get a feedback.

TM - Reset

Overview At the front-side of the Teleservice module there is a Reset button. This may be located below the LEDs and may be operated by a pointed object. With the Reset (*user reset*) extra created Web pages and Tag configurations are erased. Here the communication settings are still remaining.

For a *complete reset* please contact the VIPA support.



Caution!

An unauthorized *complete reset*, which possibly was not carefully executed, leads automatically to the expiring of the warranty! Then the device must be sent back to VIPA for reprogramming.

User-Reset There is the following proceeding for the *user reset*.

- Switch-off the Teleservice module.
- Press the Reset button.
- Switch-on the Teleservice module and leave the reset button pressed as long as the "USER"-LED is blinking red.
- Release the Reset button now.

Now the Teleservice module executes a restart. Wait until the "USER"-LED blinks green.

TM - Web page

Access to the Web page

- Start the VIPA configuration tool "eBuddy".
- Switch to the list view with "Switch to list mode". Here every TM available in your network is listed.

💙 eBuddy - eWO	N Maintenance Ut	ility				
<u>File View Tools H</u>	<u>t</u> elp					
🛃 Refresh 🛛 🚺	Wizard Mode					
Serial Number 🔺	Device Type	IP Address	Subnet Mask	Gateway	MAC Address	1
0902-0001-51	TM-E	172.16.131.161	255.255.224.0		00-03-27-00-4D-88	
dialog:list					1 eV	/ON(s)

• Click to the concerning TM and select in the context menu "Open in browser". Your Web browser is opened with the request of *User name* and *Password*.

Per default the TM is delivered with the following user data:

User name: Password:

adm adm

After entering *User name* and *Password* the web page of the corresponding Teleservice module is opened.

🔊 🕤 👻 🖻 http://172.16.131.161/A	st/MainAst.shtm		Soc	ogle
🔗 🌈 TM-E Session (Adm)			🙆 • E) 🔹 🖶 🔹 🔂 Seite 🔹 🌍 Extras
VIPA	View I/O	Alarm Summary	Diagnostic	Configuration
art of automation TM-E		Alarm History	Files Transfer	Log off 🎒
		User session		
	User:	user session	(Adm)	
	Connection Date	: 30	0/11/1999 00:14:19	

Structure	The functionalities of your Teleservice module are separated to the areas <i>Main menu</i> and <i>Configuration</i> with the following structure.
Main menu	Each information of the Teleservice module may be accessed by the Main menu. The Information are separated to the following pages:
View I/O	Shows a list of the configured Tags. Here PLC value may be preset and evaluated.
Alarm Summary	At this page the current alarms are listed. Here the alarms may be acknowledged.
Alarm History	Here each alarm and history arte listed.
Diagnostic	This page serves several possibilities for diagnostics of the TM module by means of sub pages.
File transfer	Here each information may be downloaded from the Teleservice module as lists.
Configuration	Every setting of the Teleservice module may be established by this page. Here the main functionalities are separated to the following pages:
Tag Setup	Here Tags may be configured, which were listed at "View I/O" and may be controlled there.
System Setup	Via this page the basic parameters of the Teleservice module may be accessed. Depending on the functionality these are assigned to the pages General (general settings, net services and diagnosis), Communication (Interfaces and network) and Storage (administration storage memory).
IO Server Config	There are pre-defined servers for several communication protocols and systems inside the Teleservice module. By selecting the corresponding server this may be configured.
Script Setup	To expand the functionalities, scripts may be programmed by means of a BASIC language. Scripts may be transferred and maintained by this page.
User Setup	Here users may be applied and administrated.
Pages List	To increase the structure, Tags may be assigned to several pages. The administration of these pages happens by this page.

TM - PLC linking

Preconditions For the further approach there is condition your Teleservice module has valid IP address parameters and the Web page of the TM may be accessed.

Connect VIPA PLCTo get access to the VIPA PLC, the VIPA CPU is to be connected to the
MPI jack of the Teleservice module via a suited MPI cable.
If there is an Ethernet CP within your PLC, for TM access you may connect
it to Ethernet instead to MPI.
Switch-on the power supply of the CPU and switch the CPU to RUN.

• Open the concerning Web page of the Teleservice module. Now you are requested for access parameters. Per default the TM has the following access parameters:

Access parameters User name: adm Password: adm

• After entering of *User name* and *Password* the Web page of the Teleservice module is opened.

C TM-E Session (Adm) - Microsoft In	iternet Explorer bereitgestellt	von VIPA GmbH		
C			→ × 60	ogle
😭 🏘 🌈 TM-E Session (Adm)			🟠 • 6	🕽 🔹 🖶 🔹 🔂 Seite 🔹 🎯 Extras 👻
VIPA	View I/O	Alarm Summary	Diagnostic	Configuration
art of automation		Alarm History	Files Transfer	Log off 🕮
		User session		
	User:		(Adm)	
	Connection Da	ate: 3	0/11/1999 00:14:19	

Open with Configuration > IO Server Config the page to preset I/O server.

I/O server configuration

• For the VIPA PLC select as I/O server "S73&400". The following dialog window is opened:

VIPA	Tag Setup	System Setup	IO Server Co	onfig	Main Menu	6	
art of automation	Script Setup	Users Setup	Pages Lis	t			
IO Server: S738400 💌 Edit Clear Init		<u>Global Config</u>				30/11/1999 00:08:4	
573 & 400 IO Server & Gateway s	ettings						
Gateway Configuration							
Destination MPI/PROFIBUS Node:	destination Node	2		0126,default: 2			
MPI/PROFIBUS Setup							
Protocol Type:	MPI	Default MPI. PPI Multimaster may only	Default MPI. PPI Multimaster may only be used with the S7200 Io server				
Baud Rate:	187500 💌	Default 187500					
Reply Timeout:	3000 MS	5050000, default: 3000					
MPI/PROFIBUS Address:	0	Device address of TM-E on link (012	Device address of TM-E on link (0 126, default: 0)				
MPI/PROFIBUS Highest Station Address:	31 💌	Default: 31					
Topic A : Enabled							
Topic Name:	A						
Global Device Address:	MPI,2	MPI/PROFIBUS, <u>destination Node</u> or I	SOTCP, ISOTCP address				
Poll Rate	2000 MS	MS Default: 2000					
Topic B: Enabled							
Topic Name:	В						
Global Device Address:		MPI/PROFIBUS, destination Node or I	SOTCP, ISOTCP address				
Poll Rate	MS	Default: 2000					
Topic C :	Enabled						
Topic Name:	с						
Global Device Address:		MPI/PROFIBUS, destination Node or I	SOTCP, ISOTCP address				
Poll Rate	MS	Default: 2000					
Update Config Cancel							

At "Gateway Configuration" and "MPI/Profibus Setup" the values are preset, which are to be used per default.

- Destination node (Address of the destination node)
- Protocol type (standard: MPI)
- Baud rate (standard: 187500)
- Reply Timeout (standard: 3000ms)
- MPI/Profibus Address (Address of the TM module, standard: 0)
- Highest MPI/Profibus Address (standard: 31)

At *Topic* ... access paths to your PLC may be defined, assigned to a corresponding *Topic* character and activated.

By presetting the key words MPI, PROFIBUS respectively ISOTCP and adding an address, a corresponding access path may be defined.

Access via Profibus:	PROFIBUS, # (with # corresponds to the Profibus address of your connected PLC) Example: PROFIBUS, 5		
Access via MPI:	MPI, # (with # corresponds to the MPI address of your PLC) Example: MPI, 2		
Access via IP address:	ISOTCP,IP address,00.02 Enter each without spaces and always add to the IP address ",00.02". Example: ISOTCP,192.16.167.123,00.02		
Enter at Pall Data the standard value 2000ms and aliak at [Undata config]			

Enter at Poll Rate the standard value 2000ms and click at [Update config].

Test PLCTo test the MPI connection a Tag is to be created. In a Tag memory areasconnectionof you PLC are defined.These starses areas may D/W accessed by the Tag

- These storage areas may R/W accessed by the Tag.
- To establish a Tag open at the Web page the page "Tag setup" and click at "Create new Tag ...".
- Enter the following parameters:

Tag name:	Test
Server name:	S73&400
Topic name:	А
Address:	MW0
Туре:	Boolean

- Otherwise leave the standard setting and click at [Add/Update...].
- Access via View I/O Switch with **Main menu** > View I/O to the Tag list.
 - Enter a new value for the Tag "Test" and click at [Update]. Now this value is set and may be transferred to the CPU with clicking to [Update] in the headline.



• If the new value is accepted by the CPU, so the communication between the TM and the CPU is secured.

TM - Project integration - PG/PC interface via NetPro

Precondition	For the further approach it is precondition that you have access to the Web page of the Teleservice module and your CPU is connected to the Teleservice module via MPI and is accordingly configured (see "TM - PLC linking"). For the project engineering, a thorough knowledge of the Siemens SIMATIC manager the hardware configurator and NetPro is required. IP address and subnet mask of your PC are known.
Teleservice	With the teleservice the Teleservice module works as gateway. As gateway via the served communication connections you have access to the VIPA PLC, which is connected via MPI to the TM.
	So that the TM can work as gateway, you have to integrate this to your hardware configuration.
Load TM-H.cfg station file	For the deployment of the Teleservice module in the Siemens SIMATIC manager, the installation of the station file TM-H.cfg is necessary. This file may be found in the download area at www.vipa.de. Download this file to your PC. Later this file is to be imported to the PG/PC interface.
De-activate the automatic IP address assignment	 Since in the Teleservice module predefined IP address data for the PPP server are used, in your project you have to de-activate the automatic address assignment. Start the Siemens SIMATIC manager with your project. Your project should contain your CPU, which is connected via MPI to the MPI bus. Open via Options > Set <i>PG/PC interface</i> the properties dialog. Select the interface parameter assignment "TCP/IP(Auto)", which corresponds to your network card and click to [Properties]. Select the Register "IE-PG Access" and activate the parameter "Do not assign IP address automatically". Confirm your setting with [OK].

Integrate the TM module to the Siemens SIMATIC manager The integration of the Teleservice module to your project happens as PG/PC interface. After the configuration this may be defined as access path for the PLC functions.

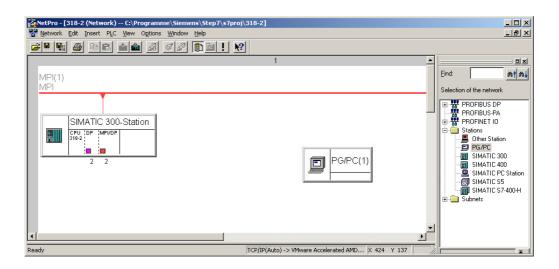
The configuration happens with the following approach:

Start the software NetPro, by clicking to ²²/₂.

For example you see the following structure:

😹NetPro - [318-2 (Network) C:\Programme\Siemens\Step7\s7proj\318-2]	
😤 Network Edit Insert PLC Yiew Options Window Help	_ & ×
<u> </u>	
1	
MPI(1)	Eind: M† M↓
MPI	Selection of the network
SIMATIC 300-Station CPU 10P IMPVDP 318-2 2 2 2	PROFIBUS DP PROFIBUS PA PROFIBUS:PA PROFINET I0 Other Station PG/PC SIMATIC 300 SIMATIC 400 SIMATIC 400 SIMATIC 55 SIMATIC 55 SIMATIC 55 SIMATIC 57-400H Subnets
Image: Control of the second	

Add PG/PC station • Add the station "PG/PC" from *Network*, by double-clicking to the station "PG/PC".



Properties PG/PC station

- Open the properties of the PG/PC station.
- Access the register "Interfaces" and click to [New...].
- Select the type "Industrial Ethernet" and click to [OK].
- De-activate "Set MAC address..."
- Enter at "IP address" and "Subnet mask" the IP address parameters of you PC determined before.

Properties - Ethernet interface	X
General Parameters	
Set MAC address / use ISD protocol	
MAC address:	
☑ IP protocol is being used	
IP address: 172.16.131.161	Gateway Do not use router
Subnet mask: 255.255.224.0	C Use router
	Address: 172.16.131.161
<u>S</u> ubnet:	
not networked	<u>N</u> ew
	Properties
	Dejete
<u> </u>	Cancel Help

- To establish a new subnet click at [New...].
- Confirm the properties with [OK].
- Select if not happened the new established subnet and click at [OK]. Now you are back in the properties dialog.
- Call the register "Assignment".
- Highlight at "Configured Interfaces" your Ethernet interface and select at "Interface parameter assignments in the PG/PC" the parameter, which starts with "TCP/IP(Auto) ->..." and corresponds to your network card.
- Click at [Assign].

Properties -PG/PC General Interfaces Not Assigned Configured Interfac			
Name Ethernet Schnittste	Туре	Subnet Ethernet(1)	
-	Assignments in the PG/PC:		
PC internal (local) TCP/IP -> NdisWa TCP/IP -> VMwan	anlp e Accelerated AMD		
	Mware Accelerated	•	Assign
A <u>s</u> signed:			Disconnect
Interface	Parameter assign S	ubnet S70nline -	
T		Þ	S70NLINE Access:
ОК		(Cancel Help

• Ignore the warn messages and close the "properties" dialog with [OK].

Now your graphical net view should show the following structure:

RetPro - [318-2 (Network) C:\Programme\Siemens\Step7\s7proj\318-2]	
Retwork Edit Insert PLC View Options Window Help	_ 8 ×
<u>2" 1: 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </u>	
1	
MPI(1) MPI	Eind:
	Selection of the network
	PROFIBUS DP PROFIBUS PA
SIMATIC 300-Station	PROFINET IO Stations
CPU IDP IMPVDP 318-2	Other Station PG/PC
	SIMATIC 300
2 2	SIMATIC 400
	SIMATIC S5
Ethernet(1)	
Industrial Ethernet	
Ready TCP/ID/(Auto) -> Wilware Arcelerated AMD V 720 V 246 //	±ر

Import the TM module via station file To import the Teleservice module to your project the first downloaded station file is necessary.

- Start in NetPro the import via Edit > Import.
- Activate the parameter "Export file of a station".
- Enter path and name of the station file TM-H.cfg and click to [OK]. Possibly appearing warnings may be ignored by [Close].

Now your graphical net view should show the following structure:

RetPro - [318-2 (Network) C:\Programme\Siemens\Step7\s7proj\318-2]	- D ×
Be Network Edit Insert PLC View Options Window Help	_ # ×
11	
MPI(1)	Eind: M† M↓
MPI	Selection of the network
SIMATIC 300-Station FUI TOF MENOP 2 2 Ethemet(1) industrial Ethemet	PROFIBUS DP PROFBUS-PA PROFBUS-PA PROFINET ID Stations POPC SIMATIC 500 SIMATIC 500 SIMATIC 57400+ SIMATIC 57400+ SUbnets
To display the connection table, please select a module capable of a connection (CPU, FM module, OPC server or application). To display the network address overview, please select a subnet.	1

- Open the properties dialog of the communication component "IE General" of the station "TM".
- Click in the area "Interface" at [Properties...]. A dialog window for IP address data settings is opened.

Define access viaDepending on the access modes to your Teleservice module, there are the
following possibilities to preset IP address parameters:

Access via Ethernet

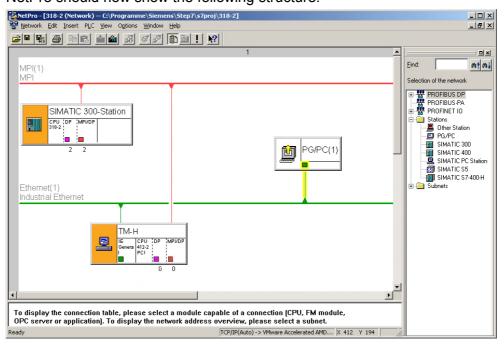
Enter here IP address and subnet mask of your TM. The IP address parameters must correspond to the IP address parameters, which were preset with the software tool "eBuddy".

Access via VPN connection

With a Teleservice module, which communicates via Talk2M, the IP address may be found in the communication software "eCatcher".

As soon as a connection to the Teleservice module is established, the IP address is shown in the "eCatcher".

Set the MPI Open the properties dialog of the communication component "MPI/DP" of "TM-H". Enter the MPI address. This must correspond to the MPI address preset by the software tool "eBuddy".



NetPro should now show the following structure:

Transfer the project to the CPU

Click in the graphical net view at the CPU and transfer your project with **Download** > *Selected stations*.

Now your CPU may be accessed via this connection from the Siemens SIMATIC manager.

TM - Project integration - PG/PC interface via eVCOM

Overview	As another version here the project integration is to be shown by means of a virtual MPI interface. To do this on the PC side the driver "eVCOM" from VIPA is to be installed. Contrary to "Project integration via NetPro" no adjustment is necessary on the PLC side. This version is easy to use but slower than "Project integration via NetPro".		
	With this functionality HMI devices may be accessed, which were configured via MPI.		
	With the teleservice the Teleservice module works as gateway. As gateway via the served communication connections you have access to the PLC, which is connected via MPI to the TM.		
Precondition	For the further approach it is precondition that you have access to the Web page of the Teleservice module and your CPU respectively your HMI device is connected to the Teleservice module via MPI and is accordingly configured (see "TM - PLC linking").		
Installation	The driver file "eVCOM" may be found in the download area www.vipa.de.		

Establish virtual interface

- Start eVCOM.
 - In the Dialog window click at [Add Port].
 - Select a free COM port of your PC and choose "MPI ISO TCP" for MPI communication.

For installation start eVCOMSetup.exe and follow the instructions.

Create new port	COM1		/irtual Ports Port Type	ort Name
Port Type: MPI ISOTCP	×	Create new port		
	сомз 💌	Port Nat		
	MPLISOTCP	Port Ty		
OV Consul	Cancel			

- Confirm your settings with [OK].
- Enter at Gateway address a valid IP address (see below).
- Do not change the Gateway port "102".
- Confirm you settings and click at [Enable Port]. The virtual MPI interface is now activated. This is shown by the symbol 𝒴 in the list.

Define access viaDepending on the access mode to your Teleservice module, there are the
following possibilities to preset the IP address:

Access via Ethernet

The IP address must be the same as the IP address, which was preset by the software tool "eBuddy".

Access via VPN connection

With a Teleservice module, which communicates via Talk2M, the IP address may be found in the communication software "eCatcher".

As soon as a connection to the Teleservice module is established, the IP address is shown in the "eCatcher".

Settings in the Siemens SIMATIC Manager

- Load your project in the SIMATIC manager from Siemens.
- Choose in the menu **Options** > Set PG/PC interface.
- Select in the according list the "PC Adapter (MPI)"; if appropriate you have to add it first, the click at [Properties].
- Switch to the register MPI.
- Set the transfer parameters of your MPI net and type in an unused address.
- Switch to the register *Local connection*.
- Select the COM port, which you have configured at eVCOM and set the transfer rate to 38400baud. Confirm you settings with [OK]. Now your CPU may be accessed with the TM via MPI by means of the PLC functions.

Deployment of Tags

Precondition	For the further approach it is precondition that you have access to the Web page of the Teleservice module, your PLC may be reached via the TM and the corresponding <i>Topics</i> are configured. The access paths to your PLC are defined by <i>Topics</i> . More about the configuration of <i>Topics</i> may be found at "TM - PLC linking".	
What is a Tag?	source. For example the a Tag you have reading assigned data source m By presetting of limit va	ectively analog value, which is assigned to a data e data source could be a flag word of your PLC. To g and writing access (configurable). So the directly ay be accessed by the Tag. lues for a Tag, the TM has the possibility for limit ate alerting via SMS respectively eMail.
Establishing a Tag	Navigate via Configu "Create New Tag".	of the TM to establish a Tag. I ration > <i>Tag setup</i> to the page rameters may be entered:
	Identification	
	Tag name:	Name with which the Tag is listed. The Tag name may maximally consist of 64 characters and must not include the following characters: space, \$ "
	Page:	Let the value at "Standard"
	Tag description:	Give a comment to the Tag
	I/O server setup	
	Server name:	For VIPA PLCs select "S73&400"
	Topic name:	Devices within an I/O server are grouped by <i>Topic name</i> . Enter A, if you have defined your MPI interface as Topic A, as described at "TM-E - PLC linking".
	Address:	Enter a value from your PLC, which is to be assigned to the Topic (see the following table).
	Type:	Here define as Type <i>boolean</i> or <i>analog</i> depending on the parameter <i>Address</i> .
	Alarm setup	
	If you wish an al messages.	erting, you may enter limit values here for alert

Name conventions
for AddressThe following symbolic names may be used on deployment together with a
VIPA PLC by selecting "S73&400" server:

Symbol

Symbol	Memory type	Modificator	Address
DBx	Data block with No. x	B, C, W, S, D, L, F	Byte offset
М	Internal memory (flag)	B, C, W, S, D, L, F	Byte offset
С	Counter	W, S	Counter No.
Т	Timer	W, S	Timer No.
I	Process inputs	B, C, W, S, D, L, F	Byte offset
Q	Process outputs	B, C, W, S, D, L, F	Byte offset
PI	Peripheral inputs	B, C, W, S, D, L, F	Byte offset
PQ	Peripheral outputs	B, C, W, S, D, L, F	Byte offset

Modificator

Modificator	Туре	Range of values
В	Byte	0 255
С	Byte with sign	-128 127
W	Word	0 65535 (default)
S	Word with sign	-32768 32767
D	DWord	0 4294967296
L	DWord with sign	-2147483648 2147483647
F	Float	+/- 3.4E38

Bit access via # With each memory type there is the possibility to access a bit. Here add a # and the bit no. to the *Address* name.

For the bit no. the values 0 ... 7 may be used.

1

Note!

If you do not enter a *Modificator* automatically the type "Word" is used. With data blocks a *Modificator* is always to be entered.

Example

Address	Description
MW4	Flag word 4
CS1	Counter 1, read as word with sign
TS7	Timer 7, read as word with sign
DB2L5	DWord at address 5 (in bytes) in data block 2
IB3	Byte at address 3 (in bytes) in the input area
15#2	Input I5.2
Q10#6	Output Q10.6

Examples	For the further approach it is precondition that you have access to the Web page of the Teleservice module, your PLC may be reached via the TM and the corresponding <i>Topics</i> are configured.	
Accessing data in the PLC	Enter the following param Tag name: Server name: Topic name: Address: Type:	n > <i>Tag setup</i> to the page "Create new Tag".

- Access via View I/O Switch with **Main menu** > View I/O to the Tag list.
 - Enter a new value for the Tag "Test" and click at [Update]. Now this value is set and may be transferred to the CPU with clicking to [Update] in the headline.



- If the new value is accepted by the CPU, so the communication between the TM and the CPU is secured.
- Accessing the I/Os of the TM
- Open the Web page of the Teleservice module.
- Navigate via Configuration > Tag setup to the page "Create new Tag ...".
- Enter the following parameters:

Tag Name:	TM_Input res.	TM_Output
Server Name:	ТМ	ТМ
Topic Name:	remains free	remains free
Adresse:	DI1	DO1
Тур:	Digital	Digital

• Otherwise leave the standard setting and click at [Add/Update...].

Access via View I/O Here also the input may be read respectively the output may be written by means of the Tag list.

VPN connection - Talk2M

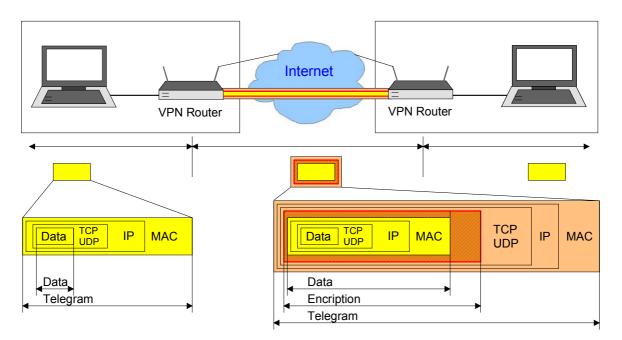
- VPN (Virtual Private Network) is an interface in a network, which serves to bind devices from their original net to another attainable net. The networks do not have to be compatible. A VPN connection is secured by coding mechanisms. The VPN technology serves for a safe and cost-effective connection of branches respectively regional offices. Internal data may be surely transferred via VPN.
- **Functionality** VPN works with the client server principle, this means there must be always at least a client and a server. The Teleservice module can be both client and server.

For the communication of the assigned net with its communication partner the original network packages a packed into a VPN protocol and transferred to the communication partner. This is called *tunnel*.

A tunnel software on the client and server serves for embedding third-party data to the tunnel and extracting the data at the other side.

In relation to other kinds of tunnel of a TCP/IP net the VPN tunnel is characterized by the fact that it passes every network packages independently of higher protocols (HTTP, FTP etc.). On this way it is possible to transfer the data traffic of two net components practically unrestricted through an other network, which is not safe like the Internet .

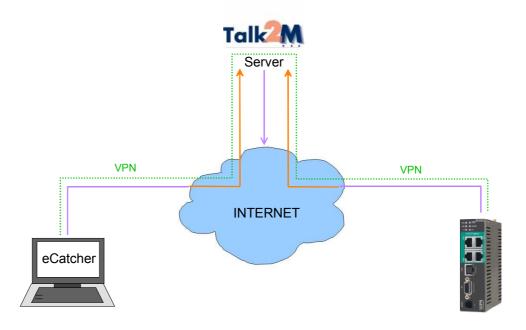
The TM-H uses OpenVPN. OpenVPN tunnels the data safety through one port (standard port 1194). The data are coded SSL based 128bit. For the transfer UDP is used by the OpenVPN protocol.



Talk2MTalk2M (Talk to Machine) is a service, by means of which you may reach
your plant word-wide via cellular radio or DSL/LAN. Talk2M communicates
fully secured over VPN. Since Talk2M only uses outgoing connections,
problematic points like firewalls, missing open ports and dynamic IP
addresses may be handled

The Talk2M server is permanently connected to the Internet. To establish a VPN connection between your PC and your plant, your PC and your Teleservice module must be registered at the VPN server.

If both participants are registered at the Talk2M server, a VPN connection is established between your PC and your plant.



Fast introduction For the access via VPN the following steps are necessary:

- Install the software "eCatcher" at your PC (www.talk2m.com).
- Create a Talk2M account via eCatcher. Check if necessary the network settings by means of the *Testbox* of Talk2M.
- Add your Teleservice module to the account.
- Configure the Teleservice module for the Talk2M connection.
- Connect the Teleservice module to the Talk2M server.

VPN connection - PC-Talk2M

Approach

For the access with your PC to Talk2M following steps are necessary:

- Install the software "eCatcher" at your PC.
- Create a Talk2M account via eCatcher.
- Add your Teleservice module to the account.
- Configure the Teleservice module for the Talk2M connection.
- Connect the Teleservice module to the Talk2M server.

Installation eCatcher

- Open www.talk2m.com
- Download the free software "eCatcher".
- For installation start eCatcherSetup.exe and follow the instructions

After installation the eCatcher starts automatically.

🚑 eCatcher 2.0 Build 73		
Talk2M 🔗 📃		
Back Porward Refresh		
Talk2M	Yo	u select, We connect 🗖
	Login	
	Username: Create an account	#
	Password: Forgot Password?	
	Remember me Connect automatically	
	Connection Settings Login	
<		>

Creating a Talk2M account

- Create an account by clicking to [Create an account]. With the first creation of an account you get 50 free SMS.
- Enter at Full Name your full name, at User name your user name and a password.
- Accept the term of conditions and confirm your settings with [Continue].

Create your login	Talk2M
<u>E</u> ull Name:	Talk2M
<u>U</u> sername:	Talk2M
Password:	Min 6 characters
<u>R</u> e-type password:	Min 4 characters
	Read terms & conditions
	< Zurück Weiter > Abbrechen

- At the following dialog enter your eMail address, your company and country.
- With [Continue] the account is created and your system is automatically connected to the Talk2M server.

eate Talk2M Account Additional information	Talk2M
<u>E</u> -mail:	user@vipa.de Important notifications will be sent to this address only.
<u>C</u> ompany: C <u>o</u> untry:	vipa Germany
	< <u>Z</u> urück <u>W</u> eiter > Abbrechen

Network settings for the use of Talk2M	If there is no connection to Talk2M possible, for communication via Talk2M the following network settings must be checked. Please ask here if necessary your system administrator.
Internet connection	An Internet connection via standard gateway in your network or via DSL router with integrated modem should be exist.
Connection parameters	 If there is a proxy server, you have to know the connection parameters to access the proxy server: Proxy server name or IP address (e.g. Proxy.company.com:8080) Proxy user name Proxy password
Addresses	You will find an overview of addresses, that must be reachable under www.ewon.biz/support in "Knowledge Base". Enter here "addresses and ports".
Ports	To create an outgoing VPN channel the following ports are necessary:Port 80 (Web access)Port 1194 (UDP) or Port 443 (HTTPS)
Automatic check of the network settings	To check the network settings in the installation directory there may be found the program TestBox.exe. Start this program. After starting the program a test is automatically executed If the test reports an error, eCatcher is not able to get connection to Talk2M. Please check your settings again. If there is no error, the communication via Talk2M is possible.

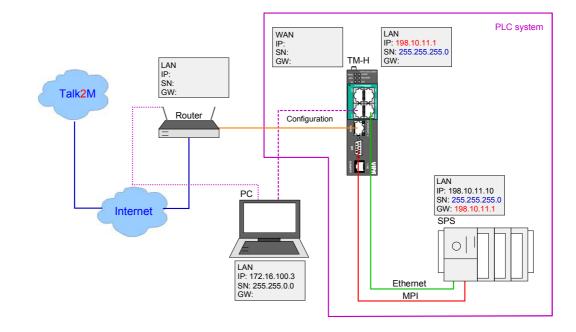
Testing connectivity:		
🕝 Server IP address = 87.98.150	.3.	
Ping OK. Reply received in 31 r	villisec.	
🕑 UDP 1194 connection OK. Repl	received in 16 millisec.	
Connection OK (through UDP).		
	·	
	2000	
Proxy <u>s</u> erver:	e.g.: proxy.company.com:8080	
	e.g.: proxy.company.com:8080	
	e.g.: proxy.company.com:8080	
Proxy Username:	e.g.; proxy.company.com:8080	
Proxy gerver:	e.g.: proxy.company.com:8080	

Configure Talk2M and connect to TM If the connection to the Talk2M server was successfully established, the configuration dialog is shown.

Welcome: Vipa-TM.E - Vipa Log out You select, We connection You select, We connection Active Connection You are not connected to any station. WONL List You are not connected to any station. WONL List Status Description Click the New WONL button to add arWONSs to this list.	M 🔗 📒 k 📦 Forward 🔞 Refn	esh				
My eWONs My Account History Pieto Active Connection Solution You are not connected to any station. eWON List One of the second to t	Welcome: Vipa-TM-E - V	lipa <u>Log out</u>				
My eWONs My Account History Pieto Active Connection Solution You are not connected to any station. eWON List One of the second to t				You	select, We co	nnec
Sisconnect You are not connected to any station. eWON List Owner WON Actions Name Xex Status Description		My eWONS	My Account	History	🕜 Help	
You are not connected to any station. eWON List New eWON Actions Name Xiatus Description	Active Connection]				
eWON List	Solution Disconnect					
😮 New eWON Actions Name 💉 Status Description		You are r	not connected to any static	on.		
Actions Name 💉 Status Description	eWON List					
	New eWON					
Click the 'New eWON' button to add eWONSs to this list	Actions Name	💉 Status	Description			
cities that error batter to day error by Ulla lide	Click the 'N	ew eWON' button to ac	dd eWONSs to this list.			

VPN connection - TM-Talk2M via DSL/LAN

Principle



Connect TM to Talk2M via DSL/LAN Start the program eCatcher. If the connection to the Talk2M server was successfully established, the configuration dialog is shown. The configuration dialog is divided into 2 parts.

In the upper part the active connections are shown. In the lower part the Teleservice modules (TM) are listed which are connected to the server. With the first-startup still no modules are listed.

🔔 eCatcher 2.0 Build 73 - Conn	ected: Talk2M				
Talk 🕰 📃					
< Back 🗼 Forward 🛛 🥑 Refres	h				
Welcome: Vipa-TM-E - Vip	a Log out				
			You s	elect, We co	n n e c t
Lauk Tihi	My eWONs	My Account	History	🕜 Help	
Active Connection					
Disconnect					
	You are no	t connected to any statio	n.		
eWON List					
New eWON					
Actions Name	🚿 Status	Description			
Click the 'Nev	w eWON' button to add	eWONSs to this list.			

Proceeding registration of a TM at Talk2M • To add a new Teleservice module click at [New eWON...]. The following dialog window is opened:

ralk2M	My eWONs	My Account	History	🕜 Help	
New eWON					
Save	Cancel				
eWON Description					
eWON Name:	TM-H 2				
Description:					
Serial Number:		You may leave this fi The eWON will send i			
Activation Key:					
Connection Type:	LAN/ADSL				
Remote Network		Remote subnet acces	sible on the eWON L4	AN side (if any).	
eWON LAN IP:	172.20.123.37	e.g.: 10.0.0.53 Leave blank if you ne	ed not access the eW	ION'S LAN	
Network Mask:	255,255,255,0	e.g.: 255.255.255.0			

- Enter at *Name* a suited name for your TM. The fields *Description* and *Serial number* may be free.
- Select at Connection type "LAN/DSL".
- Enter at *LAN IP* the IP address and at *Network Mask* the subnet mask, which the TM should have at the Ethernet (LAN) side.
- Click at [Save]. The following dialog window with an Activation Key is opened.

			You s	elect, We co	nnec
	My eWONs	My Account	History	🕜 Help	
eWON Setup: TM-H					
🐗 Back 🛛 👪 Advan	ced				
Select your preferred method to	configure your eWON:				
Configure via SMS		eWON with its activation key. ote auto-configuration		0	
A					
Configure via Activation Key	Use the eWON's con	figuration wizard and enter th	is activation key	0	
ARKSIE	Activation Key:	724B8D739EA089DF9C0B14	CADDF95616	сору	
Configure via eWON Name	Use the eWON's cor your Talk2M login + t	figuration wizard and enter he eWON name.		Ø	
	eWON Name:	ТМ-Н		сору	

- Copy the *Activation Key* with [Copy] into clipboard respectively in a text file. You may use this later.
- Log off eCatcher and close eCatcher.

Proceeding establishing TM connection for Talk2M

- Open the Web page of your TM. Per default *username* and *password* are adm.
- Click at [Configuration].
- Open the configuration assistant by clicking to <a>. The following dialog window is opened:

Vhat do you want to) configure?
	Configure INTERNET Connection
	Use this wizard to configure how the eWON will connect to the Internet.
10	Test INTERNET Connection
	Use this wizard to test the eWON internet connection.
	Configure Talk2M connectivity
Talk2M	Use this option to configure this eWON to connect to talk2M.com The eWON must first be defined in Talk2M
	Configure "Endian For eWON" connectivity
0.000	Use this option to configure this eWON to connect to your Endian4eWON
circitan	VPN server The eWON must first be defined in your VPN server.
-	Configure mdex connectivity
mdex	Use this option to configure this eWON to connect to mdex.
	use this option to configure this enroll to connect to index.

- Please select here "Configure INTERNET connection".
- At the next page select "Ethernet WAN connection".



• Click at [Next].

• At *Address settings* select "DHCP" for an automatic address allocation respectively "static" for an manual address allocation and enter the corresponding IP address data, which the TM should have to the external side (WAN).

Ethernet WAN connection	
Address Setup DHCP 💌	
IP Address: 0.0.0.0	
Subnet Mask: 0.0.0.0	
Default 0.0.0.0 Gateway:	
DNS Via DHCP	
Primary DNS: 0.0.0.0	
Secondary DNS: 0.0.0.0	
HTTP Proxy	
Connect to Talk2M through Proxy	
Do you connect to Talk2M through an HTTP Proxy?	

• Click at [Next].

Ethernet WAN connection	
Address Setup Static 💌	
IP Address: 10.1.0.53	
Subnet Mask: 255.255.255.0	
Default 0.0.0.0 Gateway:	
DNS	
Primary DNS: 0.0.0.0	
Secondary DNS: 0.0.0.0	
HTTP Proxy	
Connect to Talk2M through Proxy	
Do you connect to Talk2M through an HTTP I	Proxy?

• Select "Maintain connection".

Configure "Go Online" trigger
C Triggered by outgoing actions
eWON will establish the connection each time an internal action needs t connect to the Internet (eMail, FTP, NTP, etc.)
Maintain connection
eWON will establish the Internet connection each time it is broken down

- Click at [Next].
- If the Internet connection does not use a proxy server respectively does not refer to an address of the intranet, with the option *Test of an online address* the Internet connection may be tested. For the test enable this option and click at [Test].

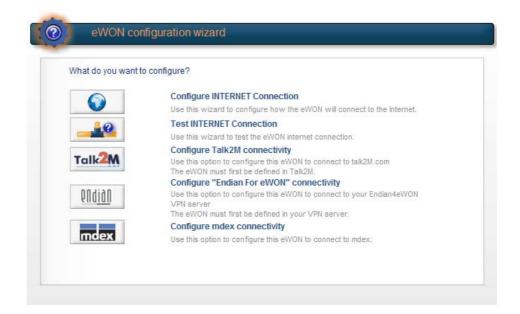
Internet con	nection is configured
Click Next to	start the Internet connection test:
✓ Test on	line address.
	box is selected, eWON will perfom an online IP check. configured a connection through proxy or on an intranet, do not est.

• Important for the connection to Talk2M is only a successful Internet connection. Error messages during the test of the online IP address are not relevant.

Current operation Finished	
Results	
✓ Internet connection	
- Online IP Check	Internet communication failed
Diagnosis	
The Statement and the second	ctivity test has failed, Follow this link to go to the events log page.
×	

- If the test of the Internet connection was successfully passed click at [Done].
- In the configuration assistant select "Configure Talk2M connection".

Proceeding configuring Talk2M connection



• In the next window select "Talk2M Free".

	2M service you want to use.
Talk2M	Talk2M Free 💿 Talk2M Pro 🔿
	You created your account on Talk2M Free US: When you first create your Talk2M Free account,
	you must select the account location. Accounts created before june 2009 are NOT is
	USA

- Select *Registration by an Activation Key* and paste the copied Activation Key of Talk2M into the designated field. With *Registration by eWon Name* you may also register your TM by entering TM Name, user name and Password.
- Click at [Next].

6	Has the siMON Tal	
(22) ++1		k2m name and your Talk2m login and pasword. rst be defined in Talk2M.
*	The eWON must fir Activation Key:	st be defined in Talk2M. 65C72ABDE7EE549F298B9DAC5A2A6435
		na Internet Connection t access must be correctly configured.

• If you want to establish the connection via a proxy server, please type in IP address and port of the proxy server, *user name* and *password*.

HTTP proxy configuratio	n
Proxy server IP address (not name):	
Proxy server port:	
User Name:	
User Password:	

- Else erase existing proxy settings and click at [Next]. Now the TM will establish a connection to the Talk2M server via the LAN/DSL interface and is there be registered.
- If a success is reported by the diagnostics with "Success: VPN connection successfully established and tested", the TM is successfully registered at the Talk2M server.

Finished	25
Results	
VAN connection	
VDP connection	
✓ HTTP direct connection	
A HTTP Proxy connection Operation skipped	
✓ Read Talk2M config	
✓ Test VPN connection	
Diagnosis	
VPN connection will use UDP mode SUCCESS: VPN connection configured and tested	

• After that close the browser and so the configuration of your TM.

Proceeding establishing VPN connection via Talk2M • Start the software "eCatcher" and log in at the start dialog with your user name and password. The VPN connection to the TM is established and the TM is listed.

	My eWONs	My Account	History	🕘 🕐 H	elp
Active Connection					
Sonnect					
	You are n	ot connected to any static	on.		
eWON List					
🔐 New eWON					
Actions Name	N Status	Description			
🔯 😹 тм-н	Online				

• To establish a VPN connection to your TM click to the connect symbol

of the corresponding TM. As soon as the connection is established this is shown at Status with "Connected ...". Now you have direct access to the PLCs connected to the TM.

	My eWONs	My Account	History	Hell	n
	and other the	wy Account	Plistony		P
Active Connection	1				
Disconnect					
Connected to: Th	И-Н				
	<u>1-11</u>).8.32.236 - 172.20.123.3	7/24			
		7/24			
IP & Remote Network: 10		7/24			
IP & Remote Network: 10 eWON List		7/24 Description			

- For a direct access to the start page of the TM click to the name link of the TM. After requesting user name and password (default for both: adm) the TM may fully be accessed.
- To close the VPN connection and return to the offline mode click at ¹/₂.

Appendix

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